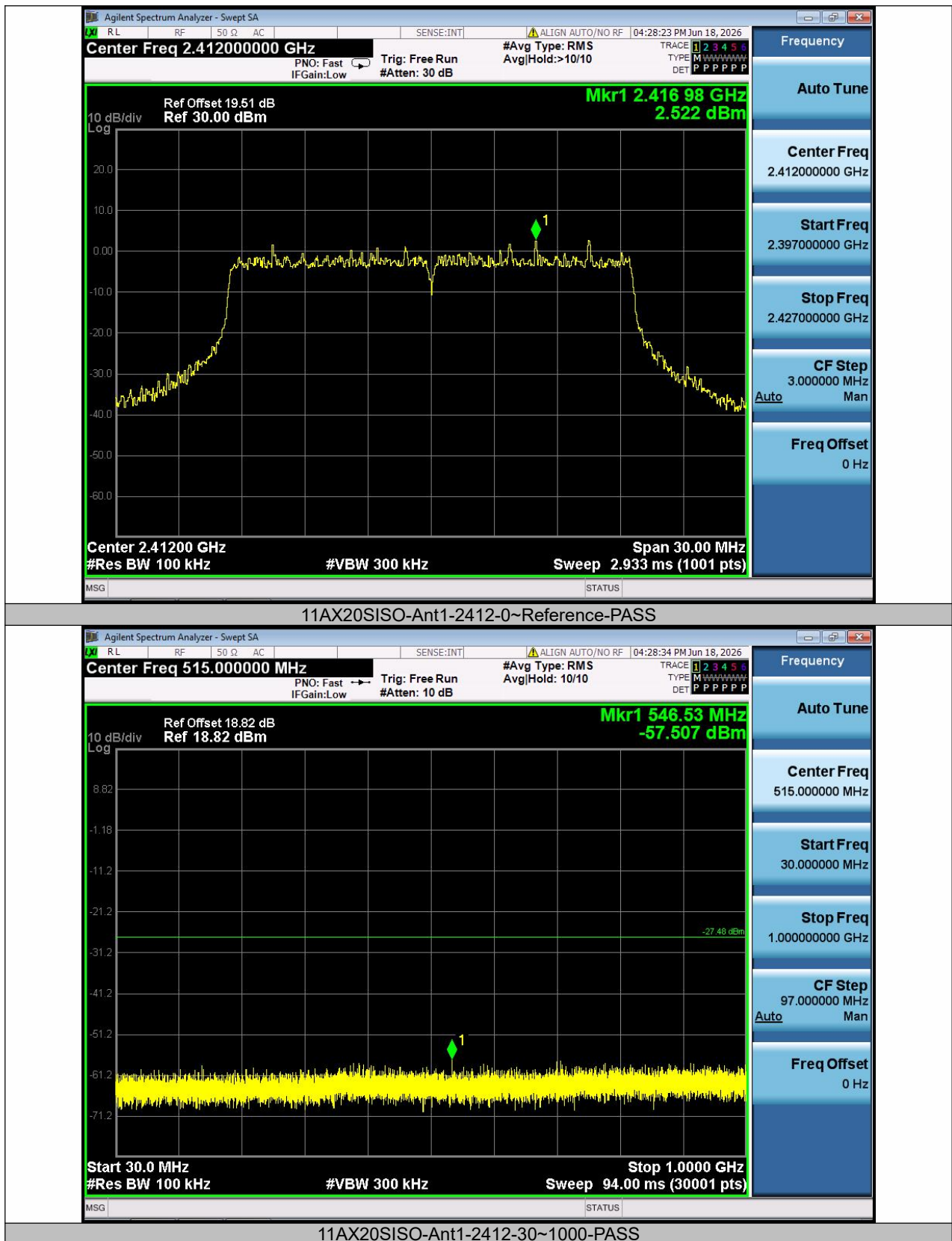
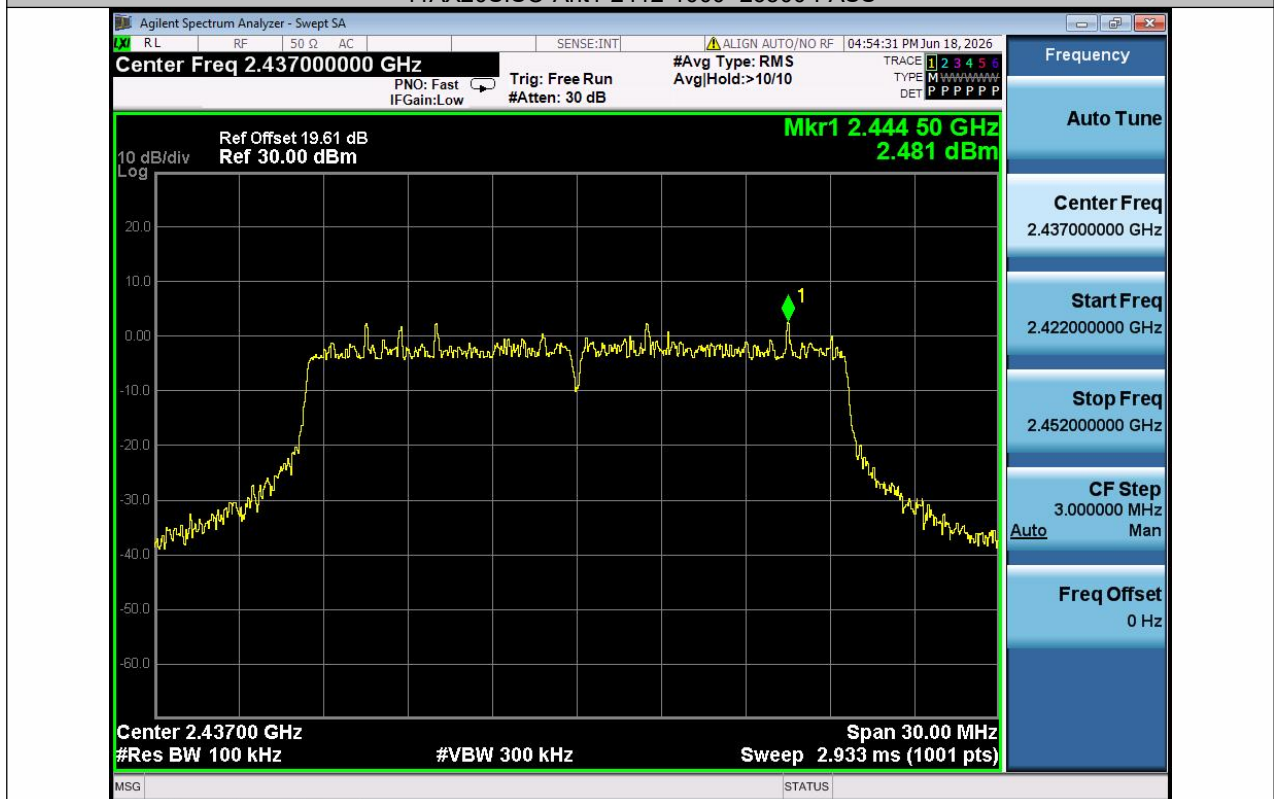


