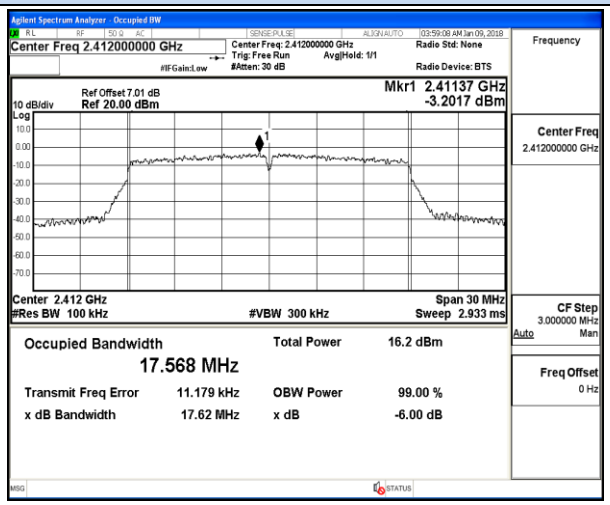
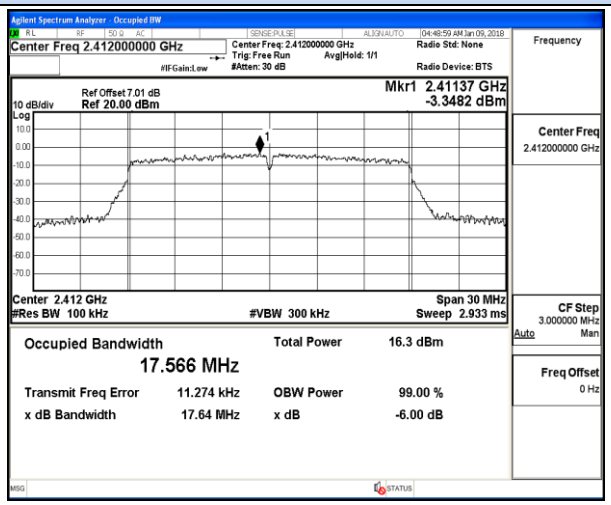
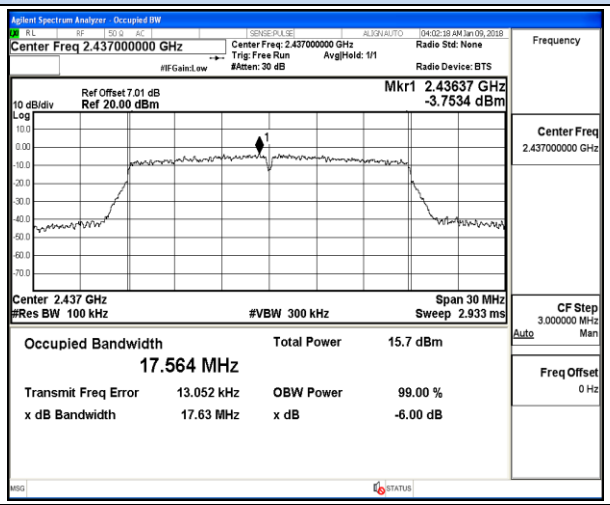
Test plot of 6 dB Bandwidth



