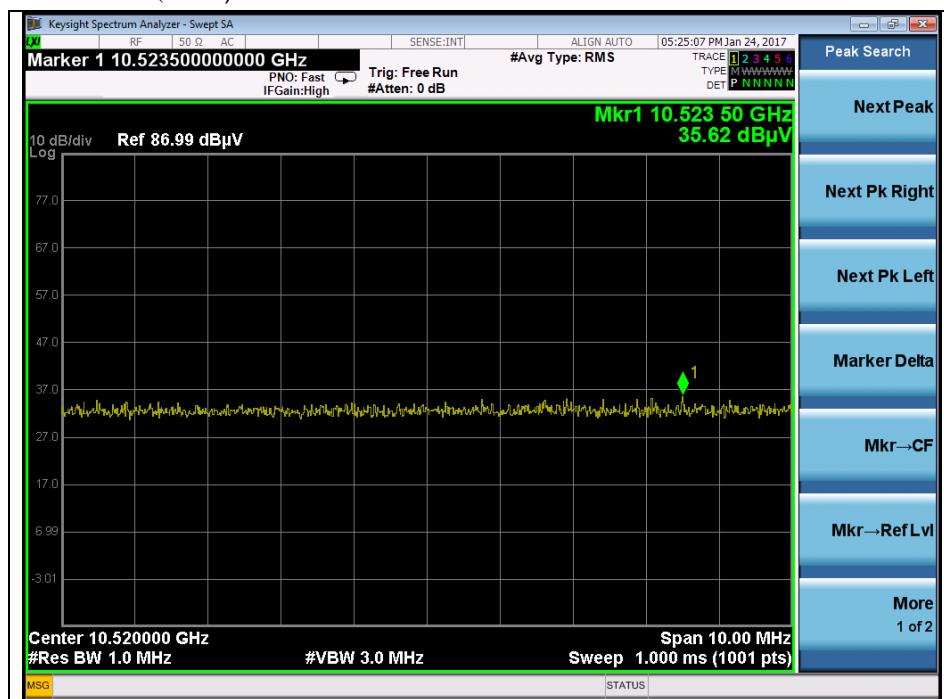


OFDM : 802.11n_HT20(MCS0)Low channel 2nd harmonic (Peak) - Band 2A

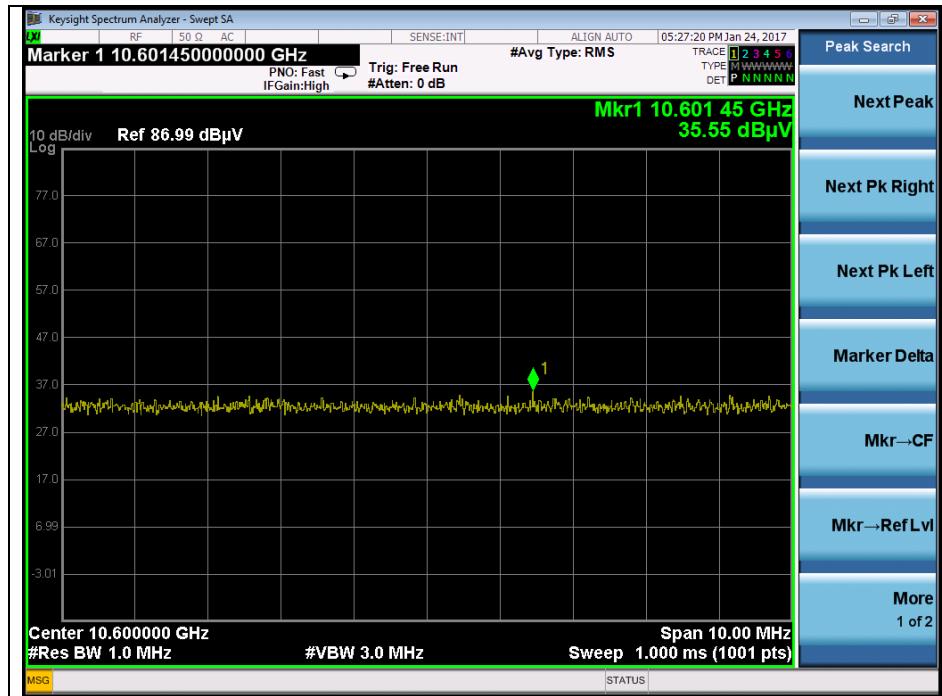
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RTT5041-20(2015.10.01)(3)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

A4(210 mm x 297 mm)

Middle channel 2nd harmonic (Peak) - Band 2AMiddle channel 2nd harmonic (Average) - Band 2A

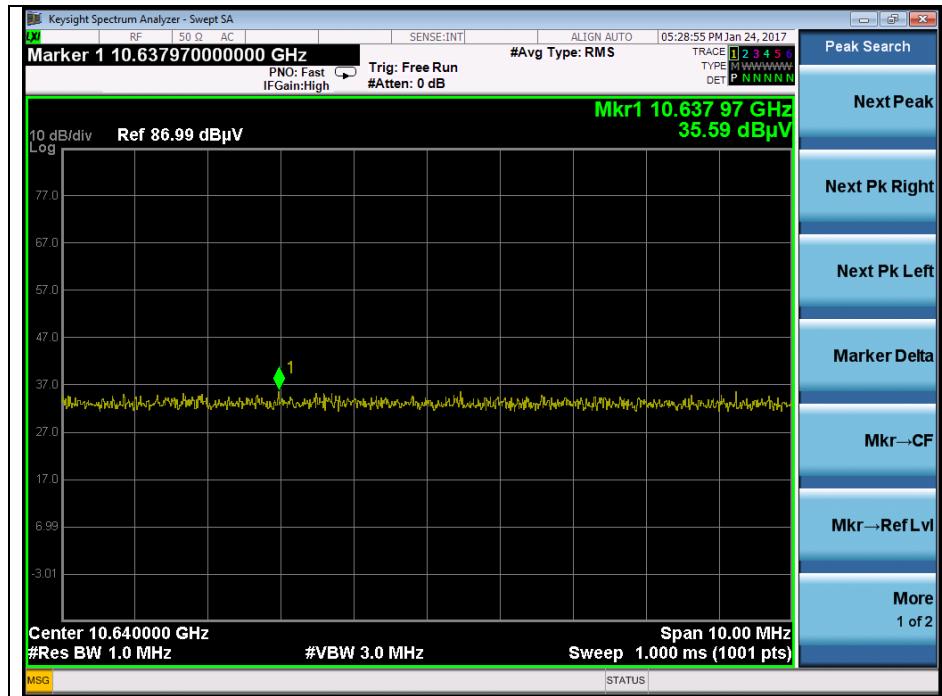
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A4(210 mm × 297 mm)

High channel 2nd harmonic (Peak) - Band 2AHigh channel 2nd harmonic (Average) - Band 2A

