

8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.407 (b), 15.209, 15.205
 According to 789033 D02 Section II.G
 According to 987594 D02 Section II.G
 According to RSS-GEN 8.9, 8.10 and 6.13
 According to RSS-248 4.7

8.6.2 Conformance Limit

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.
 Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
 The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The provisions of §15.205 apply to intentional radiators operating under this section, 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

8.6.3 Test Configuration

Test according to clause 7.2 radio frequency test setup

8.6.4 Test Procedure

■ Unwanted Emissions Measurements below 1000 MHz

Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

The EUT was placed on a turn table which is 0.8m above ground plane.

And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Repeat above procedures until all frequency measured was complete.

We use software control the EUT, Let EUT hopping on and transmit with highest power, All the modes have been tested and the worst result was reported.

Use the following spectrum analyzer settings:

Set RBW=120kHz for $f < 1$ GHz(30MHz to 1GHz), 200Hz for $f < 150$ KHz(9KHz to 150KHz), 9KHz for $f < 30$ MHz(150KHz to 30MHz).

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

Follow the guidelines in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Repeat above procedures until all frequency measured was complete.

■ Unwanted Maximum peak Emissions Measurements above 1000 MHz

Maximum emission levels are measured by setting the analyzer as follows:

RBW = 1 MHz.

VBW $\geq$ 3 MHz.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50 percent duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

■ Unwanted Average Emissions Measurements above 1000 MHz

Method AD (Average Detection): Primary method

RBW = 1 MHz.

VBW $\geq$ 3 MHz.

Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

Averaging type = power averaging (rms)

Sweep time = auto.

Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

8.6.5 Test Results

PASS

Temperature :	25℃	ATM Pressure:	1011 mbar
Humidity :	60 %	Test Engineer:	LJM

■ Spurious Emission below 30MHz(9KHz to 30MHz)

For Spurious Emission below 30MHz (9KHz to 30MHz), was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



■ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11A(20) Frequency(MHz): 5955

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4132.40	48.82	-9.93	74.00	25.18	PK	Vertical	100
2	8419.17	58.64	-0.64	74.00	15.36	PK	Vertical	120
3	16975.6	66.69	13.51	74.00	7.31	PK	Vertical	180

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4132.406	32.45	54.00	21.55	AV	Vertical	105
2	8419.171	38.21	54.00	15.79	AV	Vertical	129
3	16975.69	49.20	54.00	4.80	AV	Vertical	170

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4384.86	49.55	-9.32	74.00	24.45	PK	Horizontal	105
2	8359.66	57.53	-0.44	74.00	16.47	PK	Horizontal	129
3	17019.9	66.75	13.59	74.00	7.25	PK	Horizontal	178

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4384.869	33.66	54.00	20.34	AV	Horizontal	105
2	8359.668	37.65	54.00	16.35	AV	Horizontal	150
3	17019.90	48.77	54.00	5.23	AV	Horizontal	170

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6175

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4393.36	48.69	-9.25	74.00	25.31	PK	Vertical	109
2	8301.86	57.23	-0.55	74.00	16.77	PK	Vertical	129
3	17421.9	66.73	13.63	74.00	7.27	PK	Vertical	170

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4393.369	32.95	54.00	21.05	AV	Vertical	105
2	8301.865	37.64	54.00	16.36	AV	Vertical	159
3	17421.97	49.55	54.00	4.45	AV	Vertical	178

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4387.41	48.43	-9.31	74.00	25.57	PK	Horizontal	120
2	8314.61	58.02	-0.52	74.00	15.98	PK	Horizontal	155
3	16865.1	66.73	12.70	74.00	7.27	PK	Horizontal	178

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4387.419	33.48	54.00	20.52	AV	Horizontal	119
2	8314.615	38.13	54.00	15.87	AV	Horizontal	129
3	16865.19	48.11	54.00	5.89	AV	Horizontal	172

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6415

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4130.70	48.64	-9.93	74.00	25.36	PK	Vertical	110
2	8314.61	58.41	-0.52	74.00	15.59	PK	Vertical	129
3	16804.8	66.66	12.20	74.00	7.34	PK	Vertical	170

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4130.706	32.17	54.00	21.83	AV	Vertical	117
2	8314.615	38.01	54.00	15.99	AV	Vertical	129
3	16804.84	47.39	54.00	6.61	AV	Vertical	180

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4367.01	49.05	-9.47	74.00	24.95	PK	Horizontal	119
2	8395.36	58.22	-0.43	74.00	15.78	PK	Horizontal	129
3	16935.7	66.70	13.22	74.00	7.30	PK	Horizontal	170

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4367.018	32.61	54.00	21.39	AV	Horizontal	112
2	8395.369	38.35	54.00	15.65	AV	Horizontal	130
3	16935.74	48.59	54.00	5.41	AV	Horizontal	172

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6435

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4395.06	48.52	-9.24	74.00	25.48	PK	Vertical	135
2	8314.61	57.07	-0.52	74.00	16.93	PK	Vertical	201
3	17730.5	66.69	13.12	74.00	7.31	PK	Vertical	110

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4395.069	33.21	54.00	20.79	AV	Vertical	138
2	8314.615	38.41	54.00	15.59	AV	Vertical	205
3	17730.53	48.45	54.00	5.55	AV	Vertical	115

Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4105.20	49.10	-9.82	74.00	24.90	PK	Horizontal	130
2	8435.32	58.56	-0.83	74.00	15.44	PK	Horizontal	190
3	16881.3	66.66	12.82	74.00	7.34	PK	Horizontal	109

AV Final Data List							
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4105.205	32.76	54.00	21.24	AV	Horizontal	141
2	8435.321	37.70	54.00	16.30	AV	Horizontal	199
3	16881.34	48.21	54.00	5.79	AV	Horizontal	120

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6475

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4382.31	49.21	-9.35	74.00	24.79	PK	Vertical	145
2	8352.86	57.64	-0.44	74.00	16.36	PK	Vertical	180
3	16637.3	66.84	10.88	74.00	7.16	PK	Vertical	125

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4382.319	33.10	54.00	20.90	AV	Vertical	150
2	8352.867	37.66	54.00	16.34	AV	Vertical	185
3	16637.38	46.75	54.00	7.25	AV	Vertical	130

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4392.51	49.14	-9.25	74.00	24.86	PK	Horizontal	148
2	8358.81	57.80	-0.44	74.00	16.20	PK	Horizontal	191
3	17175.4	66.74	14.02	74.00	7.26	PK	Horizontal	130

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4392.519	33.39	54.00	20.61	AV	Horizontal	151
2	8358.817	38.04	54.00	15.96	AV	Horizontal	185
3	17175.45	49.68	54.00	4.32	AV	Horizontal	125

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6515

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4374.66	48.80	-9.40	74.00	25.20	PK	Vertical	130
2	8413.22	57.84	-0.58	74.00	16.16	PK	Vertical	178
3	17297.8	66.66	12.60	74.00	7.34	PK	Vertical	119

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4374.668	33.50	54.00	20.50	AV	Vertical	139
2	8413.220	37.81	54.00	16.19	AV	Vertical	180
3	17297.86	47.70	54.00	6.30	AV	Vertical	110

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4134.95	49.42	-9.94	74.00	24.58	PK	Horizontal	139
2	8416.62	57.40	-0.62	74.00	16.60	PK	Horizontal	180
3	17711.8	66.77	13.19	74.00	7.23	PK	Horizontal	110

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4134.956	32.94	54.00	21.06	AV	Horizontal	136
2	8416.620	38.36	54.00	15.64	AV	Horizontal	183
3	17711.83	48.72	54.00	5.28	AV	Horizontal	121

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6535

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4364.46	49.74	-9.48	74.00	24.26	PK	Vertical	139
2	8439.57	57.81	-0.88	74.00	16.19	PK	Vertical	110
3	17714.3	66.76	13.18	74.00	7.24	PK	Vertical	150

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4364.468	33.30	54.00	20.70	AV	Vertical	128
2	8439.572	37.28	54.00	16.72	AV	Vertical	118
3	17714.38	49.13	54.00	4.87	AV	Vertical	159

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4367.01	48.70	-9.47	74.00	25.30	PK	Horizontal	130
2	8320.56	57.91	-0.51	74.00	16.09	PK	Horizontal	110
3	16726.6	66.89	11.55	74.00	7.11	PK	Horizontal	168

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4367.018	33.27	54.00	20.73	AV	Horizontal	141
2	8320.566	38.01	54.00	15.99	AV	Horizontal	128
3	16726.63	47.08	54.00	6.92	AV	Horizontal	160

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6695

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4231.01	49.82	-10.21	74.00	24.18	PK	Vertical	140
2	8406.42	57.96	-0.51	74.00	16.04	PK	Vertical	119
3	17172.0	66.70	13.98	74.00	7.30	PK	Vertical	141

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4231.011	31.79	54.00	22.21	AV	Vertical	145
2	8406.420	38.17	54.00	15.83	AV	Vertical	116
3	17172.05	49.21	54.00	4.79	AV	Vertical	139

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4146.85	49.09	-9.98	74.00	24.91	PK	Horizontal	133
2	8363.91	57.58	-0.44	74.00	16.42	PK	Horizontal	110
3	17820.6	66.70	12.61	74.00	7.30	PK	Horizontal	131

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4146.857	32.42	54.00	21.58	AV	Horizontal	140
2	8363.918	38.55	54.00	15.45	AV	Horizontal	115
3	17820.64	47.92	54.00	6.08	AV	Horizontal	130

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6855

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4119.65	50.01	-9.88	74.00	23.99	PK	Vertical	122
2	8326.51	57.43	-0.49	74.00	16.57	PK	Vertical	130
3	17199.2	66.74	14.26	74.00	7.26	PK	Vertical	156

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4119.656	32.70	54.00	21.30	AV	Vertical	120
2	8326.516	37.62	54.00	16.38	AV	Vertical	138
3	17199.26	49.99	54.00	4.01	AV	Vertical	150

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4243.76	48.74	-10.17	74.00	25.26	PK	Horizontal	120
2	8326.51	57.29	-0.49	74.00	16.71	PK	Horizontal	138
3	16815.0	66.67	12.30	74.00	7.33	PK	Horizontal	150

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4243.762	32.33	54.00	21.67	AV	Horizontal	128
2	8326.516	38.44	54.00	15.56	AV	Horizontal	150
3	16815.04	47.52	54.00	6.48	AV	Horizontal	132

Remark: 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, only the worst data is recorded in the report.

Note:

- (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS;
- (3) Corrected Reading = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6895

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4100.95	48.71	-9.81	74.00	25.29	PK	Vertical	151
2	8325.66	57.75	-0.49	74.00	16.25	PK	Vertical	136
3	17010.5	66.64	13.63	74.00	7.36	PK	Vertical	150

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4100.955	33.00	54.00	21.00	AV	Vertical	160
2	8325.666	37.99	54.00	16.01	AV	Vertical	150
3	17010.55	48.66	54.00	5.34	AV	Vertical	120

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4342.36	49.02	-9.67	74.00	24.98	PK	Horizontal	167
2	8332.46	57.70	-0.48	74.00	16.30	PK	Horizontal	150
3	17157.6	66.75	13.84	74.00	7.25	PK	Horizontal	120

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4342.367	32.99	54.00	21.01	AV	Horizontal	160
2	8332.466	38.06	54.00	15.94	AV	Horizontal	155
3	17157.60	49.16	54.00	4.84	AV	Horizontal	123

Remark: 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, only the worst data is recorded in the report.

Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11A(20)

Frequency(MHz): 6995

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4201.26	48.81	-10.30	74.00	25.19	PK	Vertical	166
2	8333.31	57.43	-0.47	74.00	16.57	PK	Vertical	131
3	16919.5	66.75	13.11	74.00	7.25	PK	Vertical	100

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4201.260	31.99	54.00	22.01	AV	Vertical	155
2	8333.316	38.06	54.00	15.94	AV	Vertical	129
3	16919.59	49.07	54.00	4.93	AV	Vertical	101

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4395.06	49.34	-9.24	74.00	24.66	PK	Horizontal	169
2	8295.91	57.38	-0.67	74.00	16.62	PK	Horizontal	130
3	16677.3	66.99	11.17	74.00	7.01	PK	Horizontal	105

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4395.069	33.06	54.00	20.94	AV	Horizontal	156
2	8295.914	37.35	54.00	16.65	AV	Horizontal	135
3	16677.33	46.62	54.00	7.38	AV	Horizontal	100

Remark: 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, only the worst data is recorded in the report.

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Note:	(1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.
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U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11A(20)

Frequency(MHz): 7115

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4235.26	48.84	-10.19	74.00	25.16	PK	Vertical	148
2	8358.81	57.57	-0.44	74.00	16.43	PK	Vertical	137
3	16705.3	67.21	11.37	74.00	6.79	PK	Vertical	105

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4235.261	32.03	54.00	21.97	AV	Vertical	146
2	8358.817	38.44	54.00	15.56	AV	Vertical	130
3	16705.38	46.42	54.00	7.58	AV	Vertical	110

Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4158.75	48.49	-10.05	74.00	25.51	PK	Horizontal	140
2	8312.91	57.54	-0.52	74.00	16.46	PK	Horizontal	120
3	17205.2	66.69	14.19	74.00	7.31	PK	Horizontal	105

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity	Antenna Height (cm)
1	4158.757	32.01	54.00	21.99	AV	Horizontal	150
2	8312.915	38.42	54.00	15.58	AV	Horizontal	120
3	17205.21	49.64	54.00	4.36	AV	Horizontal	100

Remark: 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, only the worst data is recorded in the report.

Note:

- (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak;
- (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS;
- (3) Corrected Reading = Reading Level + Correct Factor;
- (4) Correct Factor = Ant_F + Cab_L - Preamp;
- (5) Margin = Limit - Corrected Reading;
- (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit.
- (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.

■ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

● For U-NII 5

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20) Frequency(MHz): 5955

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5918.1875	55.55	41.01	68.20	12.65	PK	Vertical
2	7135.305	59.22	44.35	68.20	8.98	PK	Vertical
1	5913.5725	56.22	40.99	68.20	11.98	PK	Horizontal
2	7128.915	58.95	44.24	68.20	9.25	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20) Frequency(MHz): 6415

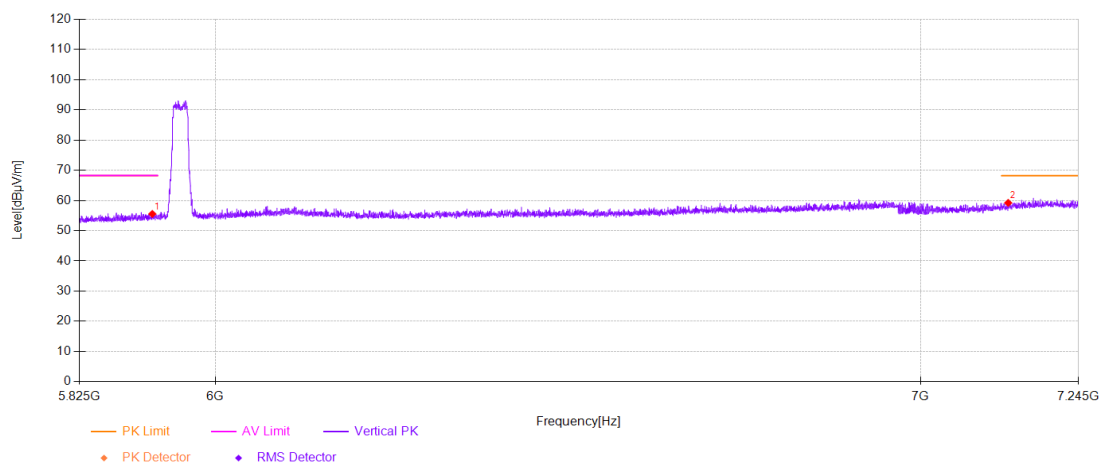
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5922.8025	55.73	41.02	68.20	12.47	PK	Vertical
2	7137.79	58.85	44.39	68.20	9.35	PK	Vertical
1	5921.205	55.53	41.01	68.20	12.67	PK	Horizontal
2	7134.4175	59.53	44.33	68.20	8.67	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 5955

Ant.Pol: V

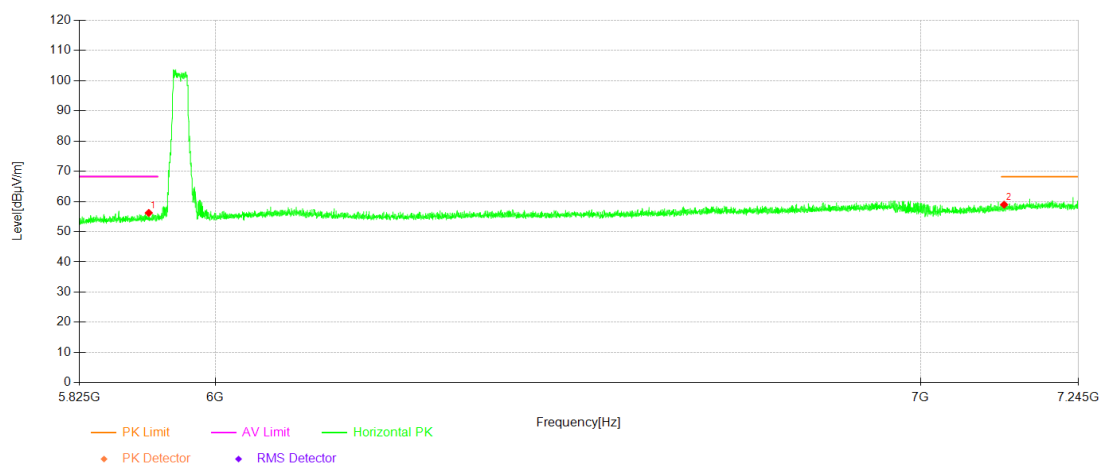


U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 5955

Ant.Pol: H

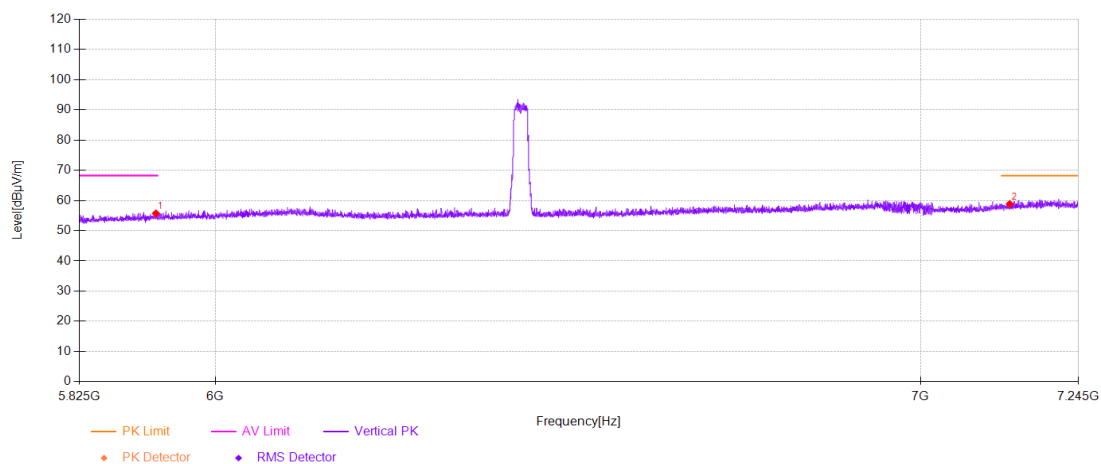


U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6415

Ant.Pol: V

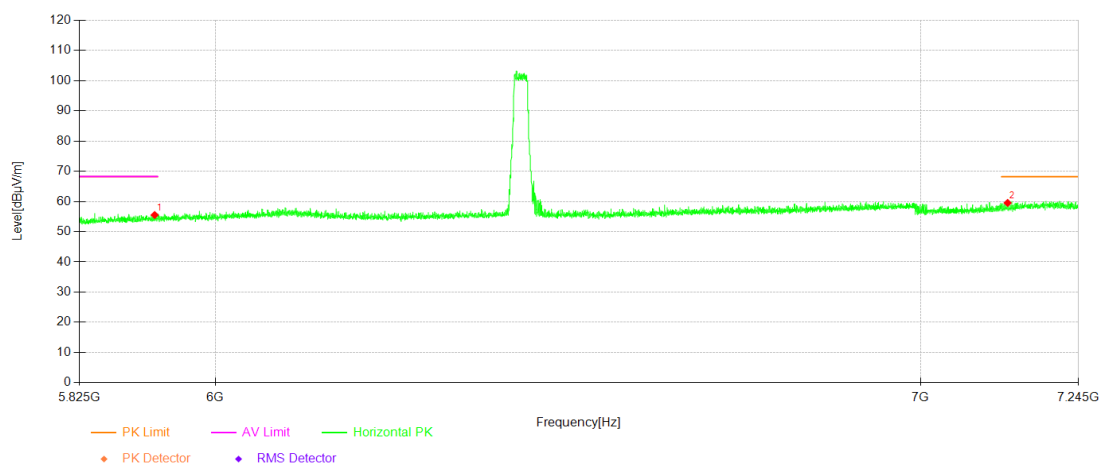


U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6415

Ant.Pol: H



● For U-NII 6

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6435

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5915.88	55.67	40.99	68.20	12.53	PK	Vertical
2	7132.82	58.84	44.31	68.20	9.36	PK	Vertical
1	5923.5125	55.69	41.02	68.20	12.51	PK	Horizontal
2	7139.565	59.52	44.42	68.20	8.68	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6515

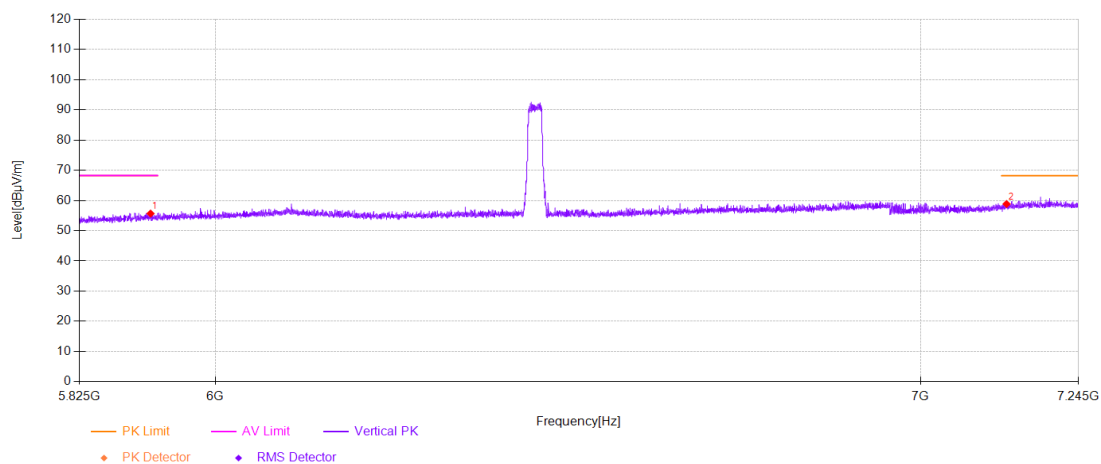
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5912.685	56.23	40.99	68.20	11.97	PK	Vertical
2	7131.755	58.83	44.28	68.20	9.37	PK	Vertical
1	5917.4775	55.98	41.00	68.20	12.22	PK	Horizontal
2	7130.8675	59.60	44.27	68.20	8.60	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6435

Ant.Pol: V

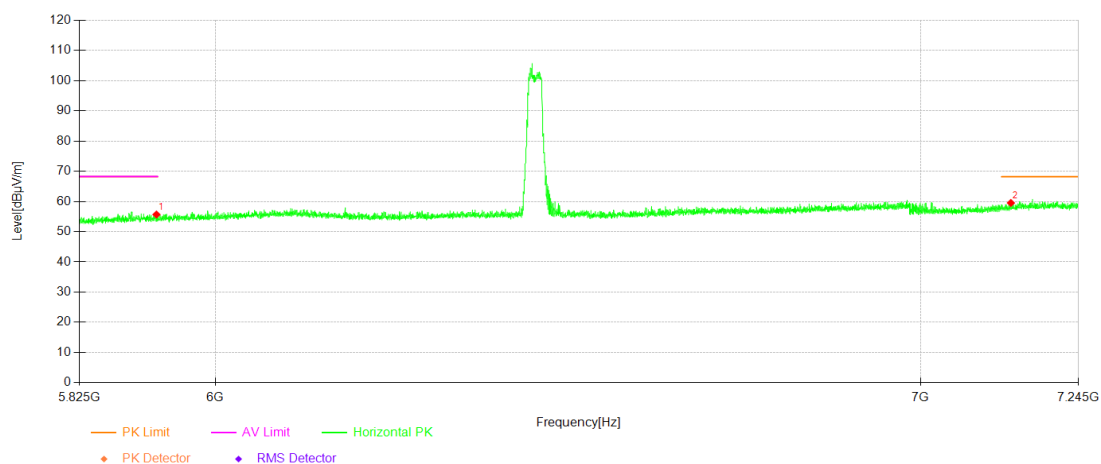


U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6435

Ant.Pol: H

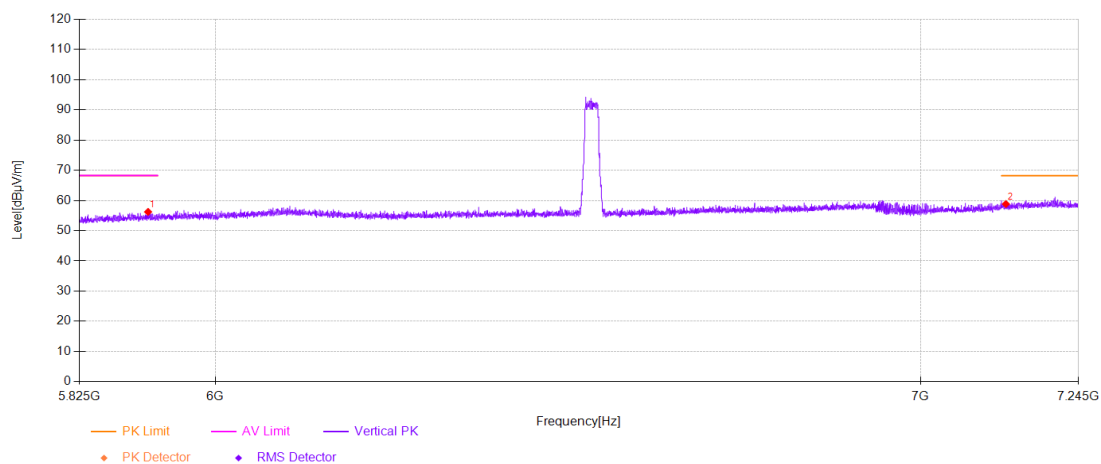


U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6515

Ant.Pol: V

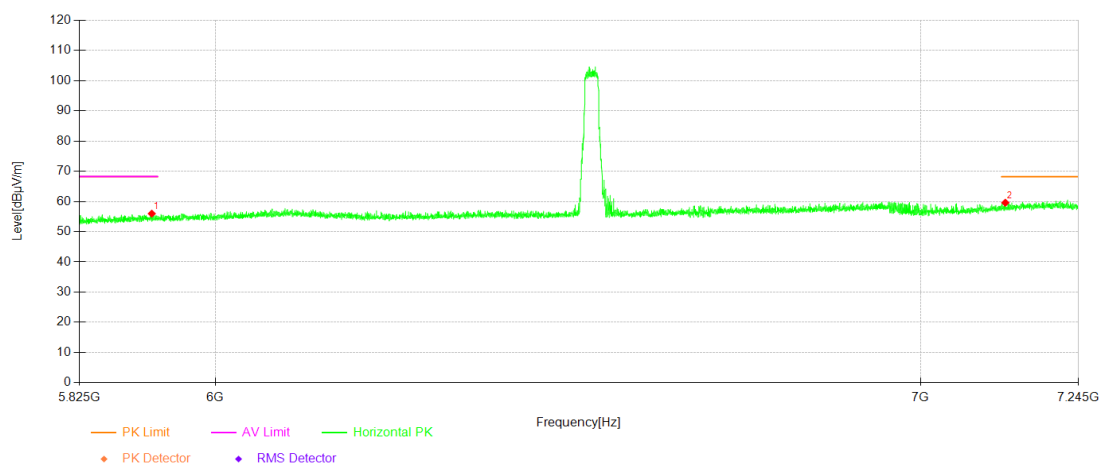


U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6515

Ant.Pol: H



● For U-NII 7

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6535

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5922.98	55.74	41.02	68.20	12.46	PK	Vertical
2	7141.34	59.86	44.45	68.20	8.34	PK	Vertical
1	5912.685	56.32	40.99	68.20	11.88	PK	Horizontal
2	7134.95	59.52	44.34	68.20	8.68	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6855