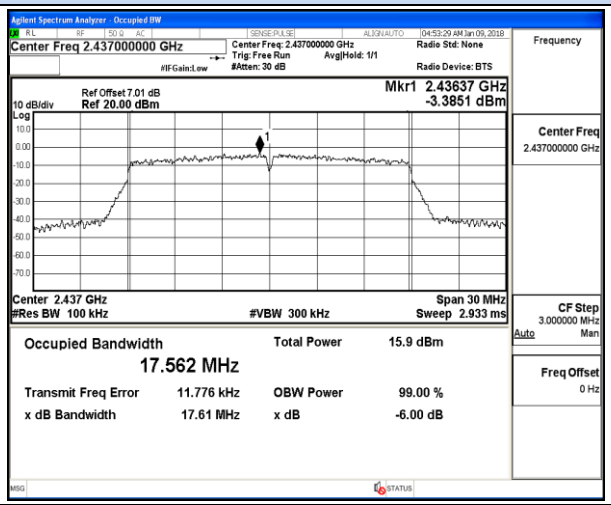
802.11n-HT20 Chain 0-Low channel



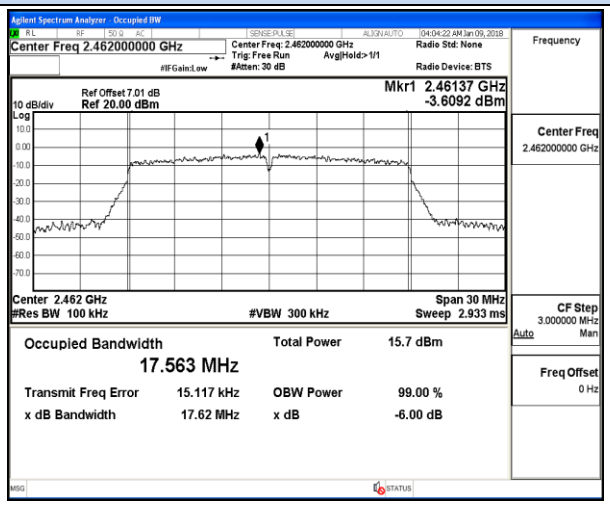
802.11n-HT20 Chain 1-Low channel



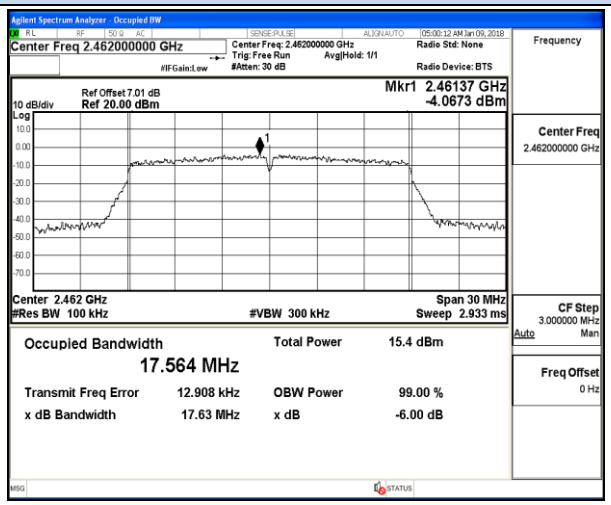
802.11n-HT20 Chain 0-Middle channel



802.11n-HT20 Chain 1-Middle channel

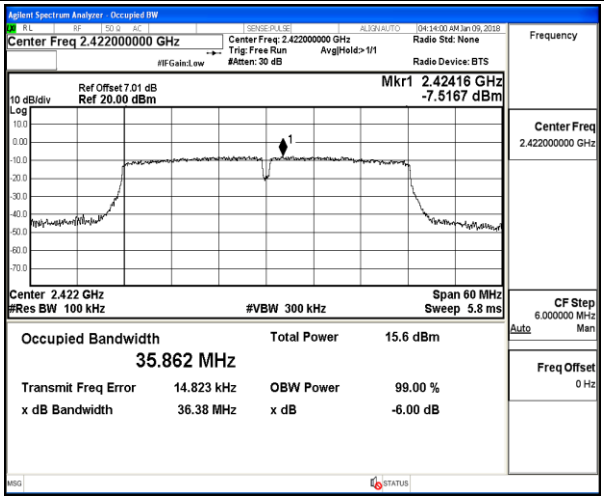


802.11n-HT20 Chain 0-High channel

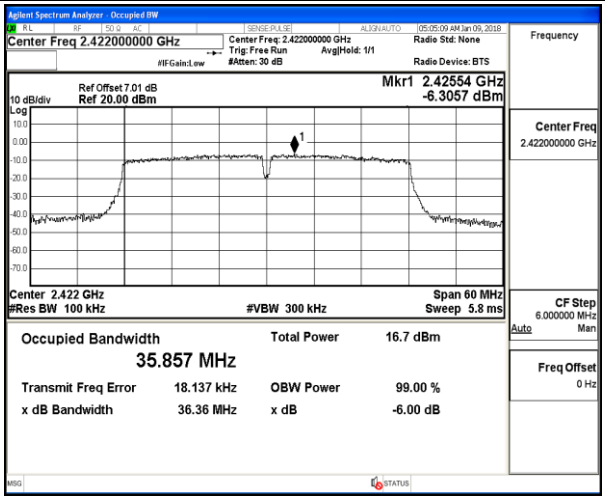


802.11n-HT20 Chain 1-High channel

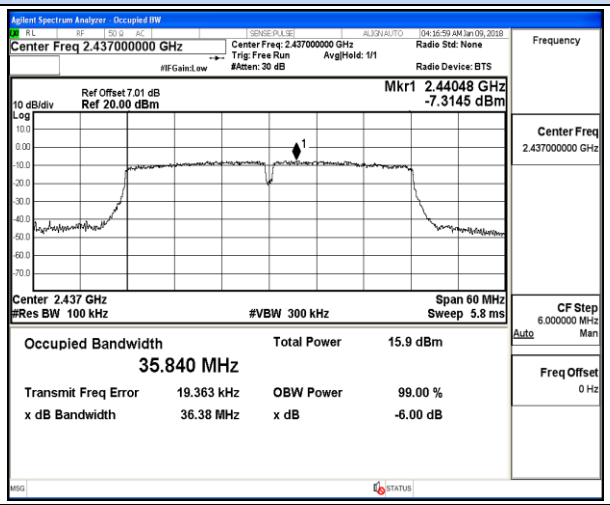
Test plot of 6 dB Bandwidth



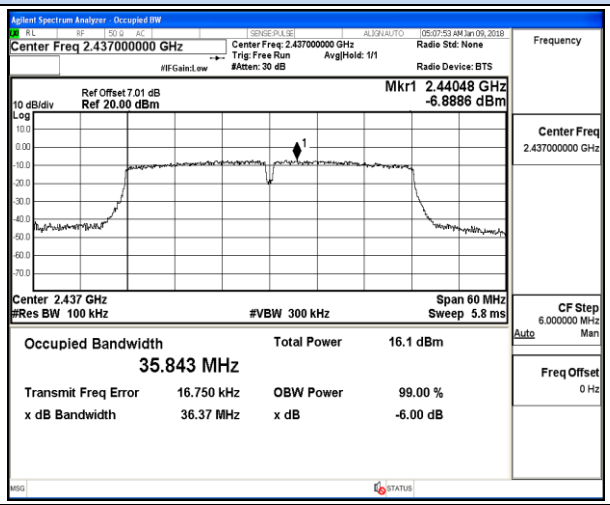
802.11n-HT40 Chain 0-Low channel



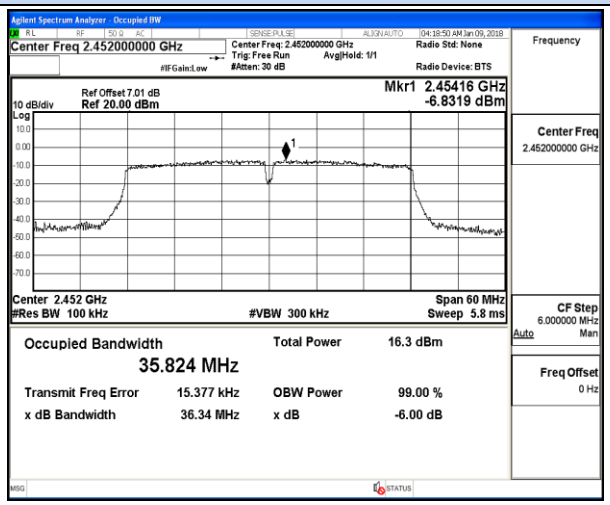
802.11n-HT40 Chain 1-Low channel



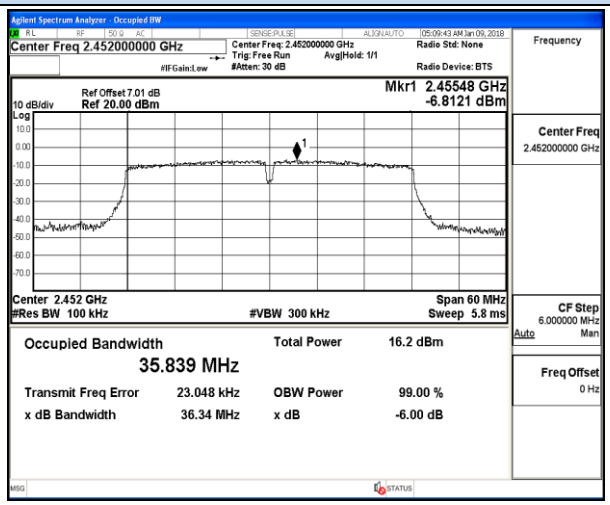
802.11n-HT40 Chain 0-Middle channel



802.11n-HT40 Chain 1-Middle channel



802.11n-HT40 Chain 0-High channel



802.11n-HT40 Chain 1-High channel

5.5. Radiated Emissions Measurement

5.5.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
\2\ Above 38.6

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

5.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP/AVG

5.5.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.5 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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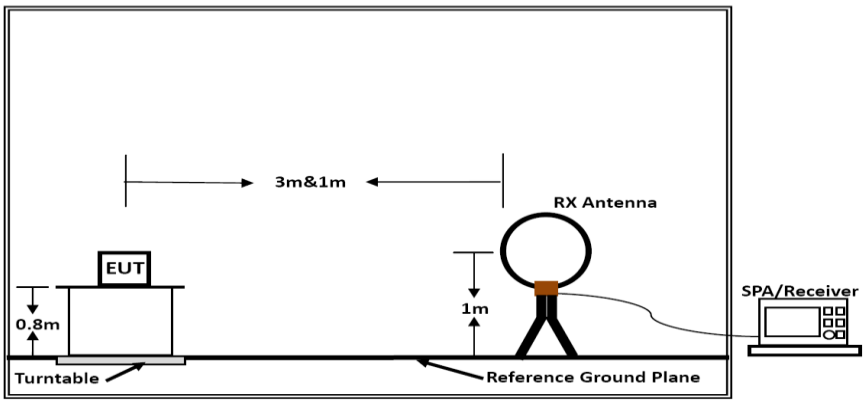
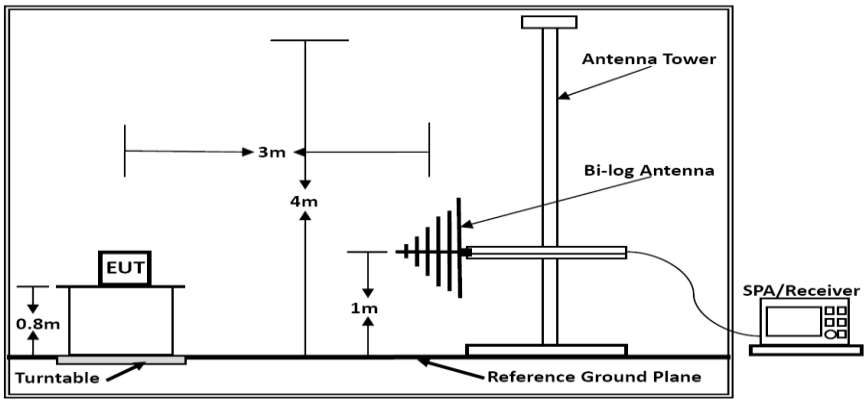
5.5.4. Test Setup Layout

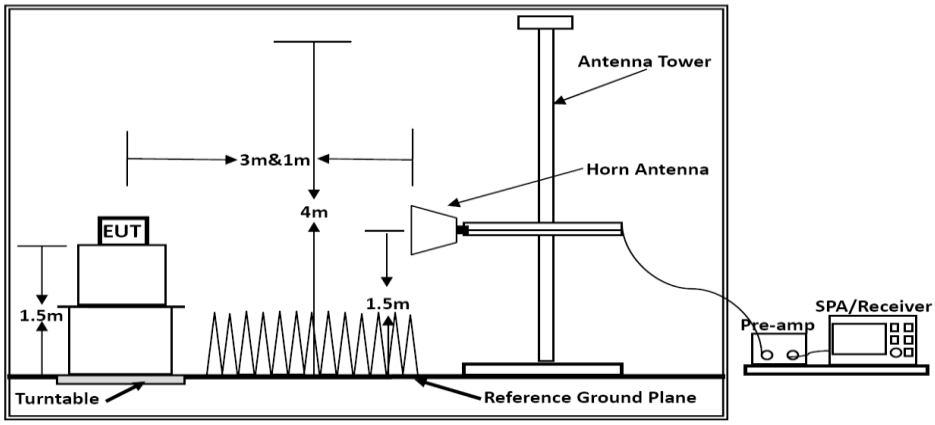
For radiated emissions below 30MHz



Below 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24.5℃	Humidity	56.2%
Test Engineer	Wilson Hong	Configurations	802.11b/g/n

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

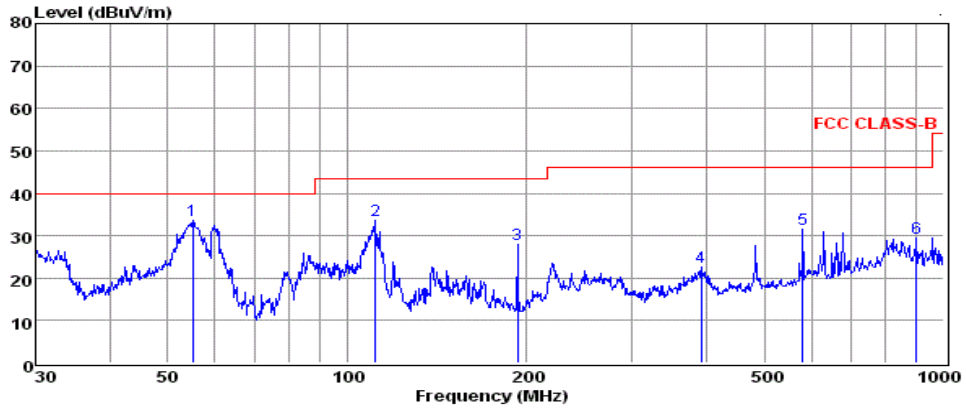
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.5.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	24.5℃	Humidity	56.2%
Test Engineer	Wilson Hong	Configurations	802.11b (High CH)

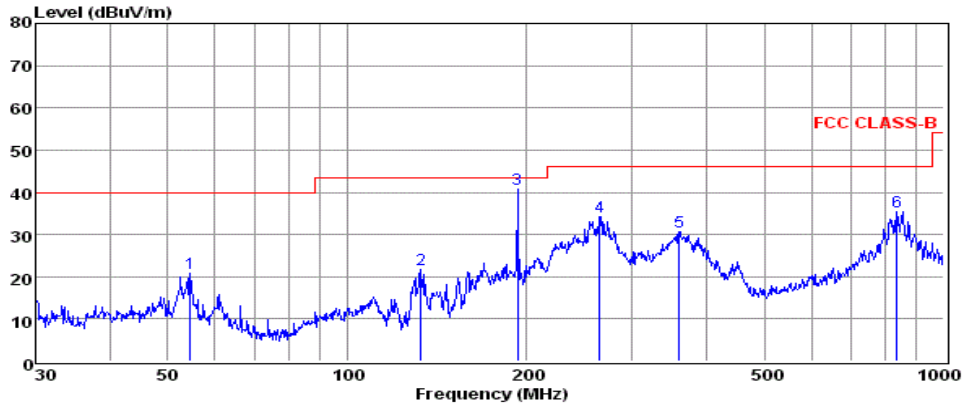
Test worst result for 802.11b (High Channel) @Chain 0



pol: VERTICAL

	Freq MHz	Reading dBm	CabLos dB	Antfac dB/m	Measured dBm	Limit dBm	Over dB	Remark
1	55.03	20.17	0.46	13.02	33.65	40.00	-6.35	QP
2	111.35	21.12	0.61	12.01	33.74	43.50	-9.76	QP
3	193.09	16.59	0.76	10.56	27.91	43.50	-15.59	QP
4	392.10	6.44	1.20	14.87	22.51	46.00	-23.49	QP
5	580.70	12.04	1.44	18.09	31.57	46.00	-14.43	QP
6	900.15	6.55	1.88	21.09	29.52	46.00	-16.48	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported



pol: HORIZONTAL

	Freq MHz	Reading dBm	CabLos dB	Antfac dB/m	Measured dBm	Limit dBm	Over dB	Remark
1	54.45	7.31	0.46	13.05	20.82	40.00	-19.18	QP
2	132.69	12.38	0.74	8.73	21.85	43.50	-21.65	QP
3	193.09	29.46	0.76	10.56	40.78	43.50	-2.72	QP
4	264.75	21.06	1.03	12.20	34.29	46.00	-11.71	QP
5	360.45	15.11	1.18	14.43	30.72	46.00	-15.28	QP
6	836.24	13.20	1.81	20.43	35.44	46.00	-10.56	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

Note:

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11b (High Channel) @ Chain 0.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

5.5.8. Results for Radiated Emissions (Above 1GHz)

(Worst Case at Antenna Chain 0)

802.11b

Channel 1 / 2412 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	55.18	33.06	35.04	3.94	57.14	74.00	-16.86	Peak	Horizontal
4824.00	39.71	33.06	35.04	3.94	41.67	54.00	-12.33	Average	Horizontal
4824.00	58.34	33.06	35.04	3.94	60.30	74.00	-13.70	Peak	Vertical
4824.00	40.69	33.06	35.04	3.94	42.65	54.00	-11.35	Average	Vertical

Channel 6 / 2437 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	55.40	33.16	35.15	3.96	57.37	74.00	-16.63	Peak	Horizontal
4874.00	44.14	33.16	35.15	3.96	46.11	54.00	-7.89	Average	Horizontal
4874.00	60.00	33.16	35.15	3.96	61.97	74.00	-12.03	Peak	Vertical
4874.00	41.87	33.16	35.15	3.96	43.84	54.00	-10.16	Average	Vertical

Channel 11 / 2462 MHz

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	53.66	33.26	35.14	3.98	55.76	74.00	-18.24	Peak	Horizontal
4924.00	43.15	33.26	35.14	3.98	45.25	54.00	-8.75	Average	Horizontal
4924.00	59.19	33.26	35.14	3.98	61.29	74.00	-12.71	Peak	Vertical
4924.00	40.64	33.26	35.14	3.98	42.74	54.00	-11.26	Average	Vertical

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(Worst Case at Antenna Chain 0)

802.11g

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	55.30	33.06	35.04	3.94	57.26	74.00	-16.74	Peak	Horizontal
4824.00	40.12	33.06	35.04	3.94	42.08	54.00	-11.92	Average	Horizontal
4824.00	58.52	33.06	35.04	3.94	60.48	74.00	-13.52	Peak	Vertical
4824.00	40.15	33.06	35.04	3.94	42.11	54.00	-11.89	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	55.20	33.16	35.15	3.96	57.17	74.00	-16.83	Peak	Horizontal
4874.00	44.84	33.16	35.15	3.96	46.81	54.00	-7.19	Average	Horizontal
4874.00	59.64	33.16	35.15	3.96	61.61	74.00	-12.39	Peak	Vertical
4874.00	42.46	33.16	35.15	3.96	44.43	54.00	-9.57	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	52.49	33.26	35.14	3.98	54.59	74.00	-19.41	Peak	Horizontal
4924.00	43.36	33.26	35.14	3.98	45.46	54.00	-8.54	Average	Horizontal
4924.00	58.77	33.26	35.14	3.98	60.87	74.00	-13.13	Peak	Vertical
4924.00	40.88	33.26	35.14	3.98	42.98	54.00	-11.02	Average	Vertical

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(Combine with Antenna Chain 0 and Antenna Chain 1)