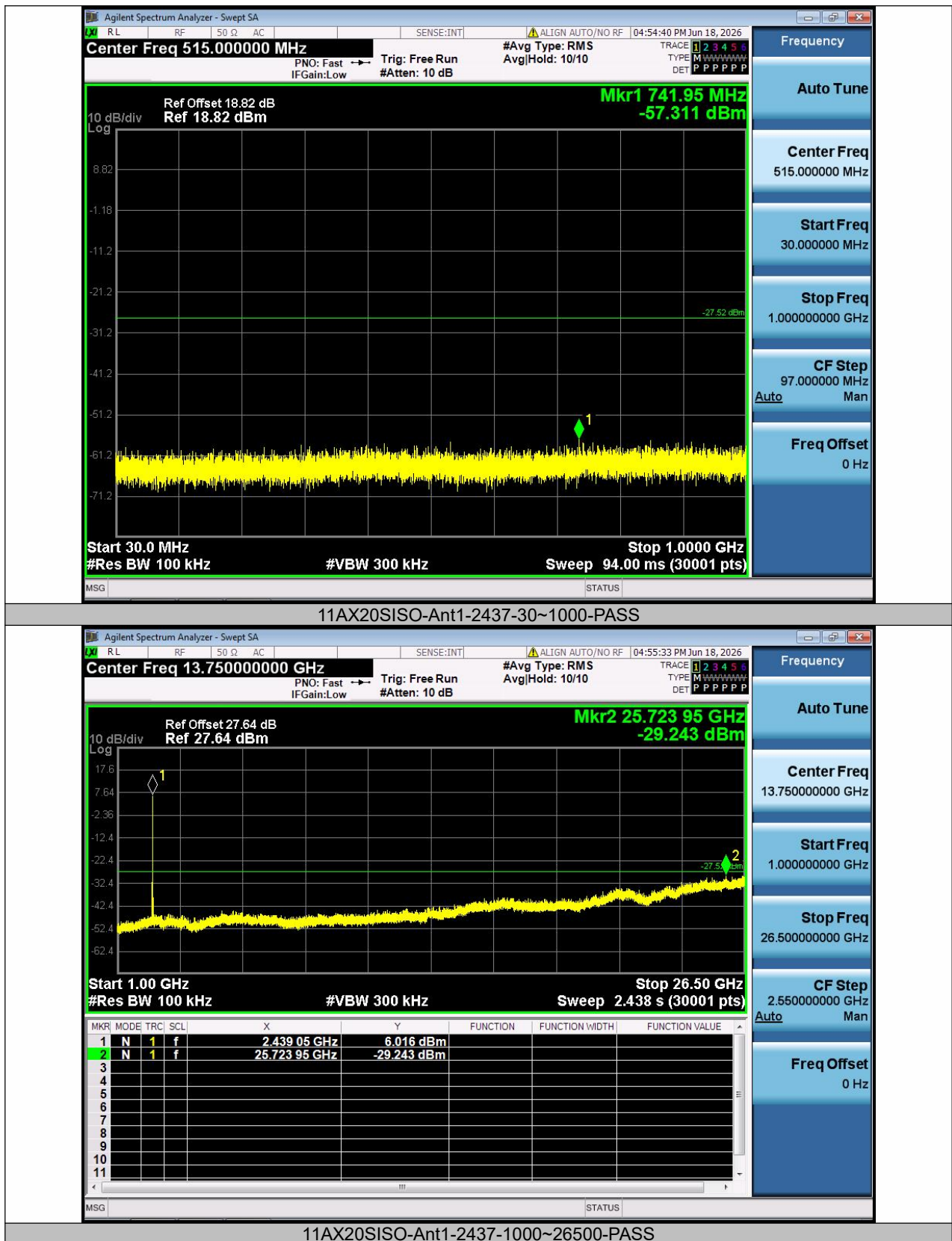


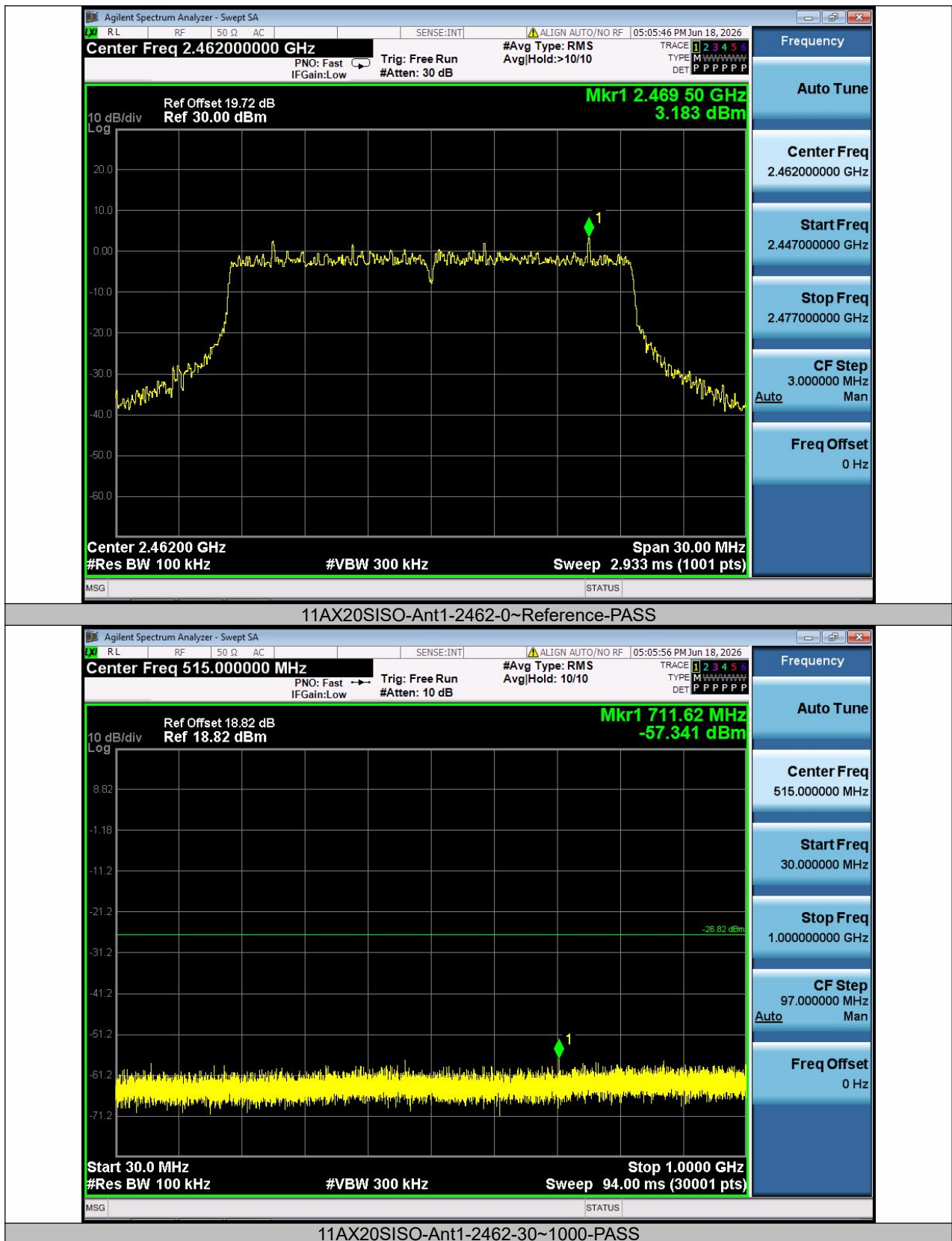


11AX20SISO-Ant1-2412-1000~26500-PASS



11AX20SISO-Ant1-2437-0~Reference-PASS







8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 Meas Guidancev05r02
According to IC RSS-Gen and RSS-247

8.6.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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	(2)
13.36-13.41			

According to FCC Part 15.205 the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (μV/m)	300
0.490-1.705	24000/F(KHz)	20 log (μV/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

8.6.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.6.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

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

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

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

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

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

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

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

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

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

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

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10 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. Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.6.5 Test Results