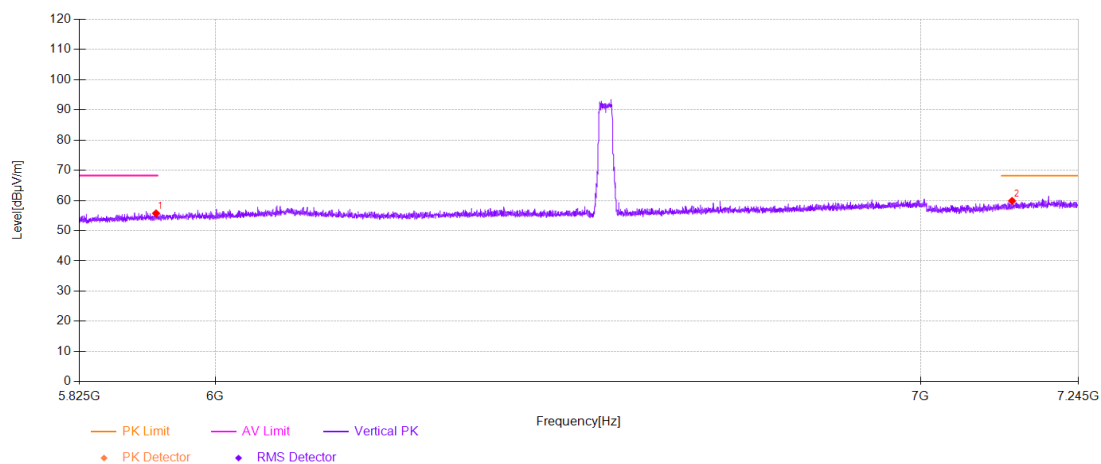
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5922.4475	56.17	41.01	68.20	12.03	PK	Vertical
2	7125.8975	60.15	44.19	68.20	8.05	PK	Vertical
1	5911.4425	55.36	40.98	68.20	12.84	PK	Horizontal
2	7139.7425	59.37	44.42	68.20	8.83	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6535

Ant.Pol: V

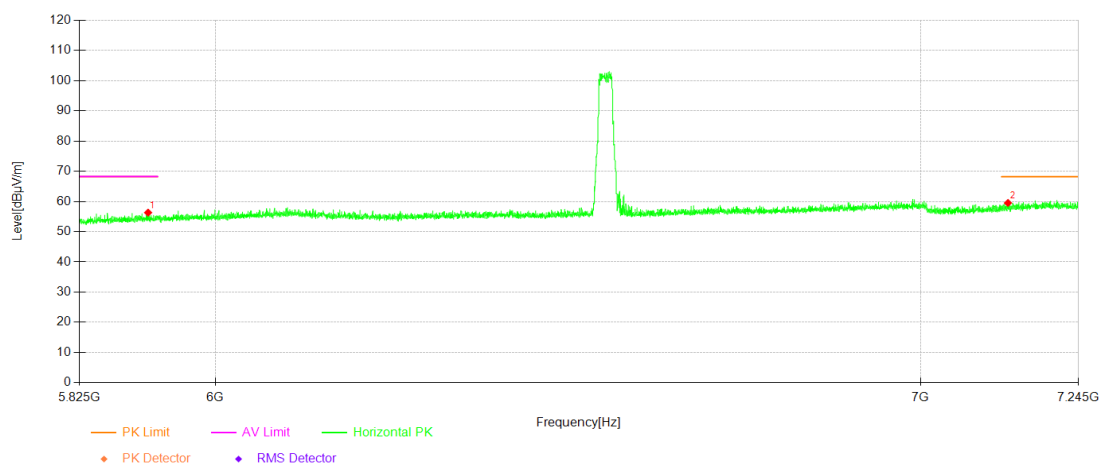


U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6535

Ant.Pol: H

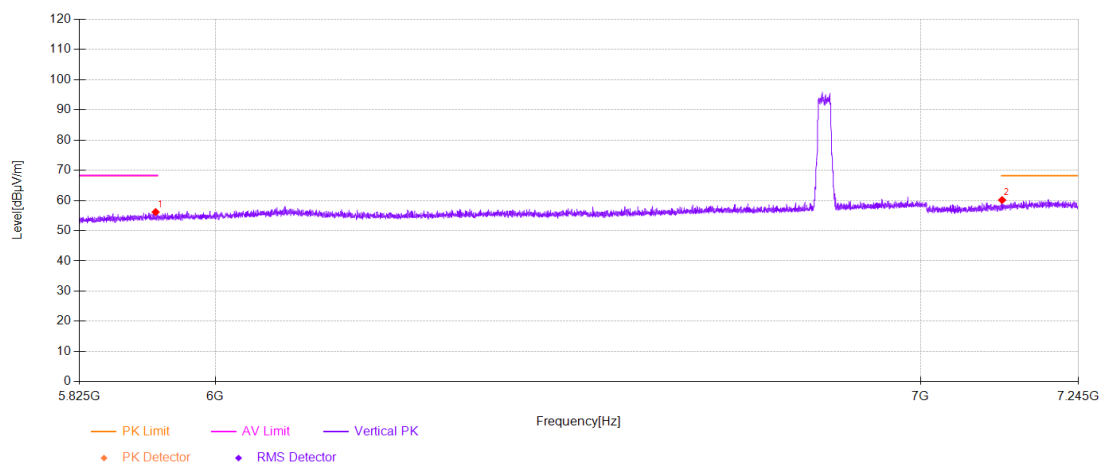


U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6855

Ant.Pol: V

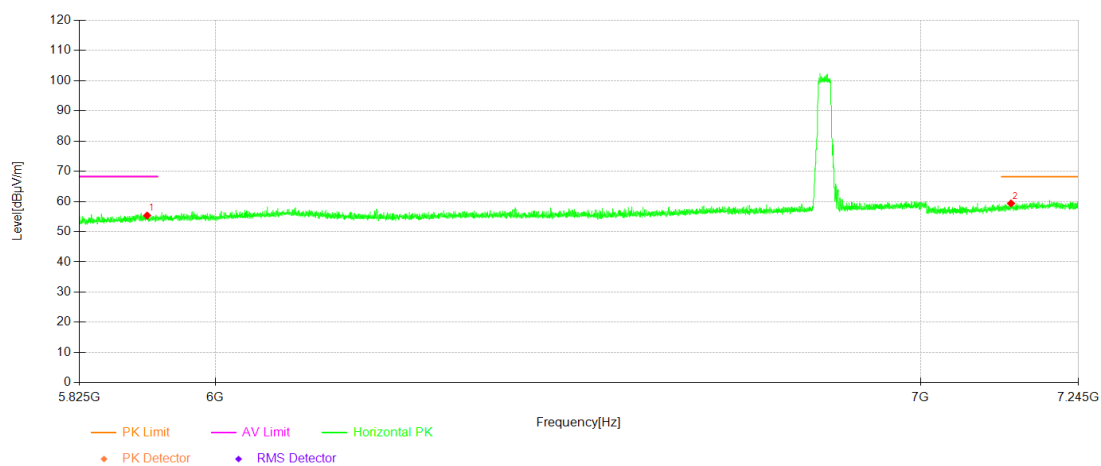


U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6855

Ant.Pol: H



● For U-NII 8

All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 6895

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5920.85	55.66	41.01	68.20	12.54	PK	Vertical
2	7143.29	59.08	44.49	68.20	9.12	PK	Vertical
1	5922.27	55.90	41.01	68.20	12.30	PK	Horizontal
2	7133.35	59.71	44.32	68.20	8.49	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11AX(20) **Frequency(MHz):** 7115

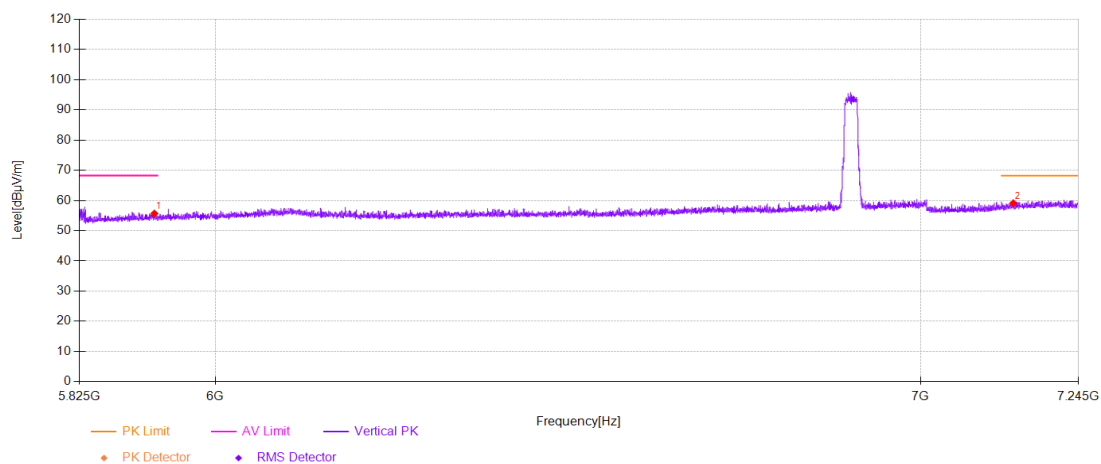
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5917.83	56.01	41.01	68.20	12.19	PK	Vertical
2	7144.53	59.41	44.50	68.20	8.79	PK	Vertical
1	5913.75	55.53	40.99	68.20	12.67	PK	Horizontal
2	7140.45	59.95	44.43	68.20	8.25	PK	Horizontal
Note: (1) Peak RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = Peak; (2) Avg RBW = 1 MHz, VBW ≥ 3 × RBW, Detector = RMS; (3) Corrected Reading = Reading Level + Correct Factor; (4) Correct Factor = Ant_F + Cab_L - Preamp; (5) Margin = Limit - Corrected Reading; (6) If the emissions less than the peak limit, it also complied with the -47dBm/MHz (88.2dBuV/m) limit. (7) If the emissions less than the average limit, it also complied with the -27dBm/MHz (68.2dBuV/m) limit.							

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6895

Ant.Pol: V

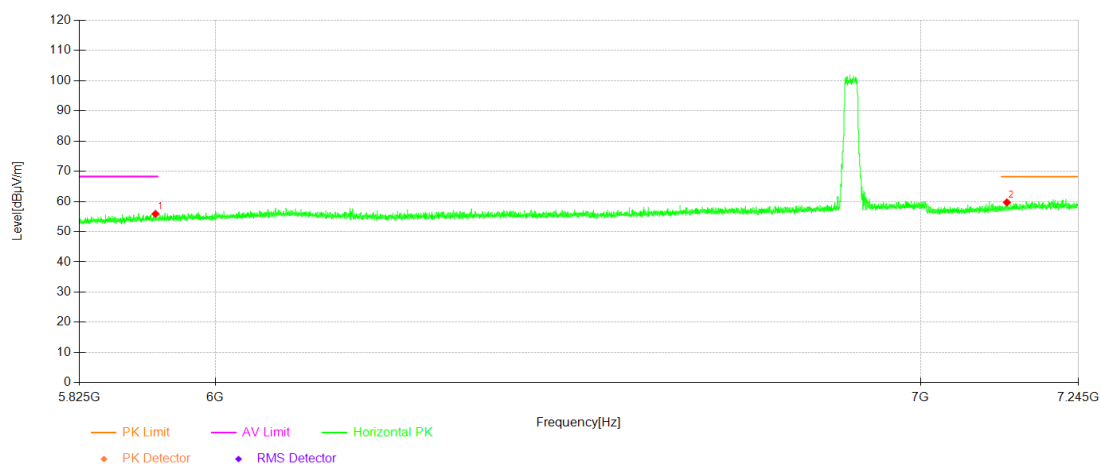


U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 6895

Ant.Pol: H

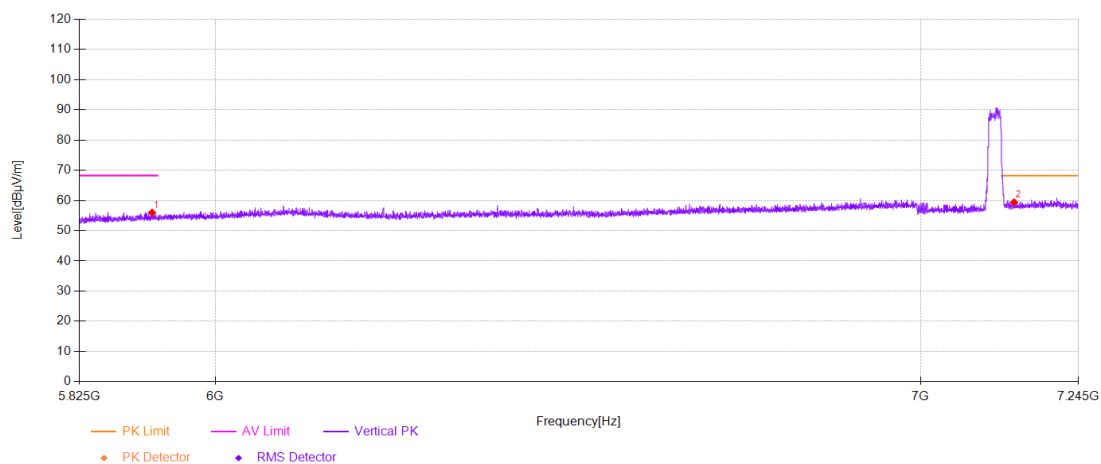


U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 7115

Ant.Pol: V

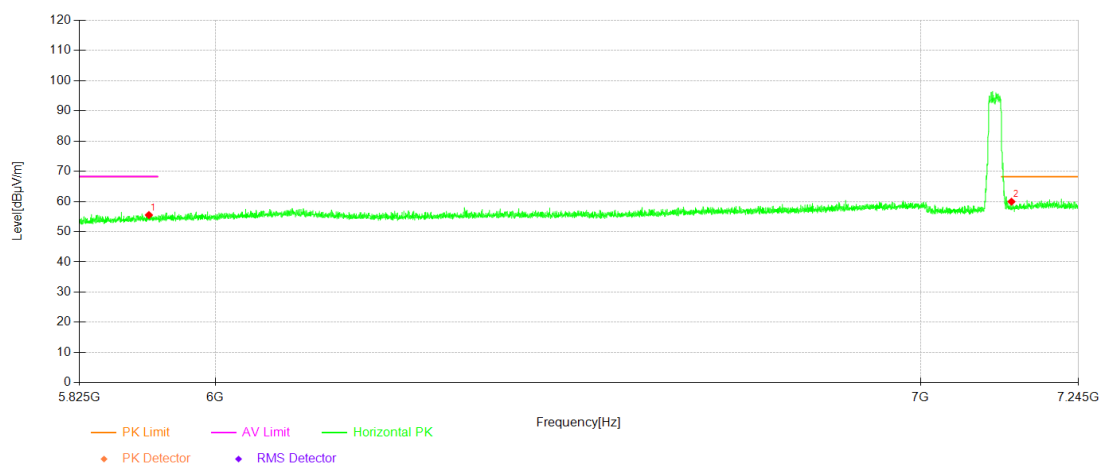


U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11AX(20)