802.11n HT20

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	55.31	33.06	35.04	3.94	57.27	74.00	-16.73	Peak	Horizontal
4824.00	42.91	33.06	35.04	3.94	44.87	54.00	-9.13	Average	Horizontal
4824.00	53.07	33.06	35.04	3.94	55.03	74.00	-18.97	Peak	Vertical
4824.00	56.68	33.06	35.04	3.94	58.64	54.00	4.64	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	59.69	33.16	35.15	3.96	61.66	74.00	-12.34	Peak	Horizontal
4874.00	43.26	33.16	35.15	3.96	45.23	54.00	-8.77	Average	Horizontal
4874.00	55.58	33.16	35.15	3.96	57.55	74.00	-16.45	Peak	Vertical
4874.00	58.06	33.16	35.15	3.96	60.03	54.00	6.03	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	60.27	33.26	35.14	3.98	62.37	74.00	-11.63	Peak	Horizontal
4924.00	41.91	33.26	35.14	3.98	44.01	54.00	-9.99	Average	Horizontal
4924.00	51.57	33.26	35.14	3.98	53.67	74.00	-20.33	Peak	Vertical
4924.00	30.22	33.26	35.14	3.98	32.32	54.00	-21.68	Average	Vertical

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802.11n HT40

Channel 3

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4844.00	58.89	33.06	35.04	3.94	60.85	74.00	-13.15	Peak	Horizontal
4844.00	44.65	33.06	35.04	3.94	46.61	54.00	-7.39	Average	Horizontal
4844.00	55.40	33.06	35.04	3.94	57.36	74.00	-16.64	Peak	Vertical
4844.00	42.83	33.06	35.04	3.94	44.79	54.00	-9.21	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	59.74	33.16	35.15	3.96	61.71	74.00	-12.29	Peak	Horizontal
4874.00	47.88	33.16	35.15	3.96	49.85	54.00	-4.15	Average	Horizontal
4874.00	56.92	33.16	35.15	3.96	58.89	74.00	-15.11	Peak	Vertical
4874.00	43.33	33.16	35.15	3.96	45.30	54.00	-8.70	Average	Vertical

Channel 9

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4904.00	57.46	33.26	35.14	3.98	59.56	74.00	-14.44	Peak	Horizontal
4904.00	43.75	33.26	35.14	3.98	45.85	54.00	-8.15	Average	Horizontal
4904.00	54.32	33.26	35.14	3.98	56.42	74.00	-17.58	Peak	Vertical
4904.00	44.49	33.26	35.14	3.98	46.59	54.00	-7.41	Average	Vertical

Notes:

1. *Measuring frequencies from 9 KHz - 10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.*
2. *Radiated emissions measured in frequency range from 9k~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.*
3. *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.*
4. *Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;*

5.6. Conducted Spurious Emissions and Band Edges Test

5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.6.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

5.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9 kHz to 26.5GHz is investigated with the transmitter set to the lowest,

middle, and highest channels.

5.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

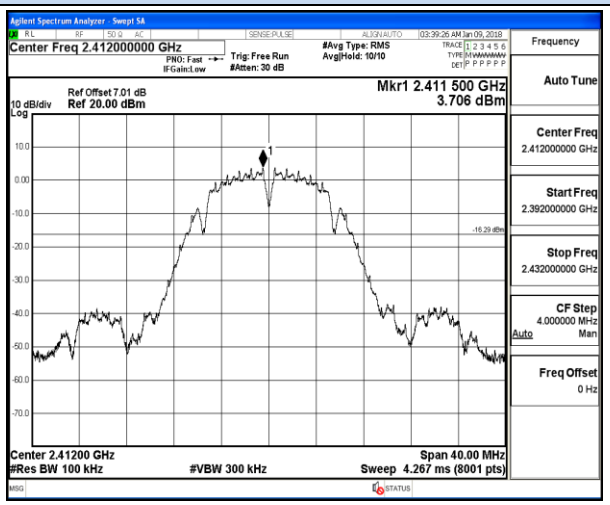
5.6.6. Test Results of Conducted Spurious Emissions

Temperature	24.5℃	Humidity	56.2%
Test Engineer	Wilson Hong	Configurations	802.11b/g/n

