

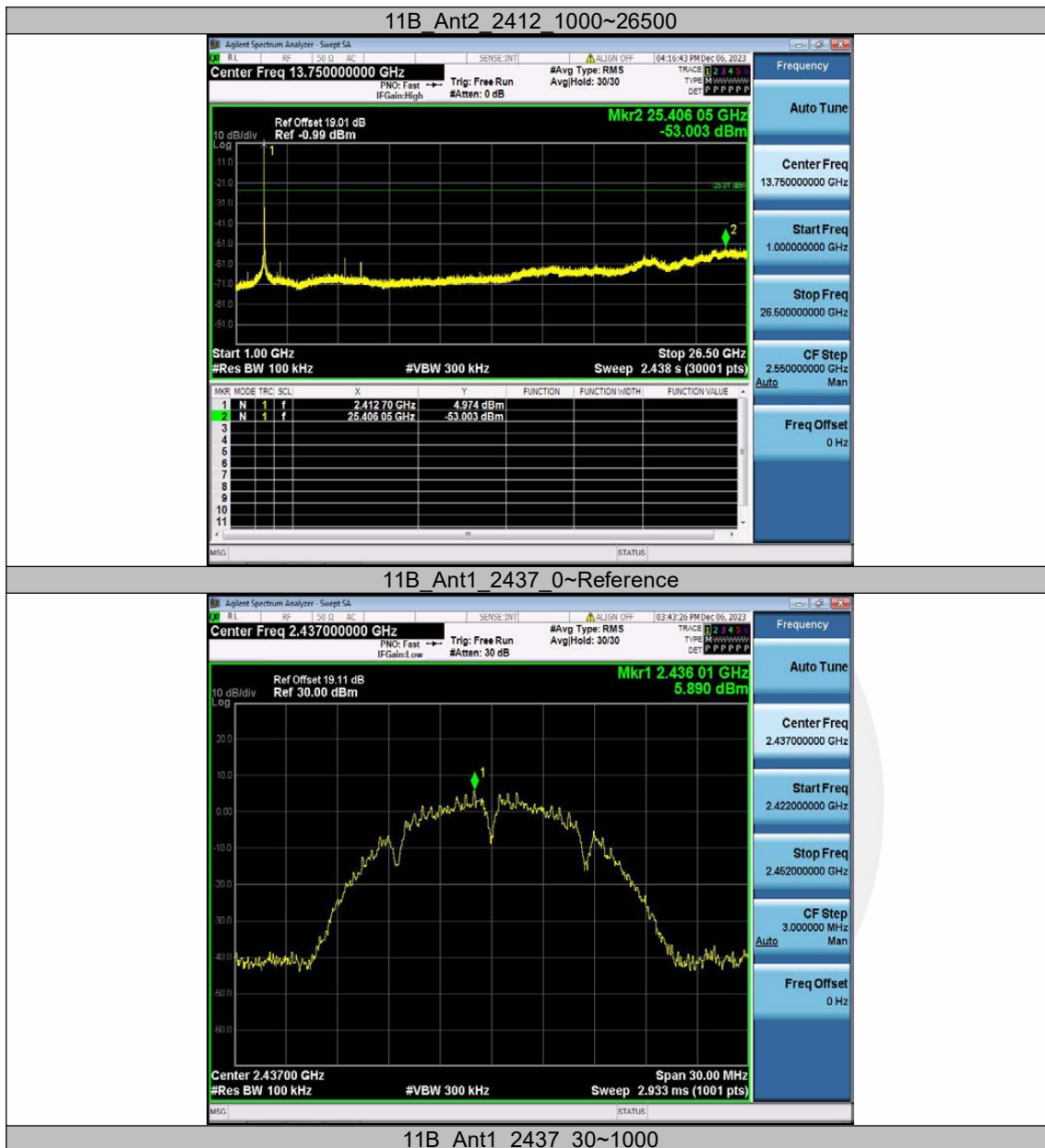


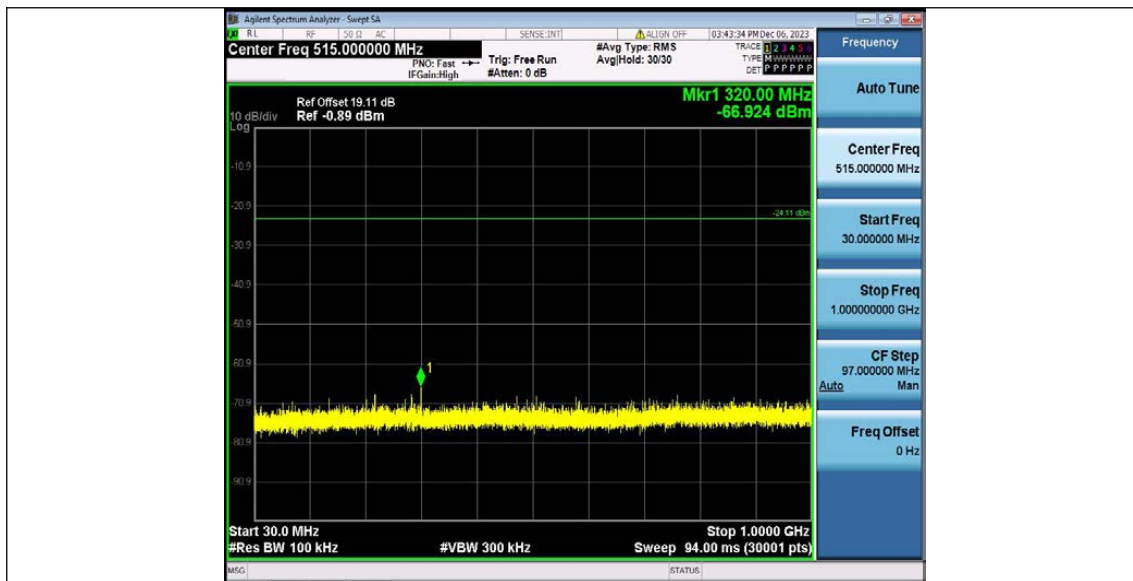
11B\_Ant2\_2412\_0~Reference



11B\_Ant2\_2412\_30~1000





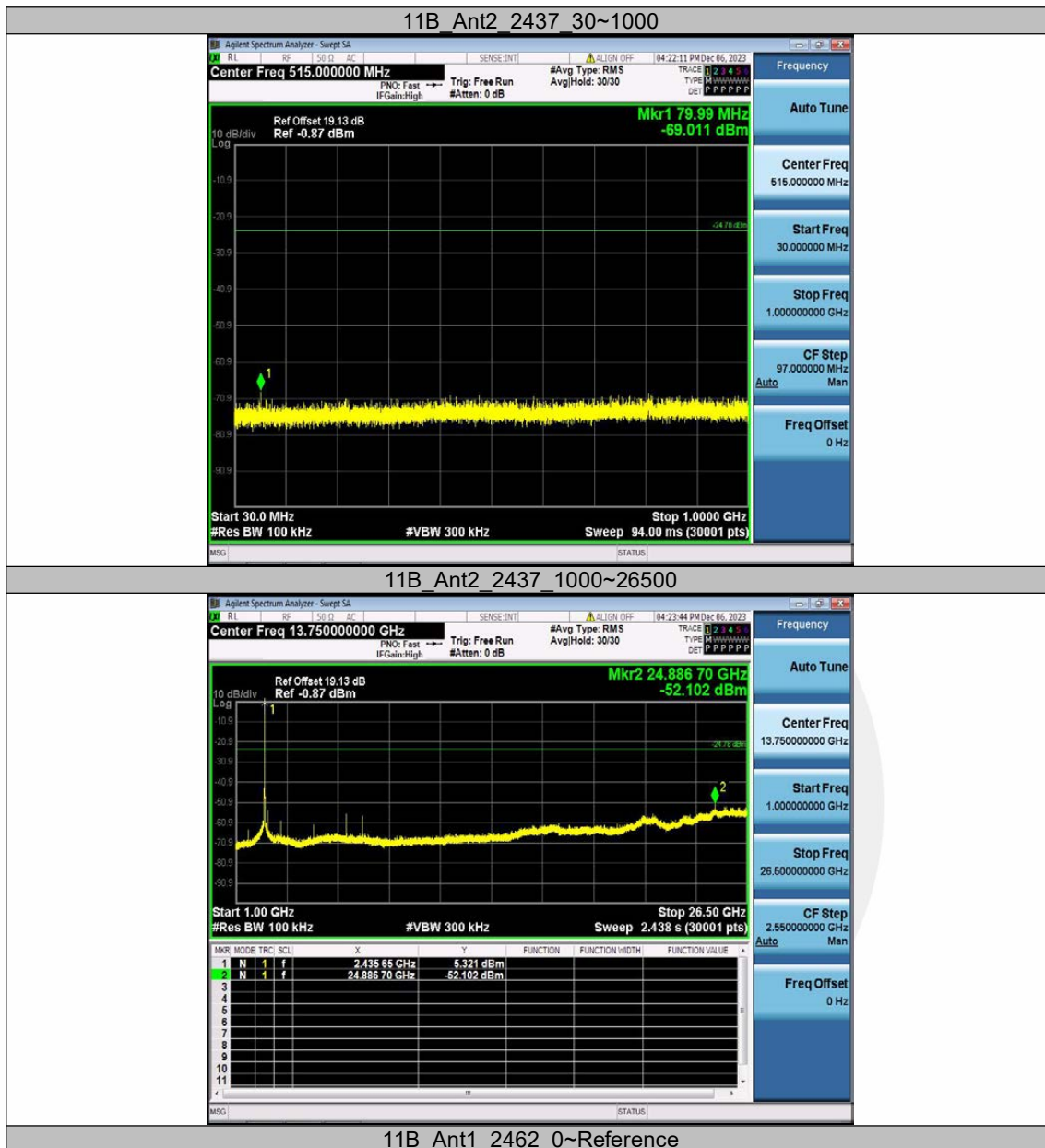


11B Ant1 2437 100~26500



11B Ant2 2437 0~Reference

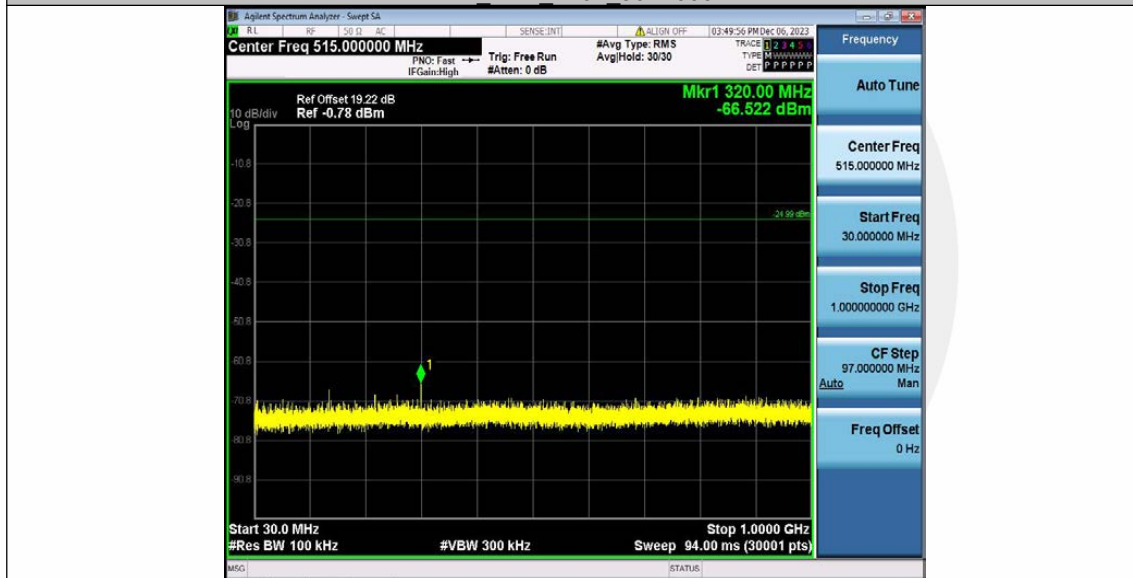






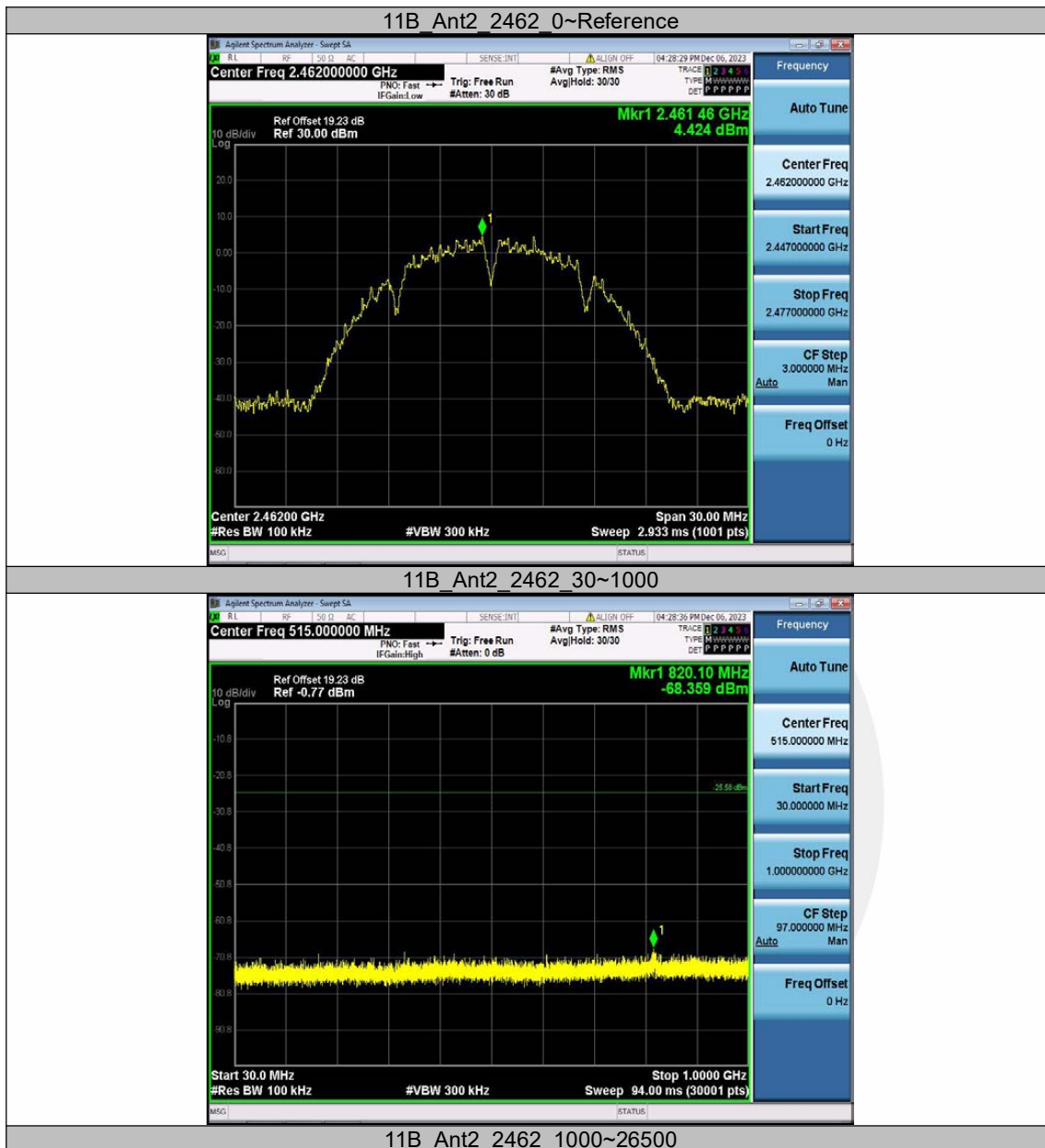


11B Ant1 2462 30~1000



11B Ant1 2462 1000~26500





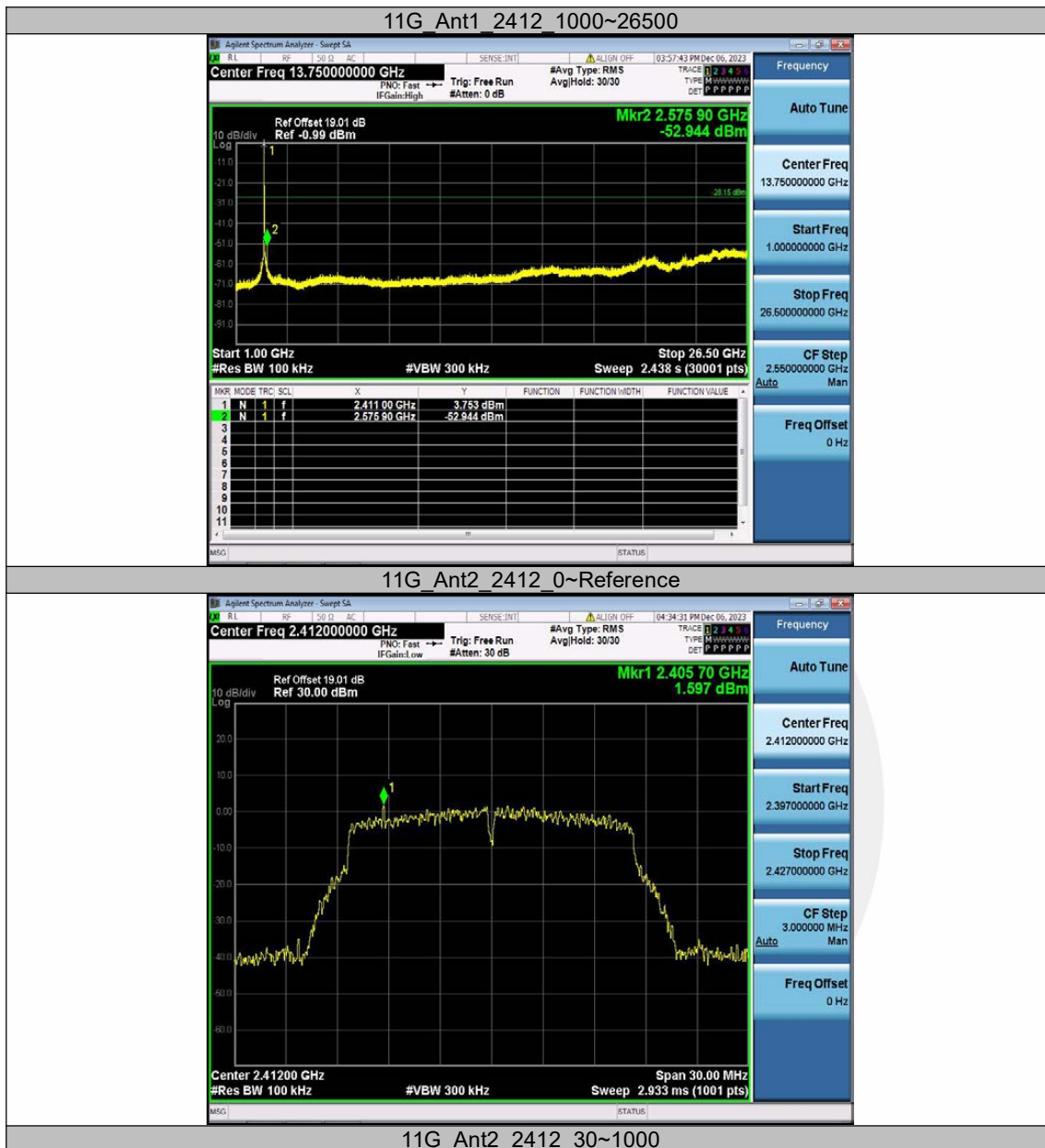


11G Ant1 2412 0~Reference

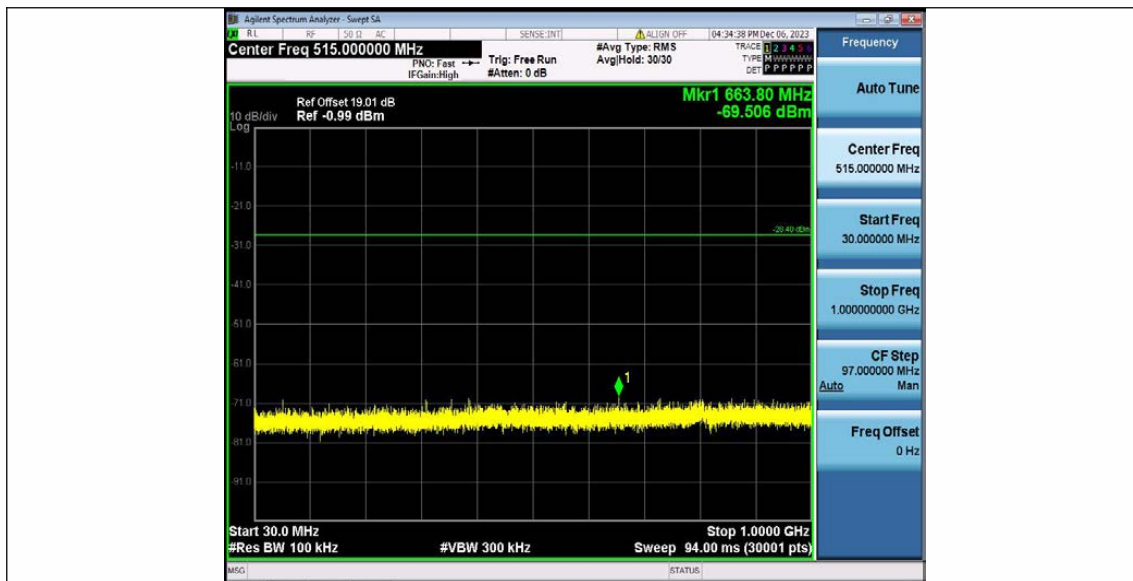


11G Ant1 2412 30~1000







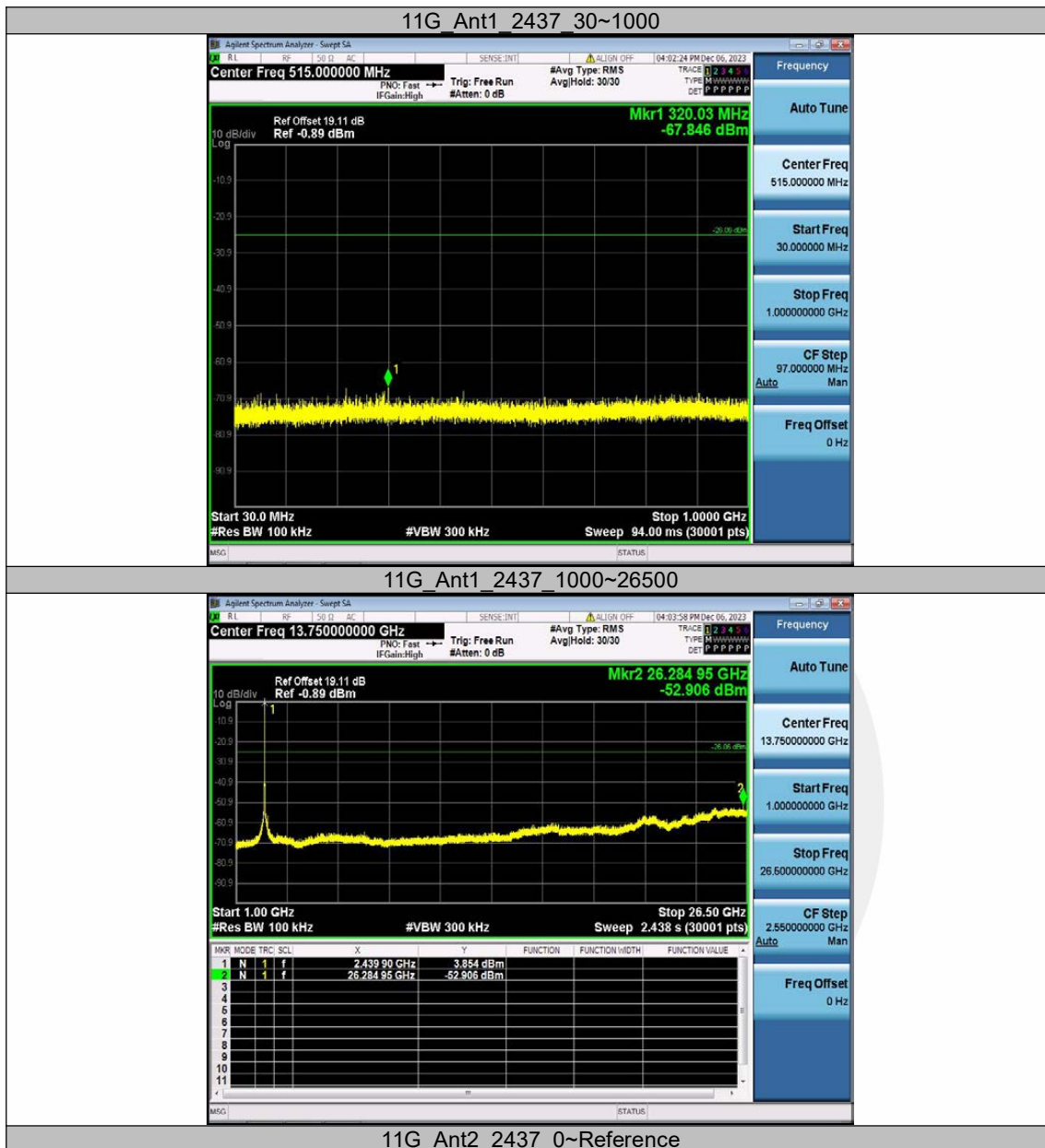


11G Ant2 2412 1000~26500

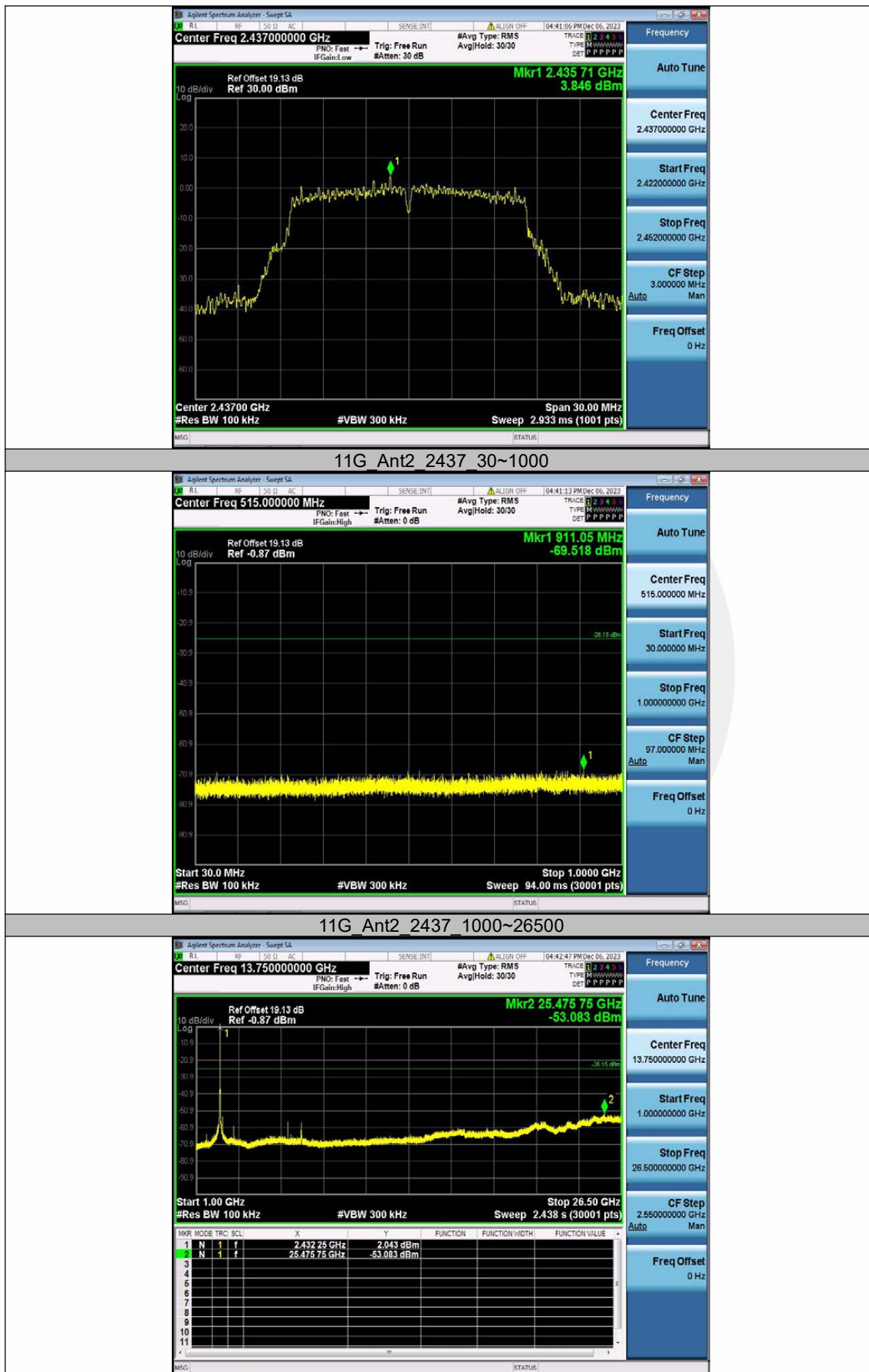


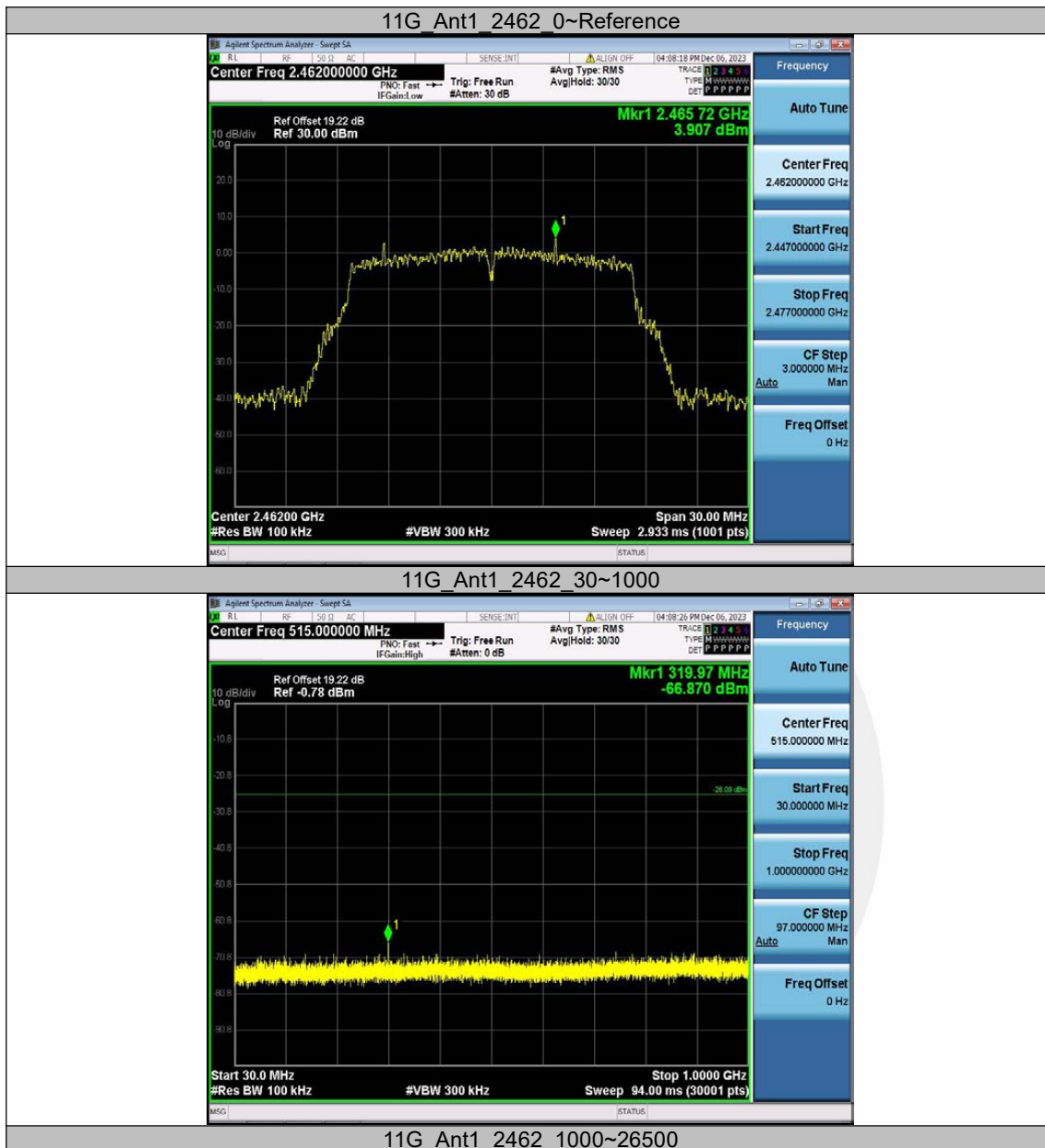
11G Ant1 2437 0~Reference





11G Ant2 2437 0~Reference





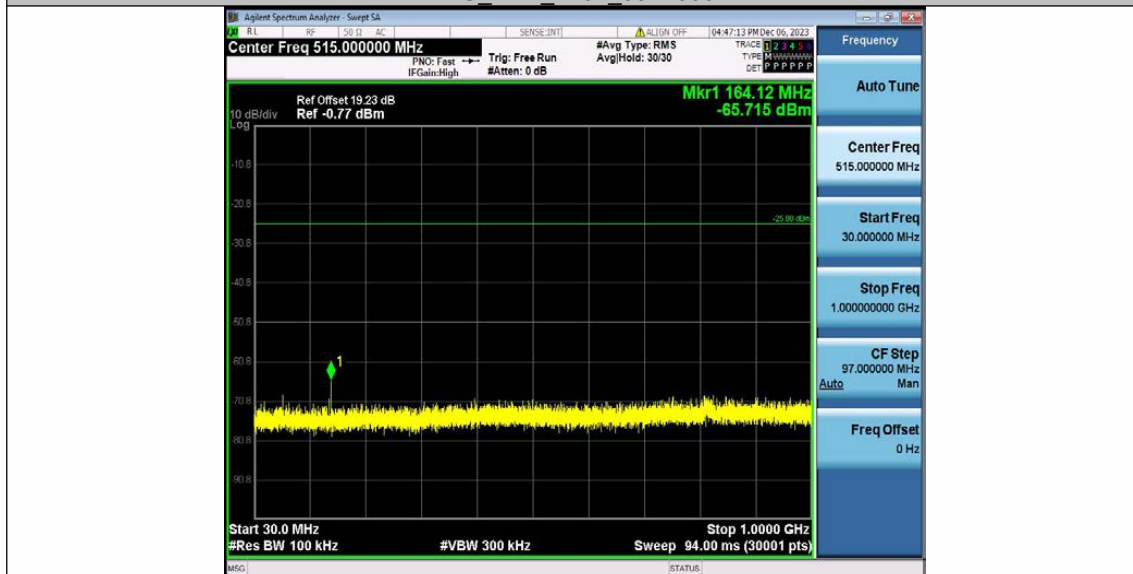


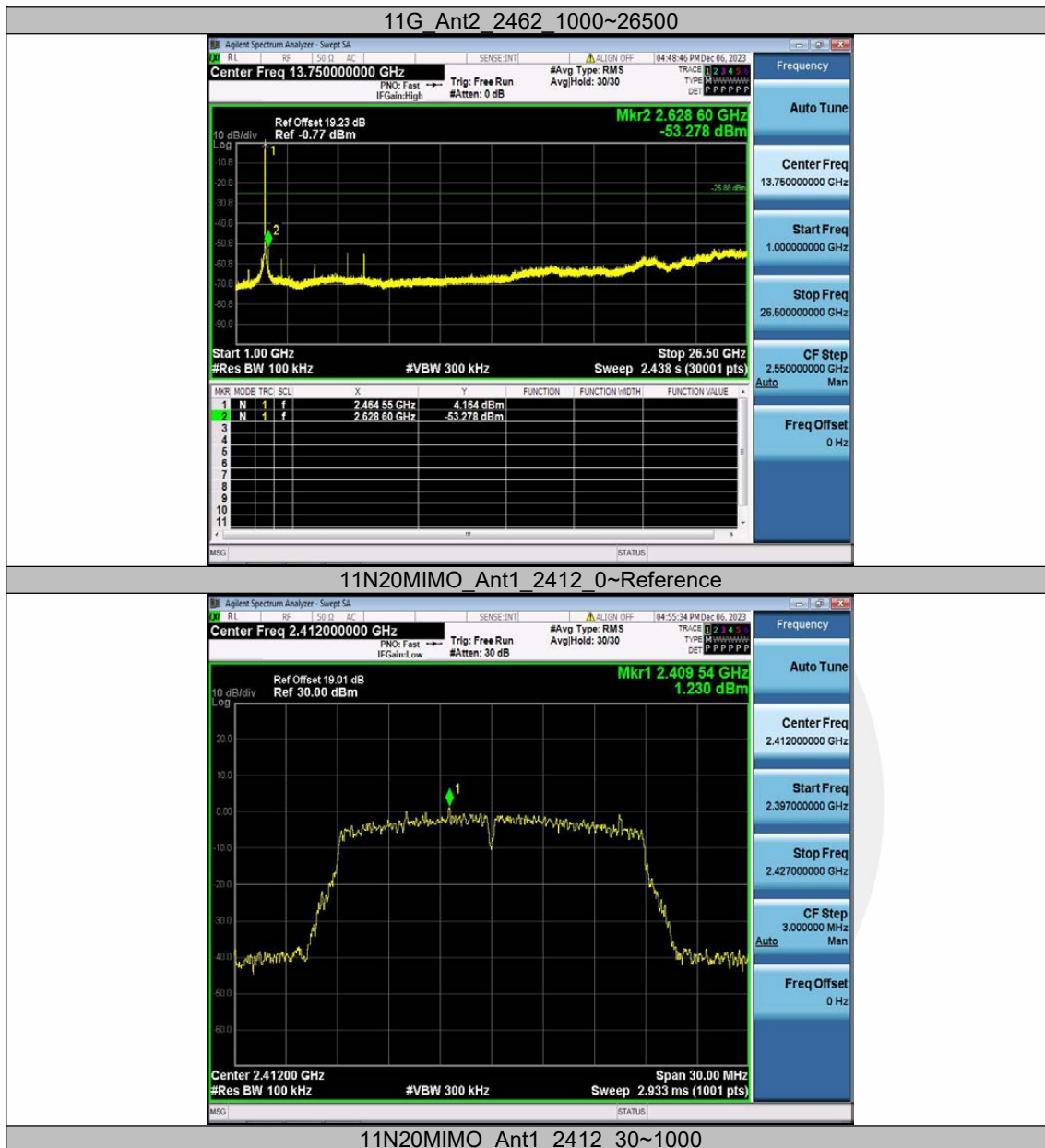


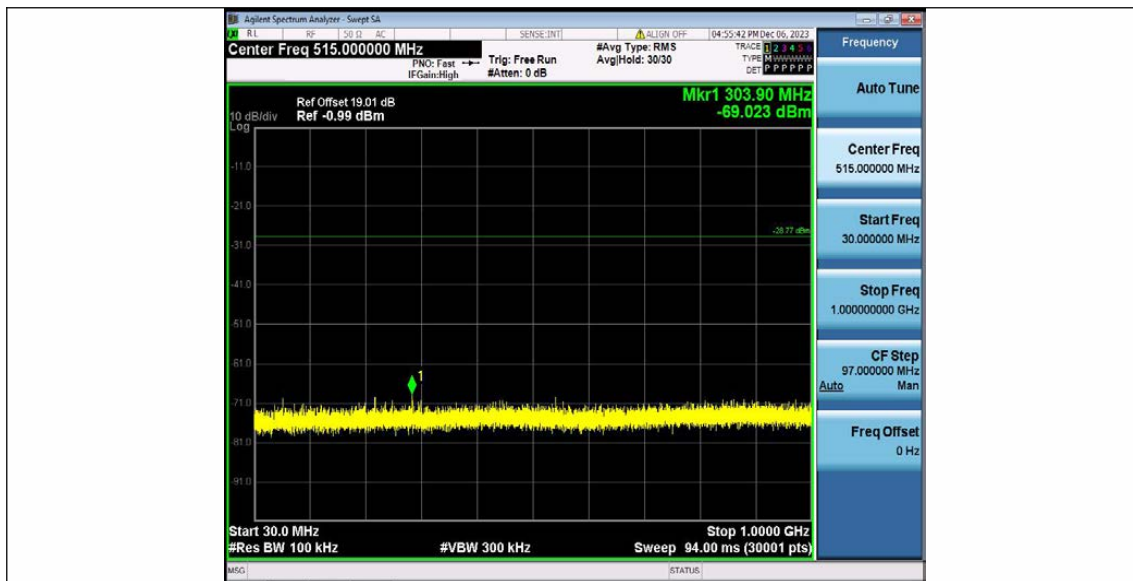