Temperature:	22.3°C
Relative Humidity:	64%
ATM Pressure:	1011 mbar

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

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

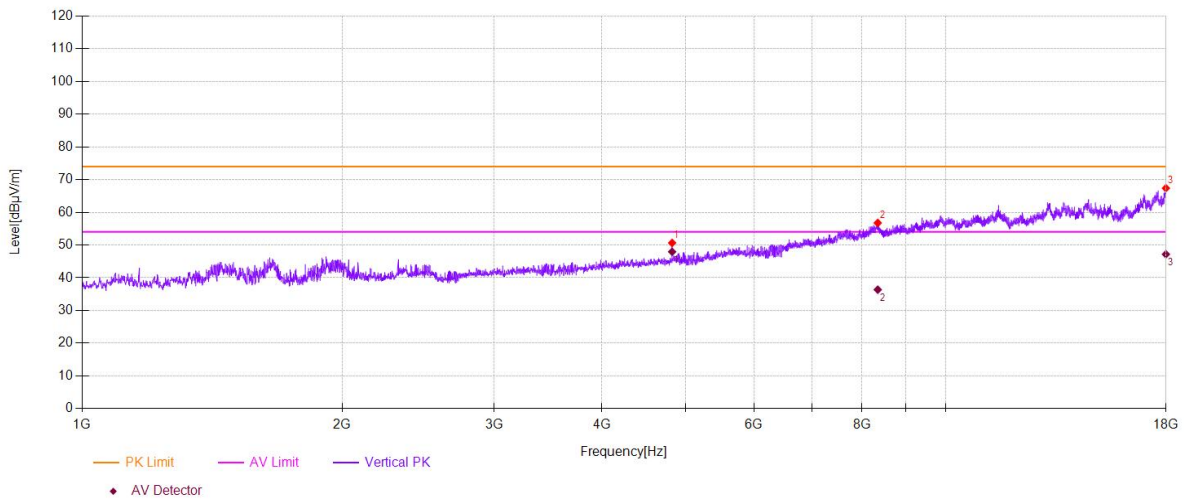
Distance extrapolation factor = $40\log(\text{Specific distance}/ \text{test distance})$ (dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All the antenna(Antenna 1)and modes(802.11b/g/n/ax)have been tested and the worst(Antenna 1,802.11b) result recorded was report as below:

Test mode: 802.11b Frequency: Channel 1: 2412MHz

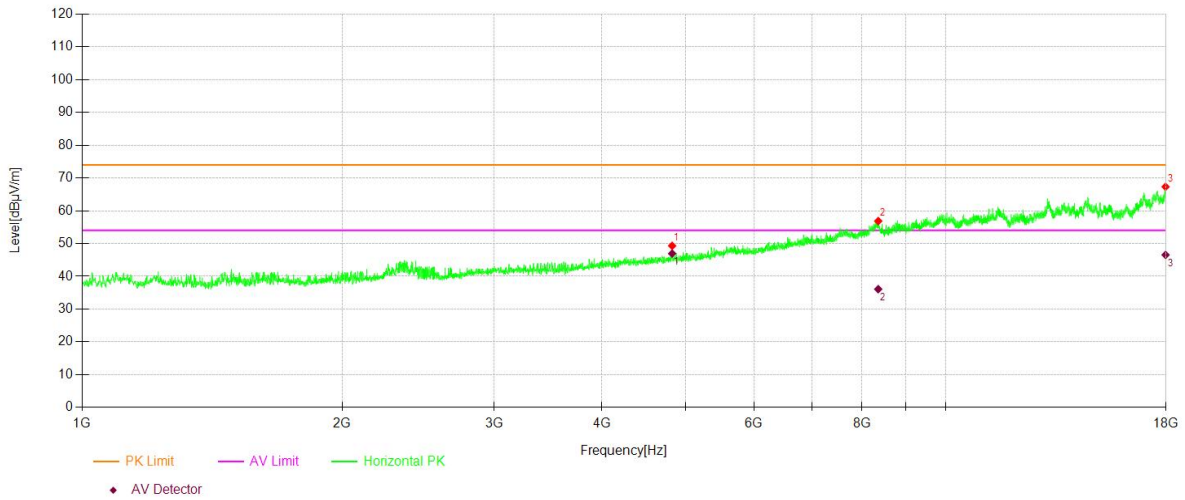


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4822.5	50.66	-12.34	74.00	23.34	PK	Vertical
2	8343.75	56.76	-2.09	74.00	17.24	PK	Vertical
3	17994.375	67.38	11.85	74.00	6.62	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4822.5	47.95	54.00	6.05	AV	Vertical
2	8343.75	36.37	54.00	17.63	AV	Vertical
3	17994.375	47.18	54.00	6.82	AV	Vertical



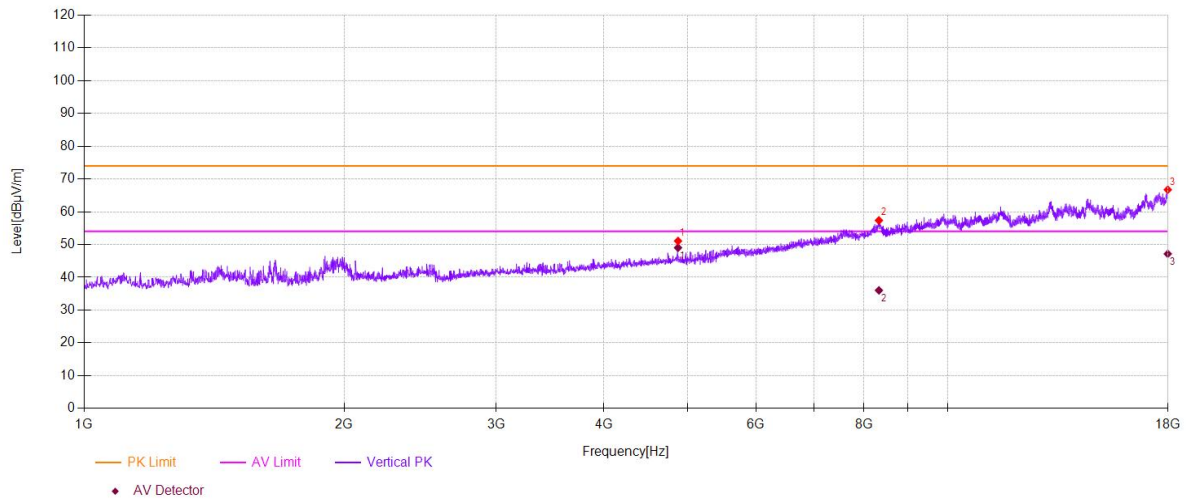
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4822.5	49.31	-12.34	74.00	24.69	PK	Horizontal
2	8355	56.86	-2.07	74.00	17.14	PK	Horizontal
3	17977.5	67.32	11.17	74.00	6.68	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4822.5	46.95	54.00	7.05	AV	Horizontal
2	8355	36.09	54.00	17.91	AV	Horizontal
3	17977.5	46.54	54.00	7.46	AV	Horizontal

Test mode: 802.11b Frequency: Channel 6: 2437MHz

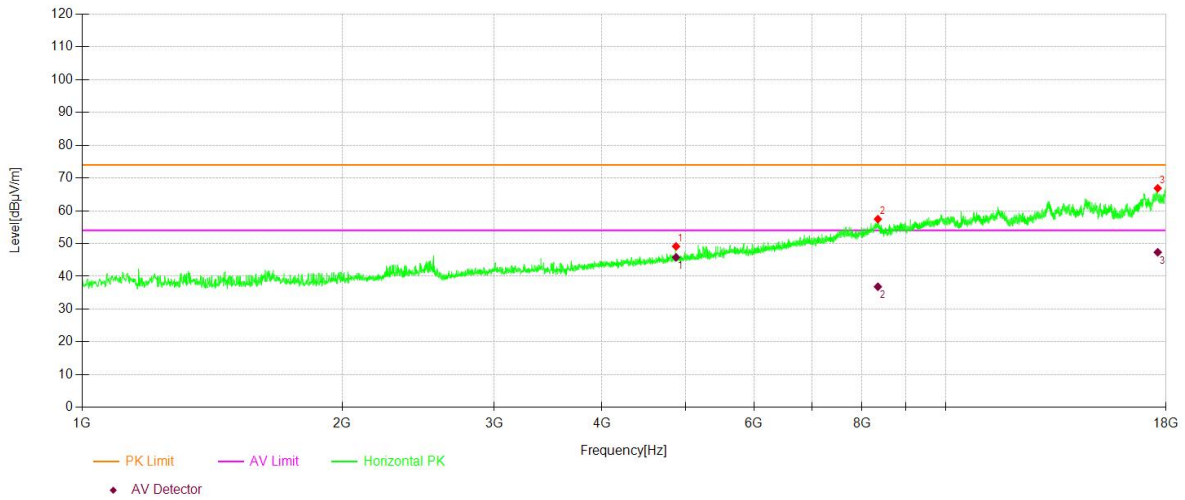


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4873.125	51.09	-12.34	74.00	22.91	PK	Vertical
2	8326.875	57.36	-2.13	74.00	16.64	PK	Vertical
3	17986.875	66.72	11.54	74.00	7.28	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4873.125	49.03	54.00	4.97	AV	Vertical
2	8326.875	36.02	54.00	17.98	AV	Vertical
3	17986.875	47.16	54.00	6.84	AV	Vertical