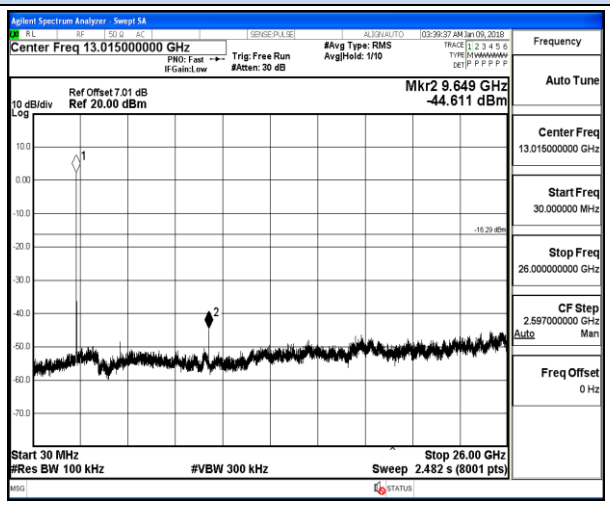
RF Conducted Spurious Emissions

IEEE 802.11b

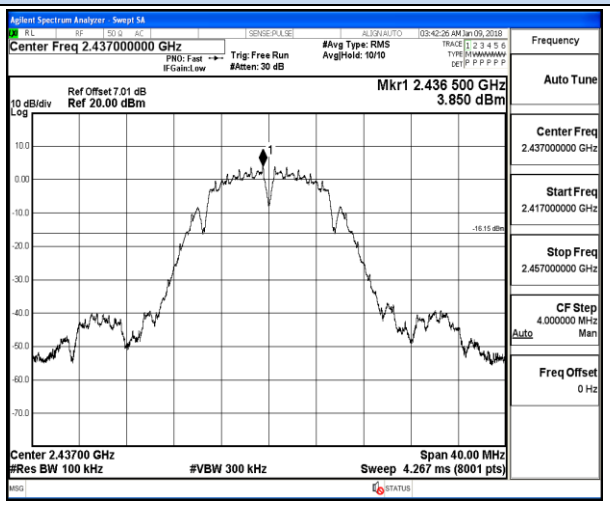
Chain 0



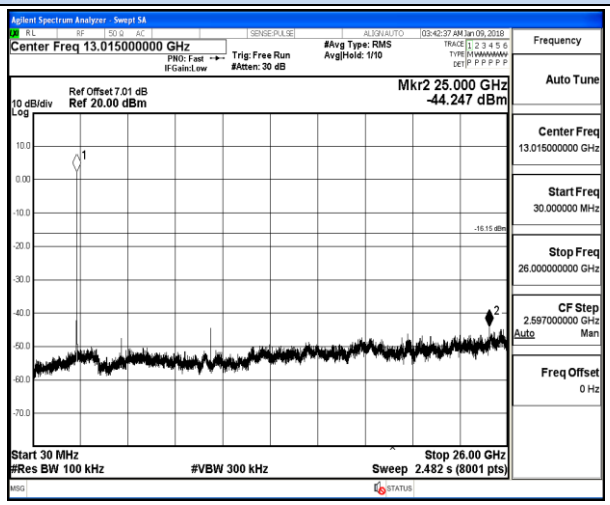
2397 MHz – 2427 MHz



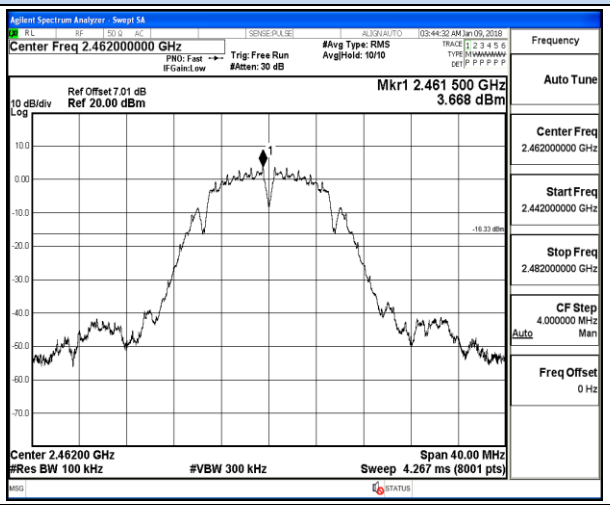
30 MHz – 26 GHz



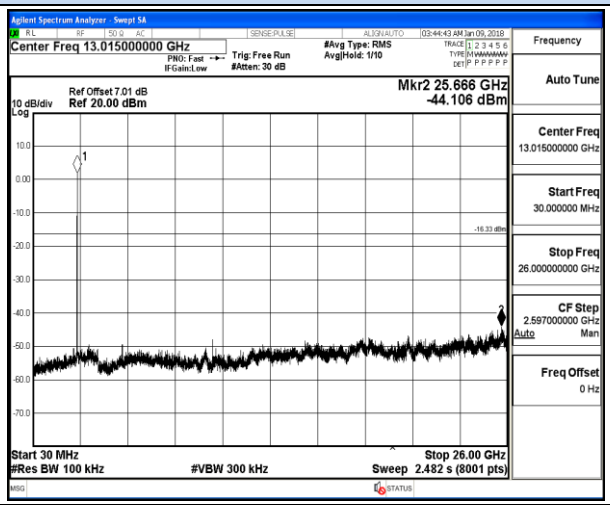
2422 MHz – 2452 MHz



30 MHz – 26 GHz



2447 MHz – 2477 MHz

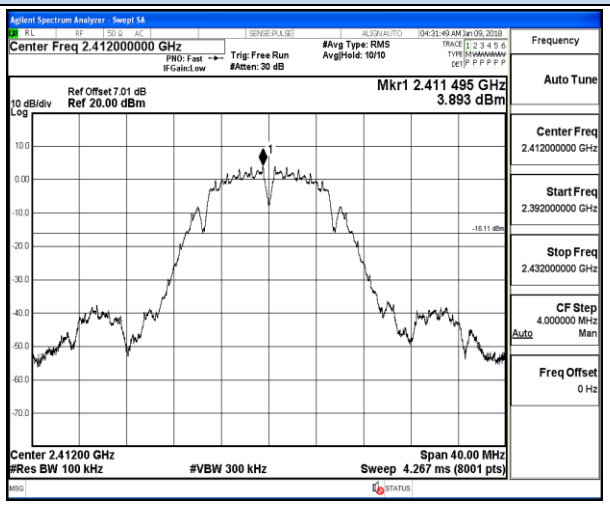


30 MHz – 26 GHz

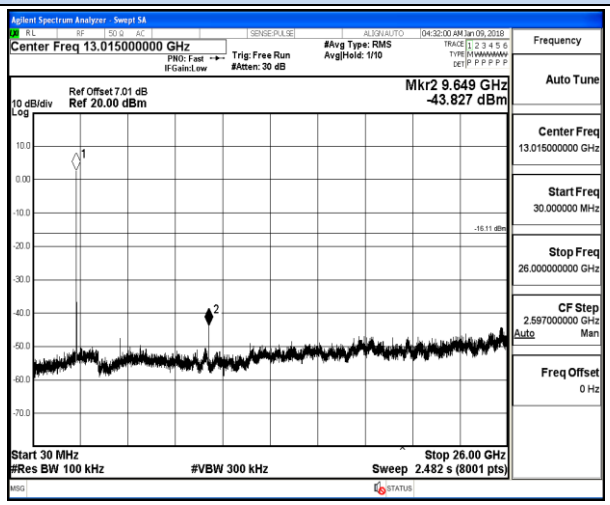
RF Conducted Spurious Emissions

IEEE 802.11b

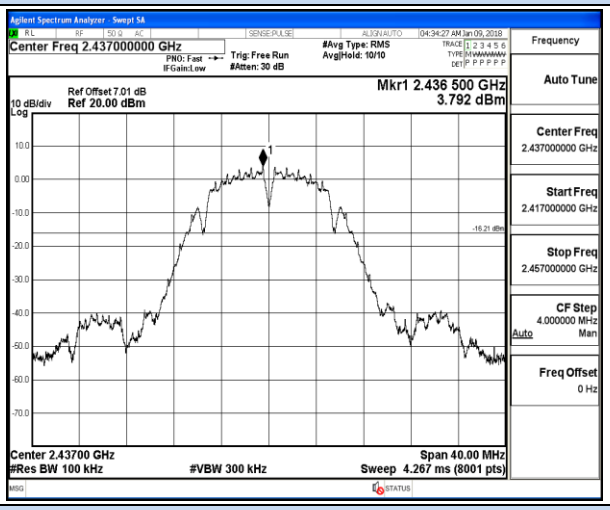
Chain 1



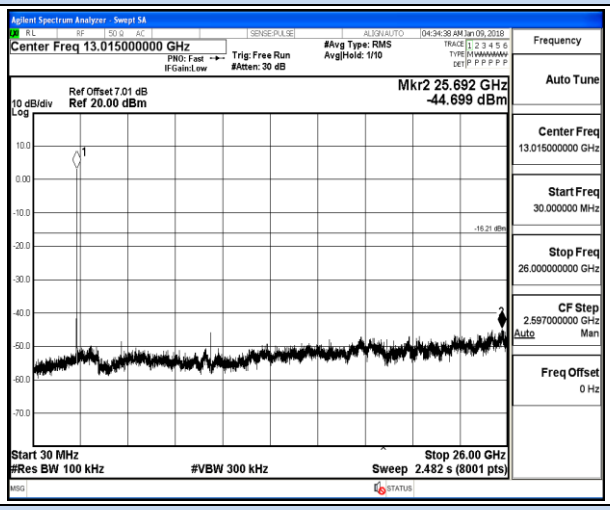
2397 MHz – 2427 MHz



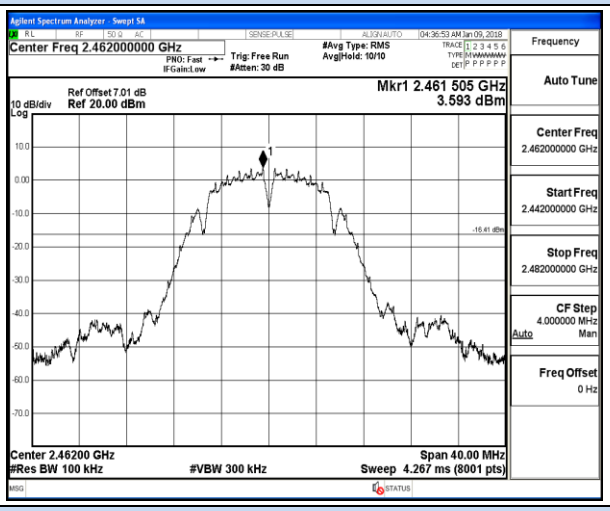
30 MHz – 26 GHz



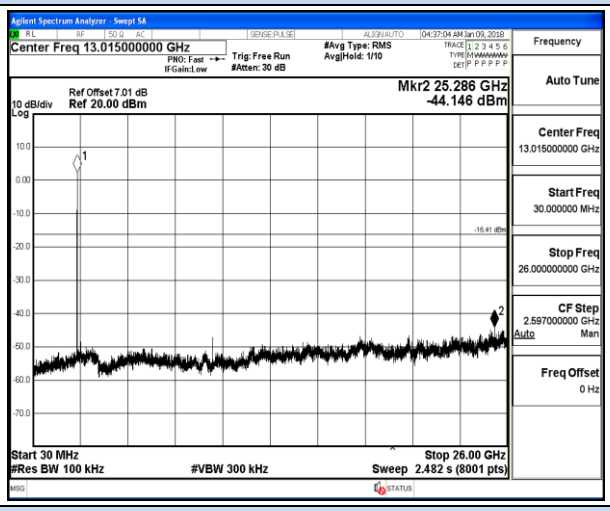
2422 MHz – 2452 MHz



30 MHz – 26 GHz



2447 MHz – 2477 MHz

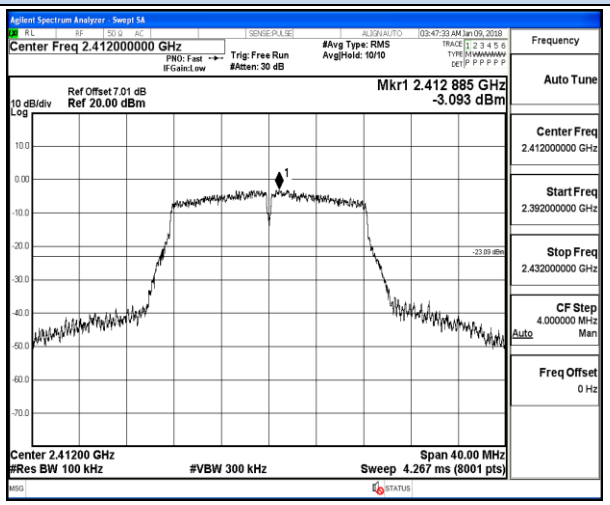


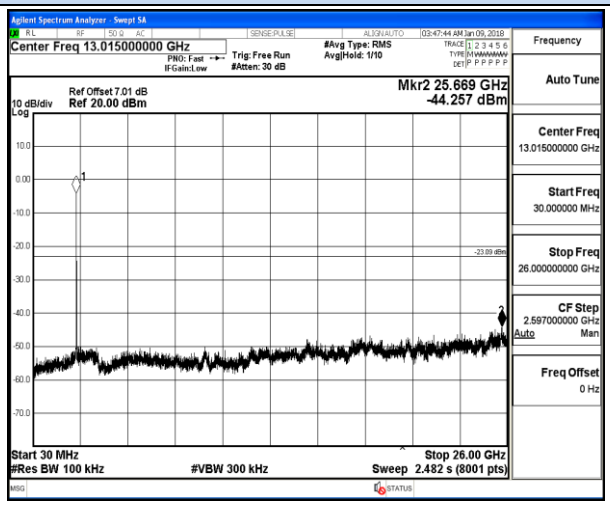