11G Ant2 2462 0~Reference



11G Ant2 2462 30~1000





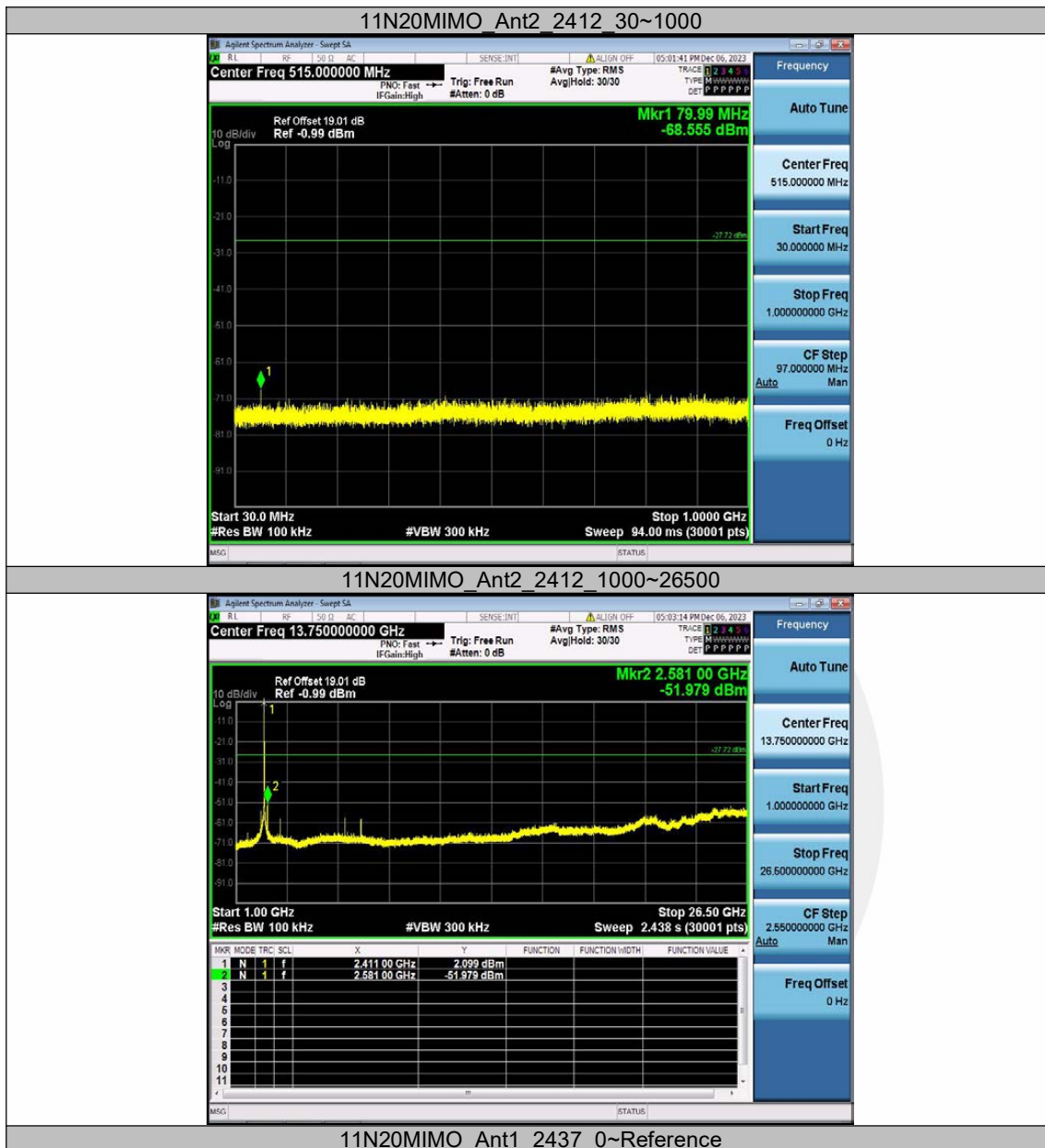


11N20MIMO Ant1 2412 1000~26500



11N20MIMO Ant2 2412 0~Reference

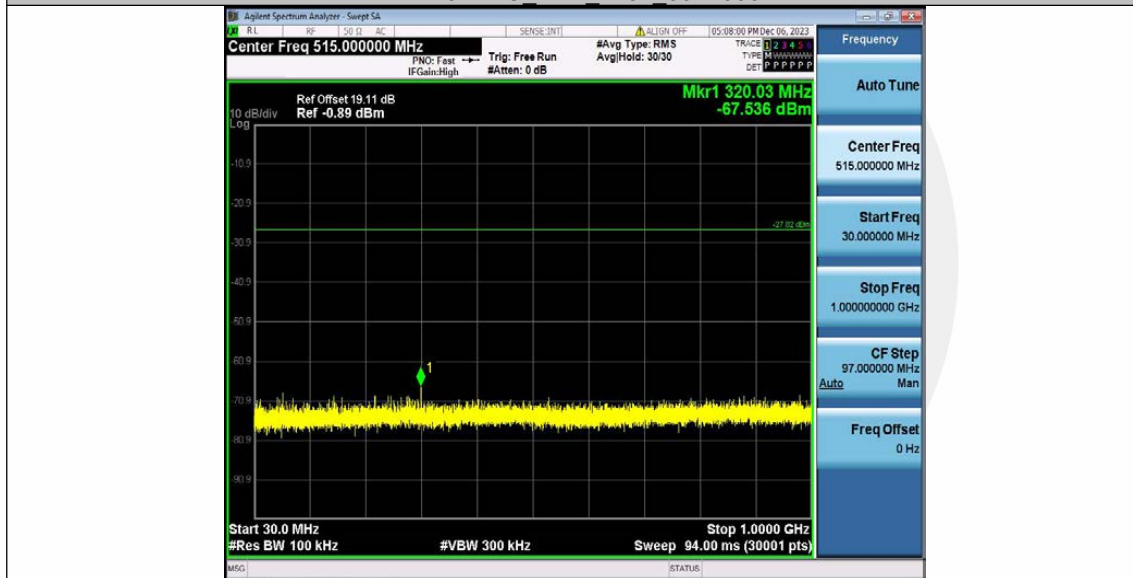






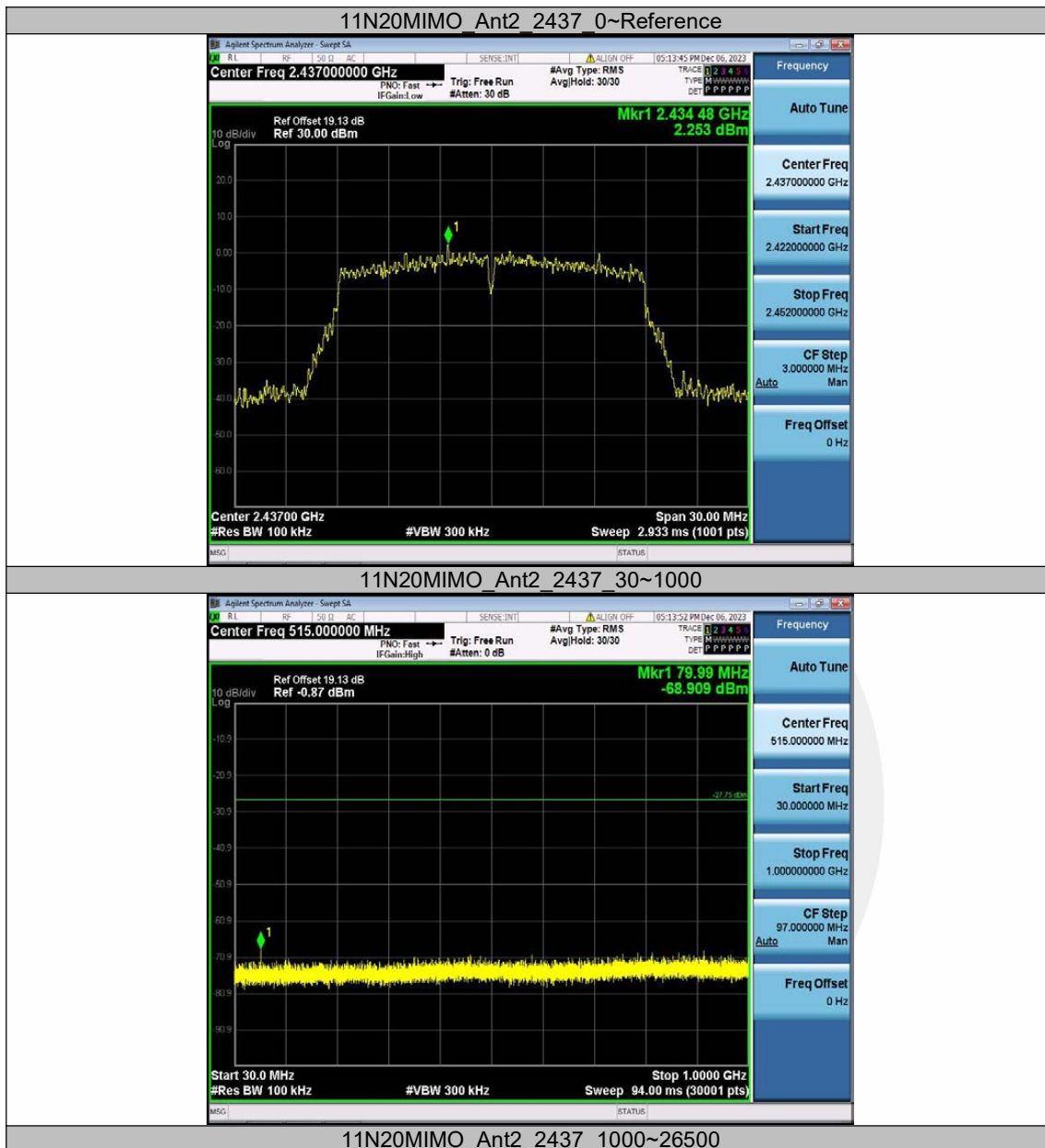


11N20MIMO Ant1 2437 30~1000



11N20MIMO Ant1 2437 1000~26500



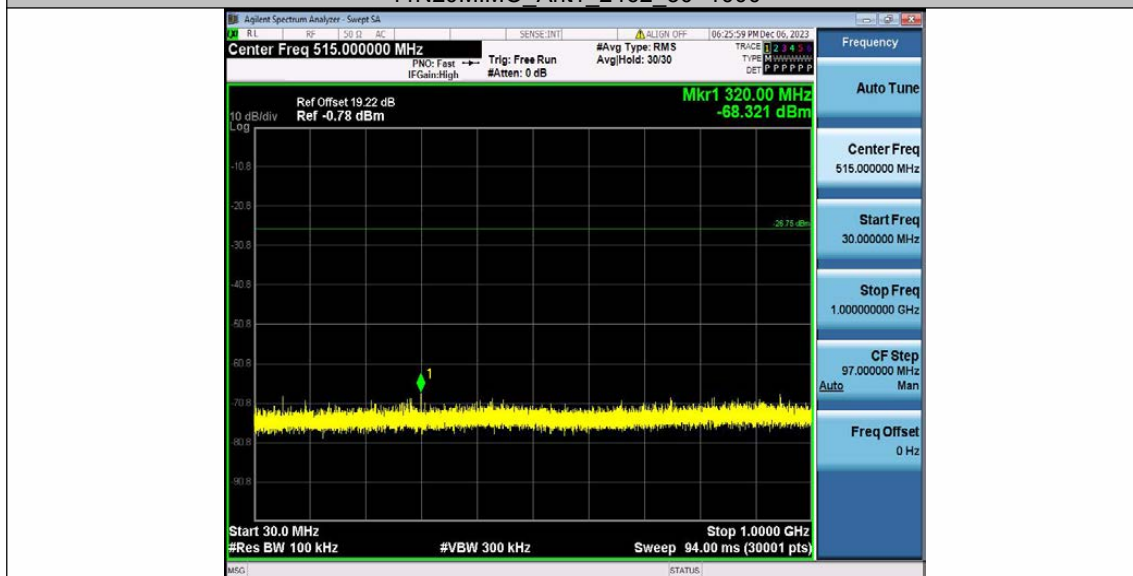


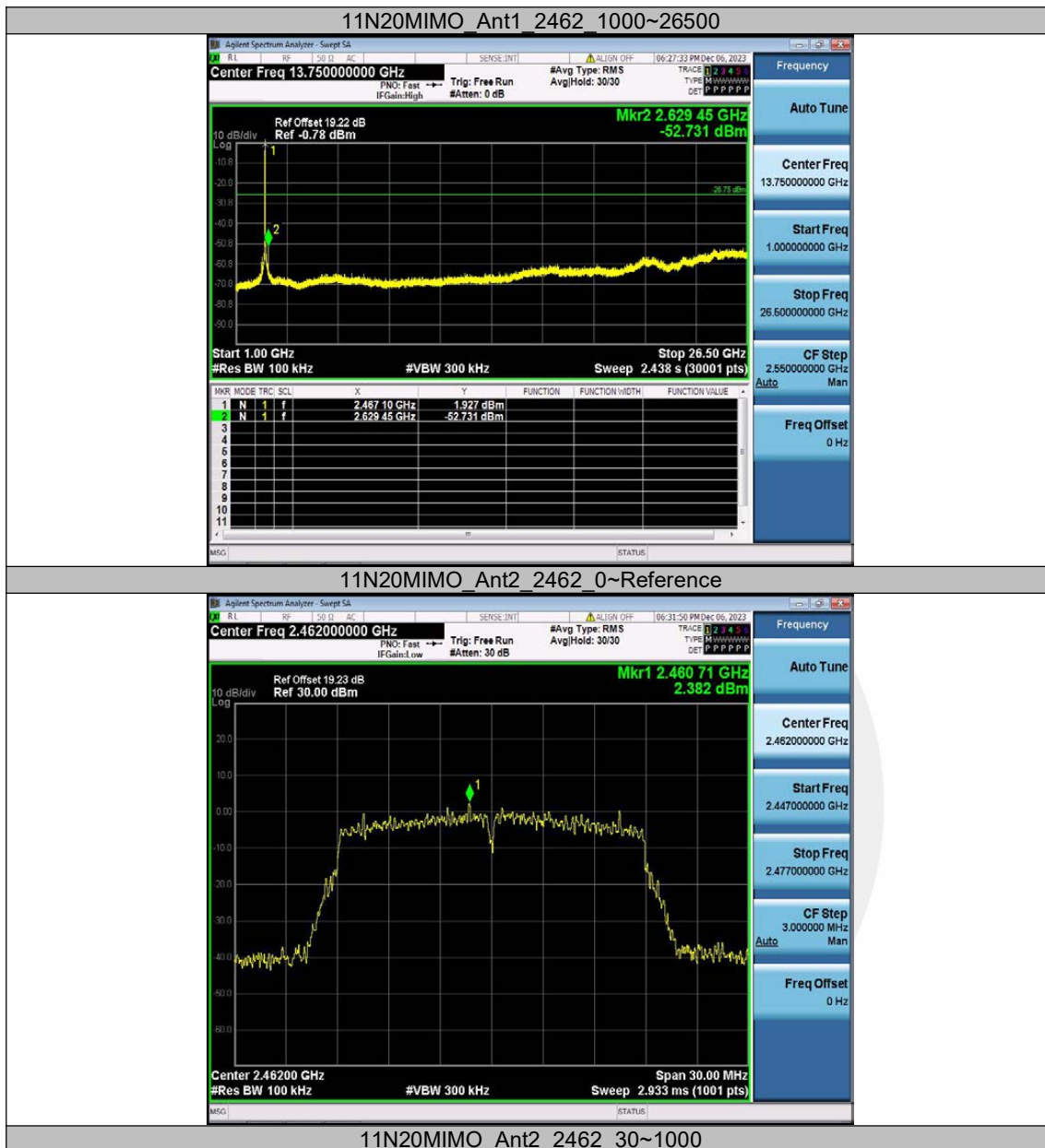


11N20MIMO\_Ant1\_2462\_0~Reference

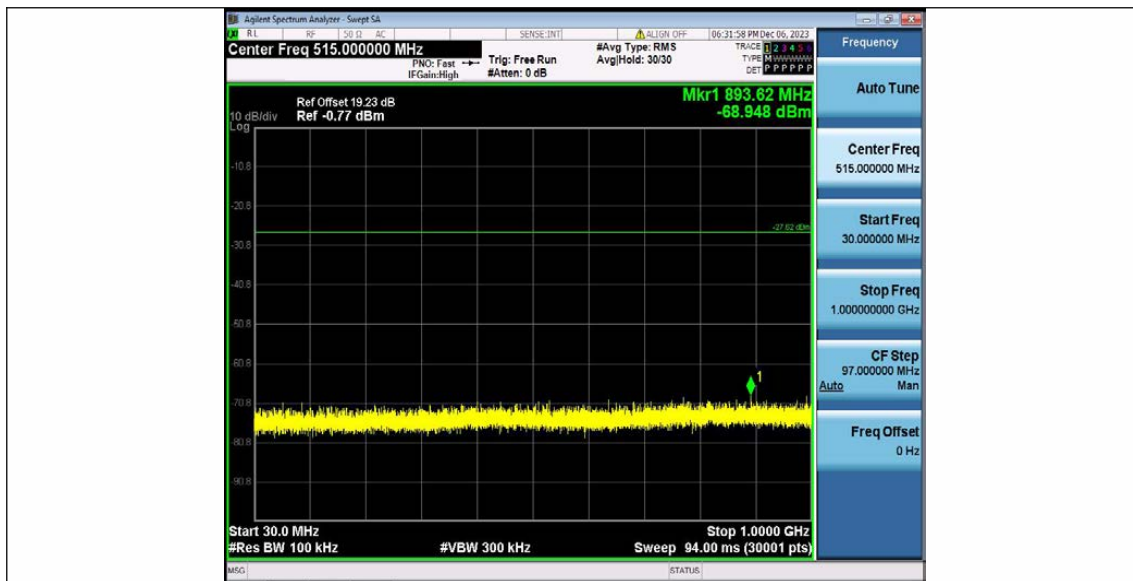


11N20MIMO\_Ant1\_2462\_30~1000







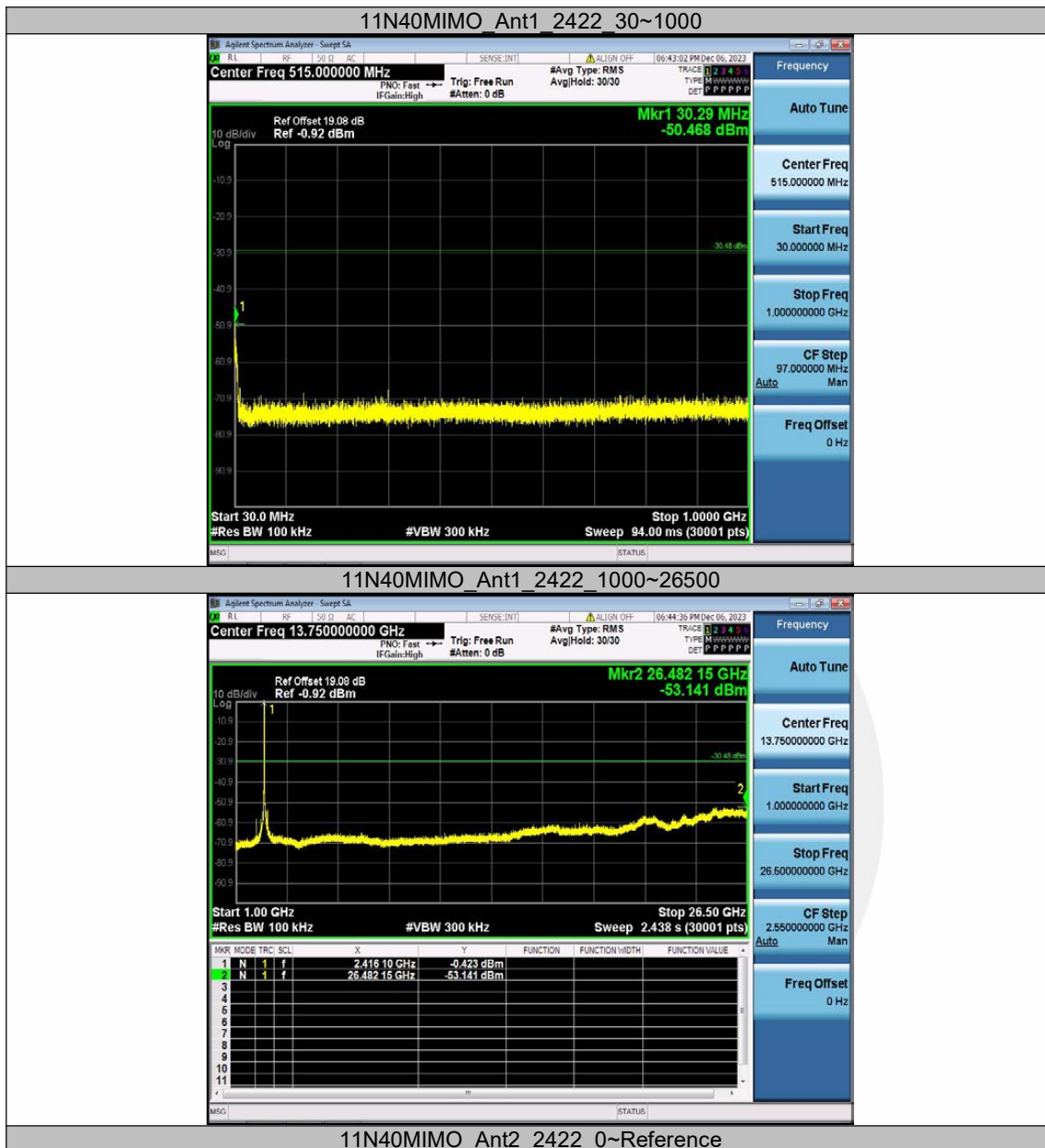


11N20MIMO Ant2 2462 1000~26500



11N40MIMO Ant1 2422 0~Reference





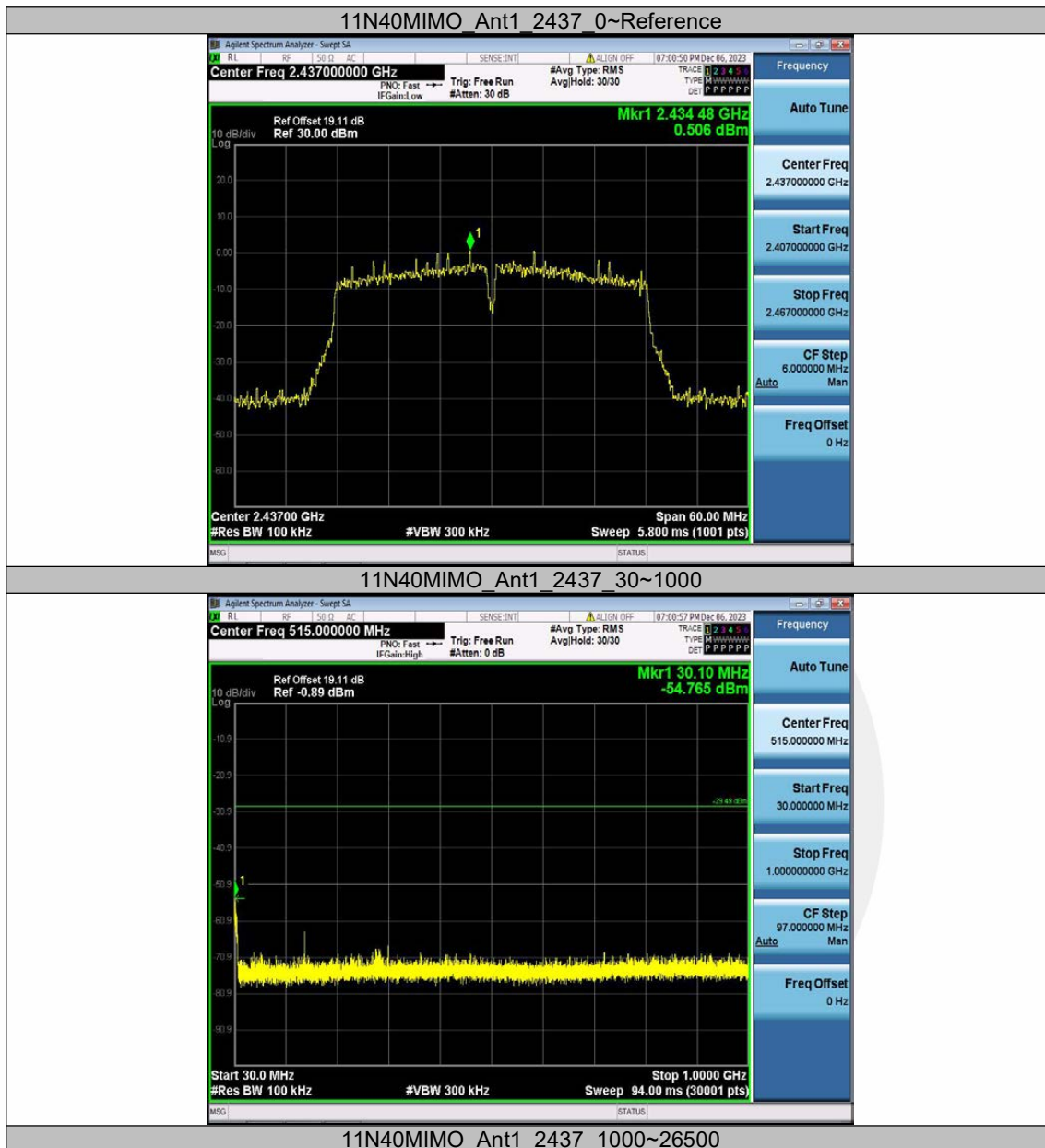


11N40MIMO Ant2 2422 30~1000



11N40MIMO Ant2 2422 1000~26500





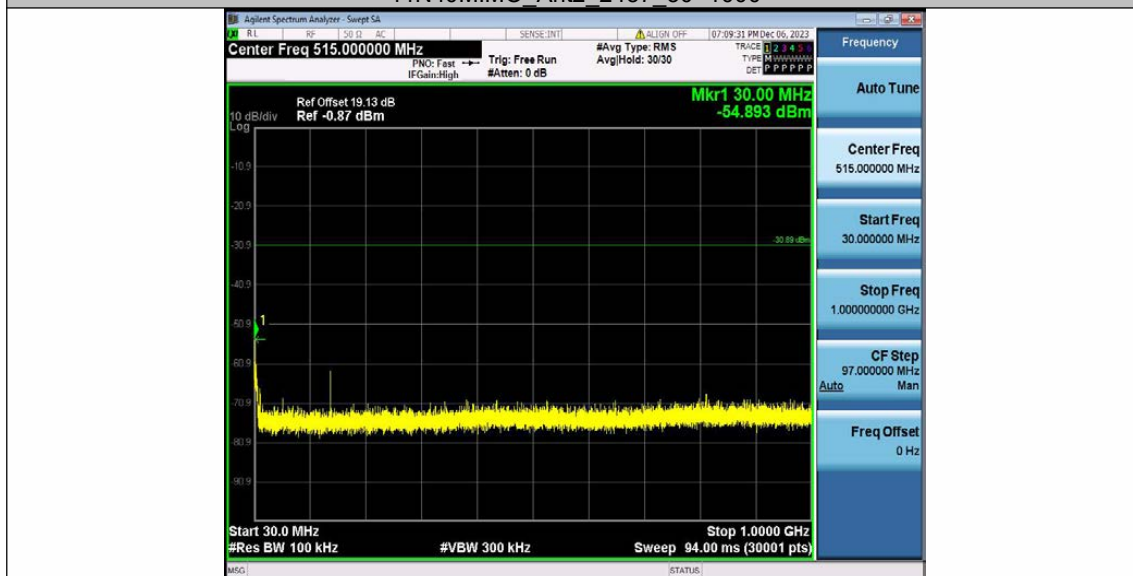


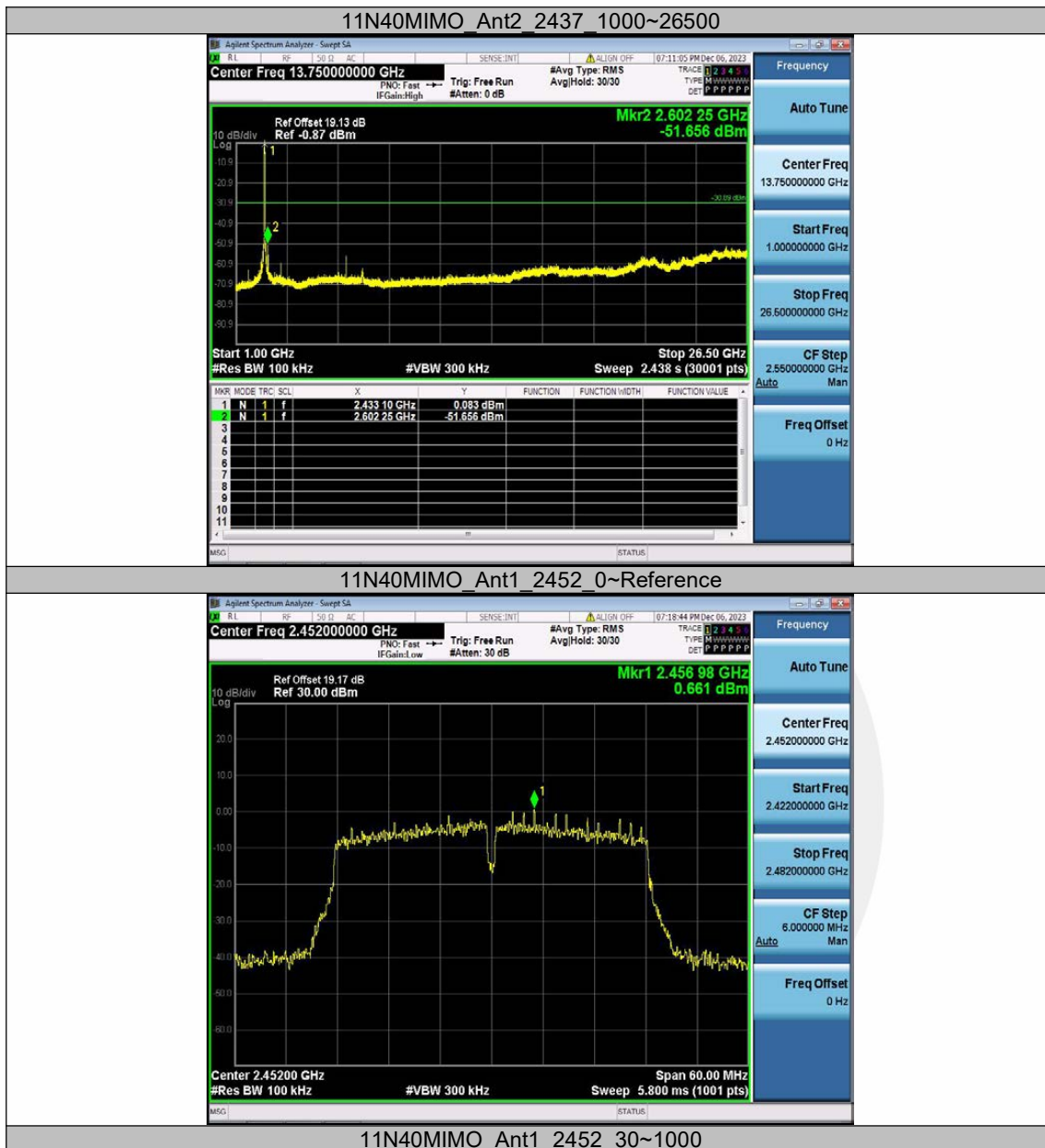