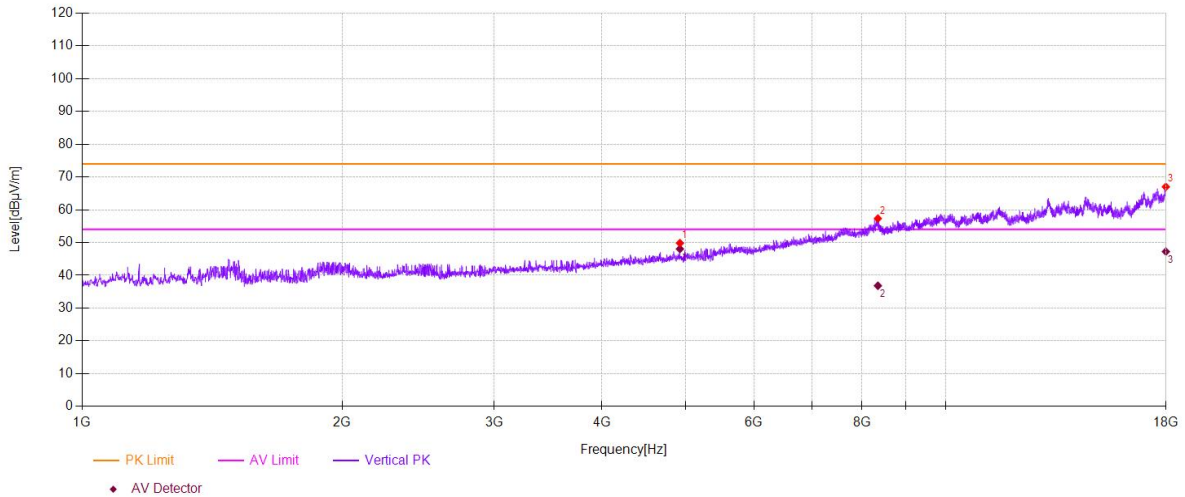
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4873.125	49.14	-12.34	74.00	24.86	PK	Horizontal
2	8347.5	57.46	-2.08	74.00	16.54	PK	Horizontal
3	17606.25	66.87	12.07	74.00	7.13	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4873.125	45.79	54.00	8.21	AV	Horizontal
2	8347.5	36.82	54.00	17.18	AV	Horizontal
3	17606.25	47.33	54.00	6.67	AV	Horizontal

Test mode: 802.11b Frequency: Channel 11: 2462MHz

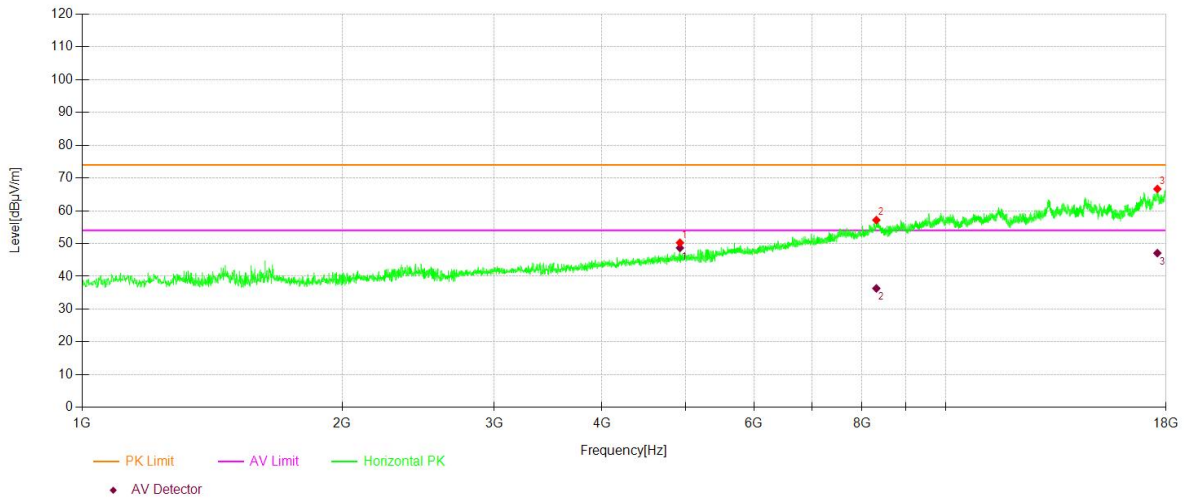


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4923.75	49.83	-12.29	74.00	24.17	PK	Vertical
2	8347.5	57.33	-2.08	74.00	16.67	PK	Vertical
3	17992.5	66.99	11.77	74.00	7.01	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4923.75	48.05	54.00	5.95	AV	Vertical
2	8347.5	36.82	54.00	17.18	AV	Vertical
3	17992.5	47.23	54.00	6.77	AV	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4923.75	50.25	-12.29	74.00	23.75	PK	Horizontal
2	8313.75	57.15	-2.15	74.00	16.85	PK	Horizontal
3	17589.375	66.65	12.07	74.00	7.35	PK	Horizontal

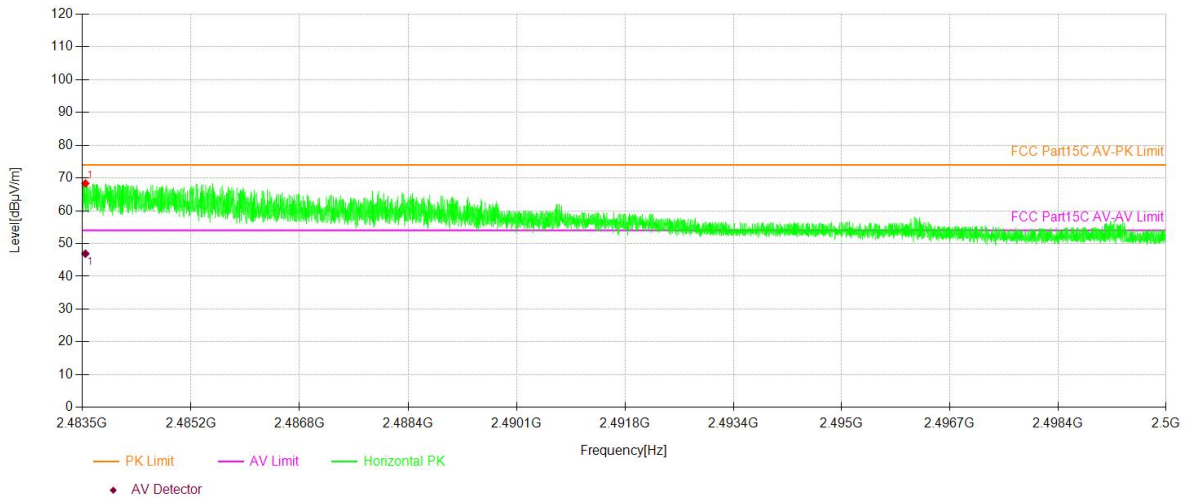
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4923.75	48.66	54.00	5.34	AV	Horizontal
2	8313.75	36.31	54.00	17.69	AV	Horizontal
3	17589.375	47.08	54.00	6.92	AV	Horizontal