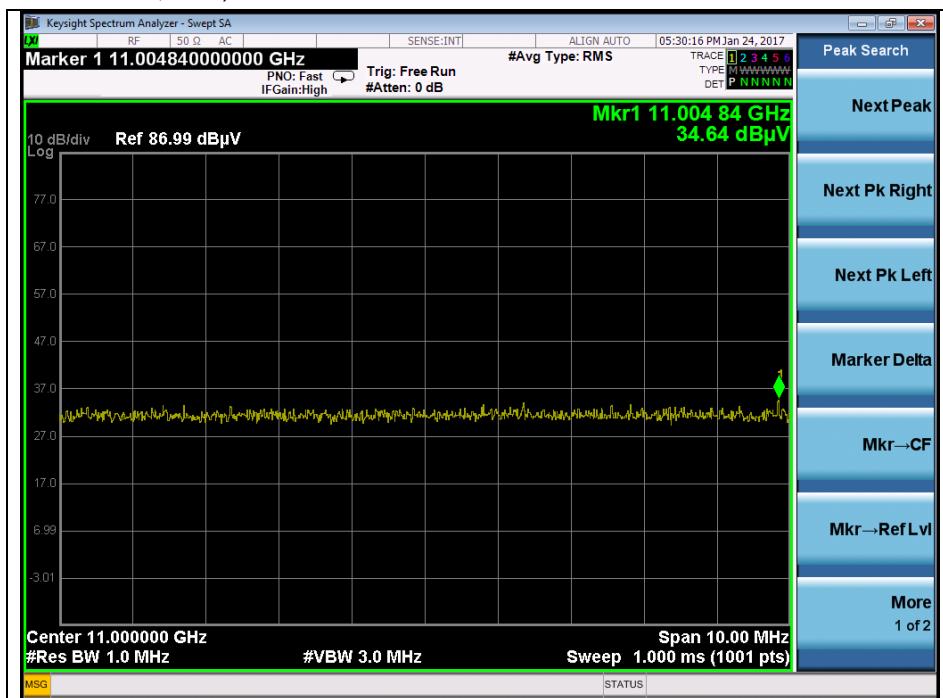
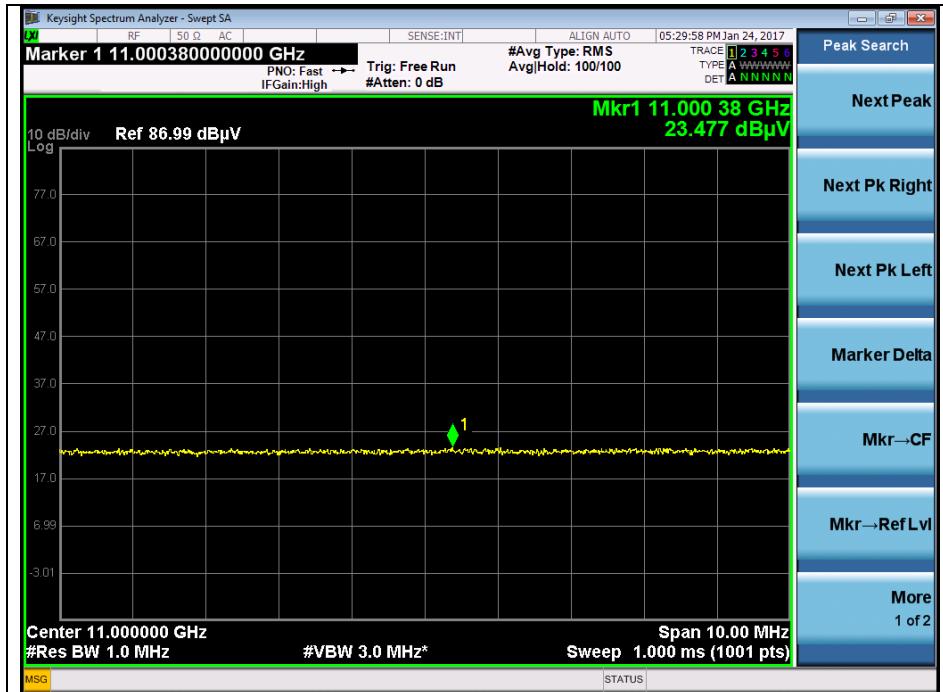
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A4(210 mm × 297 mm)

Low channel 2nd harmonic (Peak) - Band 2C

Low channel 2nd harmonic (Average) - Band 2C


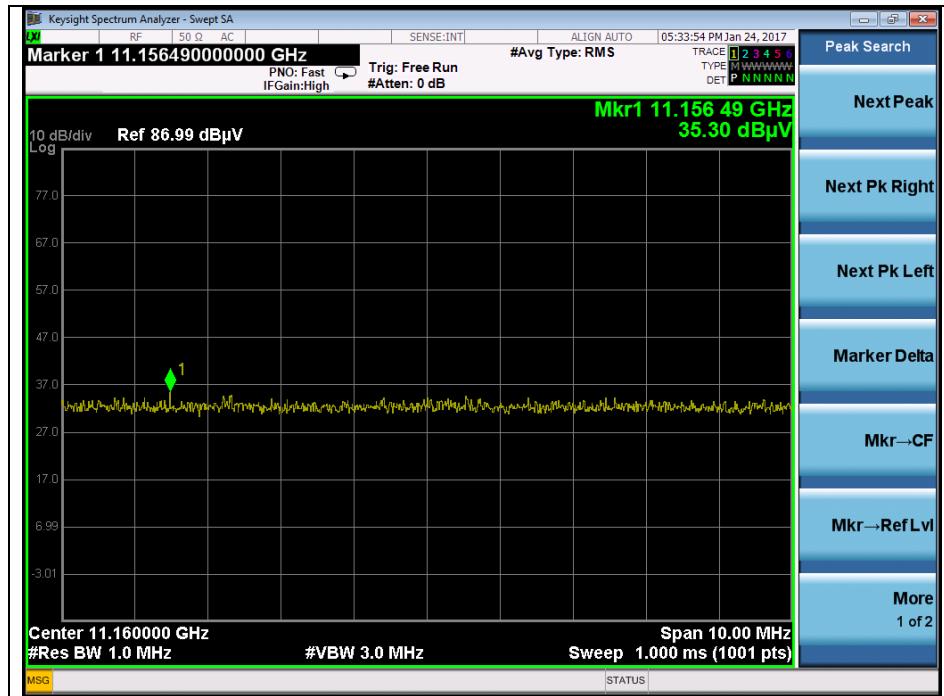
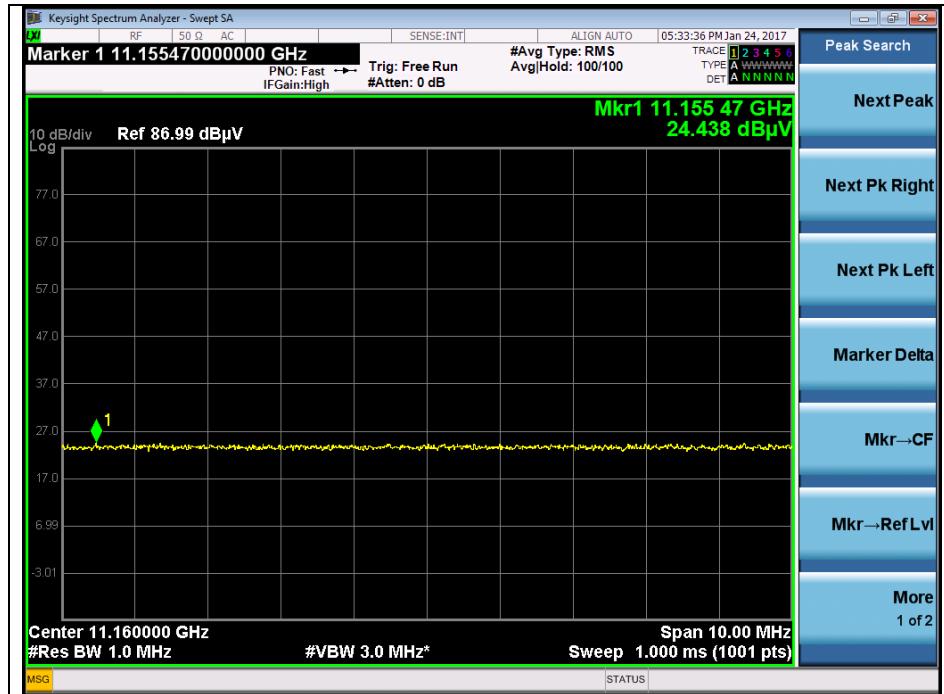
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A4(210 mm x 297 mm)

Middle channel 2nd harmonic (Peak) - Band 2CMiddle channel 2nd harmonic (Average) - Band 2C

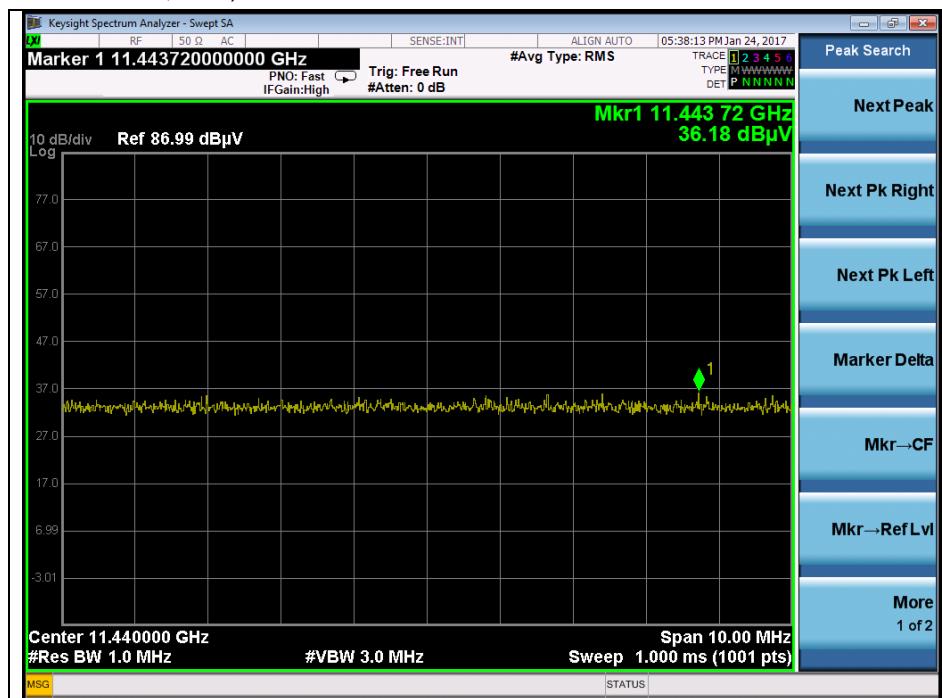
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A4(210 mm x 297 mm)