30 MHz – 26 GHz

RF Conducted Spurious Emissions

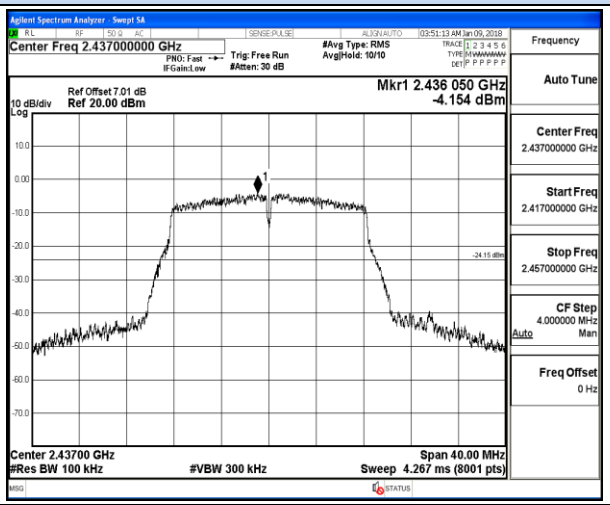
IEEE 802.11g

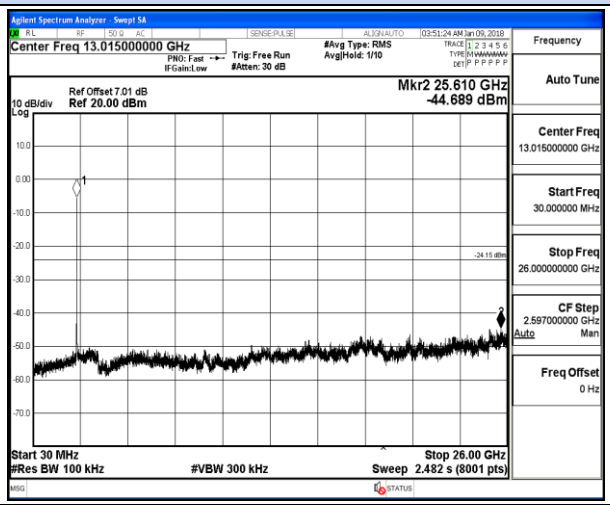
Chain 0



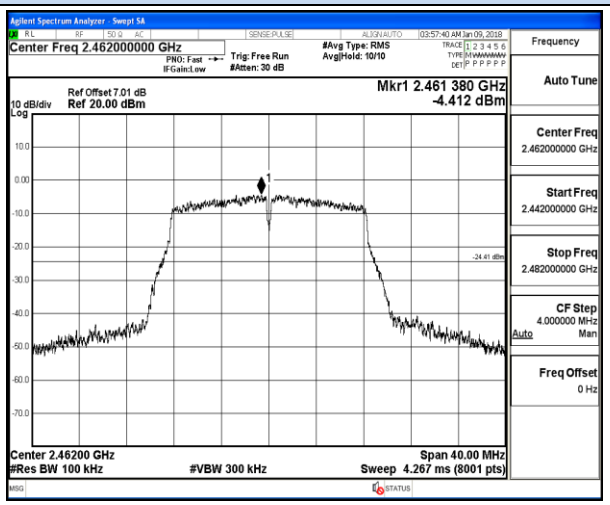


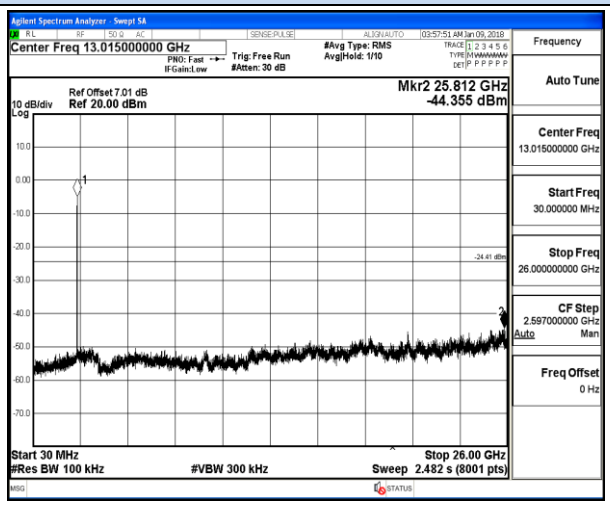
2397 MHz – 2427 MHz | 30 MHz – 26 GHz





2422 MHz – 2452 MHz | 30 MHz – 26 GHz



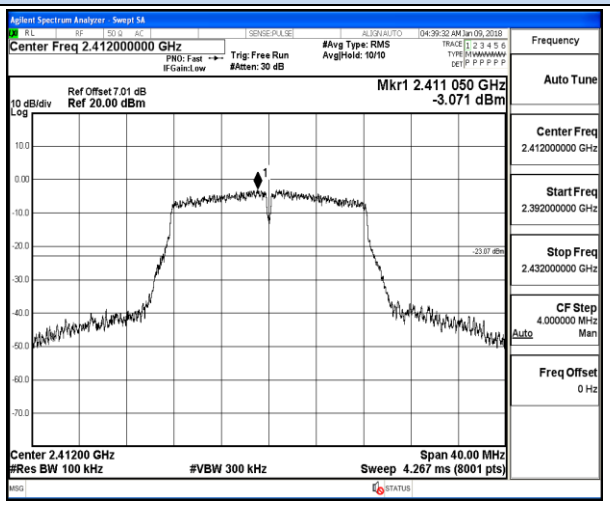


2447 MHz – 2477 MHz | 30 MHz – 26 GHz

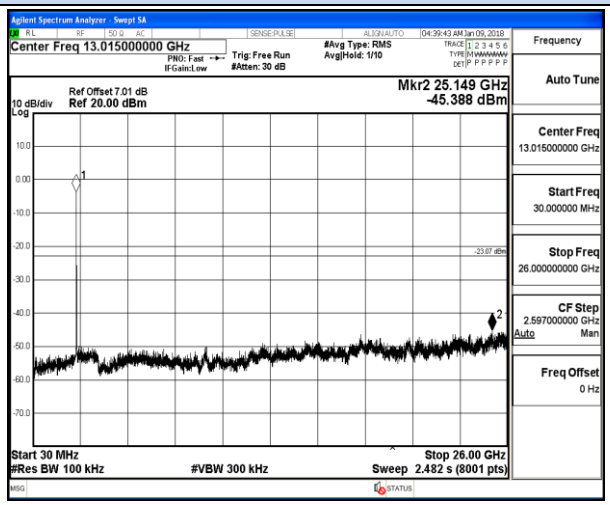
RF Conducted Spurious Emissions

IEEE 802.11g

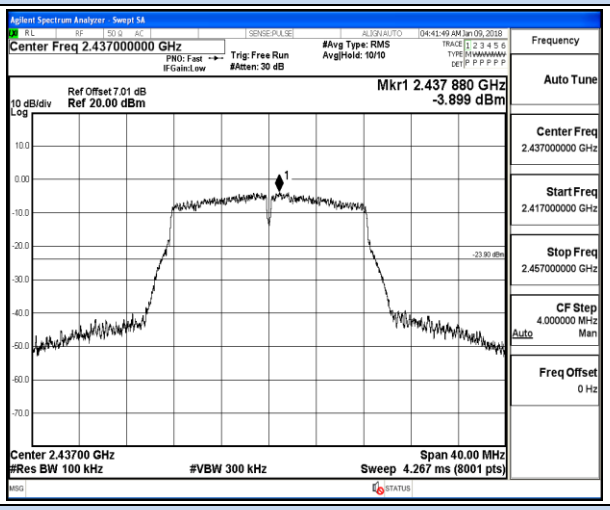
Chain 1



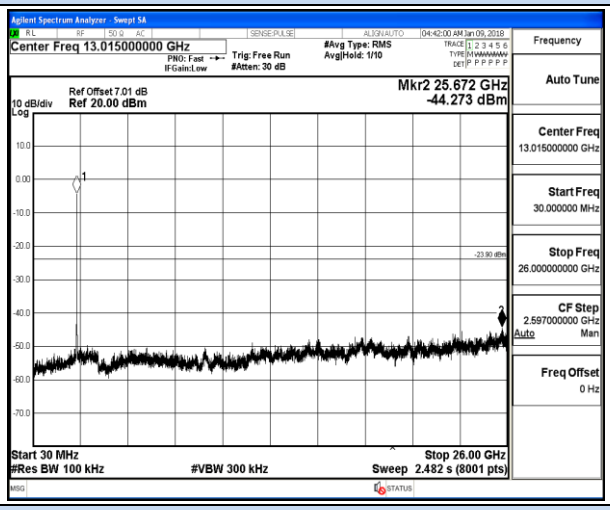
2397 MHz – 2427 MHz



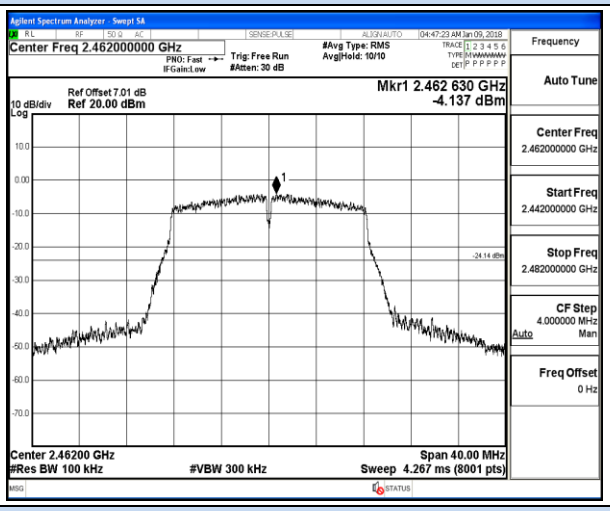
30 MHz – 26 GHz



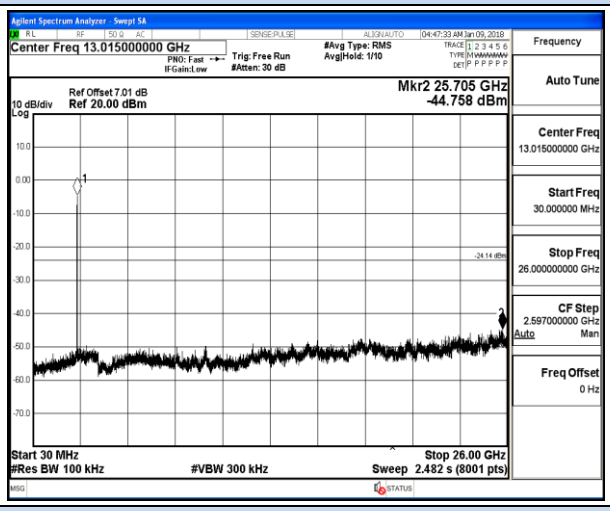
2422 MHz – 2452 MHz



30 MHz – 26 GHz



2447 MHz – 2477 MHz

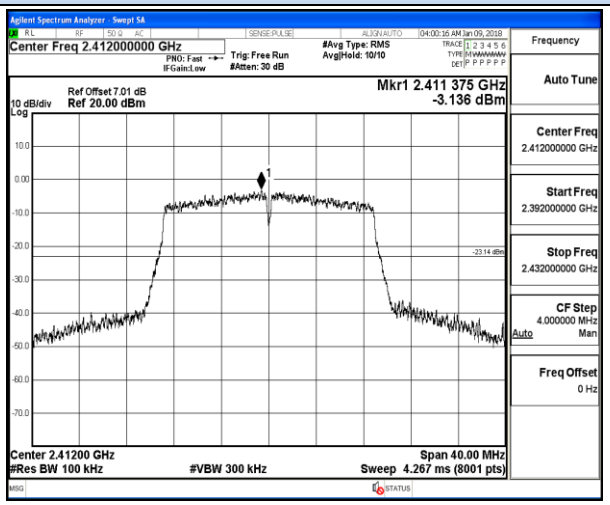


30 MHz – 26 GHz

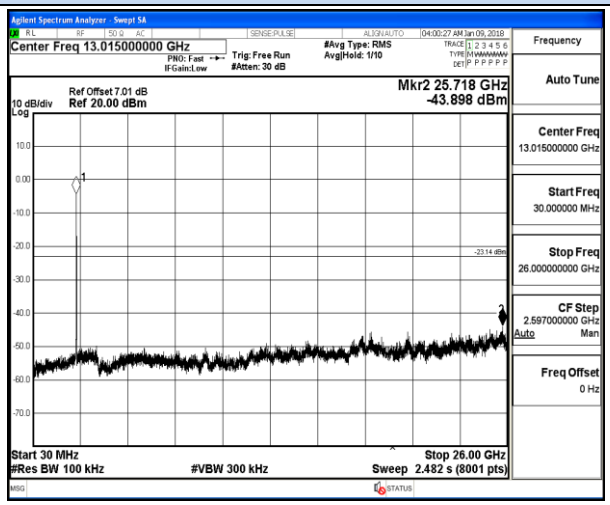