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

All the antenna(Antenna 1) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1,802.11n(HT20)) result recorded was report as below:

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2310-2390MHz
Channel 1: 2412MHz VBW=3MHz Polarity: H



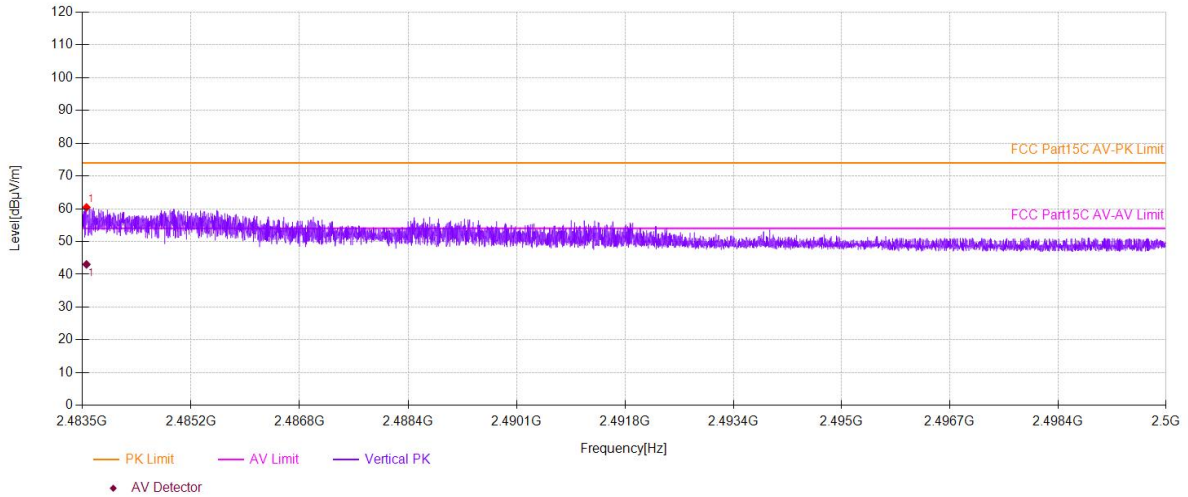
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.5495	68.33	30.12	74.00	5.67	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2483.5495	46.91	54.00	7.09	AV	Horizontal

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2310-2390MHz
Channel 1: 2412MHz VBW=3MHz Polarity: V



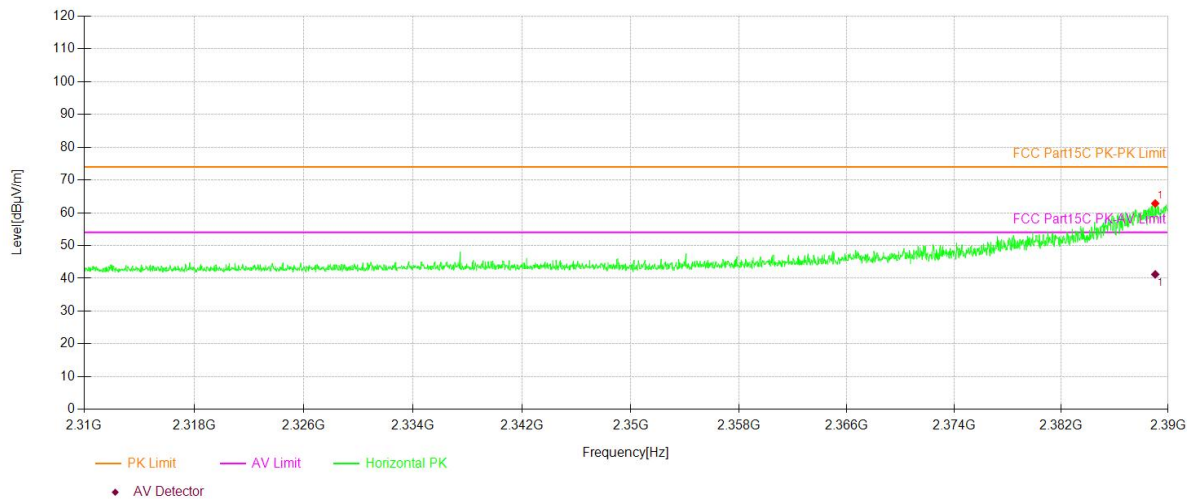
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2483.566	60.43	30.12	74.00	13.57	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2483.566	43.03	54.00	10.97	AV	Vertical

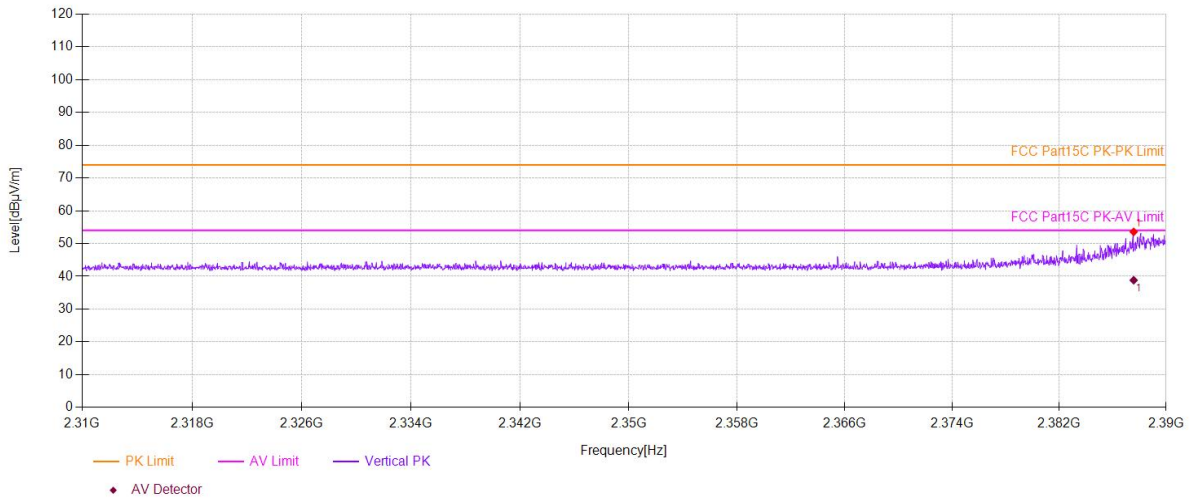
Test Model	802.11n(HT20)	Spurious Emission in Restricted Band 2483.5-2500MHz	Channel 11: 2462MHz	VBW=3MHz	Polarity: H
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Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2389.0397	62.83	30.29	74.00	11.17	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2389.0397	41.20	54.00	12.80	AV	Horizontal

Test Model 802.11n(HT20) Spurious Emission in Restricted Band 2483.5-2500MHz
Channel 11: 2462MHz VBW=3MHz Polarity: V



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2387.5725	53.58	30.29	74.00	20.42	PK	Vertical