Frequency(MHz): 7115

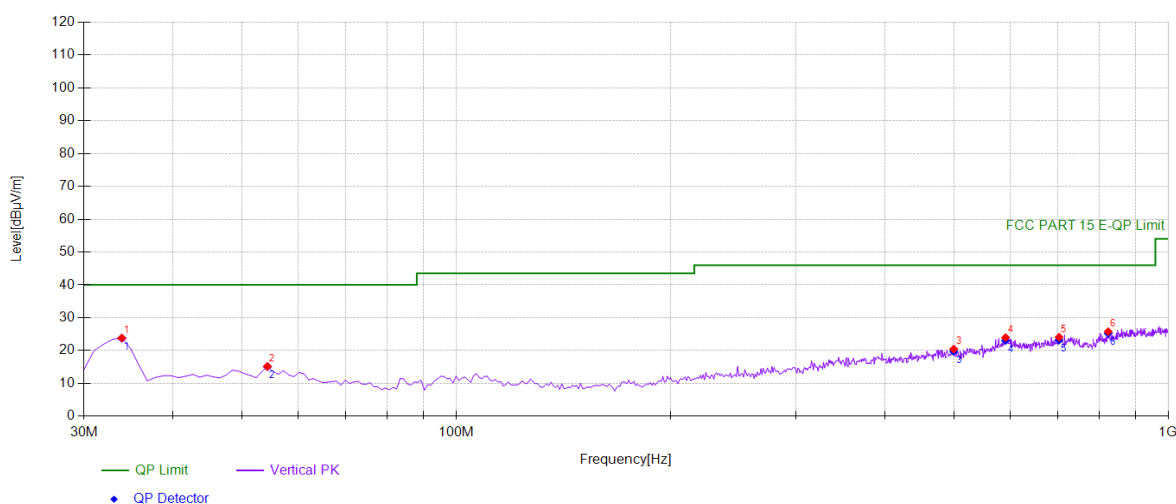
Ant.Pol: H



■ Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

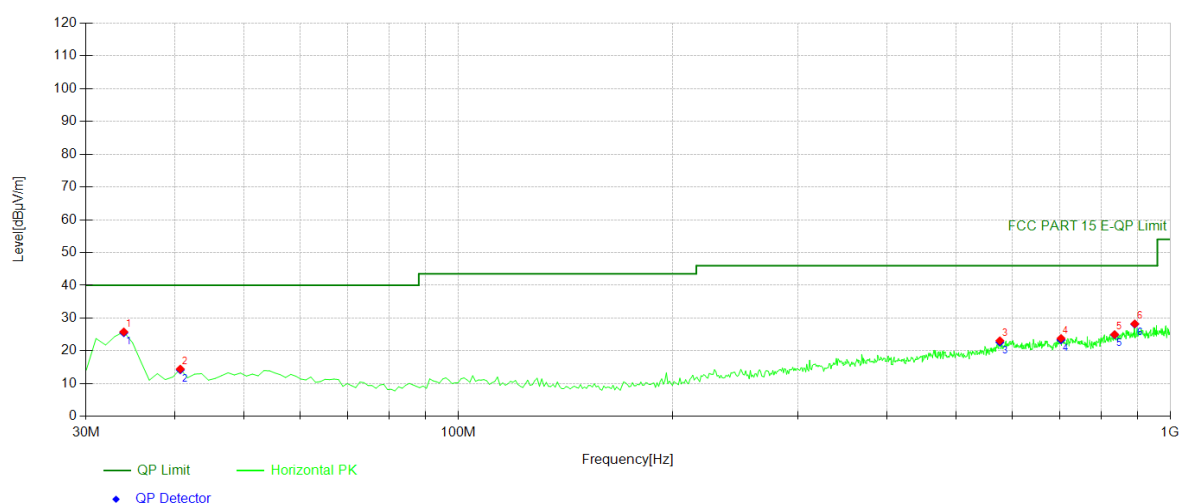
All antennas and modulation modes are tested, the data of the worst mode is described as below.

U-NII 5 Band (5925 ~ 6425MHz)		
Test mode:	802.11a(20)	Frequency(MHz): 5955



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	34.92	-11.09	23.83	PK	40.00	16.17	Vertical
2	54.2743	24.33	-9.15	15.18	PK	40.00	24.82	Vertical
3	499.95	23.53	-3.07	20.46	PK	46.00	25.54	Vertical
4	591.221	23.79	0.17	23.96	PK	46.00	22.04	Vertical
5	702.882	23.13	0.95	24.08	PK	46.00	21.92	Vertical
6	824.254	24.01	1.77	25.78	PK	46.00	20.22	Vertical

Final Data List					
NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	23.75	40.00	16.25
2	54.2743	-9.15	15.10	40.00	24.90
3	499.95	-3.07	19.74	46.00	26.26
4	591.2212	0.17	23.08	46.00	22.92
5	702.8829	0.95	23.20	46.00	22.80
6	824.2543	1.77	25.25	46.00	20.75



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	36.90	-11.09	25.81	PK	40.00	14.19	Horizontal
2	40.6807	24.55	-10.05	14.50	PK	40.00	25.50	Horizontal
3	576.656	23.62	-0.50	23.12	PK	46.00	22.88	Horizontal
4	702.882	22.88	0.95	23.83	PK	46.00	22.17	Horizontal
5	835.905	22.93	2.07	25.00	PK	46.00	21.00	Horizontal
6	892.222	25.16	3.10	28.26	PK	46.00	17.74	Horizontal

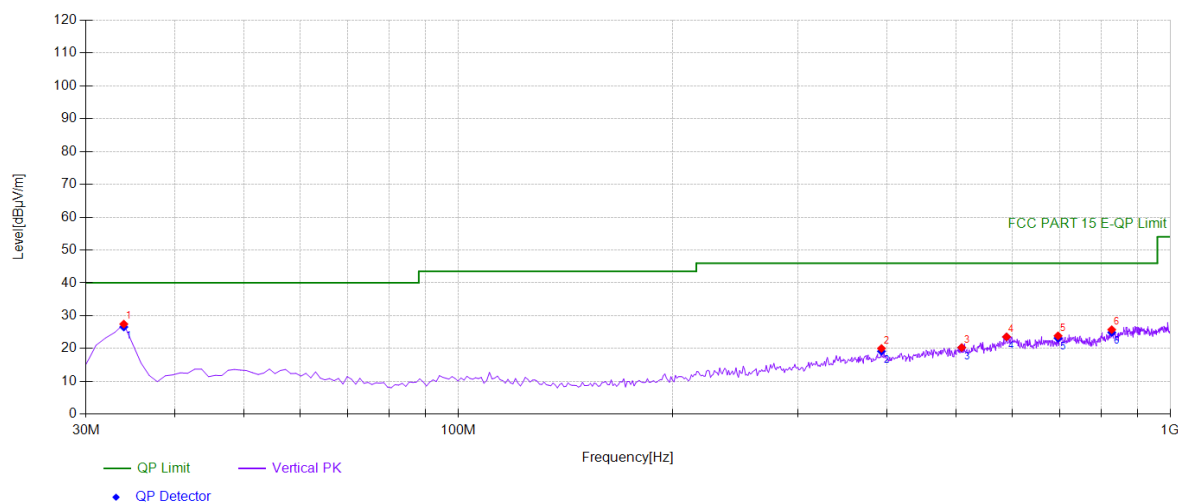
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	25.51	40.00	14.49
2	40.6807	-10.05	14.20	40.00	25.80
3	576.6567	-0.50	22.65	46.00	23.35
4	702.8829	0.95	23.36	46.00	22.64
5	835.9059	2.07	24.89	46.00	21.11
6	892.2222	3.10	28.15	46.00	17.85

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11a(20)

Frequency(MHz): 6175

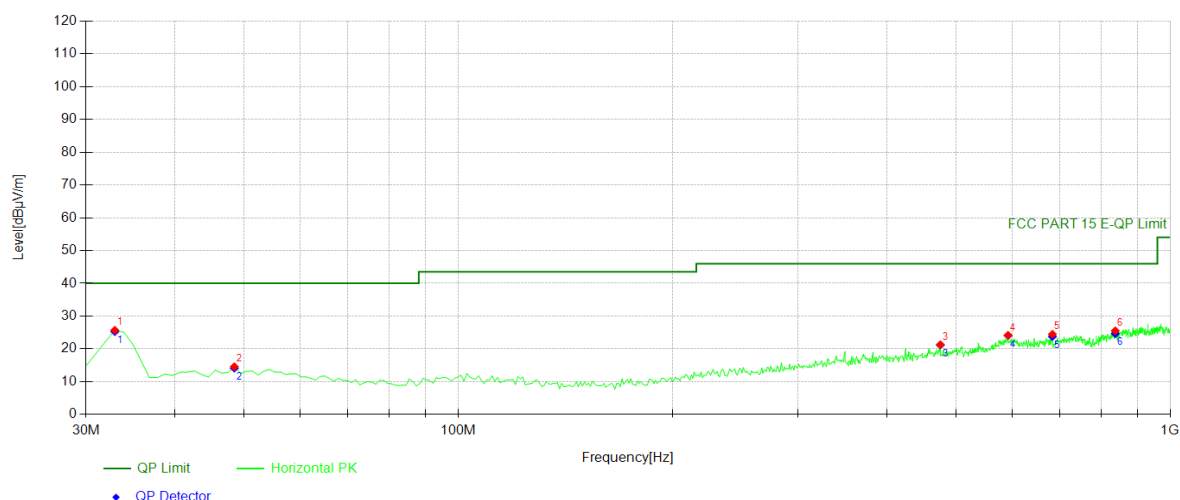


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	38.55	-11.09	27.46	PK	40.00	12.54	Vertical
2	393.143	24.22	-4.17	20.05	PK	46.00	25.95	Vertical
3	509.659	23.19	-2.88	20.31	PK	46.00	25.69	Vertical
4	589.279	23.50	0.08	23.58	PK	46.00	22.42	Vertical
5	696.086	23.15	0.73	23.88	PK	46.00	22.12	Vertical
6	828.138	23.89	1.88	25.77	PK	46.00	20.23	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	26.57	40.00	13.43
2	393.1431	-4.17	19.16	46.00	26.84
3	509.6597	-2.88	20.26	46.00	25.74
4	589.2793	0.08	23.53	46.00	22.47
5	696.0861	0.73	23.19	46.00	22.81
6	828.1381	1.88	24.91	46.00	21.09



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	36.95	-11.24	25.71	PK	40.00	14.29	Horizontal
2	48.4484	23.41	-8.84	14.57	PK	40.00	25.43	Horizontal
3	475.675	24.36	-3.08	21.28	PK	46.00	24.72	Horizontal
4	592.192	23.94	0.22	24.16	PK	46.00	21.84	Horizontal
5	683.463	24.24	0.25	24.49	PK	46.00	21.51	Horizontal
6	837.847	23.41	2.12	25.53	PK	46.00	20.47	Horizontal

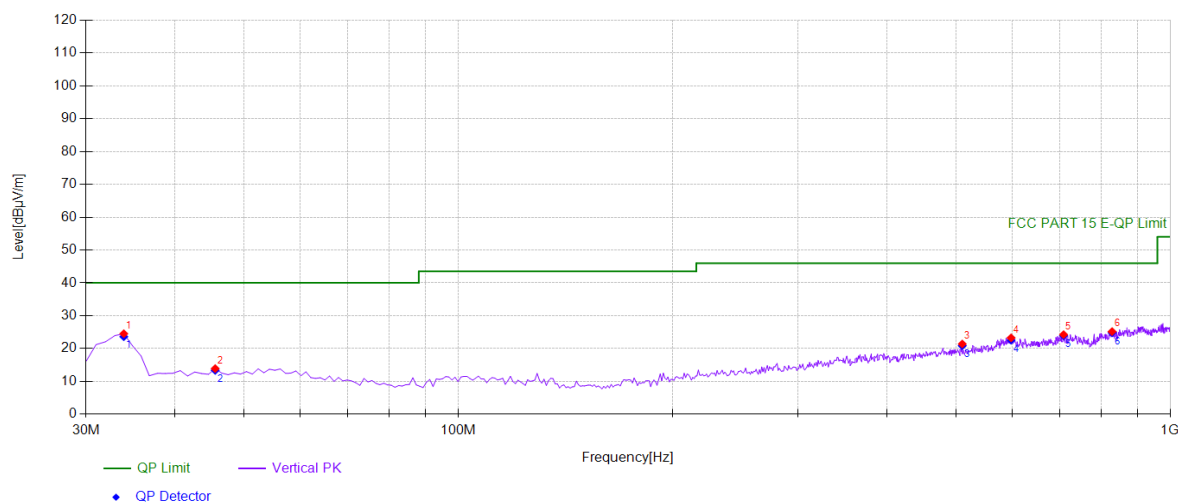
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	25.27	40.00	14.73
2	48.4484	-8.84	14.13	40.00	25.87
3	475.6757	-3.08	21.20	46.00	24.80
4	592.1922	0.22	24.08	46.00	21.92
5	683.4635	0.25	23.77	46.00	22.23
6	837.8478	2.12	24.64	46.00	21.36

U-NII 5 Band (5925 ~ 6425MHz)

Test mode: 802.11a(20)

Frequency(MHz): 6415

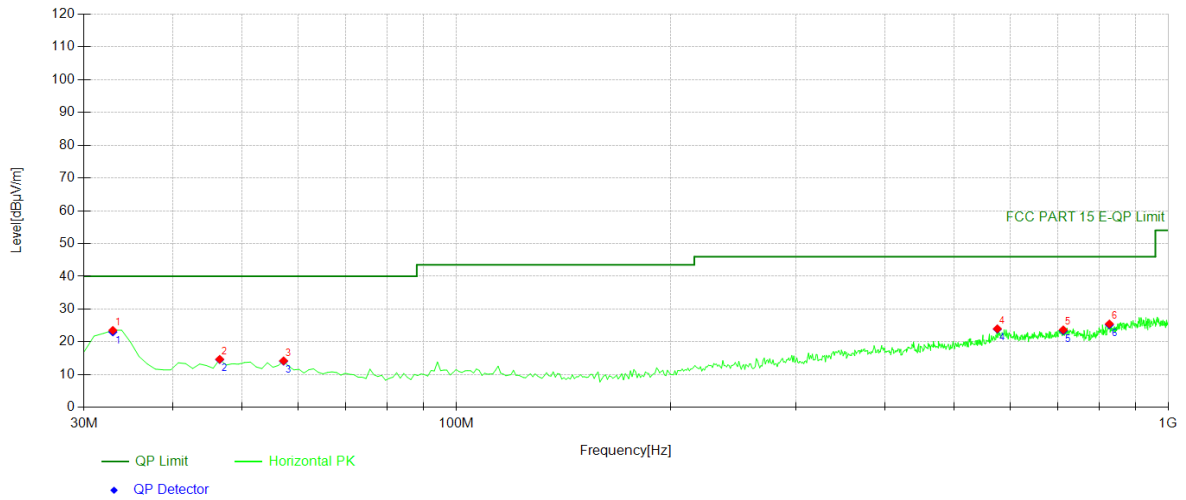


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	35.62	-11.09	24.53	PK	40.00	15.47	Vertical
2	45.5355	23.22	-9.30	13.92	PK	40.00	26.08	Vertical
3	510.630	24.28	-2.86	21.42	PK	46.00	24.58	Vertical
4	598.018	22.76	0.51	23.27	PK	46.00	22.73	Vertical
5	708.708	23.21	1.05	24.26	PK	46.00	21.74	Vertical
6	829.109	23.27	1.91	25.18	PK	46.00	20.82	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	23.62	40.00	16.38
2	45.5355	-9.30	13.36	40.00	26.64
3	510.6306	-2.86	20.86	46.00	25.14
4	598.018	0.51	22.55	46.00	23.45
5	708.7087	1.05	23.90	46.00	22.10
6	829.1091	1.91	24.82	46.00	21.18