11N40MIMO\_Ant2\_2437\_0~Reference



11N40MIMO\_Ant2\_2437\_30~1000





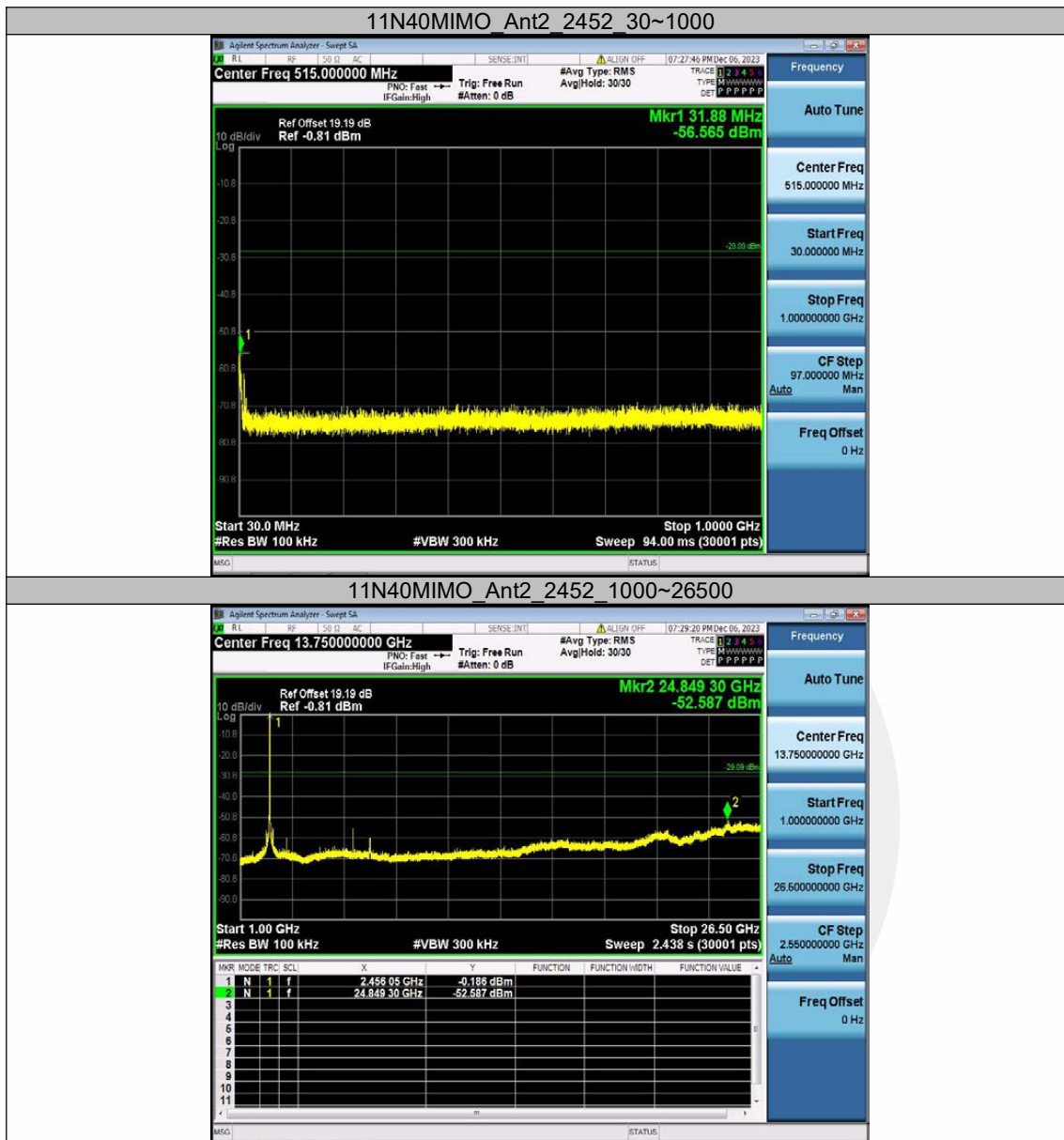


11N40MIMO Ant1 2452 1000~26500



11N40MIMO Ant2 2452 0~Reference







## 7.5 RADIATED EMISSION

### 7.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02.

### 7.5.2 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 ( $\mu\text{V}/\text{m}$ )	Field Strength ( $\text{dB}\mu\text{V}/\text{m}$ )	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ( $\mu\text{V}/\text{m}$ )	300
0.490-1.705	24000/F(KHz)	20 log ( $\mu\text{V}/\text{m}$ )	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

### 7.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2.

### 7.5.4 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  $\geq$  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.  
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.