High channel 2nd harmonic (Peak) - Band 2C

High channel 2nd harmonic (Average) - Band 2C

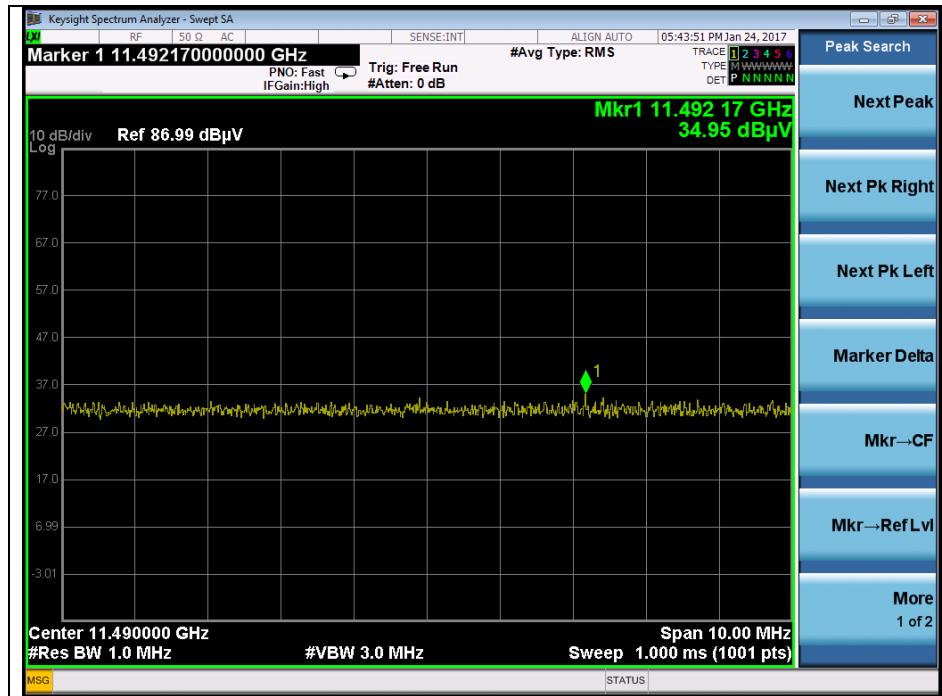
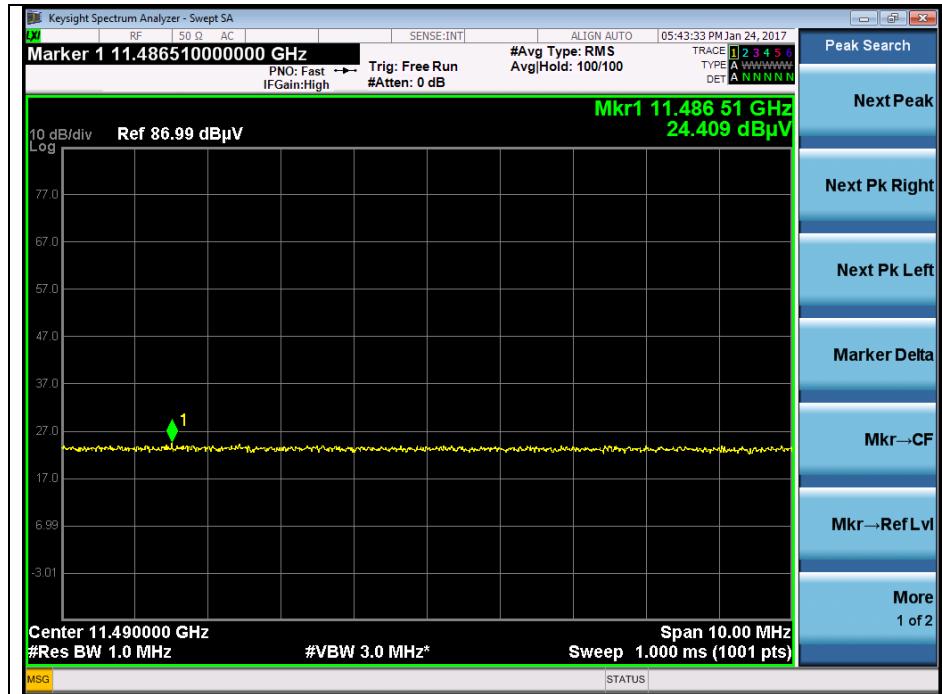

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A4(210 mm x 297 mm)

Low channel 2nd harmonic (Peak) - Band 3

Low channel 2nd harmonic (Average) - Band 3


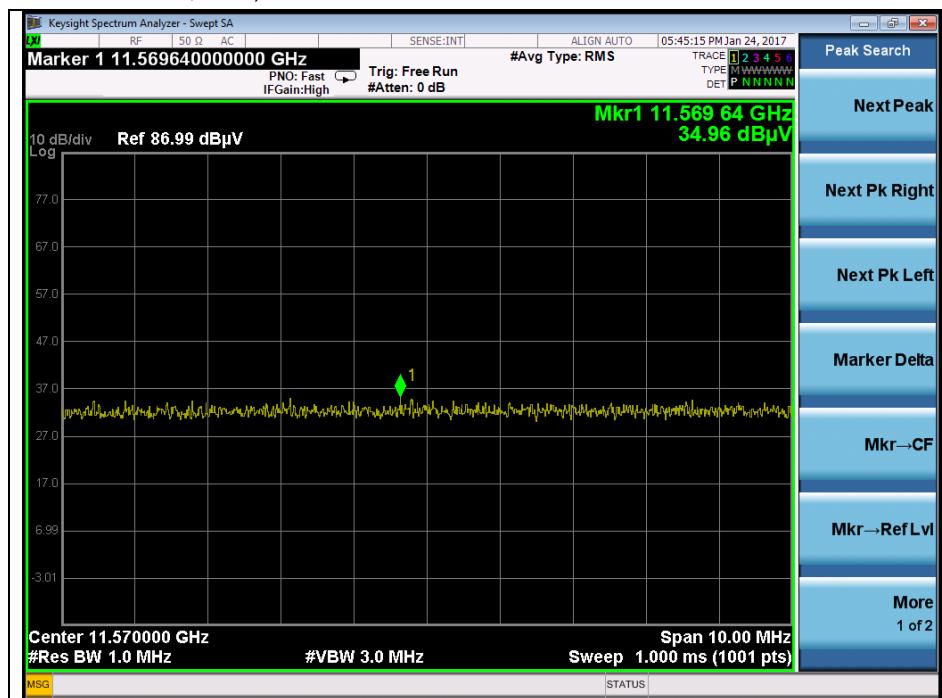
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A4(210 mm x 297 mm)