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	32.9129	34.77	-11.24	23.53	PK	40.00	16.47	Horizontal
2	46.5065	23.87	-9.15	14.72	PK	40.00	25.28	Horizontal
3	57.1872	23.77	-9.53	14.24	PK	40.00	25.76	Horizontal
4	575.685	24.59	-0.57	24.02	PK	46.00	21.98	Horizontal
5	712.592	22.64	1.06	23.70	PK	46.00	22.30	Horizontal
6	827.167	23.66	1.85	25.51	PK	46.00	20.49	Horizontal

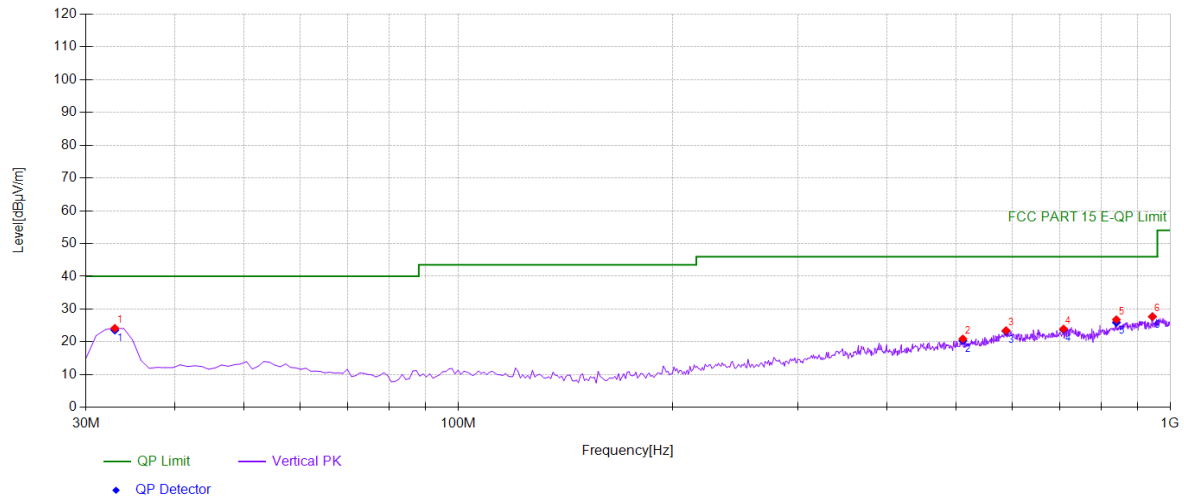
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]
1	32.9129	-11.24	23.03	40.00	16.97
2	46.5065	-9.15	14.58	40.00	25.42
3	57.1872	-9.53	14.10	40.00	25.90
4	575.6857	-0.57	23.88	46.00	22.12
5	712.5926	1.06	23.40	46.00	22.60
6	827.1672	1.85	25.21	46.00	20.79

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11a(20)

Frequency(MHz): 6435

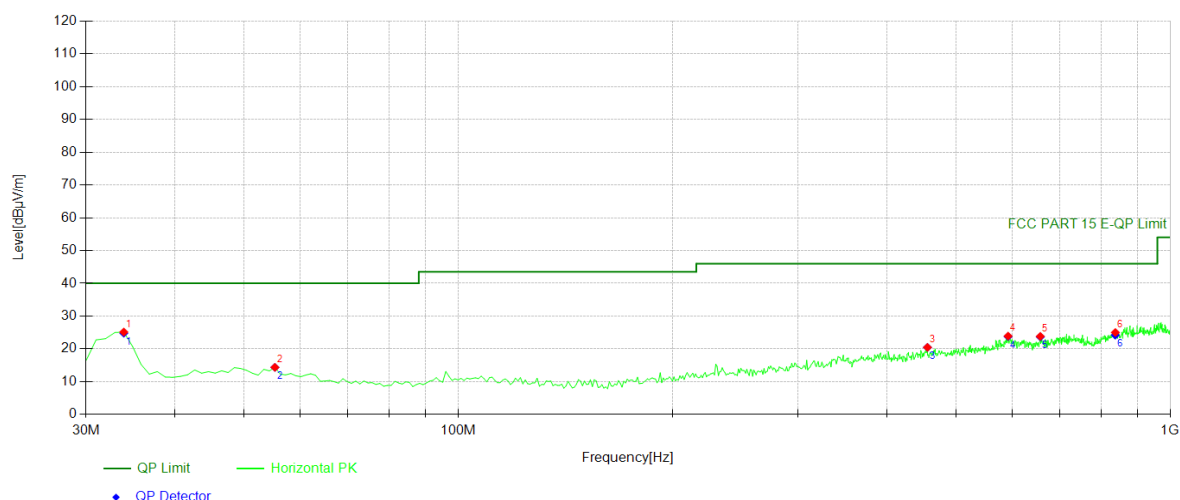


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	35.41	-11.24	24.17	PK	40.00	15.83	Vertical
2	511.601	23.76	-2.83	20.93	PK	46.00	25.07	Vertical
3	588.308	23.43	0.05	23.48	PK	46.00	22.52	Vertical
4	708.708	22.91	1.05	23.96	PK	46.00	22.04	Vertical
5	840.760	24.61	2.19	26.80	PK	46.00	19.20	Vertical
6	944.654	24.61	3.11	27.72	PK	46.00	18.28	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	23.59	40.00	16.41
2	511.6016	-2.83	20.35	46.00	25.65
3	588.3083	0.05	23.26	46.00	22.74
4	708.7087	1.05	23.74	46.00	22.26
5	840.7608	2.19	25.93	46.00	20.07
6	944.6547	3.11	27.69	46.00	18.31



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	36.24	-11.09	25.15	PK	40.00	14.85	Horizontal
2	55.2452	23.65	-9.28	14.37	PK	40.00	25.63	Horizontal
3	456.256	23.74	-3.27	20.47	PK	46.00	25.53	Horizontal
4	592.192	23.70	0.22	23.92	PK	46.00	22.08	Horizontal
5	657.247	23.81	0.02	23.83	PK	46.00	22.17	Horizontal
6	837.847	22.89	2.12	25.01	PK	46.00	20.99	Horizontal

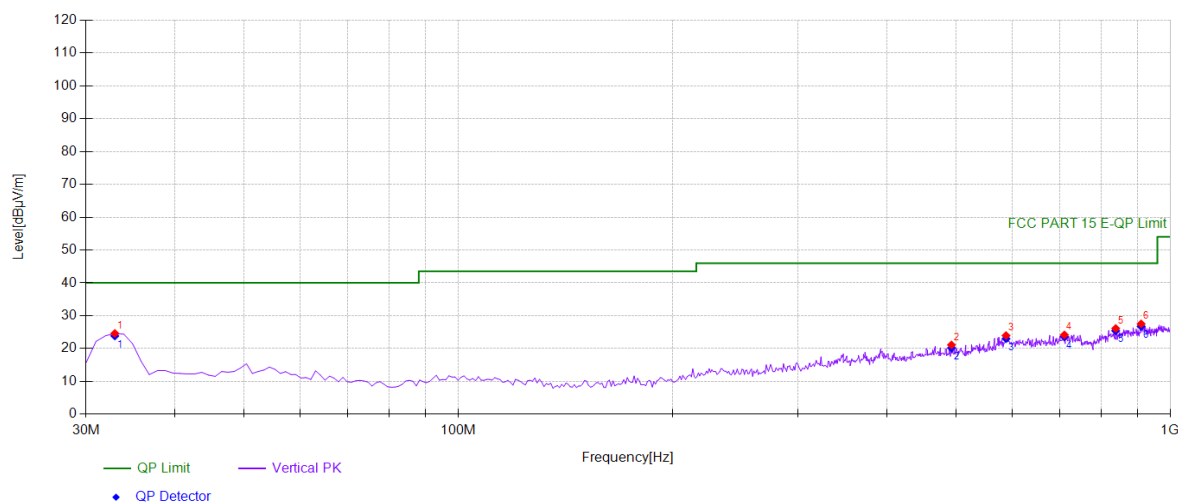
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	24.79	40.00	15.21
2	55.2452	-9.28	14.37	40.00	25.63
3	456.2563	-3.27	20.47	46.00	25.53
4	592.1922	0.22	23.75	46.00	22.25
5	657.2472	0.02	23.66	46.00	22.34
6	837.8478	2.12	24.20	46.00	21.80

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11a(20)

Frequency(MHz): 6475

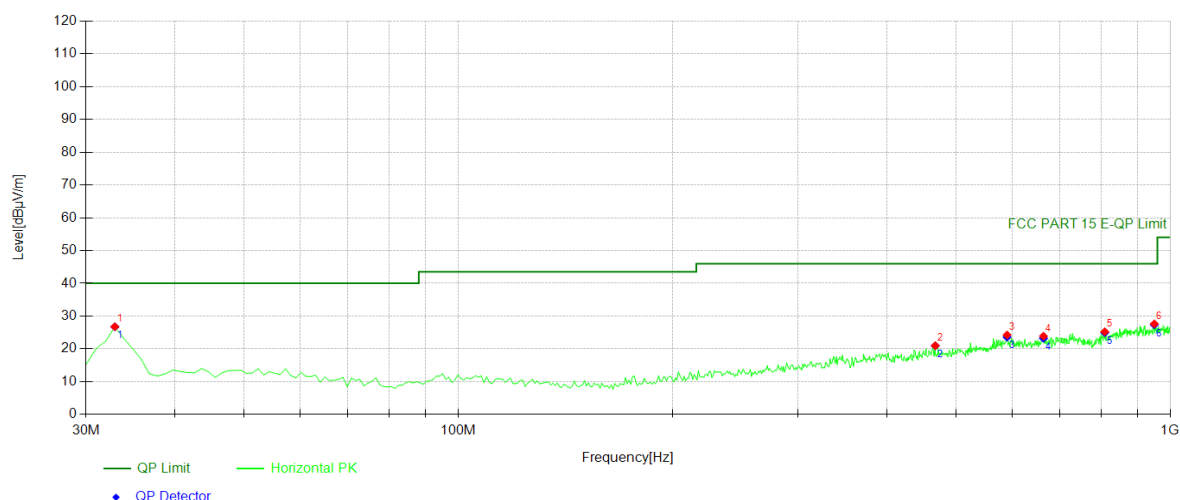


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	35.86	-11.24	24.62	PK	40.00	15.38	Vertical
2	493.153	24.16	-3.04	21.12	PK	46.00	24.88	Vertical
3	588.308	23.92	0.05	23.97	PK	46.00	22.03	Vertical
4	710.650	23.10	1.07	24.17	PK	46.00	21.83	Vertical
5	838.818	24.00	2.14	26.14	PK	46.00	19.86	Vertical
6	910.670	24.14	3.38	27.52	PK	46.00	18.48	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	23.84	40.00	16.16
2	493.1532	-3.04	20.17	46.00	25.83
3	588.3083	0.05	23.02	46.00	22.98
4	710.6507	1.07	23.58	46.00	22.42
5	838.8188	2.14	25.39	46.00	20.61
6	910.6707	3.38	26.77	46.00	19.23



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	38.01	-11.24	26.77	PK	40.00	13.23	Horizontal
2	467.907	24.11	-3.13	20.98	PK	46.00	25.02	Horizontal
3	590.250	24.14	0.12	24.26	PK	46.00	21.74	Horizontal
4	664.044	23.79	0.10	23.89	PK	46.00	22.11	Horizontal
5	809.689	23.63	1.61	25.24	PK	46.00	20.76	Horizontal
6	950.480	24.22	3.43	27.65	PK	46.00	18.35	Horizontal

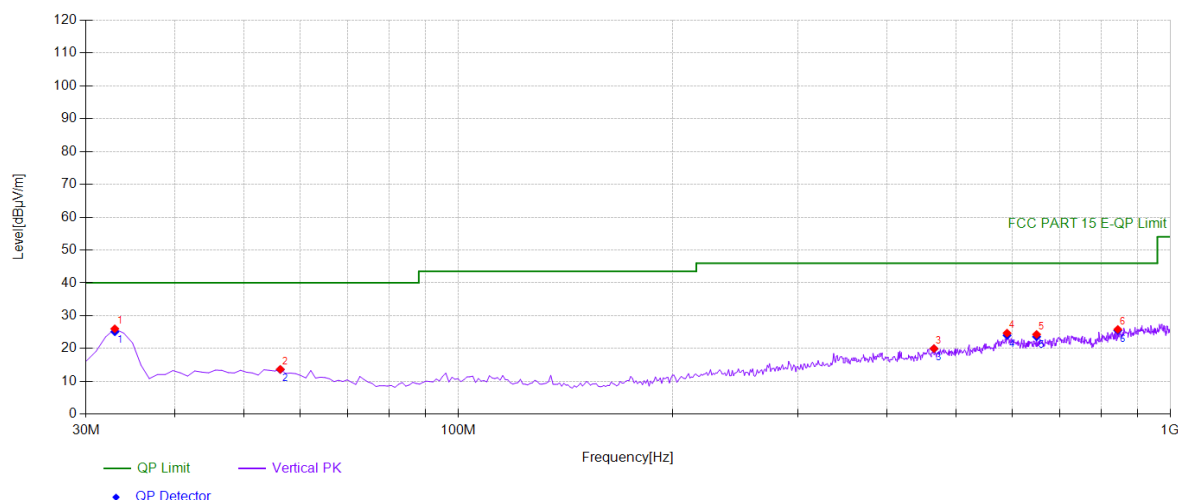
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	26.74	40.00	13.26
2	467.9079	-3.13	20.95	46.00	25.05
3	590.2503	0.12	23.59	46.00	22.41
4	664.044	0.10	23.22	46.00	22.78
5	809.6897	1.61	24.93	46.00	21.07
6	950.4805	3.43	27.34	46.00	18.66