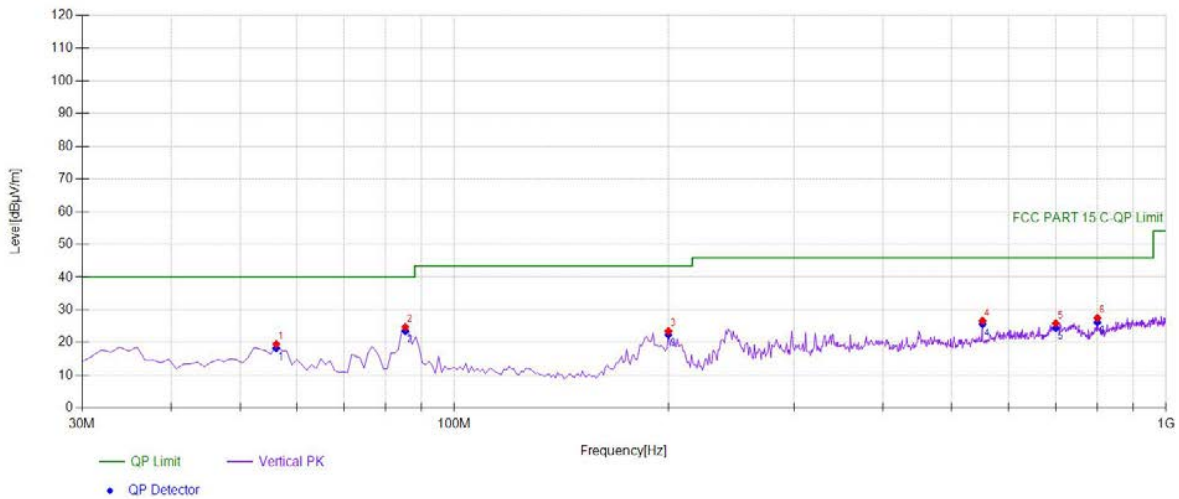
AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	2387.5725	38.81	54.00	15.19	AV	Vertical

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

All the antenna(Antenna 1) and modes(802.11b/g/n/ax) have been tested and the worst(Antenna 1,802.11b) result recorded was report as below:

Mode:	11B 2412
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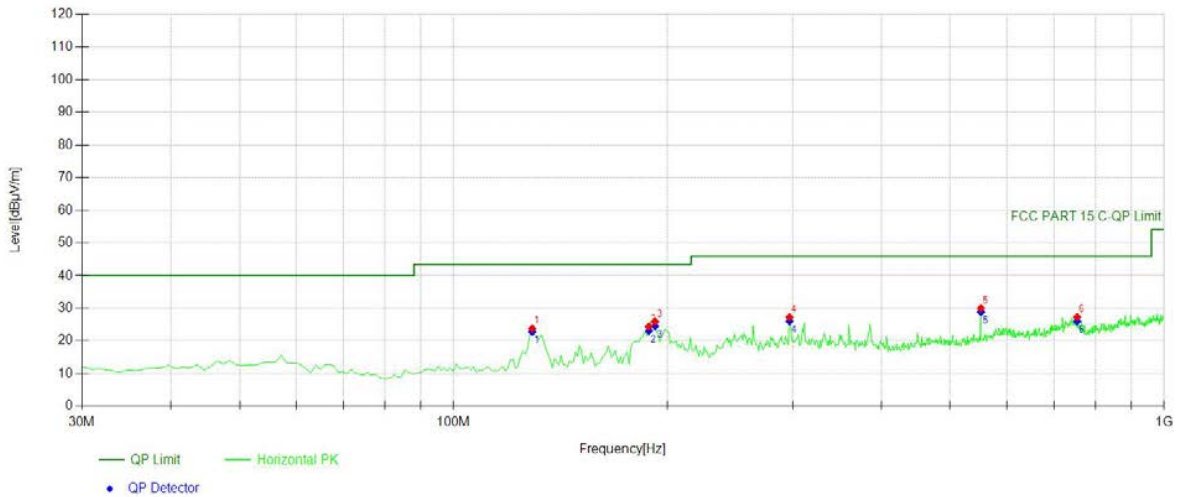
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	56.2162	30.96	-11.49	19.47	PK	40.00	20.53	Vertical
2	85.3453	38.81	-14.09	24.72	PK	40.00	15.28	Vertical
3	199.919	35.82	-12.37	23.45	PK	43.50	20.05	Vertical
4	552.382	29.60	-2.94	26.66	PK	46.00	19.34	Vertical
5	699.97	26.11	-0.24	25.87	PK	46.00	20.13	Vertical
6	800.951	27.00	0.55	27.55	PK	46.00	18.45	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	56.2162	-11.49	18.21	40.00	21.79
2	85.3453	-14.09	23.46	40.00	16.54
3	199.9199	-12.37	22.37	43.50	21.13
4	552.3824	-2.94	25.58	46.00	20.42
5	699.97	-0.24	24.47	46.00	21.53
6	800.951	0.55	26.15	46.00	19.85

Mode:	11B 2412
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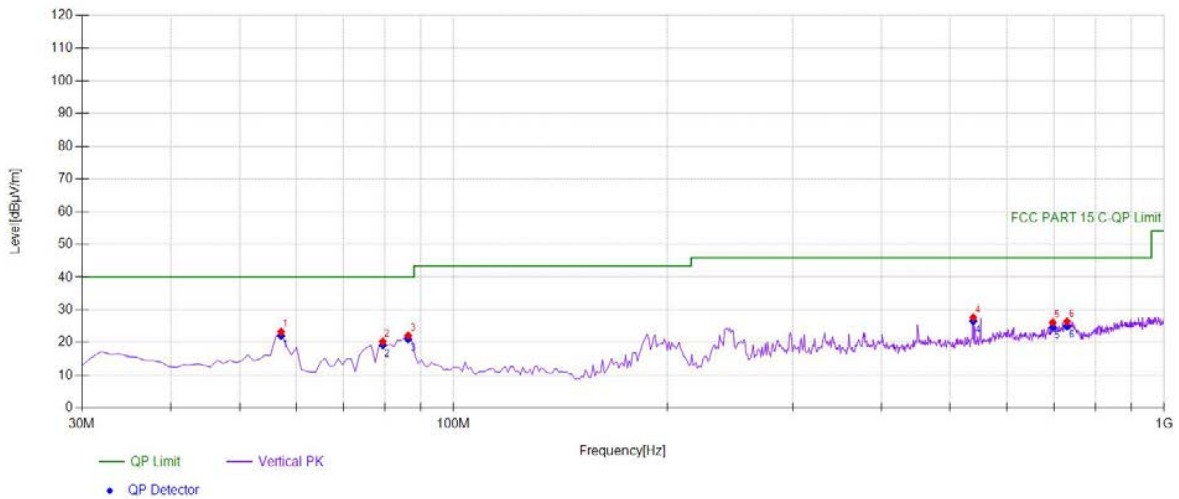
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	129.039	37.58	-13.82	23.76	PK	43.50	19.74	Horizontal
2	188.268	37.23	-12.85	24.38	PK	43.50	19.12	Horizontal
3	192.152	38.57	-12.67	25.90	PK	43.50	17.60	Horizontal
4	297.017	35.58	-8.37	27.21	PK	46.00	18.79	Horizontal
5	552.382	32.92	-2.94	29.98	PK	46.00	16.02	Horizontal
6	754.344	27.70	-0.42	27.28	PK	46.00	18.72	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	129.039	-13.82	22.74	43.50	20.76
2	188.2683	-12.85	23.04	43.50	20.46
3	192.1522	-12.67	24.56	43.50	18.94
4	297.017	-8.37	26.05	46.00	19.95
5	552.3824	-2.94	28.82	46.00	17.18
6	754.3443	-0.42	26.04	46.00	19.96