#### 7.5.5 Test Results

Temperature :	25 °C	ATM Pressure:	1011 mbar
Humidity :	60 %	Test Engineer:	HZB

All of the configurations or modes are tested, the data of the worst case is recorded as below.

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

Temperature: 28.1°C                      Test By: HZB  
 Humidity: 43%

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

Note: Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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

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

Highest gain of each antenna and highest output power is ANT2 and MIMO as below:

ANT2:

Test mode: 802.11n(20)                      Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
13213.125	V	61.60	74.00	12.40	peak
14636.25	V	62.86	74.00	11.14	peak
17628.75	V	67.50	74.00	6.50	peak
13213.125	V	50.17	54.00	3.83	AVG
14636.25	V	47.38	54.00	6.62	AVG
17628.75	V	46.21	54.00	7.79	AVG
11542.5	H	60.24	74.00	13.76	peak
14675.625	H	62.47	74.00	11.53	peak
17608.125	H	67.11	74.00	6.89	peak
11542.5	H	46.46	54.00	7.54	AVG
14675.625	H	45.54	54.00	8.46	AVG
17608.125	H	47.38	54.00	6.62	AVG

Test mode: 802.11n(20)                      Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11501.25	V	60.51	74.00	13.49	peak
14551.875	V	63.24	74.00	10.76	peak
17608.125	V	67.96	74.00	6.04	peak
11501.25	V	47.01	54.00	6.99	AVG
14551.875	V	46.79	54.00	7.21	AVG
17608.125	V	47.38	54.00	6.62	AVG
11520	H	60.14	74.00	13.86	peak
14533.125	H	62.98	74.00	11.02	peak
17598.75	H	67.71	74.00	6.29	peak
11520	H	47.05	54.00	6.95	AVG
14533.125	H	45.24	54.00	8.76	AVG
17598.75	H	47.22	54.00	6.78	AVG

Test mode: 802.11n(20) Frequency: Channel 11: 2472MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11450.625	V	60.41	74.00	13.59	peak