U-NII 6 Band (6425 ~ 6525MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 6515

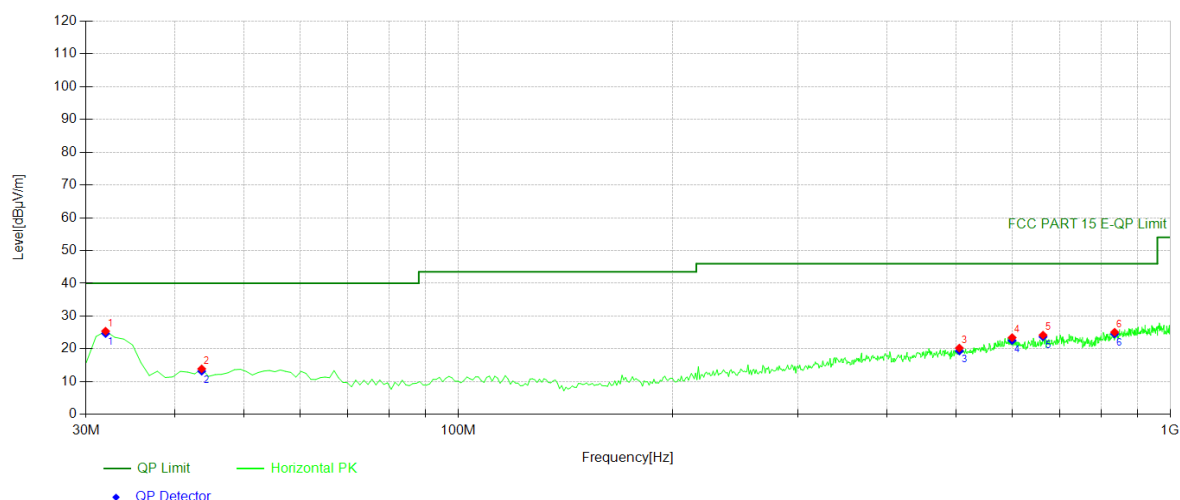


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	37.26	-11.24	26.02	PK	40.00	13.98	Vertical
2	56.2162	23.08	-9.40	13.68	PK	40.00	26.32	Vertical
3	465.966	23.15	-3.14	20.01	PK	46.00	25.99	Vertical
4	590.250	24.60	0.12	24.72	PK	46.00	21.28	Vertical
5	649.479	24.50	-0.19	24.31	PK	46.00	21.69	Vertical
6	844.644	23.50	2.35	25.85	PK	46.00	20.15	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	25.12	40.00	14.88
2	56.2162	-9.40	13.62	40.00	26.38
3	465.966	-3.14	19.95	46.00	26.05
4	590.2503	0.12	24.02	46.00	21.98
5	649.4795	-0.19	23.61	46.00	22.39
6	844.6446	2.35	25.51	46.00	20.49



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.9419	36.80	-11.39	25.41	PK	40.00	14.59	Horizontal
2	43.5936	23.53	-9.60	13.93	PK	40.00	26.07	Horizontal
3	505.775	23.21	-2.95	20.26	PK	46.00	25.74	Horizontal
4	599.96	22.83	0.61	23.44	PK	46.00	22.56	Horizontal
5	663.073	24.12	0.10	24.22	PK	46.00	21.78	Horizontal
6	835.905	23.02	2.07	25.09	PK	46.00	20.91	Horizontal

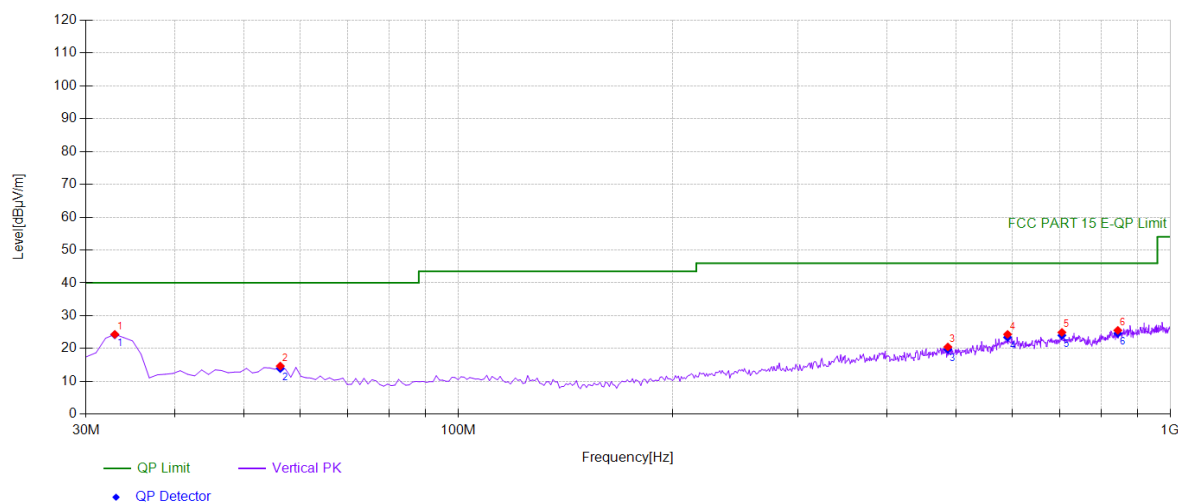
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	31.9419	-11.39	24.68	40.00	15.32
2	43.5936	-9.60	13.20	40.00	26.80
3	505.7758	-2.95	19.37	46.00	26.63
4	599.96	0.61	22.55	46.00	23.45
5	663.0731	0.10	23.68	46.00	22.32
6	835.9059	2.07	24.55	46.00	21.45

U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 6535

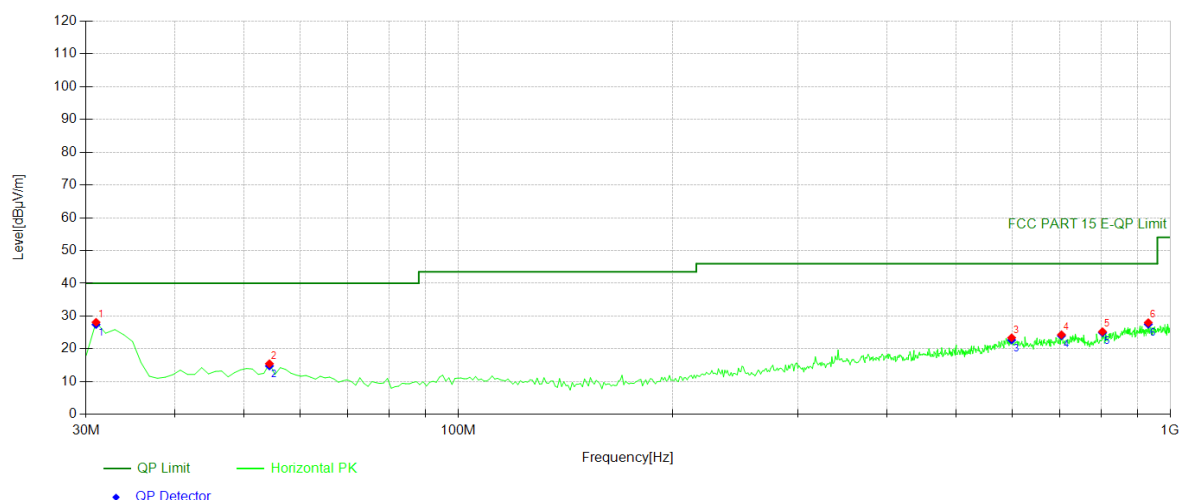


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	35.57	-11.24	24.33	PK	40.00	15.67	Vertical
2	56.2162	24.09	-9.40	14.69	PK	40.00	25.31	Vertical
3	487.327	23.53	-3.03	20.50	PK	46.00	25.50	Vertical
4	591.221	24.17	0.17	24.34	PK	46.00	21.66	Vertical
5	704.824	23.95	0.99	24.94	PK	46.00	21.06	Vertical
6	844.644	23.19	2.35	25.54	PK	46.00	20.46	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	24.21	40.00	15.79
2	56.2162	-9.40	13.93	40.00	26.07
3	487.3273	-3.03	19.74	46.00	26.26
4	591.2212	0.17	23.42	46.00	22.58
5	704.8248	0.99	24.02	46.00	21.98
6	844.6446	2.35	24.62	46.00	21.38



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	30.971	39.66	-11.53	28.13	PK	40.00	11.87	Horizontal
2	54.2743	24.64	-9.15	15.49	PK	40.00	24.51	Horizontal
3	598.989	22.84	0.56	23.40	PK	46.00	22.60	Horizontal
4	703.853	23.37	0.96	24.33	PK	46.00	21.67	Horizontal
5	803.863	23.75	1.51	25.26	PK	46.00	20.74	Horizontal
6	932.032	24.97	3.05	28.02	PK	46.00	17.98	Horizontal

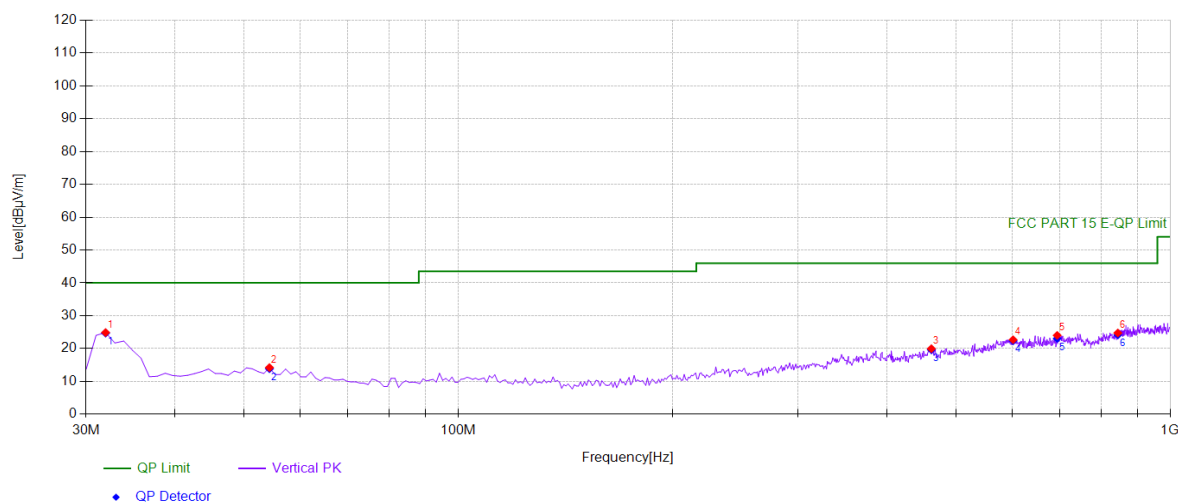
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	30.971	-11.53	27.43	40.00	12.57
2	54.2743	-9.15	14.79	40.00	25.21
3	598.989	0.56	22.70	46.00	23.30
4	703.8539	0.96	23.99	46.00	22.01
5	803.8639	1.51	24.92	46.00	21.08
6	932.032	3.05	27.51	46.00	18.49

U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 6695

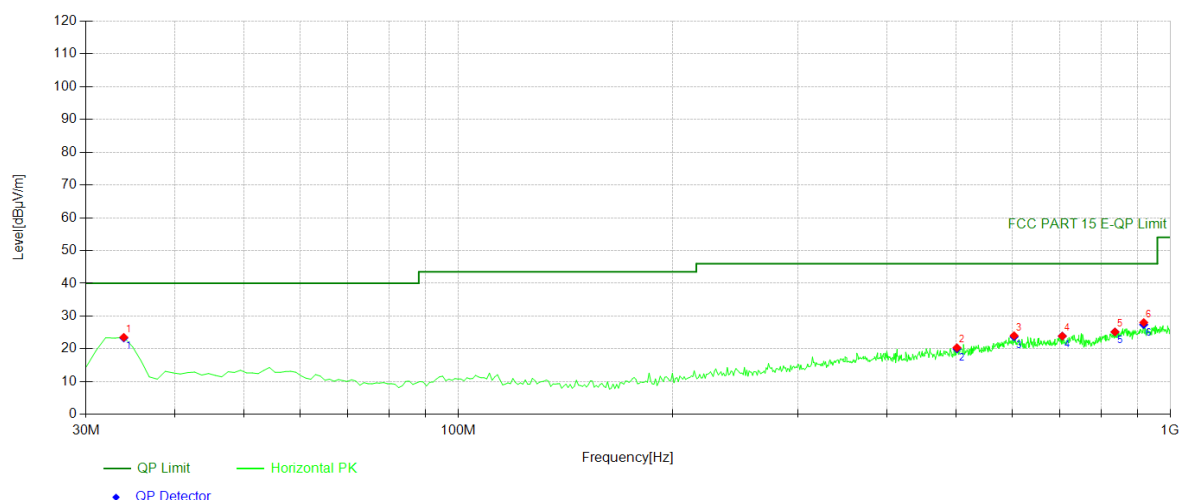


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.9419	36.28	-11.39	24.89	PK	40.00	15.11	Vertical
2	54.2743	23.37	-9.15	14.22	PK	40.00	25.78	Vertical
3	462.082	23.12	-3.15	19.97	PK	46.00	26.03	Vertical
4	601.901	22.20	0.49	22.69	PK	46.00	23.31	Vertical
5	694.144	23.38	0.65	24.03	PK	46.00	21.97	Vertical
6	844.644	22.41	2.35	24.76	PK	46.00	21.24	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	31.9419	-11.39	24.71	40.00	15.29
2	54.2743	-9.15	13.88	40.00	26.12
3	462.0821	-3.15	19.63	46.00	26.37
4	601.9019	0.49	22.35	46.00	23.65
5	694.1441	0.65	23.05	46.00	22.95
6	844.6446	2.35	24.14	46.00	21.86



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	34.64	-11.09	23.55	PK	40.00	16.45	Horizontal
2	501.891	23.41	-3.03	20.38	PK	46.00	25.62	Horizontal
3	603.843	23.68	0.37	24.05	PK	46.00	21.95	Horizontal
4	705.795	22.91	1.00	23.91	PK	46.00	22.09	Horizontal
5	836.876	23.09	2.09	25.18	PK	46.00	20.82	Horizontal
6	918.438	24.60	3.45	28.05	PK	46.00	17.95	Horizontal