Mode:	11B 2437
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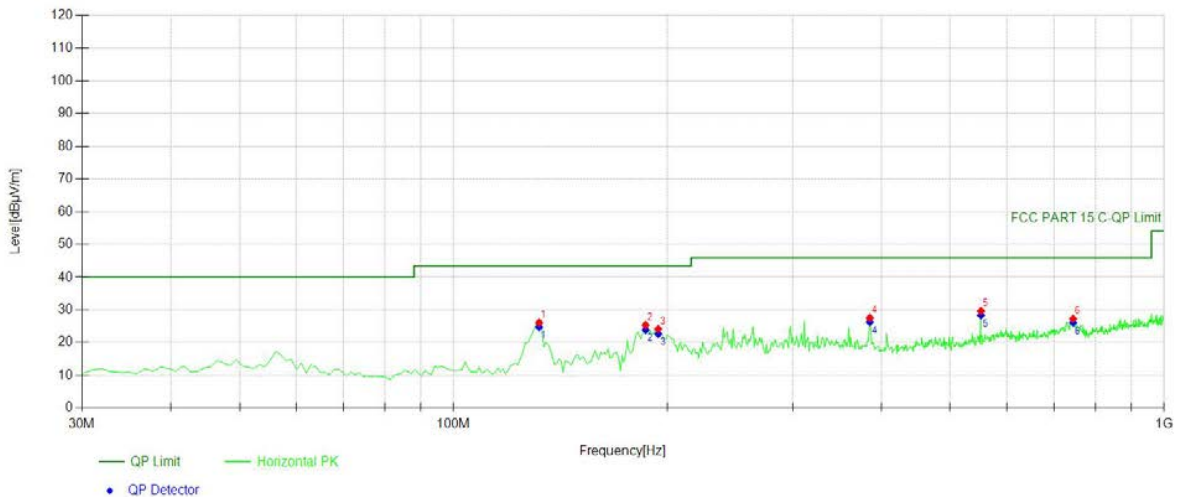
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	57.1872	34.86	-11.63	23.23	PK	40.00	16.77	Vertical
2	79.5195	35.06	-14.84	20.22	PK	40.00	19.78	Vertical
3	86.3163	36.08	-13.95	22.13	PK	40.00	17.87	Vertical
4	538.788	30.98	-3.33	27.65	PK	46.00	18.35	Vertical
5	697.057	26.50	-0.36	26.14	PK	46.00	19.86	Vertical
6	730.070	26.11	0.26	26.37	PK	46.00	19.63	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	57.1872	-11.63	22.01	40.00	17.99
2	79.5195	-14.84	19.17	40.00	20.83
3	86.3163	-13.95	21.00	40.00	19.00
4	538.7888	-3.33	26.52	46.00	19.48
5	697.0571	-0.36	24.69	46.00	21.31
6	730.0701	0.26	24.92	46.00	21.08

Mode:	11B 2437
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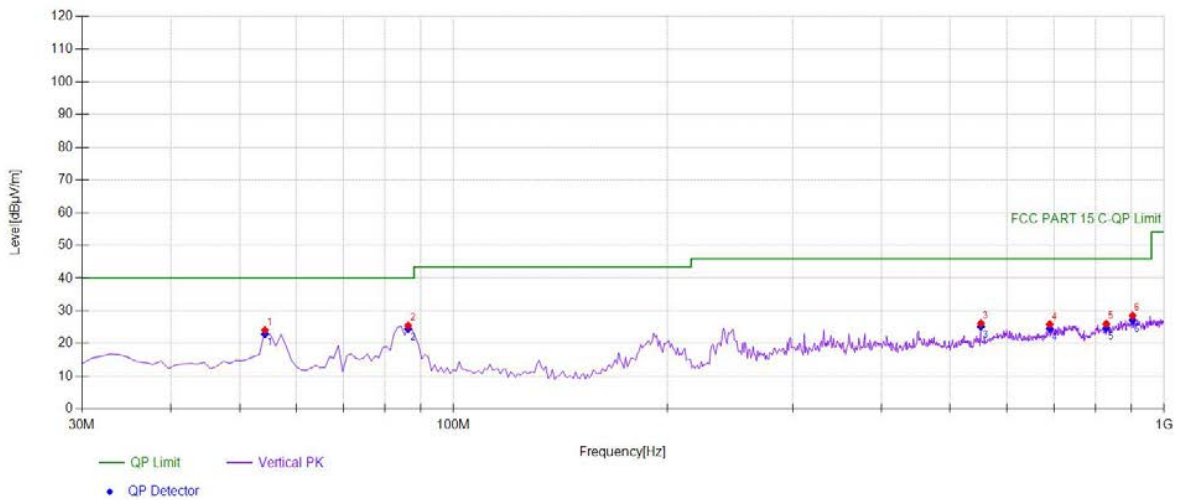
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	131.952	40.14	-14.02	26.12	PK	43.50	17.38	Horizontal
2	186.326	38.31	-12.95	25.36	PK	43.50	18.14	Horizontal
3	194.094	36.70	-12.60	24.10	PK	43.50	19.40	Horizontal
4	385.375	33.29	-5.73	27.56	PK	46.00	18.44	Horizontal
5	552.382	32.60	-2.94	29.66	PK	46.00	16.34	Horizontal
6	744.634	27.06	0.18	27.24	PK	46.00	18.76	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	131.952	-14.02	24.71	43.50	18.79
2	186.3263	-12.95	23.87	43.50	19.63
3	194.0941	-12.60	22.61	43.50	20.89
4	385.3754	-5.73	26.25	46.00	19.75
5	552.3824	-2.94	28.35	46.00	17.65
6	744.6346	0.18	26.11	46.00	19.89

Mode:	11B 2462
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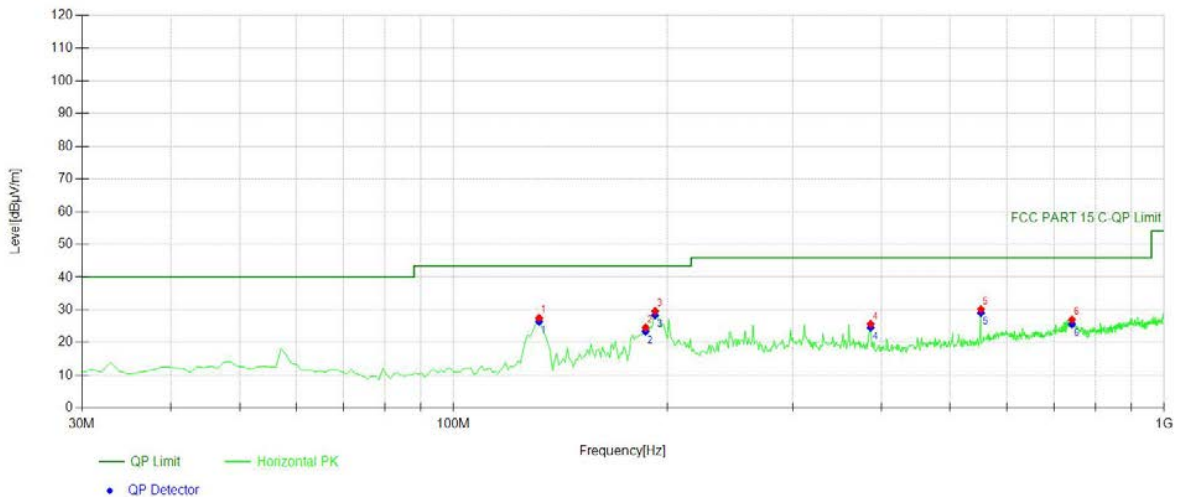
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	54.2743	35.28	-11.23	24.05	PK	40.00	15.95	Vertical
2	86.3163	39.42	-13.95	25.47	PK	40.00	14.53	Vertical
3	552.382	29.10	-2.94	26.16	PK	46.00	19.84	Vertical
4	690.260	26.54	-0.63	25.91	PK	46.00	20.09	Vertical
5	829.109	25.15	0.87	26.02	PK	46.00	19.98	Vertical
6	902.902	25.89	2.61	28.50	PK	46.00	17.50	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	54.2743	-11.23	22.87	40.00	17.13
2	86.3163	-13.95	24.47	40.00	15.53
3	552.3824	-2.94	25.16	46.00	20.84
4	690.2603	-0.63	24.59	46.00	21.41
5	829.1091	0.87	24.70	46.00	21.30
6	902.9029	2.61	27.09	46.00	18.91