Middle channel 2nd harmonic (Peak) - Band 3

Middle channel 2nd harmonic (Average) - Band 3

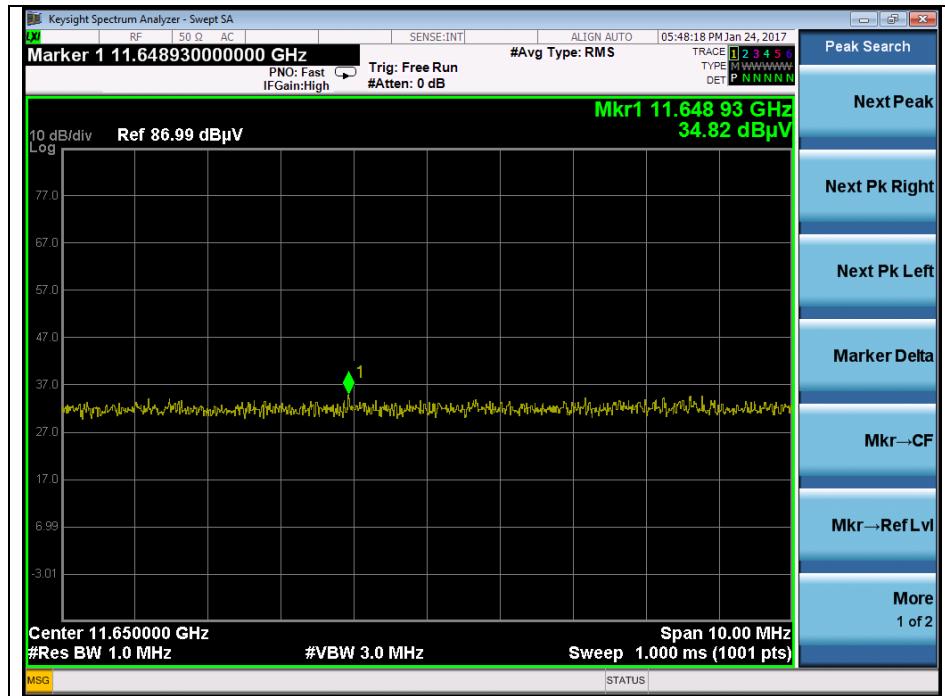
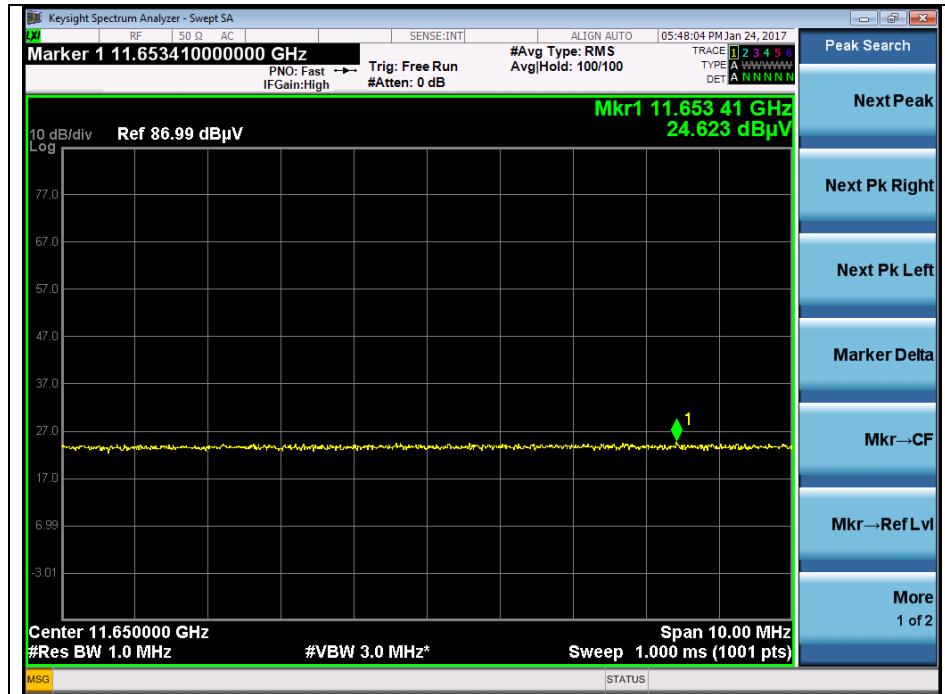

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A4(210 mm x 297 mm)

High channel 2nd harmonic (Peak) - Band 3High channel 2nd harmonic (Average) - Band 3

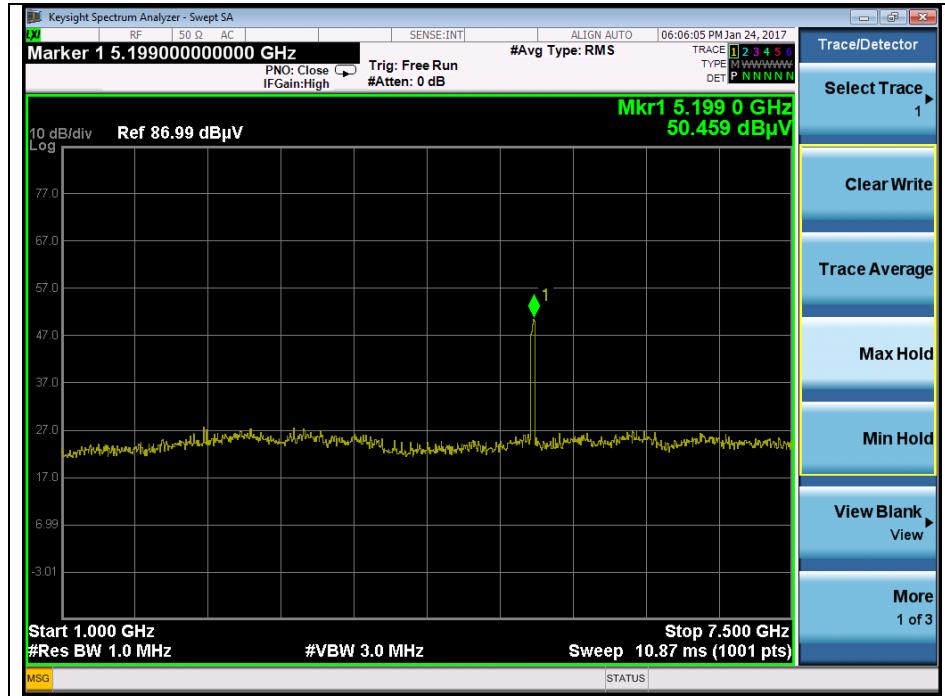
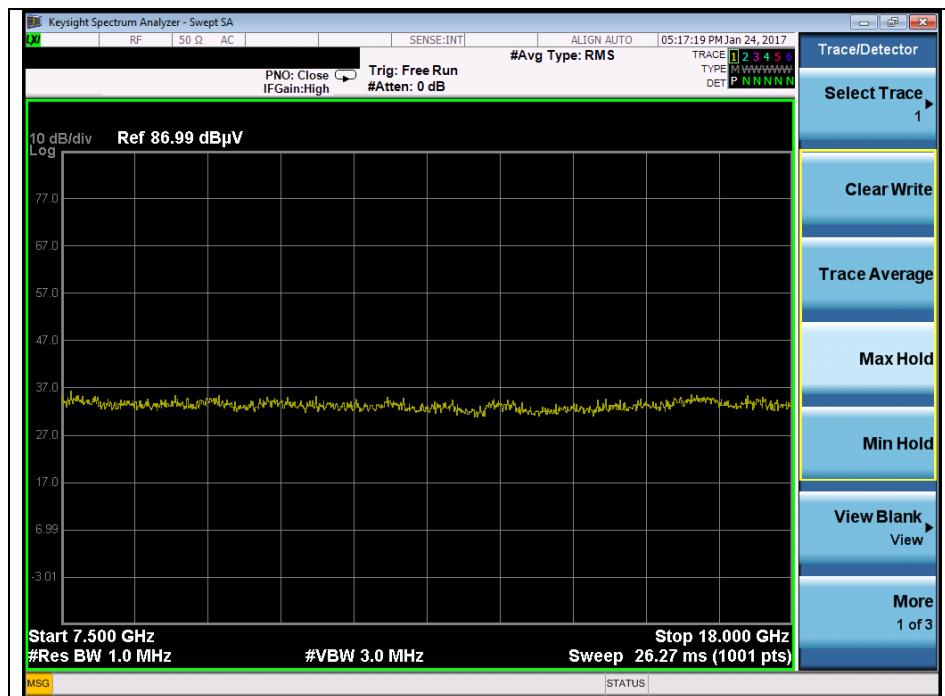
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A4(210 mm x 297 mm)

Scanning Plots: 802.11n HT40(MCS0)**1 GHz ~ 7.5 GHz****7.5 GHz ~ 18 GHz**

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18 GHz ~ 40 GHz

**Note:** Emission was scanned up to 40 GHz.

No emissions were detected above the noise floor which was at least 20 dB below the specification limit.