RF Conducted Spurious Emissions

IEEE 802.11n HT20

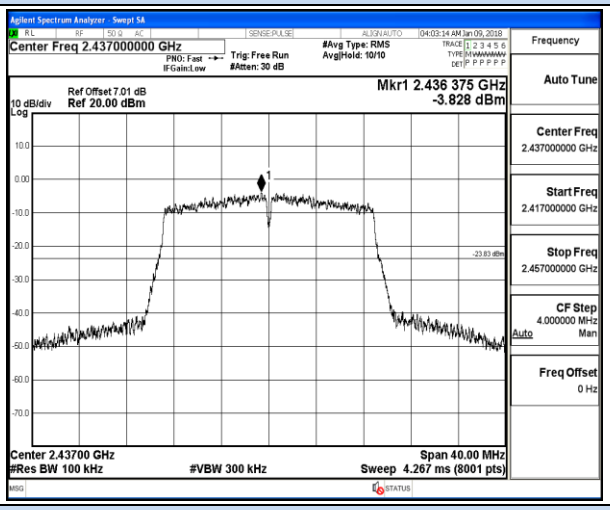
Chain 0



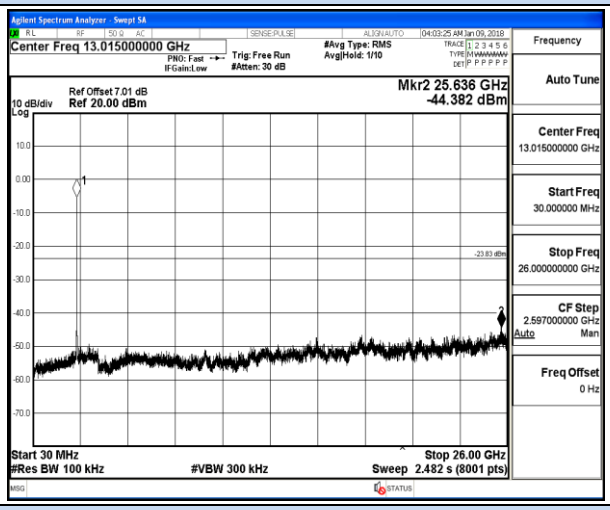
2397 MHz – 2427 MHz



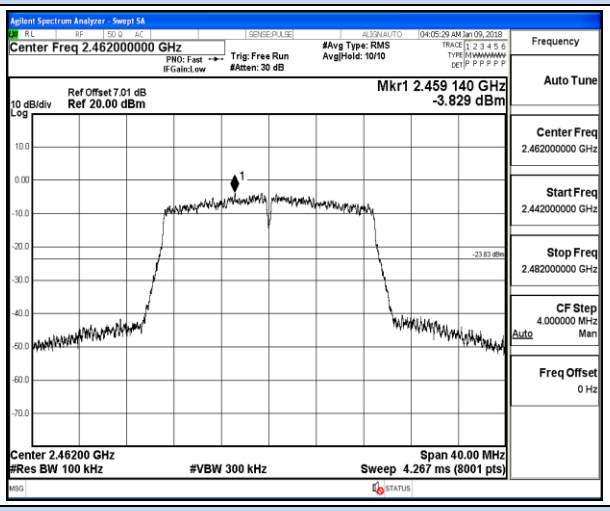
30 MHz – 26 GHz



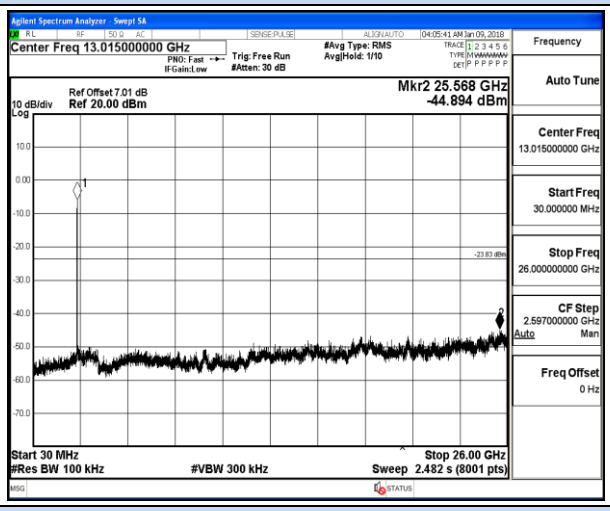
2422 MHz – 2452 MHz



30 MHz – 26 GHz



2447 MHz – 2477 MHz

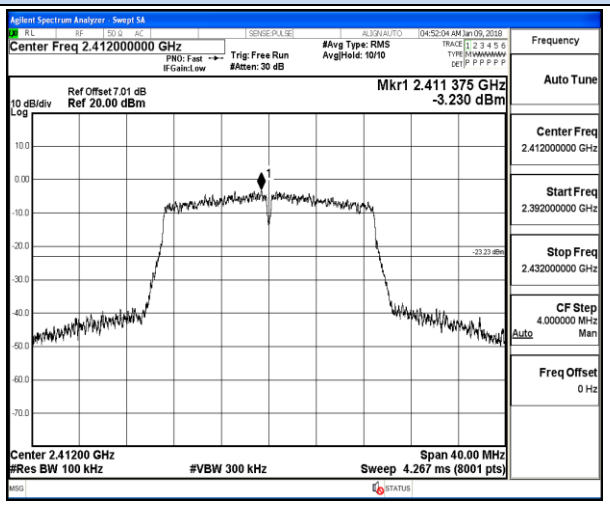


30 MHz – 26 GHz

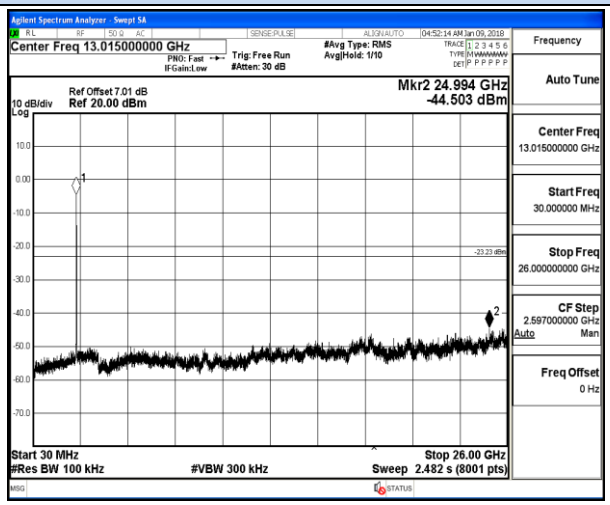
RF Conducted Spurious Emissions

IEEE 802.11n HT20

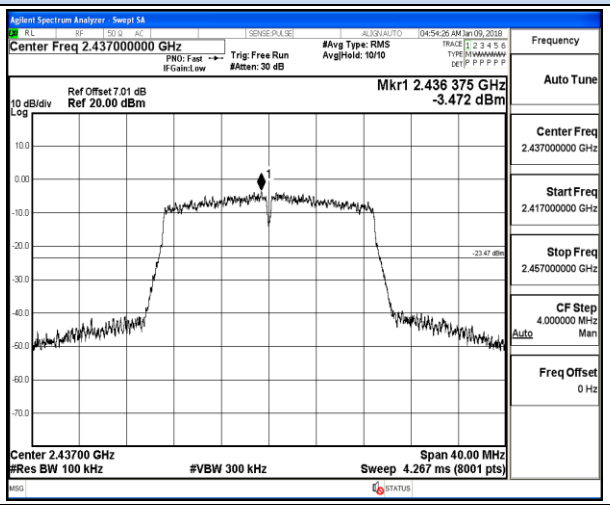
Chain 1



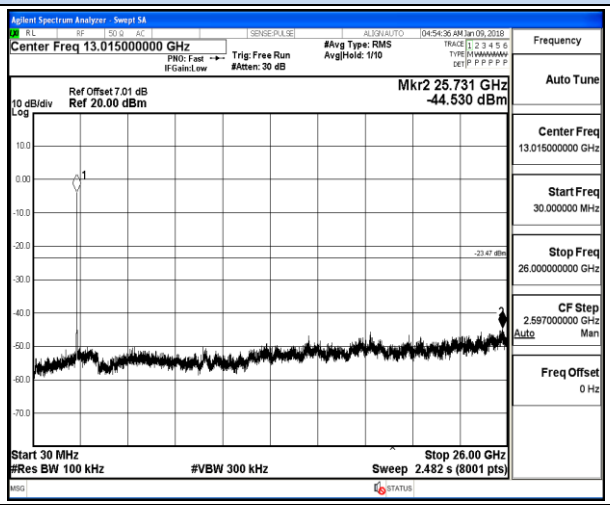
2397 MHz – 2427 MHz



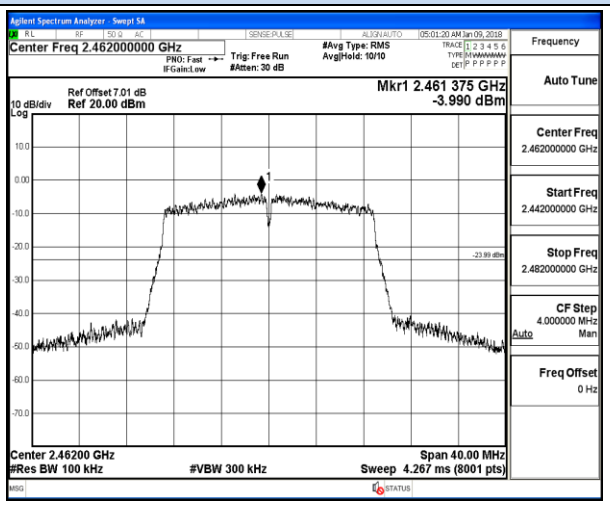
30 MHz – 26 GHz



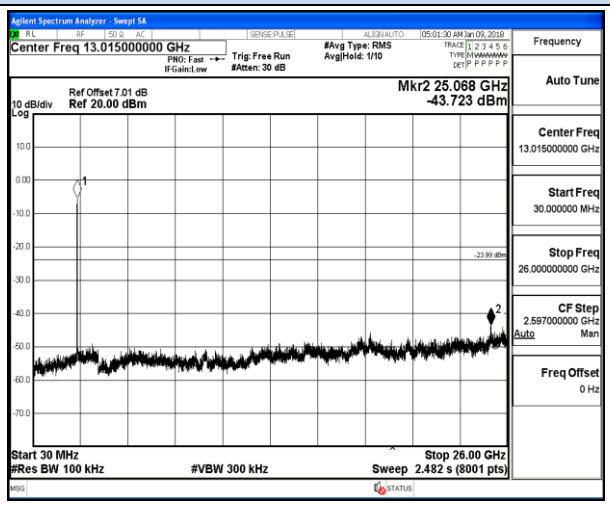
2422 MHz – 2452 MHz



30 MHz – 26 GHz



2447 MHz – 2477 MHz

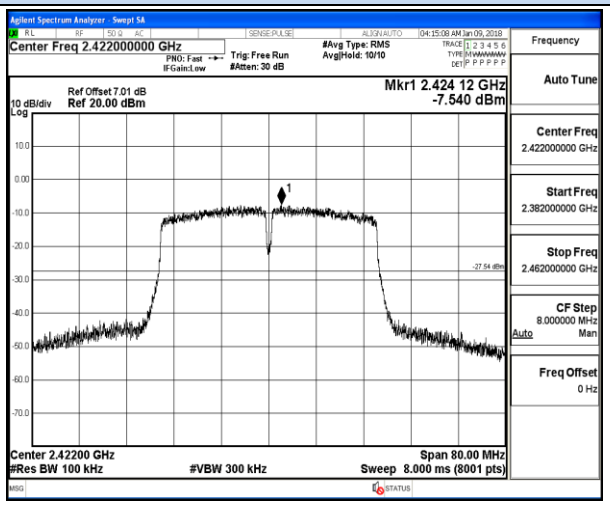


30 MHz – 26 GHz

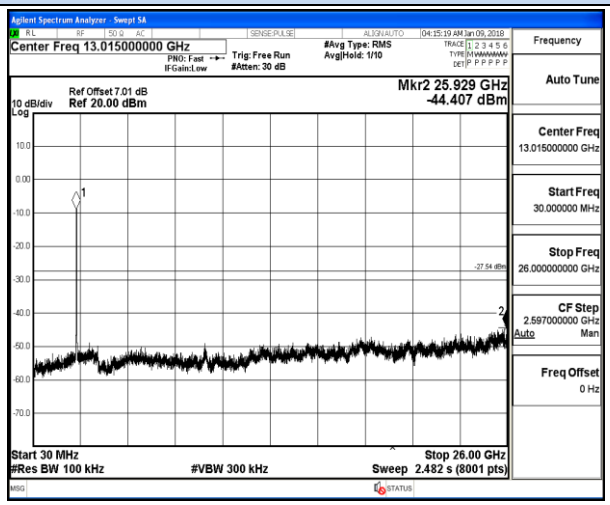
RF Conducted Spurious Emissions