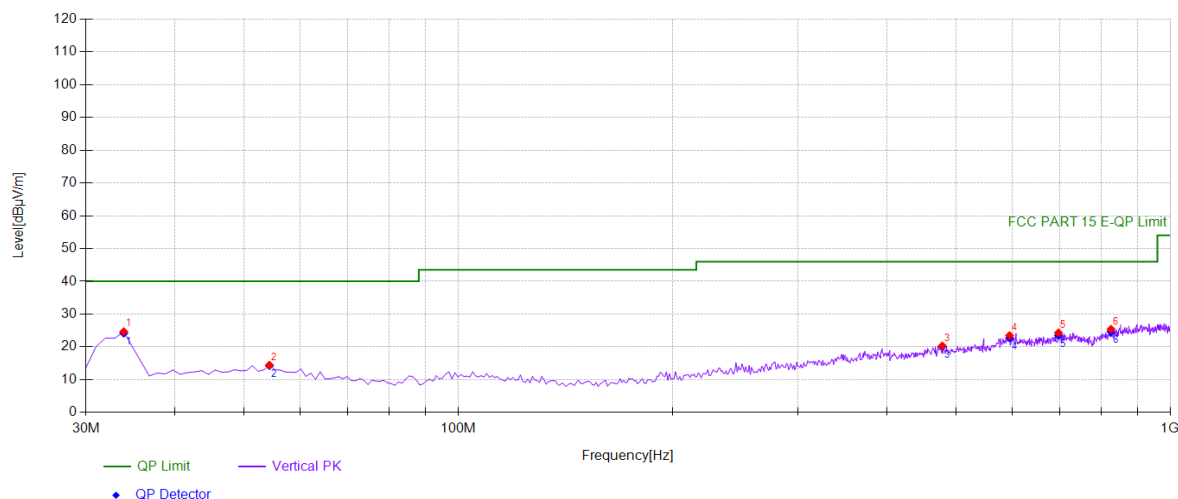
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	23.34	40.00	16.66
2	501.8919	-3.03	20.01	46.00	25.99
3	603.8438	0.37	23.68	46.00	22.32
4	705.7958	1.00	23.90	46.00	22.10
5	836.8769	2.09	25.17	46.00	20.83
6	918.4384	3.45	27.40	46.00	18.60

U-NII 7 Band (6525 ~ 6875MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 6855

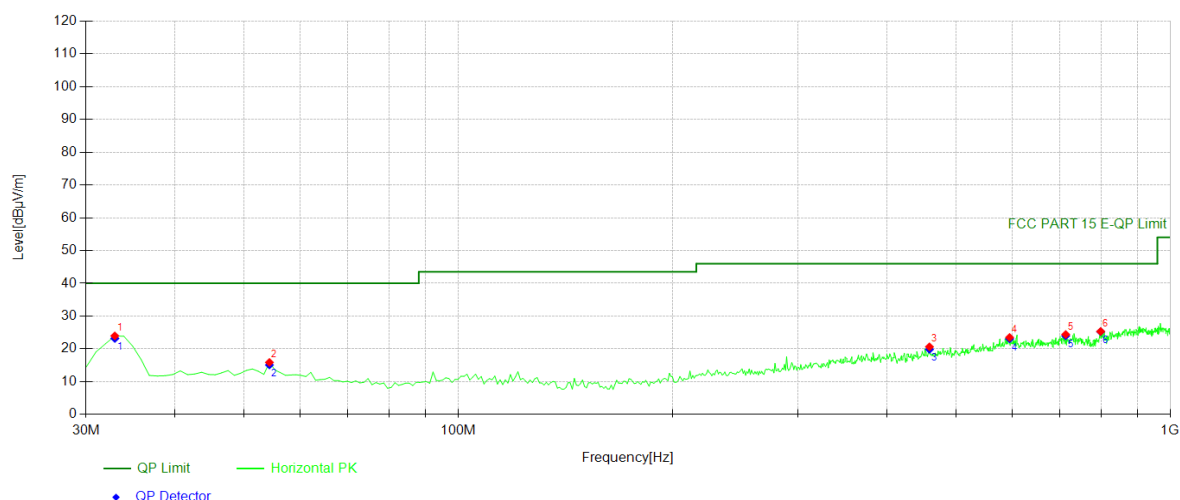


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	35.77	-11.09	24.68	PK	40.00	15.32	Vertical
2	54.2743	23.59	-9.15	14.44	PK	40.00	25.56	Vertical
3	478.588	23.38	-3.06	20.32	PK	46.00	25.68	Vertical
4	595.105	23.12	0.37	23.49	PK	46.00	22.51	Vertical
5	697.057	23.56	0.77	24.33	PK	46.00	21.67	Vertical
6	826.196	23.60	1.82	25.42	PK	46.00	20.58	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	24.17	40.00	15.83
2	54.2743	-9.15	14.29	40.00	25.71
3	478.5886	-3.06	20.17	46.00	25.83
4	595.1051	0.37	22.70	46.00	23.30
5	697.0571	0.77	23.54	46.00	22.46
6	826.1962	1.82	24.63	46.00	21.37



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	35.21	-11.24	23.97	PK	40.00	16.03	Horizontal
2	54.2743	25.03	-9.15	15.88	PK	40.00	24.12	Horizontal
3	459.169	23.82	-3.18	20.64	PK	46.00	25.36	Horizontal
4	595.105	23.14	0.37	23.51	PK	46.00	22.49	Horizontal
5	713.563	23.35	1.05	24.40	PK	46.00	21.60	Horizontal
6	799.009	23.97	1.35	25.32	PK	46.00	20.68	Horizontal

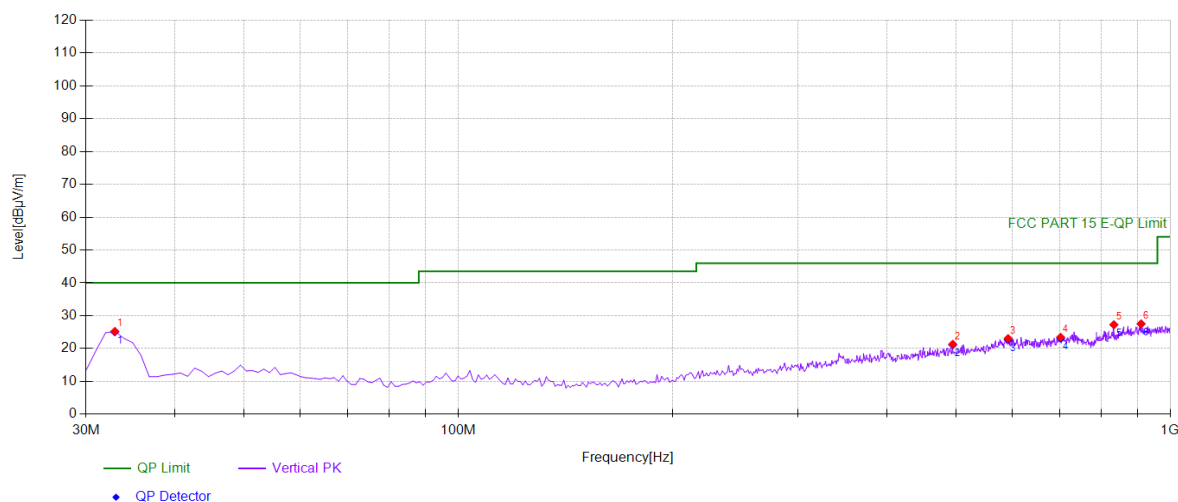
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	23.18	40.00	16.82
2	54.2743	-9.15	15.09	40.00	24.91
3	459.1692	-3.18	19.85	46.00	26.15
4	595.1051	0.37	23.08	46.00	22.92
5	713.5636	1.05	23.97	46.00	22.03
6	799.009	1.35	25.25	46.00	20.75

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 6895

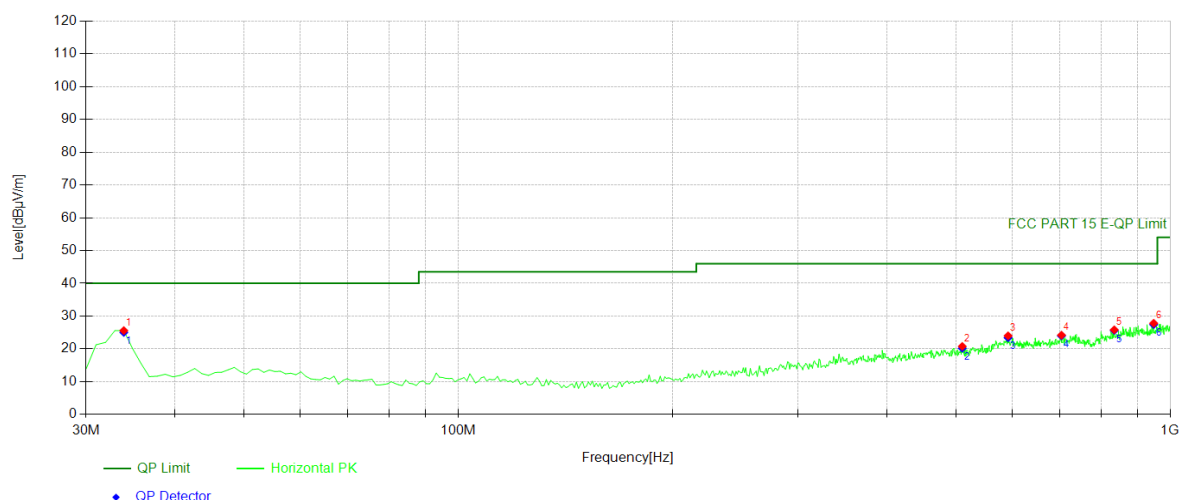


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	36.52	-11.24	25.28	PK	40.00	14.72	Vertical
2	495.095	24.42	-3.05	21.37	PK	46.00	24.63	Vertical
3	592.192	22.89	0.22	23.11	PK	46.00	22.89	Vertical
4	701.911	22.56	0.93	23.49	PK	46.00	22.51	Vertical
5	833.964	25.24	2.03	27.27	PK	46.00	18.73	Vertical
6	910.670	24.16	3.38	27.54	PK	46.00	18.46	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	32.9129	-11.24	25.07	40.00	14.93
2	495.0951	-3.05	21.16	46.00	24.84
3	592.1922	0.22	22.74	46.00	23.26
4	701.9119	0.93	23.12	46.00	22.88
5	833.964	2.03	27.26	46.00	18.74
6	910.6707	3.38	27.53	46.00	18.47



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	36.69	-11.09	25.60	PK	40.00	14.40	Horizontal
2	510.630	23.64	-2.86	20.78	PK	46.00	25.22	Horizontal
3	592.192	23.77	0.22	23.99	PK	46.00	22.01	Horizontal
4	703.853	23.24	0.96	24.20	PK	46.00	21.80	Horizontal
5	834.934	23.79	2.05	25.84	PK	46.00	20.16	Horizontal
6	948.538	24.49	3.33	27.82	PK	46.00	18.18	Horizontal

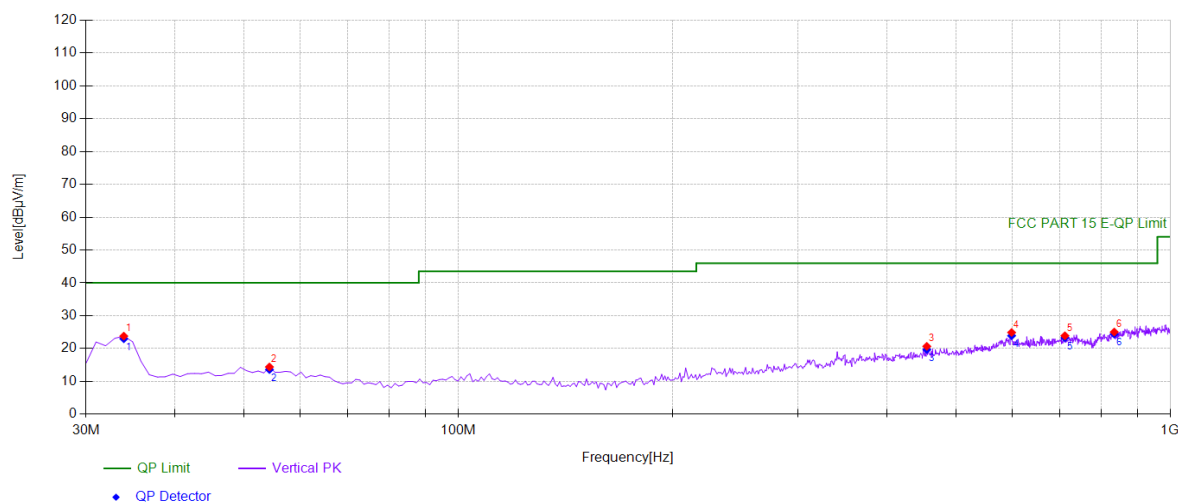
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	25.00	40.00	15.00
2	510.6306	-2.86	20.18	46.00	25.82
3	592.1922	0.22	23.39	46.00	22.61
4	703.8539	0.96	23.96	46.00	22.04
5	834.9349	2.05	25.60	46.00	20.40
6	948.5385	3.33	27.42	46.00	18.58

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 6995

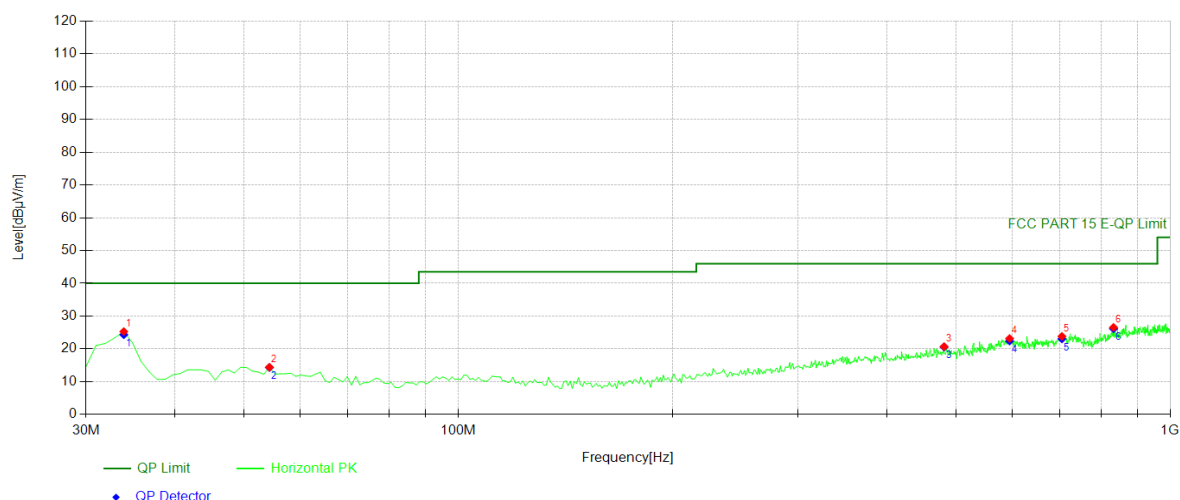


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	34.90	-11.09	23.81	PK	40.00	16.19	Vertical
2	54.2743	23.57	-9.15	14.42	PK	40.00	25.58	Vertical
3	455.285	23.99	-3.30	20.69	PK	46.00	25.31	Vertical
4	598.989	24.34	0.56	24.90	PK	46.00	21.10	Vertical
5	711.621	22.84	1.06	23.90	PK	46.00	22.10	Vertical
6	834.934	23.00	2.05	25.05	PK	46.00	20.95	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	22.99	40.00	17.01
2	54.2743	-9.15	13.60	40.00	26.40
3	455.2853	-3.30	19.70	46.00	26.30
4	598.989	0.56	23.91	46.00	22.09
5	711.6216	1.06	23.27	46.00	22.73
6	834.9349	2.05	24.42	46.00	21.58