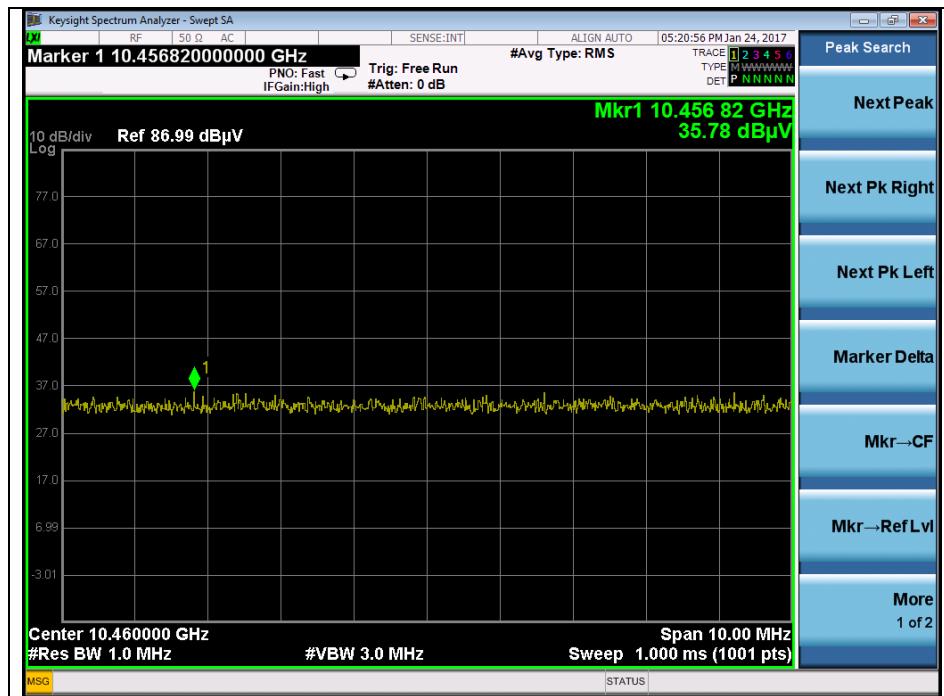
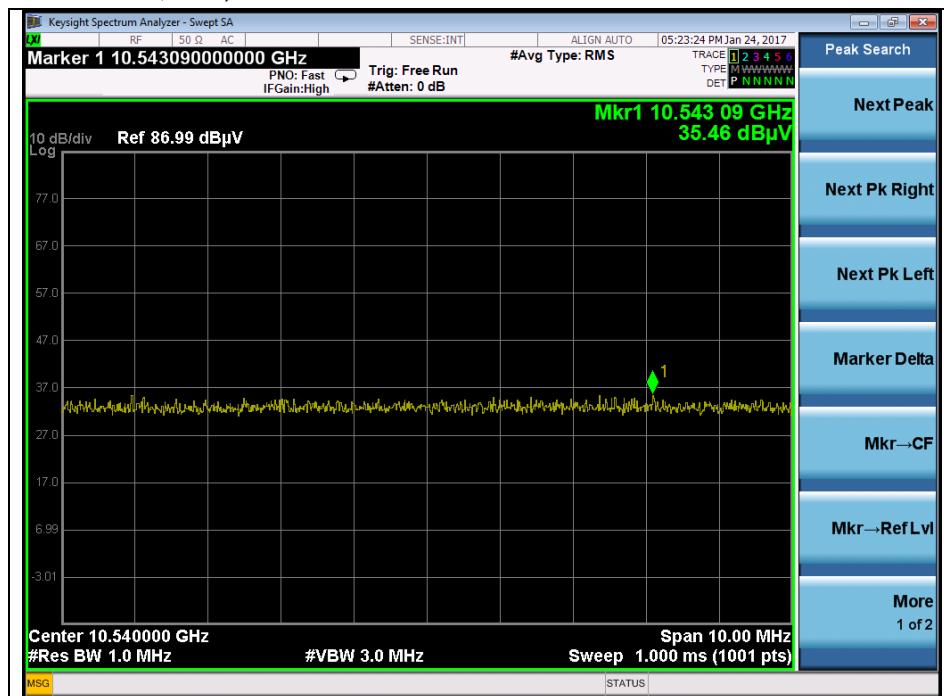
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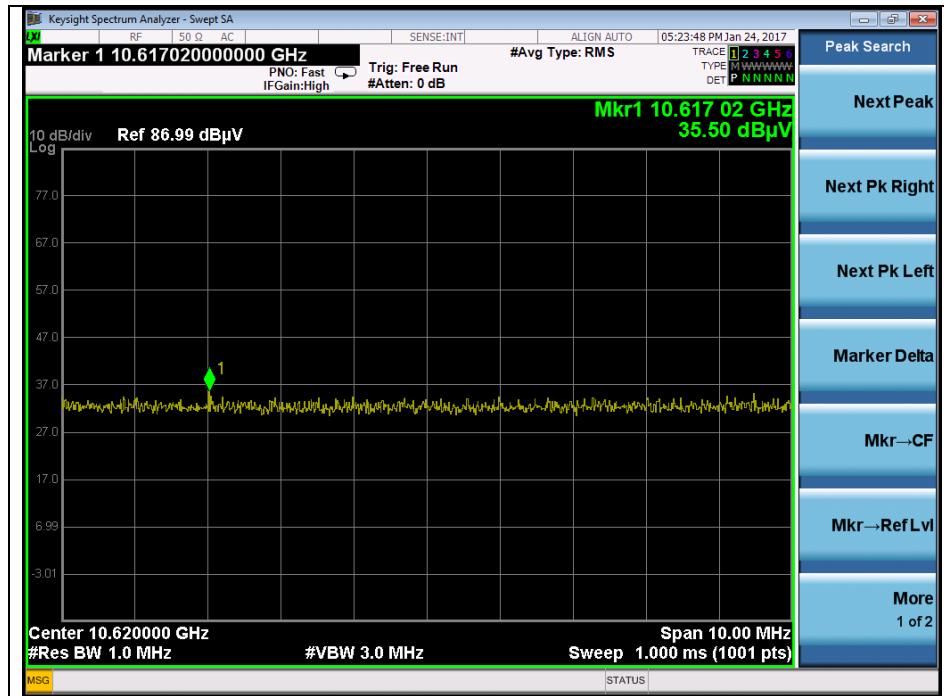
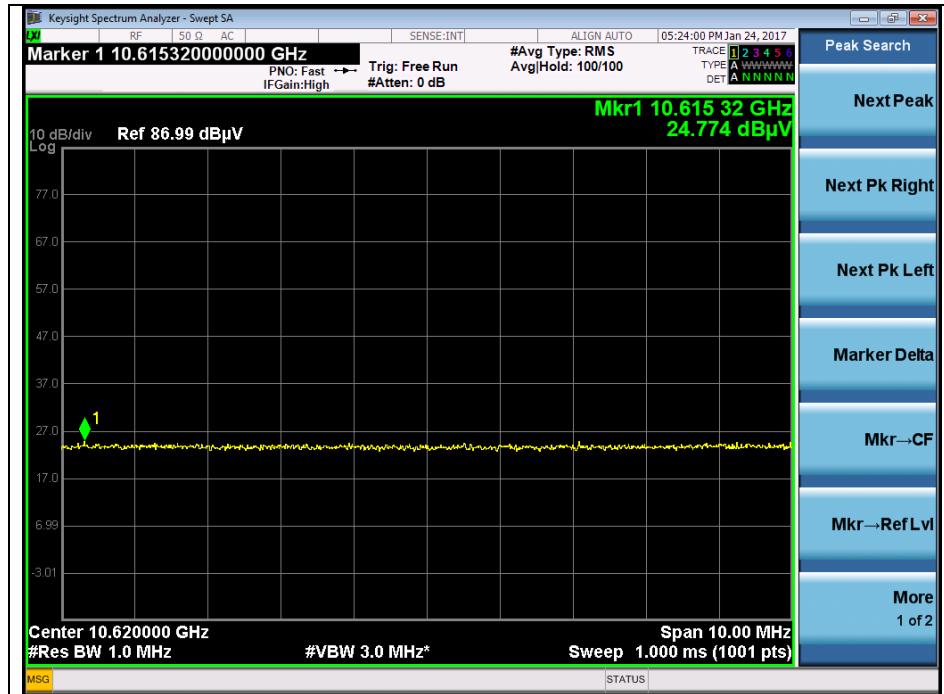
Tel. +82 31 428 5700 / Fax. +82 31 427 2370

A4(210 mm x 297 mm)

OFDM : 802.11n_HT40(MCS0)High channel 2nd harmonic (Peak) - Band 1Low channel 2nd harmonic (Peak) - Band 2A

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High channel 2nd harmonic (Peak) - Band 2A