IEEE 802.11n HT40

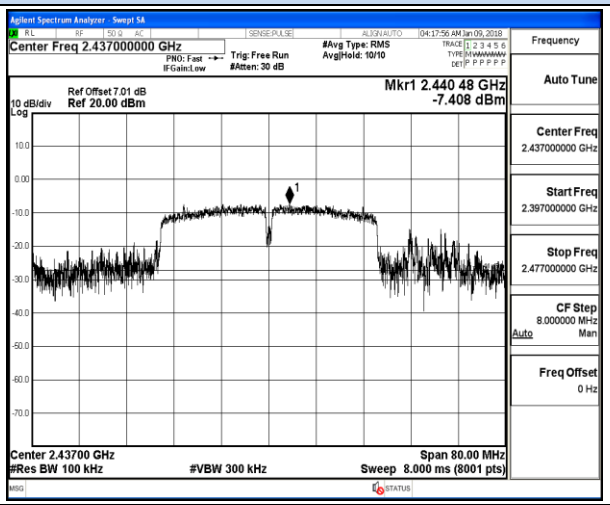
Chain 0



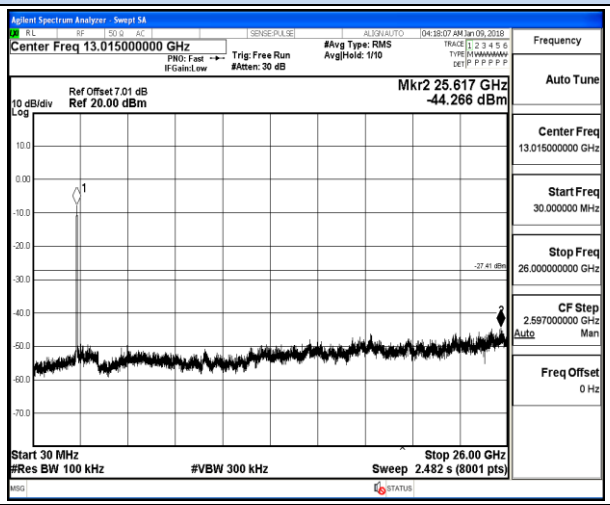
2397 MHz – 2427 MHz



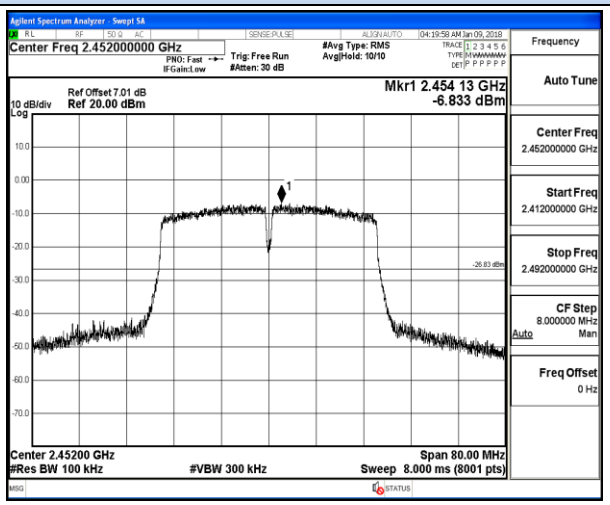
30 MHz – 26 GHz



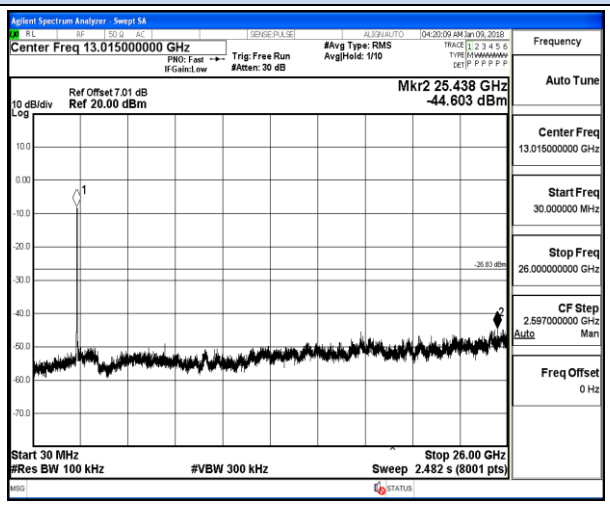
2422 MHz – 2452 MHz



30 MHz – 26 GHz



2447 MHz – 2477 MHz

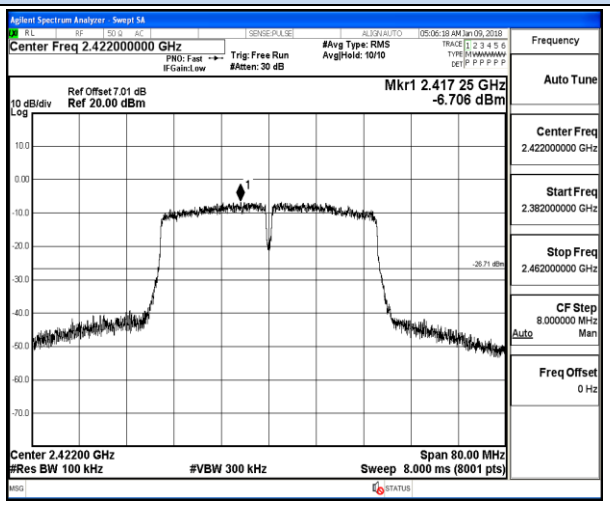


30 MHz – 26 GHz

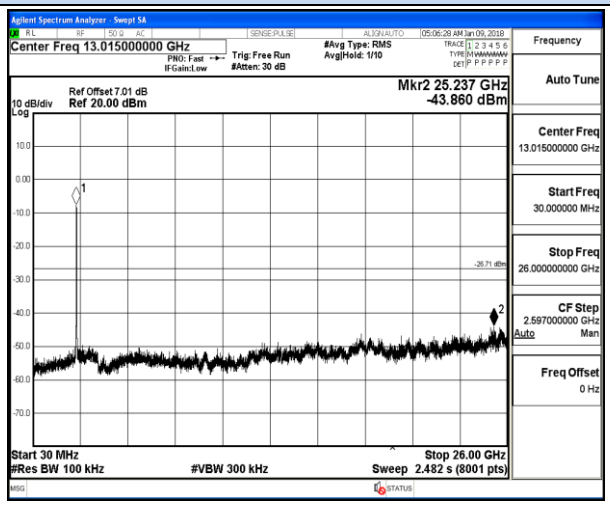
RF Conducted Spurious Emissions

IEEE 802.11n HT40

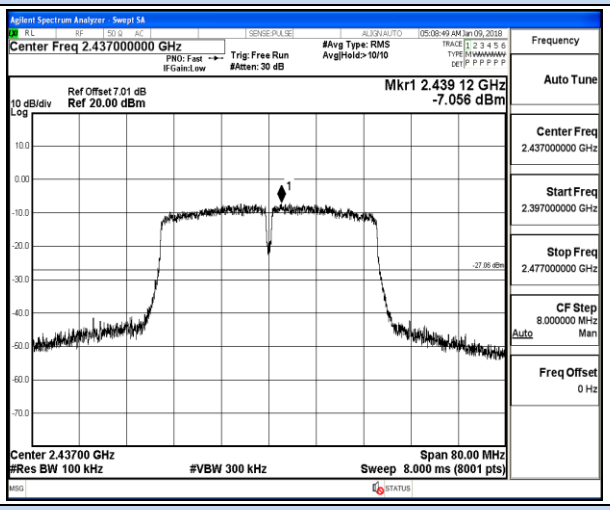
Chain 1



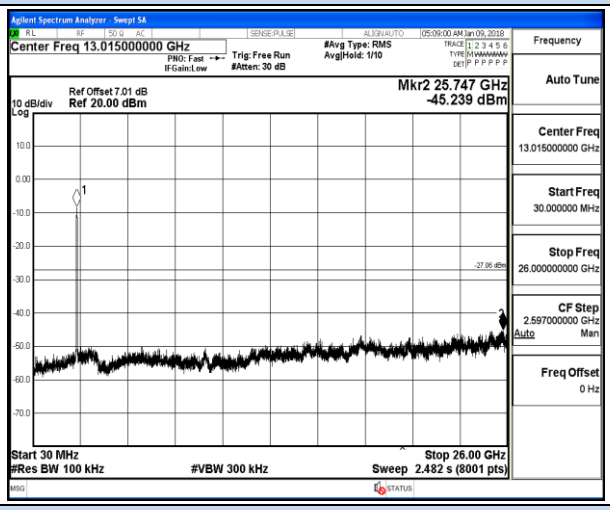
2397 MHz – 2427 MHz



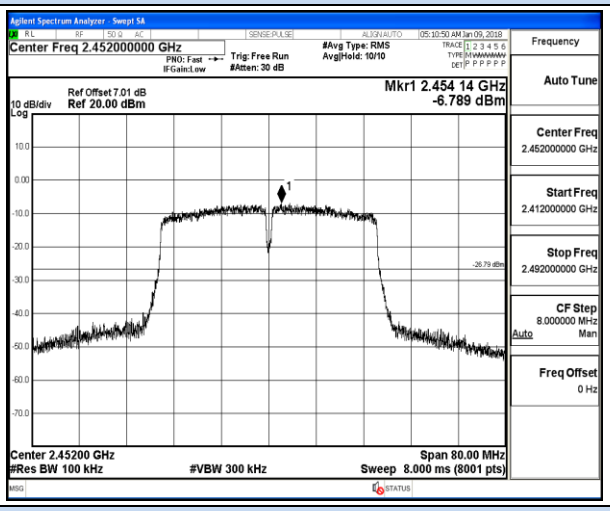
30 MHz – 26 GHz



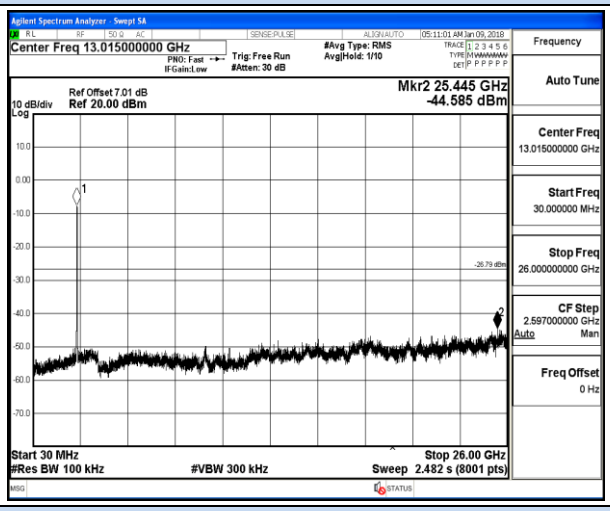
2422 MHz – 2452 MHz



30 MHz – 26 GHz

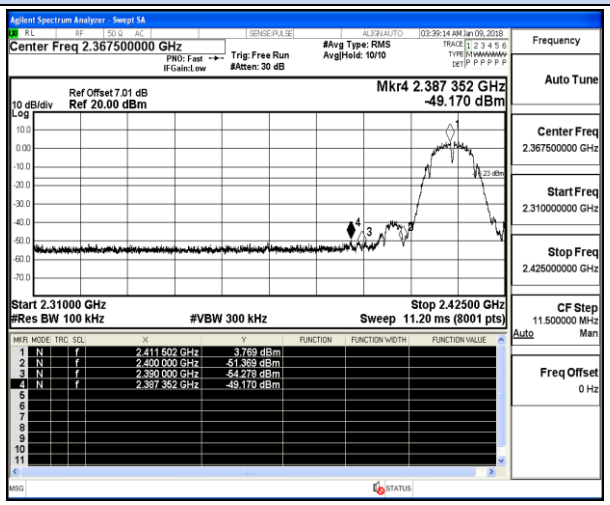
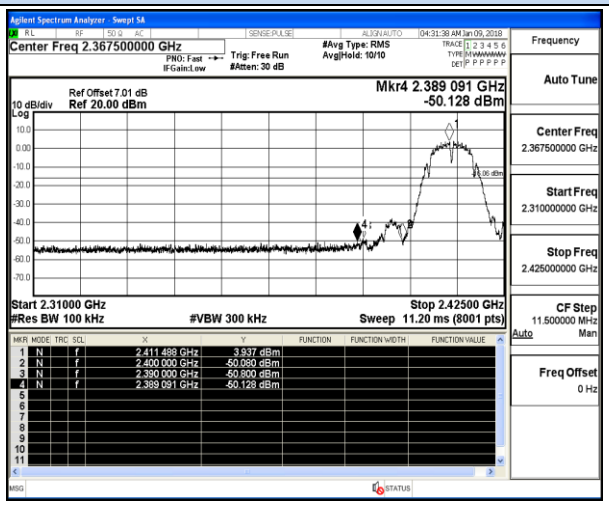
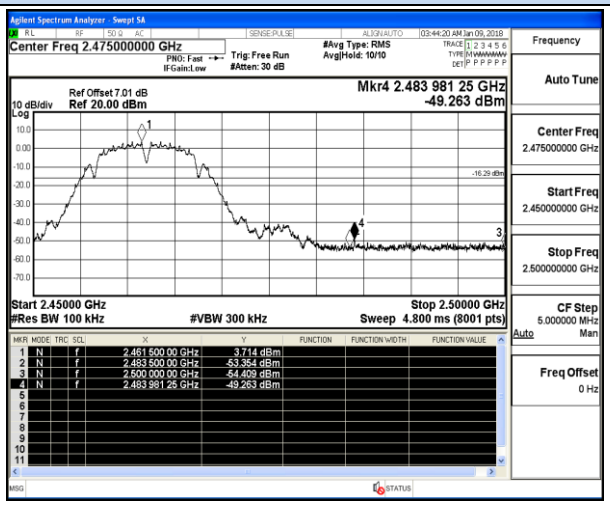
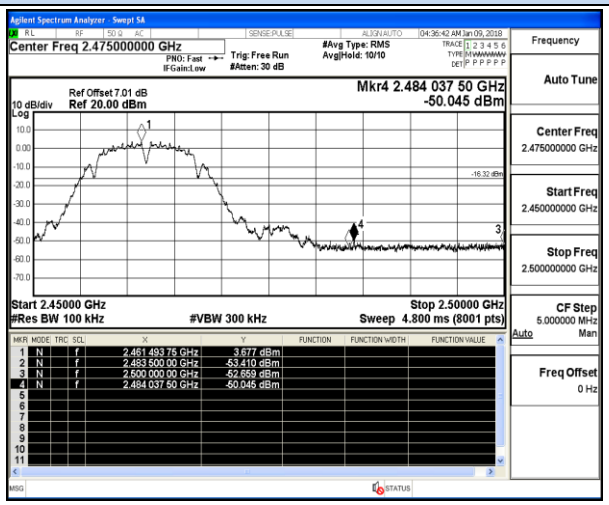