Mode:	11B 2462
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Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	131.952	41.53	-14.02	27.51	PK	43.50	15.99	Horizontal
2	186.326	37.53	-12.95	24.58	PK	43.50	18.92	Horizontal
3	192.152	42.31	-12.67	29.64	PK	43.50	13.86	Horizontal
4	386.346	31.35	-5.71	25.64	PK	46.00	20.36	Horizontal
5	552.382	33.09	-2.94	30.15	PK	46.00	15.85	Horizontal
6	741.721	26.58	0.38	26.96	PK	46.00	19.04	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	131.952	-14.02	26.35	43.50	17.15
2	186.3263	-12.95	23.33	43.50	20.17
3	192.1522	-12.67	28.39	43.50	15.11
4	386.3463	-5.71	24.57	46.00	21.43
5	552.3824	-2.94	29.08	46.00	16.92
6	741.7217	0.38	25.57	46.00	20.43

8.7 CONDUCTED EMISSION TEST

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 6.3conducted emission test setup

8.7.4 Test Procedure

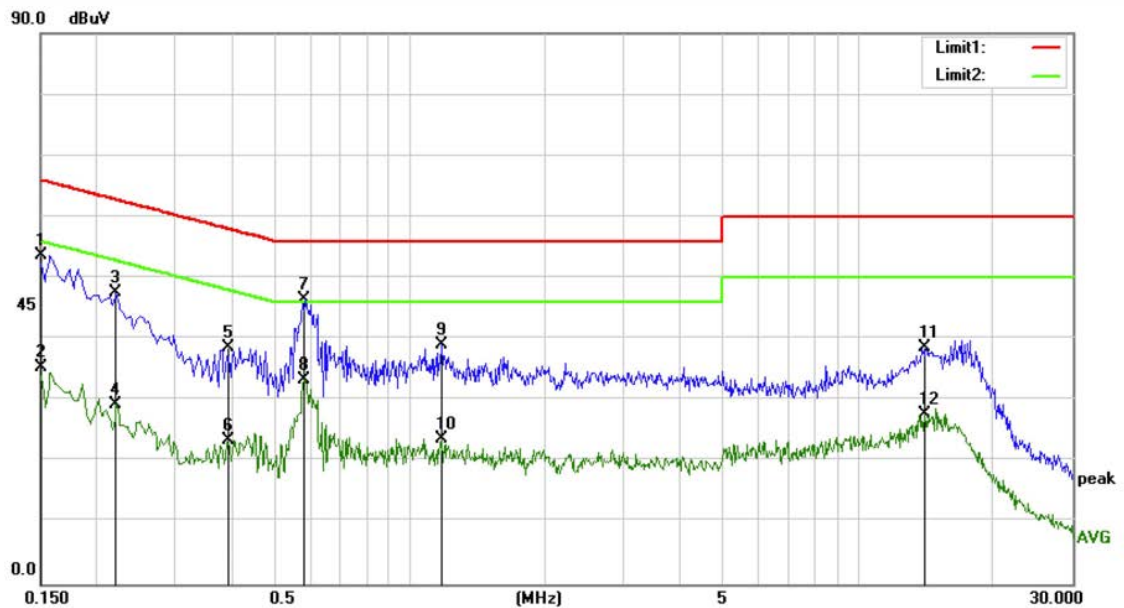
The EUT was placed on a table which is 0.8m above ground plane.

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



Site Conduction #1

Phase: **N**

Temperature: 21.0

Limit: (CE)FCC PART 15 class B_QP

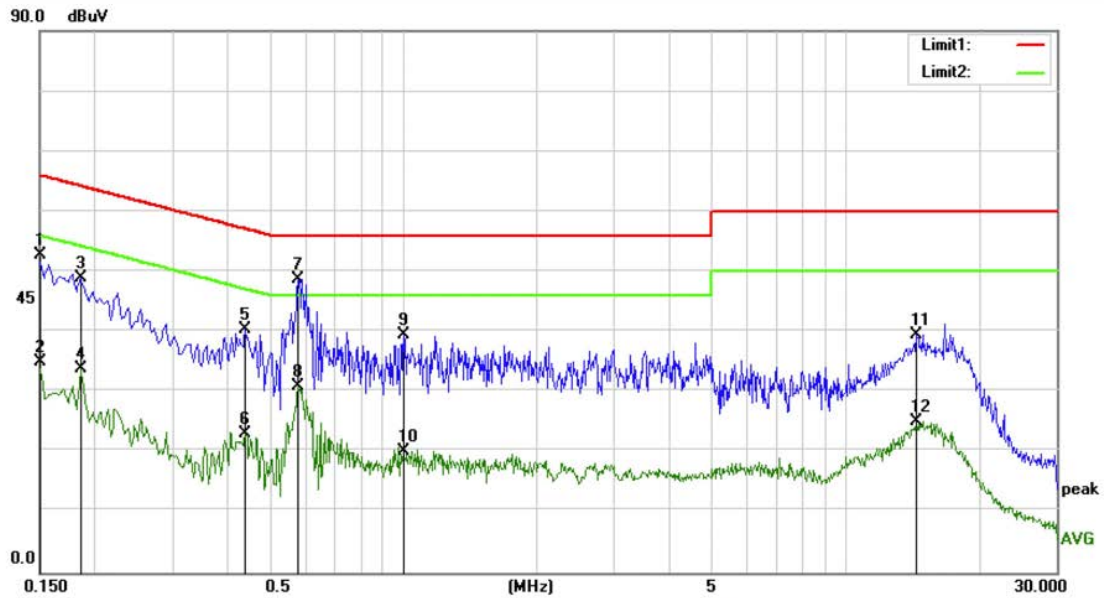
Power: AC 120V/60Hz

Humidity: 59 %

Mode: WiFi mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	44.03	9.71	53.74	66.00	-12.26	QP	
2		0.1500	25.66	9.71	35.37	56.00	-20.63	AVG	
3		0.2220	37.76	9.72	47.48	62.74	-15.26	QP	
4		0.2220	19.62	9.72	29.34	52.74	-23.40	AVG	
5		0.3940	28.93	9.70	38.63	57.98	-19.35	QP	
6		0.3940	13.86	9.70	23.56	47.98	-24.42	AVG	
7	*	0.5820	36.63	9.72	46.35	56.00	-9.65	QP	
8		0.5820	23.74	9.72	33.46	46.00	-12.54	AVG	
9		1.1820	29.23	9.73	38.96	56.00	-17.04	QP	
10		1.1820	13.92	9.73	23.65	46.00	-22.35	AVG	
11		14.0740	28.70	9.93	38.63	60.00	-21.37	QP	
12		14.0740	17.92	9.93	27.85	50.00	-22.15	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 21.0

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 59 %

Mode: WiFi mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	42.97	9.71	52.68	66.00	-13.32	QP	
2		0.1500	25.35	9.71	35.06	56.00	-20.94	AVG	
3		0.1860	39.31	9.73	49.04	64.21	-15.17	QP	
4		0.1860	24.24	9.73	33.97	54.21	-20.24	AVG	
5		0.4380	30.70	9.71	40.41	57.10	-16.69	QP	
6		0.4380	13.45	9.71	23.16	47.10	-23.94	AVG	
7	*	0.5780	39.05	9.72	48.77	56.00	-7.23	QP	
8		0.5780	21.13	9.72	30.85	46.00	-15.15	AVG	
9		1.0020	29.79	9.73	39.52	56.00	-16.48	QP	
10		1.0020	10.33	9.73	20.06	46.00	-25.94	AVG	
11		14.5100	29.64	9.92	39.56	60.00	-20.44	QP	
12		14.5100	15.08	9.92	25.00	50.00	-25.00	AVG	

8.8 ANTENNA APPLICATION

8.8.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
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.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

8.8.2 Result

PASS.

- Note:
- ☒ 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 documentInternal Photos to show the antenna connector.

*** End of Report ***

9 APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.



10 APPENDIX PHOTOGRAPHS OF TEST SETUP

Please refer to the file of Test Setup Photo.



声 明

Statement

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This report is invalid without the signature of the authorized approver and the "special seal for testing".

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