High channel 2nd harmonic (Average) - Band 2A


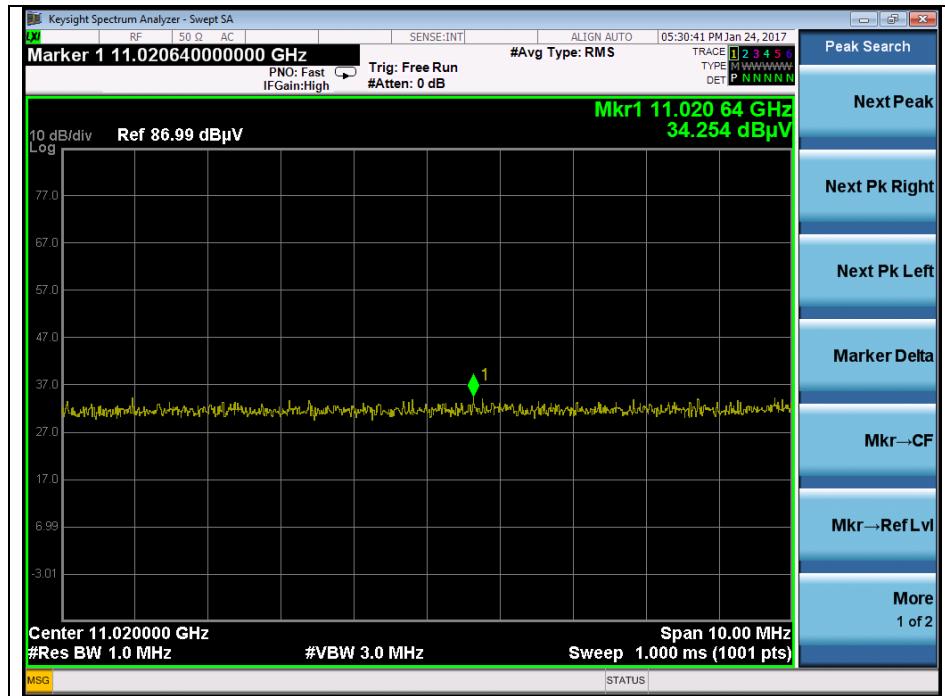
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A4(210 mm x 297 mm)

Low channel 2nd harmonic (Peak) - Band 2C

Low channel 2nd harmonic (Average) - Band 2C

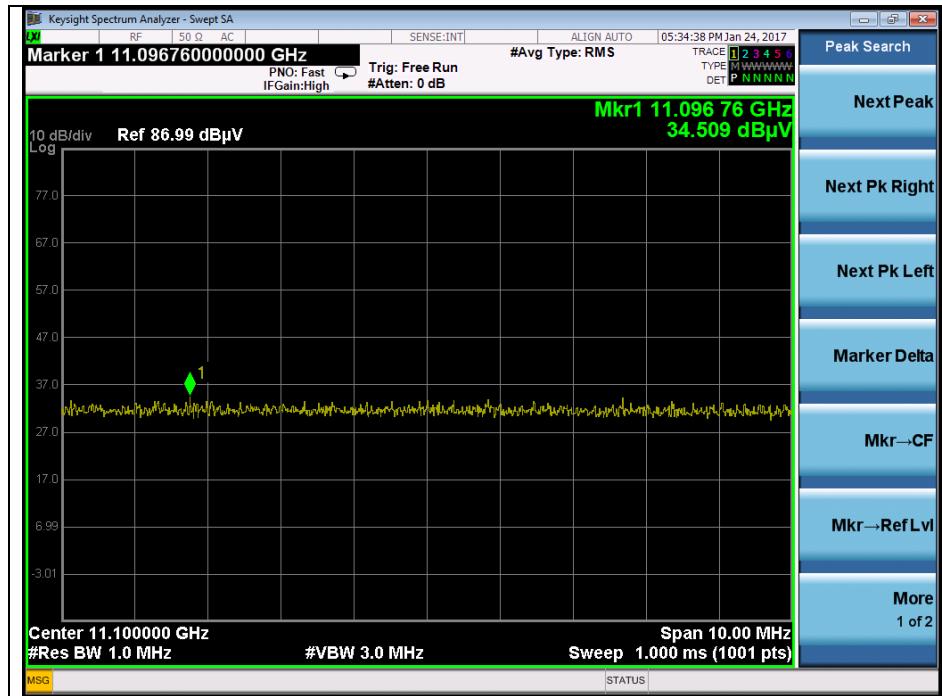
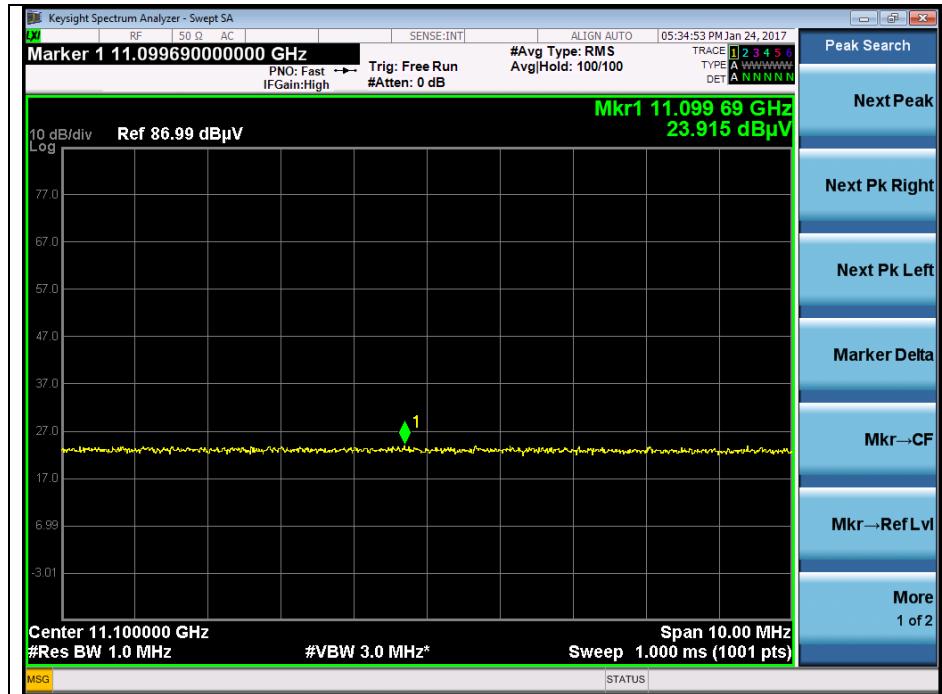

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A4(210 mm x 297 mm)

Middle channel 2nd harmonic (Peak) - Band 2C

Middle channel 2nd harmonic (Average) - Band 2C


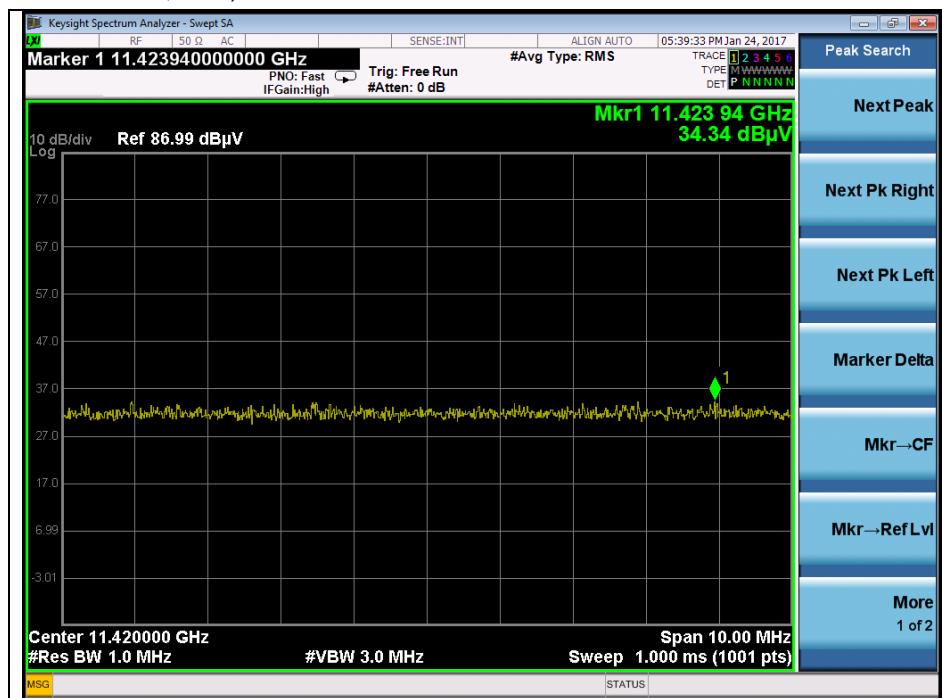
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A4(210 mm x 297 mm)

High channel 2nd harmonic (Peak) - Band 2CHigh channel 2nd harmonic (Average) - Band 2C