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	36.38	-11.09	25.29	PK	40.00	14.71	Horizontal
2	54.2743	23.57	-9.15	14.42	PK	40.00	25.58	Horizontal
3	481.501	23.75	-3.05	20.70	PK	46.00	25.30	Horizontal
4	595.105	22.80	0.37	23.17	PK	46.00	22.83	Horizontal
5	704.824	22.83	0.99	23.82	PK	46.00	22.18	Horizontal
6	832.993	24.55	2.01	26.56	PK	46.00	19.44	Horizontal

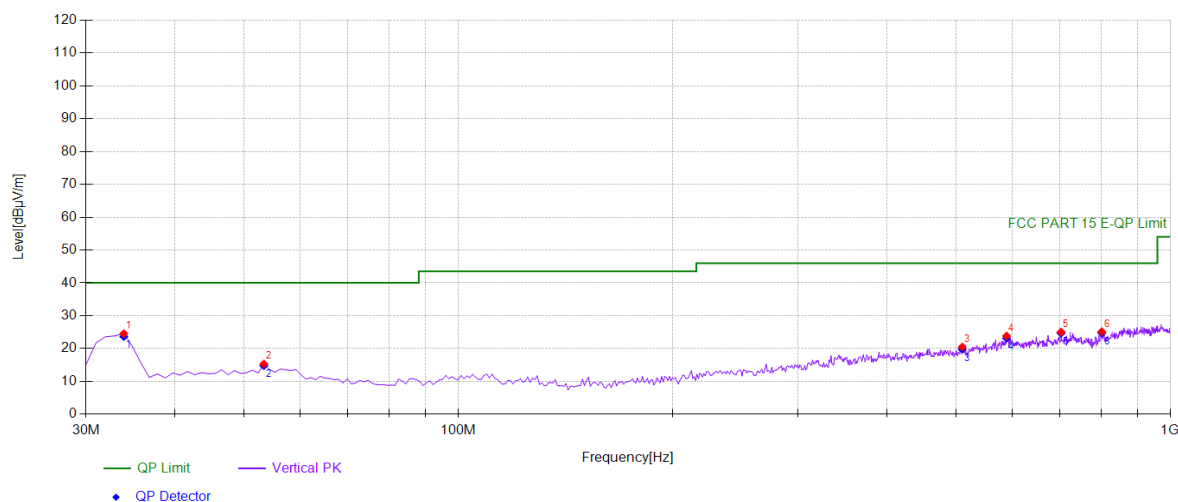
Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	24.33	40.00	15.67
2	54.2743	-9.15	14.30	40.00	25.70
3	481.5015	-3.05	20.58	46.00	25.42
4	595.1051	0.37	22.40	46.00	23.60
5	704.8248	0.99	23.05	46.00	22.95
6	832.993	2.01	26.15	46.00	19.85

U-NII 8 Band (6875 ~ 7125MHz)

Test mode: 802.11ax(20)

Frequency(MHz): 7115

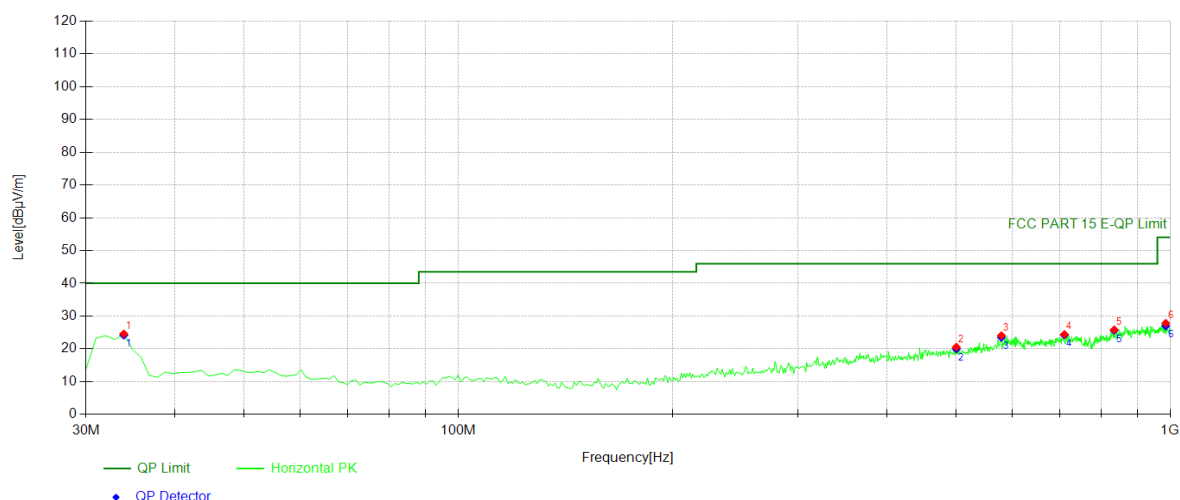


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	35.64	-11.09	24.55	PK	40.00	15.45	Vertical
2	53.3033	24.35	-9.03	15.32	PK	40.00	24.68	Vertical
3	510.630	23.35	-2.86	20.49	PK	46.00	25.51	Vertical
4	589.279	23.76	0.08	23.84	PK	46.00	22.16	Vertical
5	702.882	24.09	0.95	25.04	PK	46.00	20.96	Vertical
6	801.921	23.68	1.47	25.15	PK	46.00	20.85	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	23.65	40.00	16.35
2	53.3033	-9.03	14.78	40.00	25.22
3	510.6306	-2.86	19.78	46.00	26.22
4	589.2793	0.08	23.13	46.00	22.87
5	702.8829	0.95	24.69	46.00	21.31
6	801.9219	1.47	24.80	46.00	21.20



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	35.69	-11.09	24.60	PK	40.00	15.40	Horizontal
2	500.920	23.61	-3.05	20.56	PK	46.00	25.44	Horizontal
3	579.569	24.40	-0.32	24.08	PK	46.00	21.92	Horizontal
4	710.650	23.36	1.07	24.43	PK	46.00	21.57	Horizontal
5	834.934	23.79	2.05	25.84	PK	46.00	20.16	Horizontal
6	986.406	23.99	3.84	27.83	PK	54.00	26.17	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	33.8839	-11.09	24.17	40.00	15.83
2	500.9209	-3.05	19.97	46.00	26.03
3	579.5696	-0.32	23.49	46.00	22.51
4	710.6507	1.07	24.19	46.00	21.81
5	834.9349	2.05	25.60	46.00	20.40
6	986.4064	3.84	26.95	54.00	27.05

All antennas and modulation modes are tested, the data of the worst mode is described in the table.

8.7 POWER LINE CONDUCTED EMISSIONS

8.7.1 Applicable Standard

According to FCC Part 15.207(a)

According to IC RSS-Gen 8.8

8.7.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.7.3 Test Configuration

Test according to clause 7.3 conducted emission test setup.

8.7.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

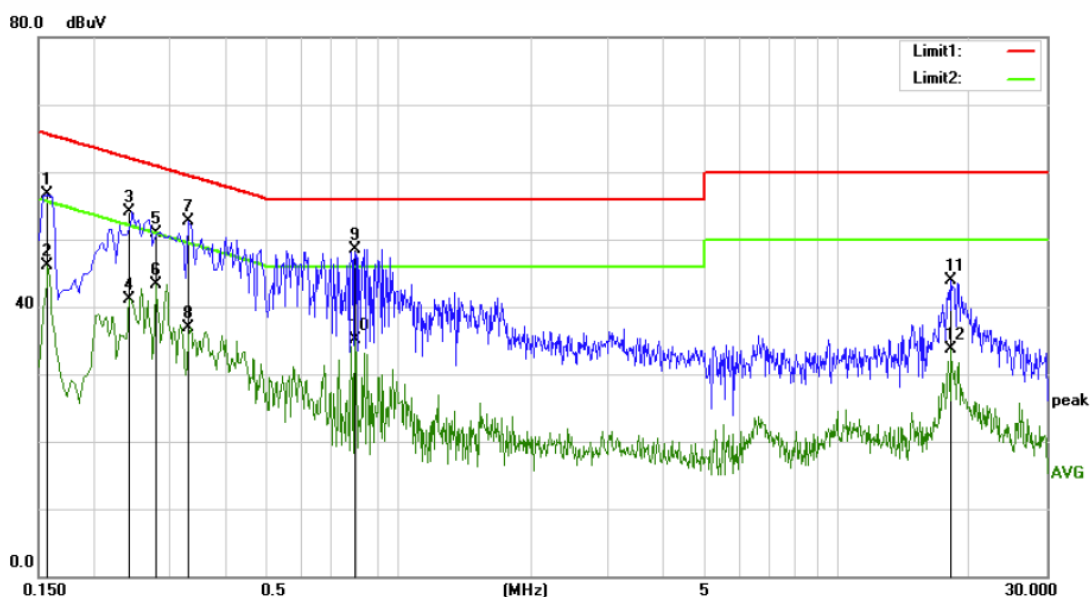
Repeat above procedures until all frequency measured were complete.

8.7.5 Test Results

PASS

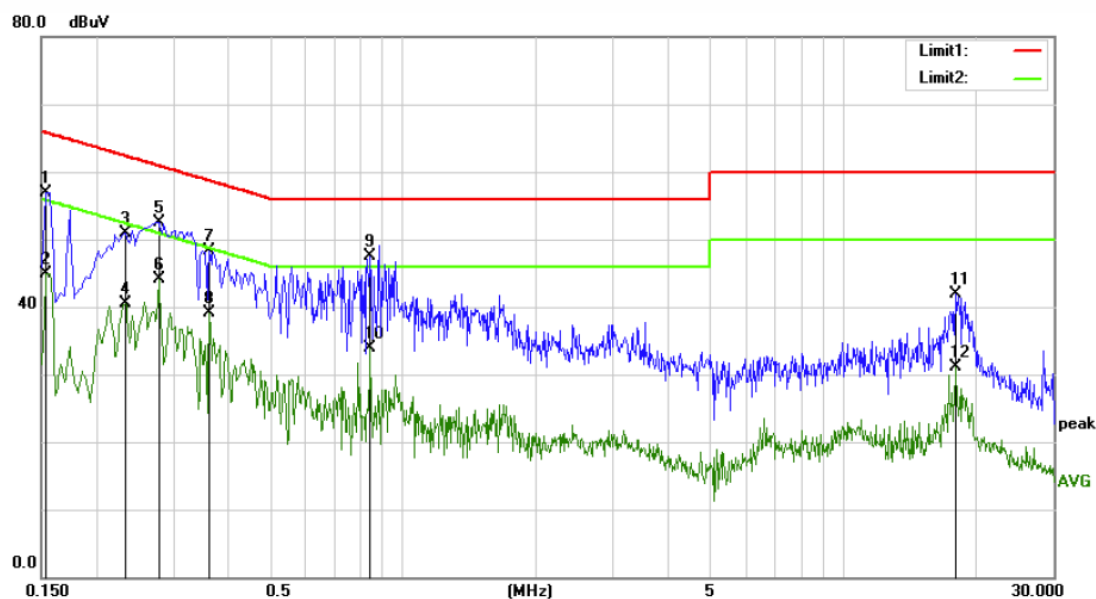
Temperature :	25.1°C	ATM Pressure:	1011 mbar
Humidity :	45%	Test Engineer:	CSL

The AC120V &240V voltage have been tested, and the worst result of AC120V was report as below.



Site Conduction #1 Phase: **L1** Temperature: 23.8
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	37.21	19.41	56.62	65.57	-8.95	QP	
2		0.1580	26.66	19.41	46.07	55.57	-9.50	AVG	
3		0.2420	34.90	19.24	54.14	62.03	-7.89	QP	
4		0.2420	21.89	19.24	41.13	52.03	-10.90	AVG	
5		0.2780	31.72	19.17	50.89	60.88	-9.99	QP	
6		0.2780	24.07	19.17	43.24	50.88	-7.64	AVG	
7	*	0.3300	33.66	19.10	52.76	59.45	-6.69	QP	
8		0.3300	17.79	19.10	36.89	49.45	-12.56	AVG	
9		0.7940	29.61	18.93	48.54	56.00	-7.46	QP	
10		0.7940	16.25	18.93	35.18	46.00	-10.82	AVG	
11		18.2180	24.62	19.22	43.84	60.00	-16.16	QP	
12		18.2180	14.42	19.22	33.64	50.00	-16.36	AVG	



Site Conduction #1 Phase: **N** Temperature: 23.8
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 54 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	37.48	19.42	56.90	65.78	-8.88	QP	
2		0.1540	25.56	19.42	44.98	55.78	-10.80	AVG	
3		0.2340	31.59	19.26	50.85	62.31	-11.46	QP	
4		0.2340	21.15	19.26	40.41	52.31	-11.90	AVG	
5		0.2780	33.42	19.17	52.59	60.88	-8.29	QP	
6	*	0.2780	24.97	19.17	44.14	50.88	-6.74	AVG	
7		0.3620	29.27	19.08	48.35	58.68	-10.33	QP	
8		0.3620	19.94	19.08	39.02	48.68	-9.66	AVG	
9		0.8420	28.68	18.92	47.60	56.00	-8.40	QP	
10		0.8420	15.04	18.92	33.96	46.00	-12.04	AVG	
11		18.0300	22.69	19.22	41.91	60.00	-18.09	QP	
12		18.0300	11.97	19.22	31.19	50.00	-18.81	AVG	

8.8 ANTENNA REQUIREMENT

8.8.1 Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

8.8.2 Result

PASS

Temperature :	25°C	ATM Pressure:	1011 mbar
Humidity :	45 %	Test Engineer:	XXH

The EUT is FPC Antenna, antenna gain is Ant1: 3.01dBi,.

- ☒ Antenna use a permanently attached antenna which is not replaceable.
- ☐ Not using a standard antenna jack or electrical connector for antenna replacement
- ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached document Internal Photos to show the antenna connector.

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

--- End of Report ---

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