14574.375	V	63.64	74.00	10.36	peak
17600.625	V	67.81	74.00	6.19	peak
11450.625	V	46.64	54.00	7.36	AVG
14574.375	V	46.57	54.00	7.43	AVG
17600.625	V	47.65	54.00	6.35	AVG
10111.875	H	57.66	74.00	16.34	peak
14606.25	H	63.92	74.00	10.08	peak
17606.25	H	67.78	74.00	6.22	peak
10111.875	H	44.57	54.00	9.43	AVG
14606.25	H	47.08	54.00	6.92	AVG
17606.25	H	47.03	54.00	6.97	AVG

MIMO:

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
13211.735	V	61.47	74.00	12.53	peak
14634.860	V	62.7	74.00	11.3	peak
17630.030	V	67.47	74.00	6.53	peak
13214.405	V	50.15	54.00	3.85	AVG
14634.000	V	47.12	54.00	6.88	AVG
17626.500	V	46.02	54.00	7.98	AVG
11554.190	H	60.16	74.00	13.84	peak
14687.315	H	62.26	74.00	11.74	peak
17619.815	H	66.95	74.00	7.05	peak
11554.190	H	46.32	54.00	7.68	AVG
14672.315	H	45.36	54.00	8.64	AVG
17604.815	H	47.25	54.00	6.75	AVG