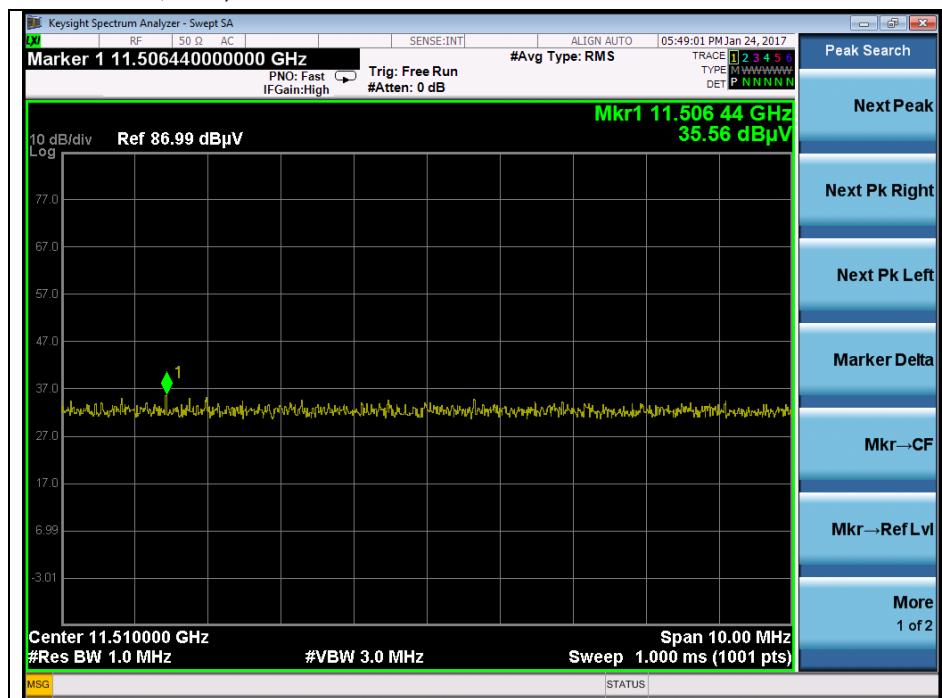
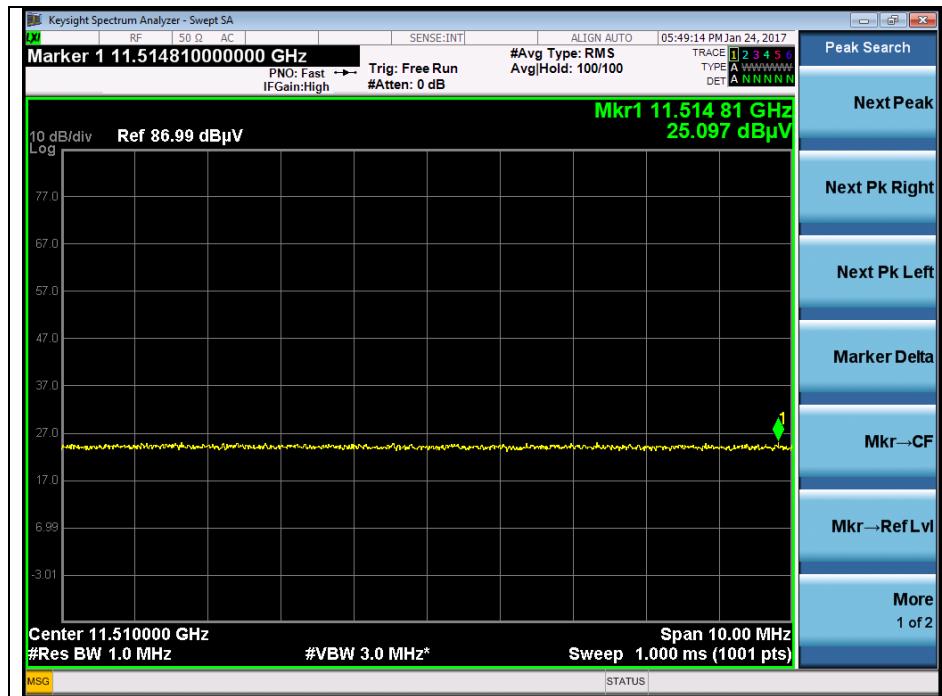
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A4(210 mm x 297 mm)

Low channel 2nd harmonic (Peak) - Band 3

Low channel 2nd harmonic (Average) - Band 3


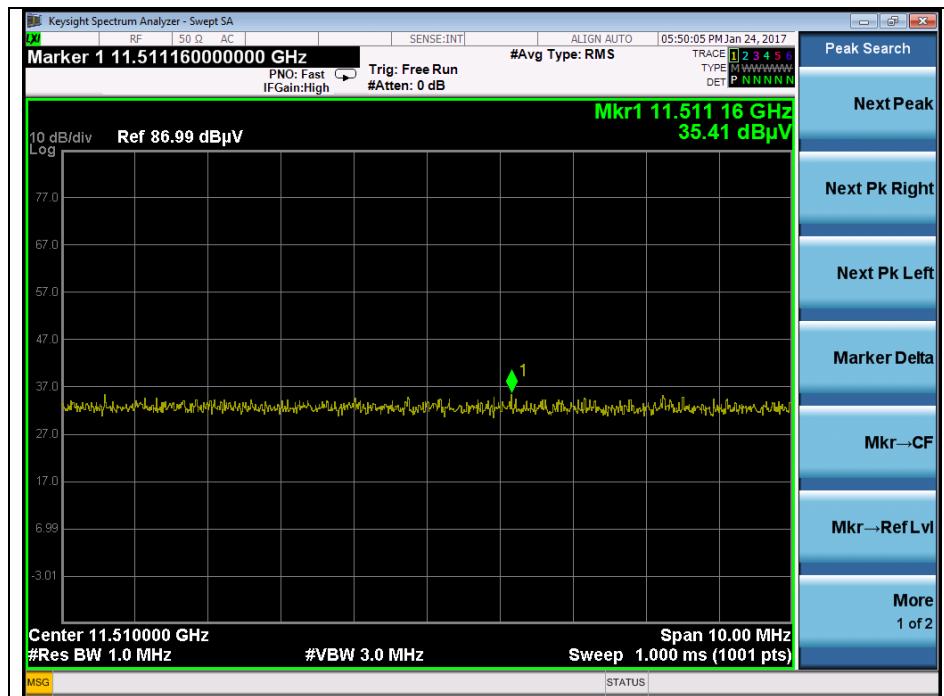
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A4(210 mm x 297 mm)

High channel 2nd harmonic (Peak) - Band 3

High channel 2nd harmonic (Average) - Band 3

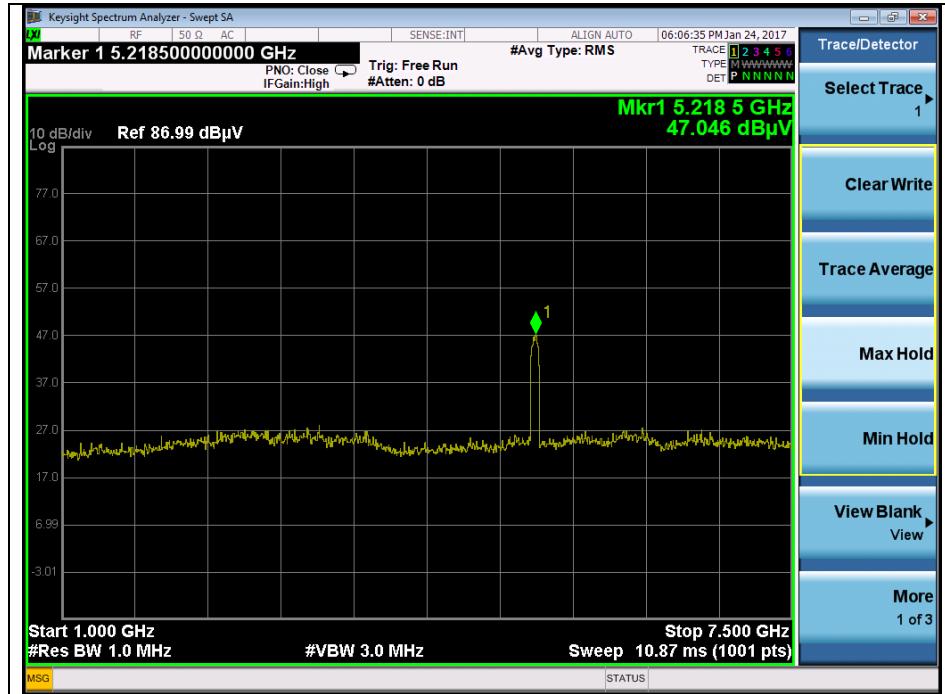
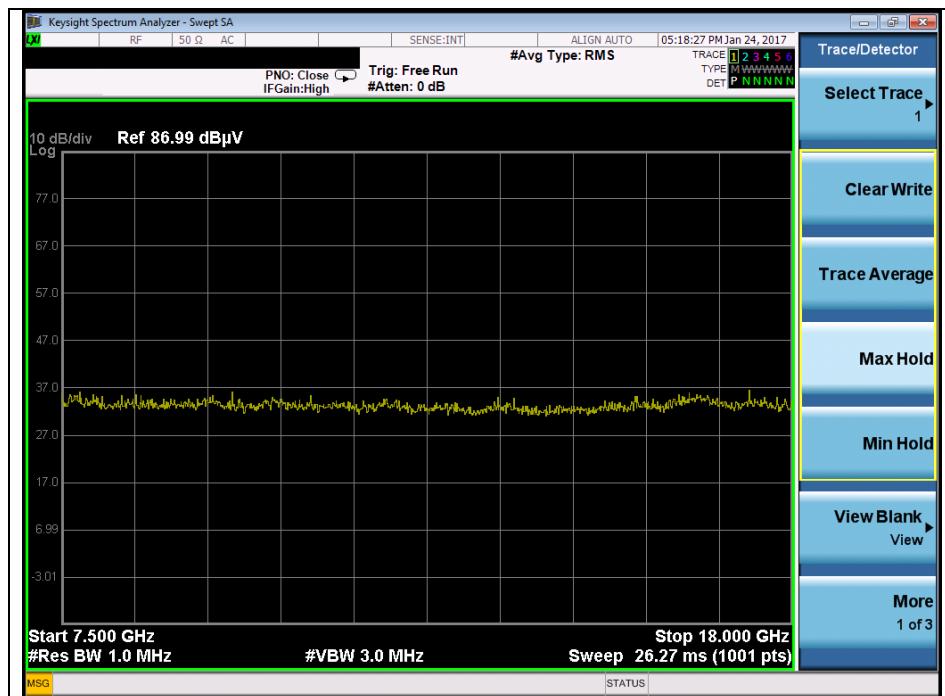