2447 MHz – 2477 MHz



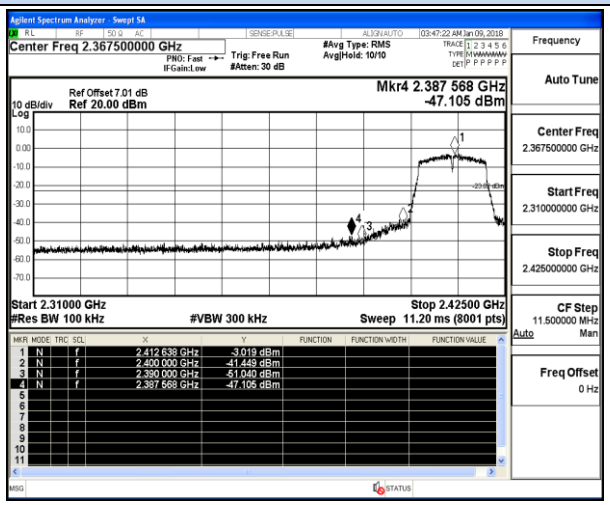
30 MHz – 26 GHz

5.6.7. Test Results of Band Edges Test

Band-edge measurements for conducted emissions	
IEEE 802.11b	
Chain 0	Chain 1
	
Channel 1 / 2412 MHz	Channel 1 / 2412 MHz
	
Channel 11 / 2462 MHz	Channel 11 / 2462 MHz

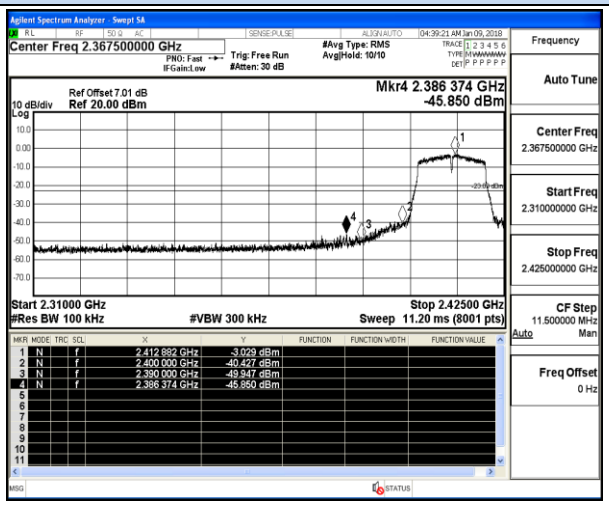
IEEE 802.11g

Chain 0

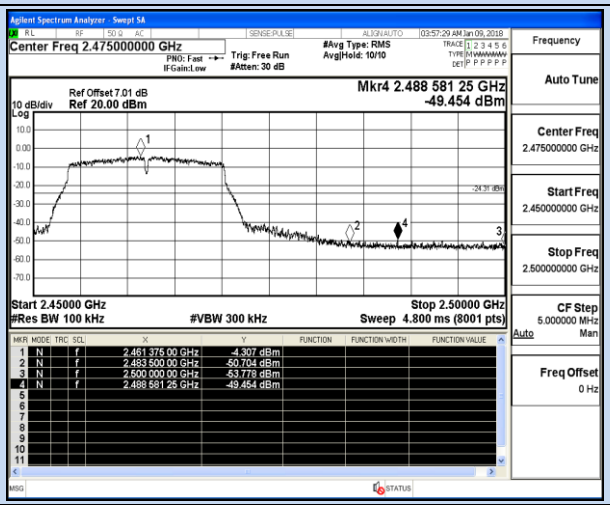


Channel 1 / 2412 MHz

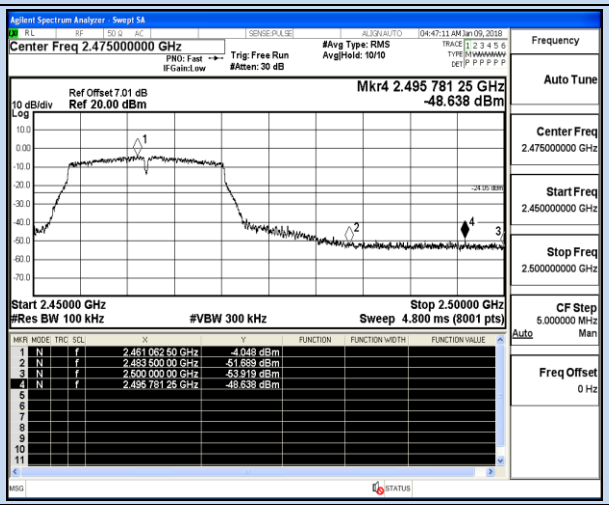
Chain 1



Channel 1 / 2412 MHz



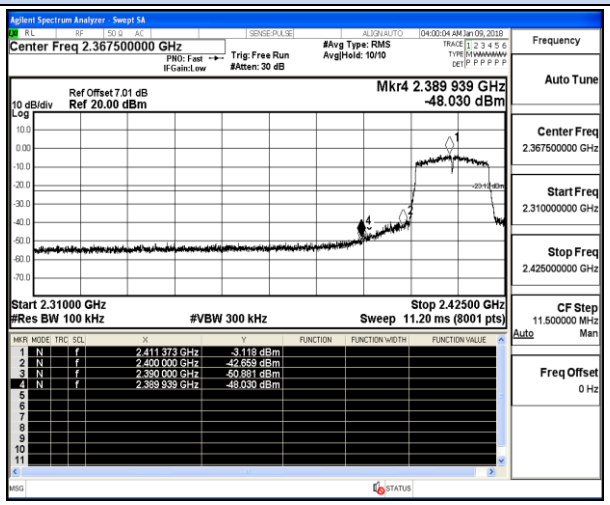
Channel 11 / 2462 MHz



Channel 11 / 2462 MHz

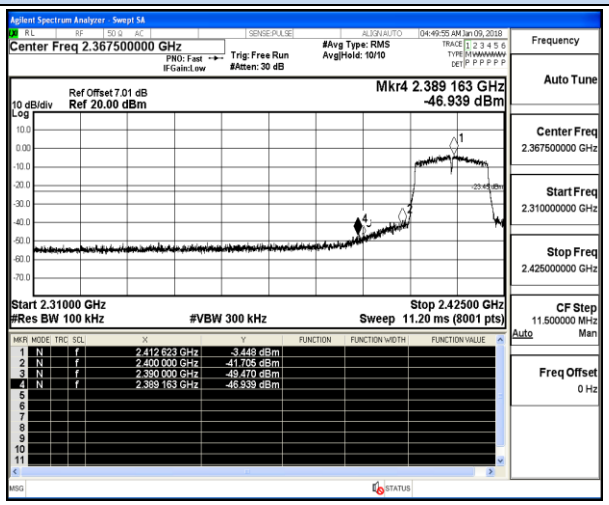
IEEE 802.11n20

Chain 0

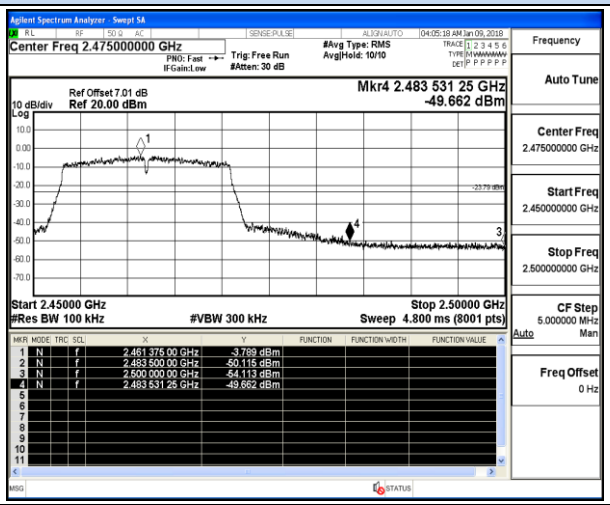


Channel 1 / 2412 MHz

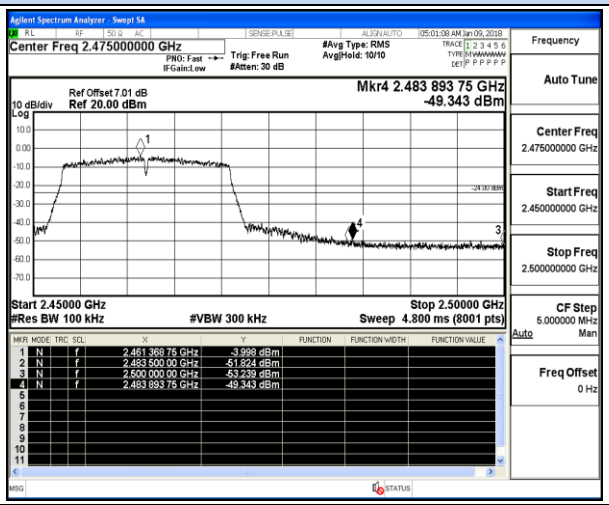
Chain 1



Channel 1 / 2412 MHz

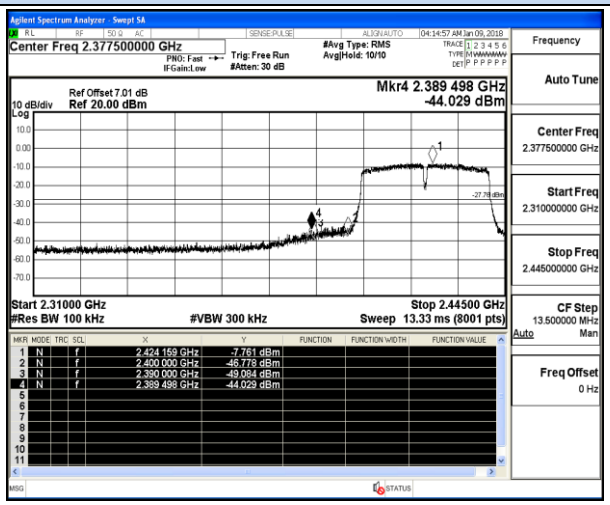
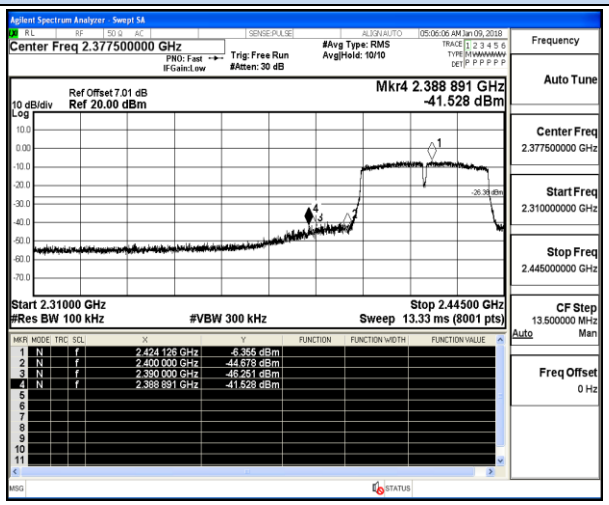
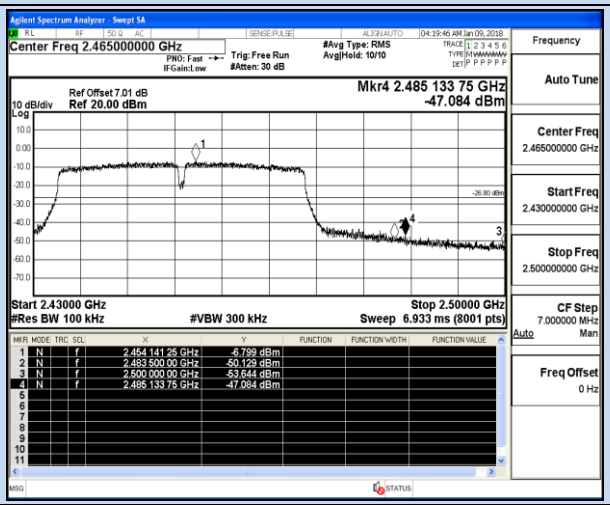
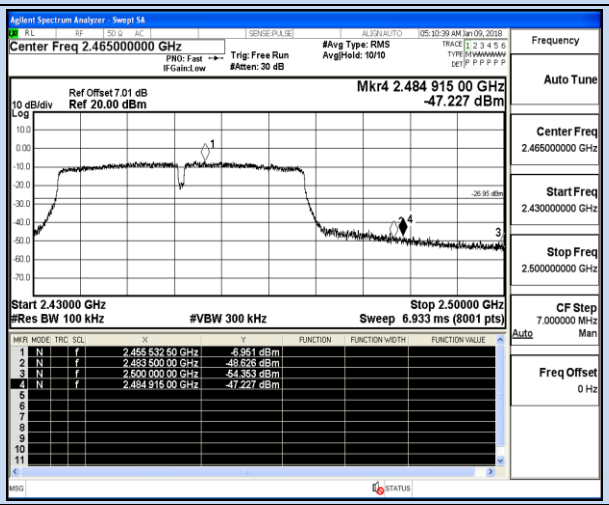


Channel 11 / 2462 MHz



Channel 11 / 2462 MHz

IEEE 802.11n40

Chain 0	Chain 1
	
Channel 3 / 2422 MHz	Channel 3 / 2422 MHz
	
Channel 9 / 2452 MHz	Channel 9 / 2452 MHz