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11499.860	V	60.38	74.00	13.62	peak
14550.485	V	63.08	74.00	10.92	peak
17609.405	V	67.93	74.00	6.07	peak
11502.530	V	46.99	54.00	7.01	AVG
14549.625	V	46.53	54.00	7.47	AVG
17605.875	V	47.19	54.00	6.81	AVG
11531.690	H	60.06	74.00	13.94	peak
14544.815	H	62.77	74.00	11.23	peak
17610.440	H	67.55	74.00	6.45	peak
11531.690	H	46.91	54.00	7.09	AVG
14529.815	H	45.06	54.00	8.94	AVG
17595.440	H	47.09	54.00	6.91	AVG



Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
11449.235	V	60.28	74.00	13.72	peak
14572.985	V	63.48	74.00	10.52	peak
17601.905	V	67.78	74.00	6.22	peak
11451.905	V	46.62	54.00	7.38	AVG
14572.125	V	46.31	54.00	7.69	AVG
17598.375	V	47.46	54.00	6.54	AVG
10123.565	H	57.58	74.00	16.42	peak
14617.940	H	63.71	74.00	10.29	peak
17617.940	H	67.62	74.00	6.38	peak
10123.565	H	44.43	54.00	9.57	AVG
14602.940	H	46.9	54.00	7.1	AVG
17602.940	H	46.9	54.00	7.1	AVG

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
  - (2) Emission Level= Reading Level+Correct Factor.
  - (3) Correct Factor= Ant\_F + Cab\_L - Preamp
  - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2327.81	V	45.74	74.00	28.26	peak
2327.81	V	42.94	54.00	11.06	AVG
2351.48	H	45.85	74.00	28.15	peak
2351.48	H	43.17	54.00	10.83	AVG

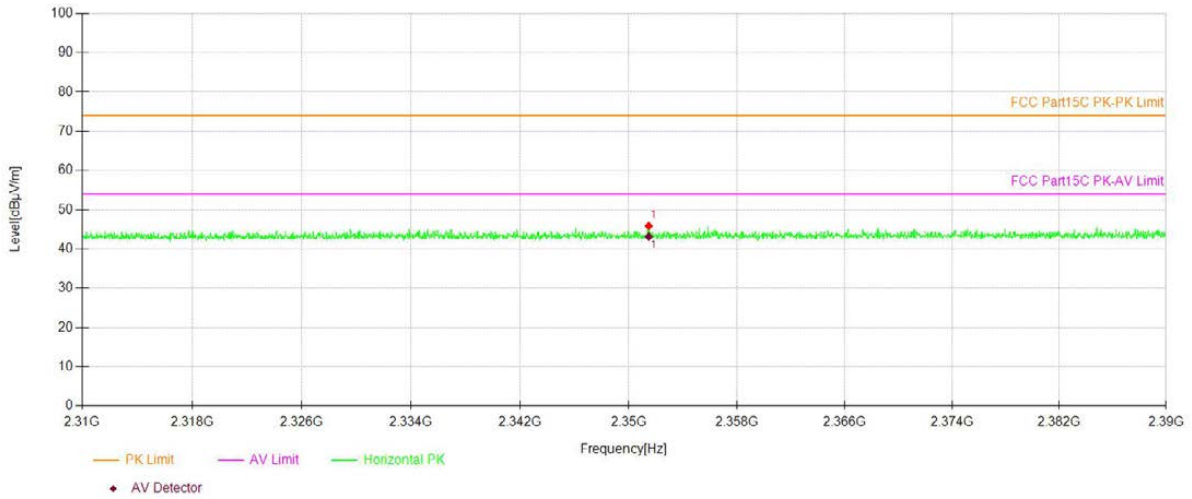
Test mode: 802.11n(20) Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2487.09	V	46.43	74.00	27.57	peak
2487.09	V	43.58	54.00	10.42	AVG
2485.68	H	47.07	74.00	26.93	peak
2485.68	H	43.37	54.00	10.63	AVG

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
  - (2) Emission Level= Reading Level+Correct Factor.
  - (3) Correct Factor= Ant\_F + Cab\_L - Preamp
  - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

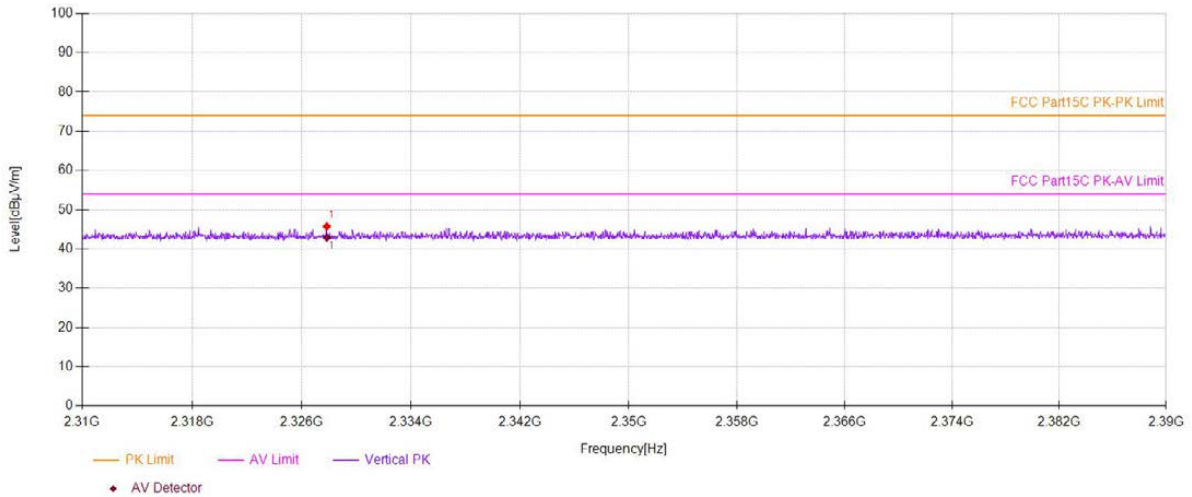
**Spurious Emission in Restricted Band 2310-2390MHz**

Test Model     802.11b     802.11g     802.11n(HT20)     802.11n(HT40)  
 Channel 1:2412MHz     Channel 3: 2422MHz    Polarity: H  
 VBW=3MHz



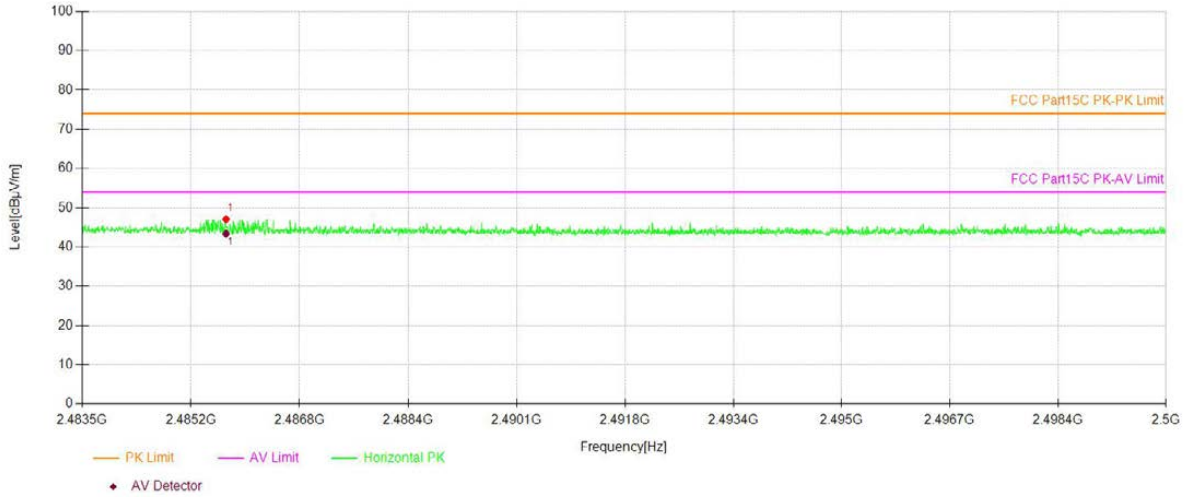
**Spurious Emission in Restricted Band 2310-2390MHz**

Test Model     802.11b     802.11g     802.11n(HT20)     802.11n(HT40)  
 Channel 1:2412MHz     Channel 3: 2422MHz    Polarity: V  
 VBW=3MHz



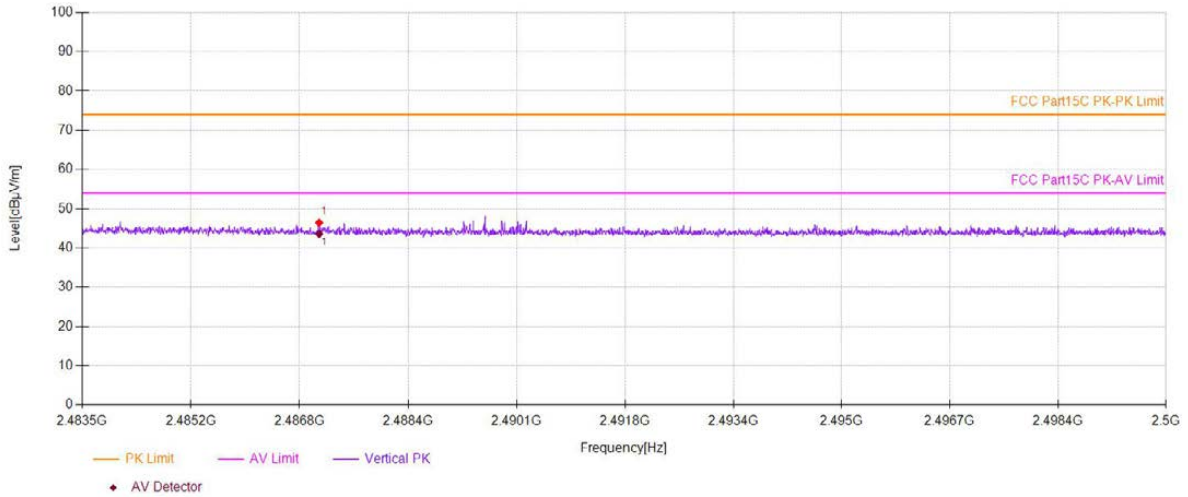
**Spurious Emission in Restricted Band 2483.5-2500MHz**

Test Model  802.11b  802.11g  802.11n(HT20)  802.11n(HT40)  
 Channel 11: 2462MHz  Channel 9: 2452MHz Polarity: H  
 VBW=3MHz



**Spurious Emission in Restricted Band 2483.5-2500MHz**

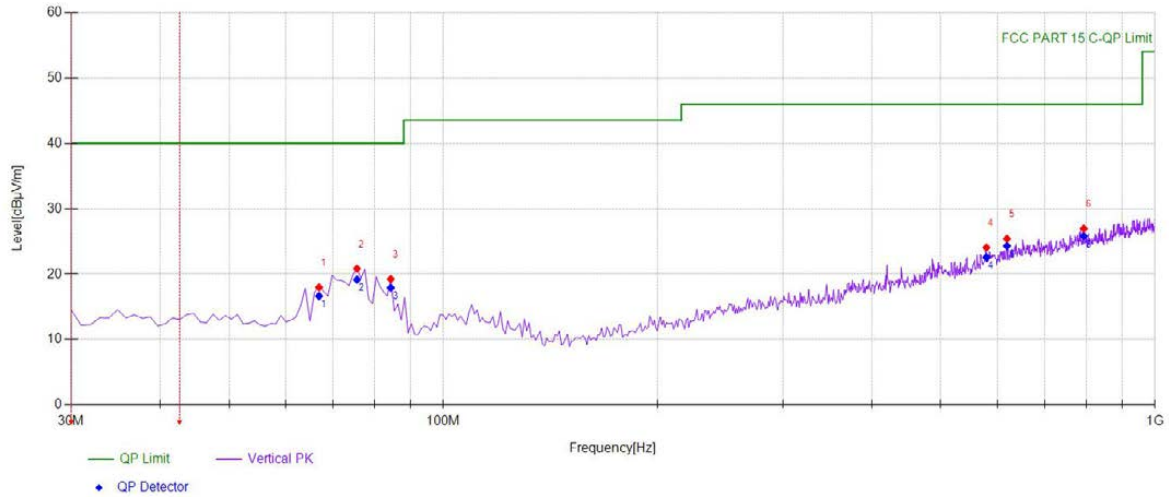
Test Model  802.11b  802.11g  802.11n(HT20)  802.11n(HT40)  
 Channel 11: 2462MHz  Channel 9: 2452MHz Polarity: V  
 VBW=3MHz



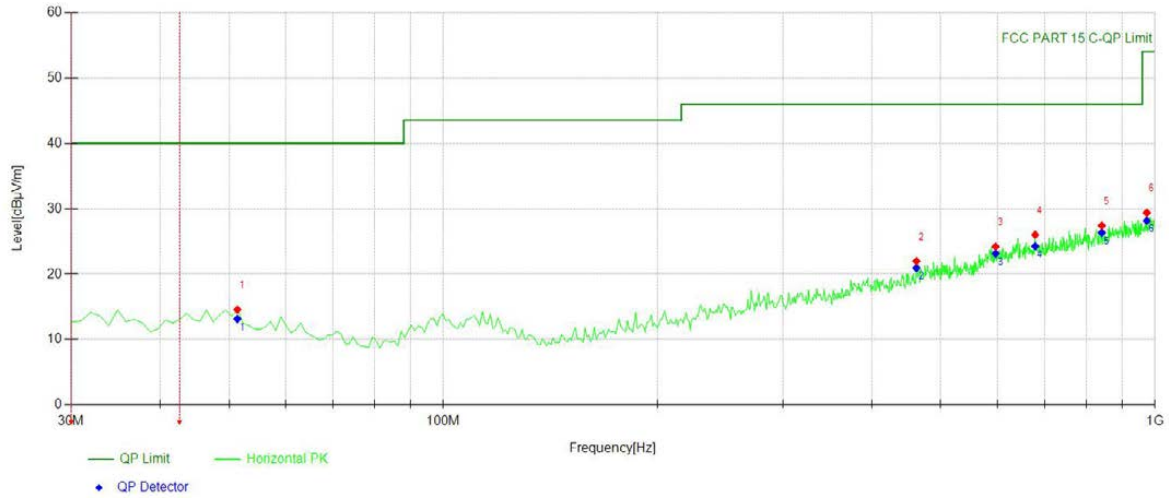


■ Spurious Emission below 1GHz (30MHz to 1GHz)

Test mode: 802.11n(20) Frequency: Channel 1: 2412MHz

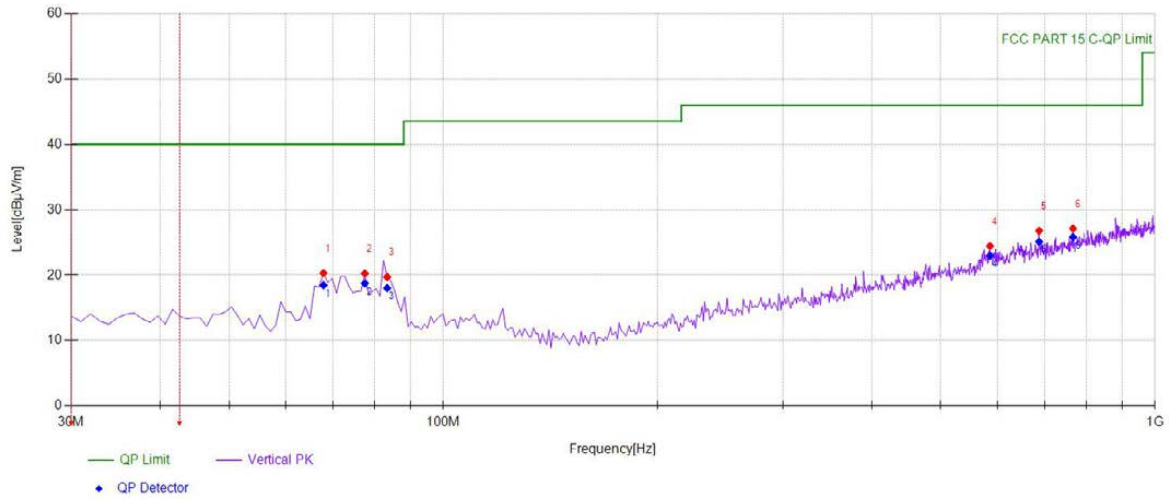


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	66.8969	37.51	-19.53	17.98	PK	40.00	22.02	Vertical
2	75.6356	41.67	-20.83	20.84	PK	40.00	19.16	Vertical
3	84.3744	39.72	-20.47	19.25	PK	40.00	20.75	Vertical
4	579.569	31.24	-7.18	24.06	PK	46.00	21.94	Vertical
5	619.379	32.55	-7.12	25.43	PK	46.00	20.57	Vertical
6	794.154	31.43	-4.48	26.95	PK	46.00	19.05	Vertical

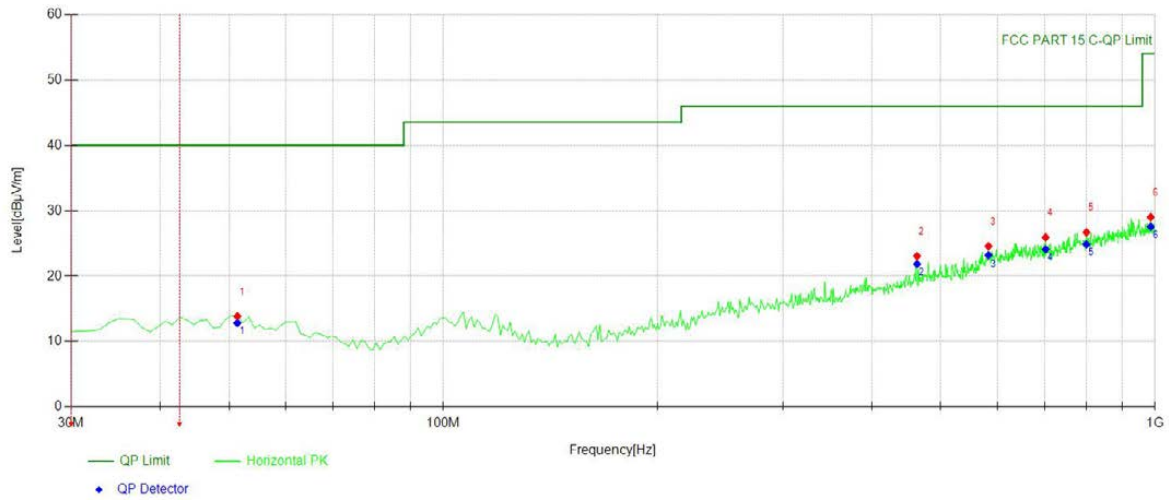


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	51.3614	31.96	-17.39	14.57	PK	40.00	25.43	Horizontal
2	462.082	32.91	-10.92	21.99	PK	46.00	24.01	Horizontal
3	597.047	31.34	-7.14	24.20	PK	46.00	21.80	Horizontal
4	678.608	32.13	-6.10	26.03	PK	46.00	19.97	Horizontal
5	841.731	31.25	-3.85	27.40	PK	46.00	18.60	Horizontal
6	973.783	31.32	-1.94	29.38	PK	54.00	24.62	Horizontal

Test mode: 802.11n(20) Frequency: Channel 6: 2437MHz



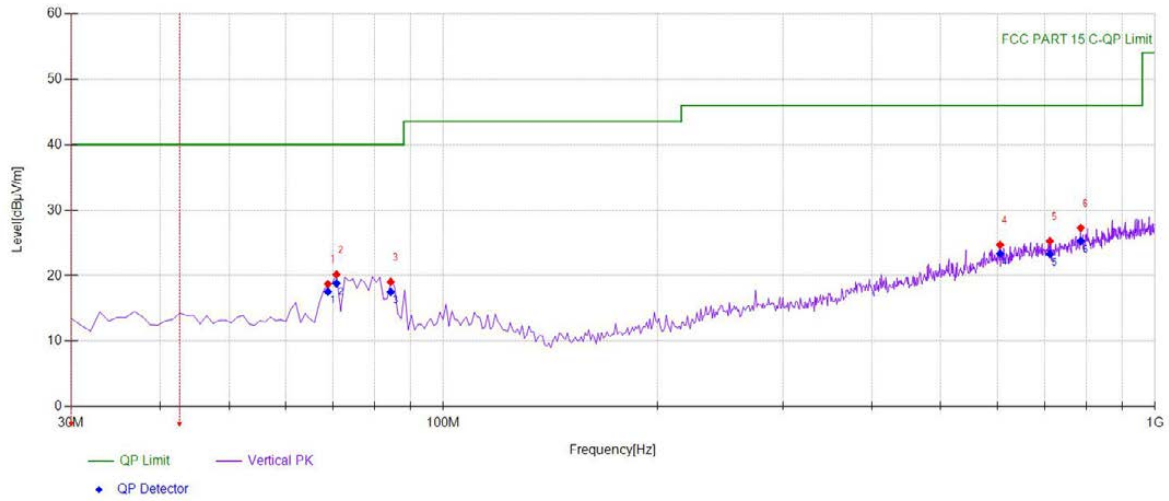
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	67.8679	39.98	-19.66	20.32	PK	40.00	19.68	Vertical
2	77.5776	41.37	-21.12	20.25	PK	40.00	19.75	Vertical
3	83.4034	40.42	-20.70	19.72	PK	40.00	20.28	Vertical
4	586.366	31.60	-7.14	24.46	PK	46.00	21.54	Vertical
5	687.347	32.82	-6.05	26.77	PK	46.00	19.23	Vertical
6	766.967	32.23	-5.10	27.13	PK	46.00	18.87	Vertical



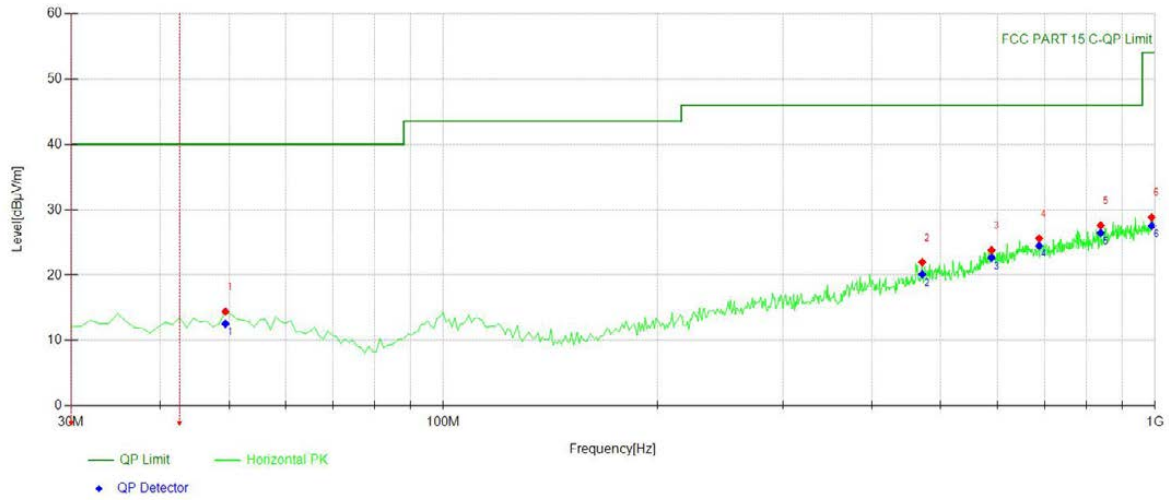
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	51.3614	31.27	-17.39	13.88	PK	40.00	26.12	Horizontal
2	463.053	33.90	-10.85	23.05	PK	46.00	22.95	Horizontal
3	583.453	31.72	-7.14	24.58	PK	46.00	21.42	Horizontal
4	701.911	31.86	-5.92	25.94	PK	46.00	20.06	Horizontal
5	800.951	31.11	-4.41	26.70	PK	46.00	19.30	Horizontal
6	986.406	30.76	-1.73	29.03	PK	54.00	24.97	Horizontal



Test mode: 802.11n(20)      Frequency:      Channel 11: 2462MHz



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	68.8388	38.54	-19.80	18.74	PK	40.00	21.26	Vertical
2	70.7808	40.27	-20.08	20.19	PK	40.00	19.81	Vertical
3	84.3744	39.53	-20.47	19.06	PK	40.00	20.94	Vertical
4	605.785	31.81	-7.11	24.70	PK	46.00	21.30	Vertical
5	711.621	31.12	-5.84	25.28	PK	46.00	20.72	Vertical
6	786.386	31.84	-4.56	27.28	PK	46.00	18.72	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	49.4194	31.69	-17.25	14.44	PK	40.00	25.56	Horizontal
2	470.820	32.36	-10.37	21.99	PK	46.00	24.01	Horizontal
3	589.279	30.95	-7.14	23.81	PK	46.00	22.19	Horizontal
4	687.347	31.67	-6.05	25.62	PK	46.00	20.38	Horizontal
5	838.818	31.49	-3.89	27.60	PK	46.00	18.40	Horizontal
6	989.319	30.55	-1.71	28.84	PK	54.00	25.16	Horizontal

## 7.6 CONDUCTED EMISSION TEST

### 7.6.1 Applicable Standard

According to IC RSS-Gen 8.8

### 7.6.2 Conformance Limit

FCC Part 15, Subpart B, Class B

Conducted Emission Limit		
Frequency(MHz)	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.

### 7.6.3 Test Configuration

Test according to clause 6.3 conducted emission test setup 3.

### 7.6.4 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.

### 7.6.5 Test Results

**N/A**

N/A means not applicable, since the sample is DC 5V power supply.

## 7.7 ANTENNA APPLICATION

### 7.7.1 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 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..

### 7.7.2 Result

#### PASS

Temperature : 25°C                      ATM Pressure: 1011 mbar  
 Humidity : 60 %                      Test Engineer: XXH

The EUT is PCB Antenna, the antenna gain as below:  
 Ant1: 1.91dBi, Ant2: 2.47dBi

- Antenna uses 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).

Which in accordance to section 15.203, please refer to the internal photos.

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 ---



# 声明

## Statement

1. 本报告无授权批准人签字及“检验检测专用章”无效。

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

2. 未经许可本报告不得部分复制。

This report shall not be copied partly without authorization.

3. 本报告的检测结果仅对送测样品有效，委托方对样品的代表性和资料的真实性负责。

The test results or observations are applicable only to tested sample. Client shall be responsible for representativeness of the sample and authenticity of the material.

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The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

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Objections shall be raised within 20 days from the date receiving the report.