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A4(210 mm x 297 mm)

Scanning Plots: 802.11ac_VHT80(MCS0)**1 GHz ~ 7.5 GHz****7.5 GHz ~ 18 GHz**

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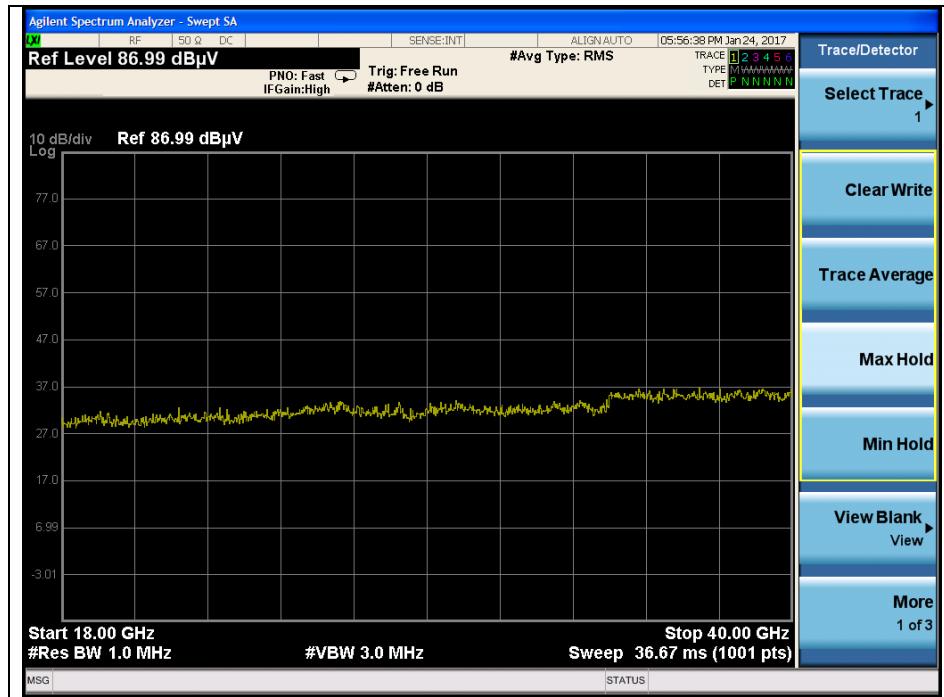
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A4(210 mm x 297 mm)

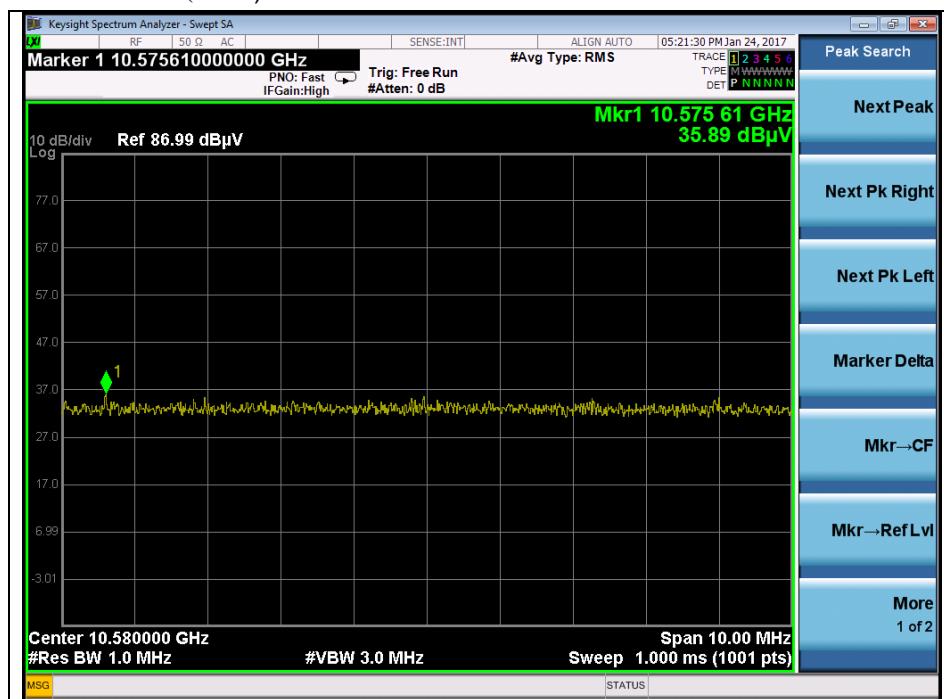
18 GHz ~ 40 GHz

**Note:** Emission was scanned up to 40 GHz.

No emissions were detected above the noise floor which was at least 20 dB below the specification limit.

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OFDM : 802.11ac_VHT80(MCS0)Middle channel 2nd harmonic (Peak) - Band 2A

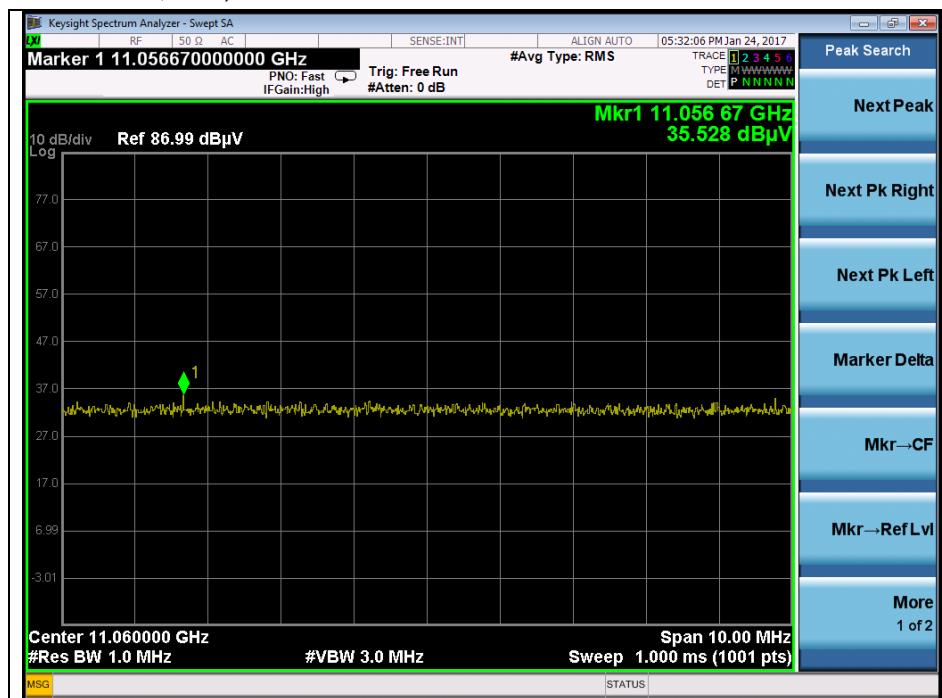
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A4(210 mm x 297 mm)

Low channel 2nd harmonic (Peak) - Band 2C

Low channel 2nd harmonic (Average) - Band 2C

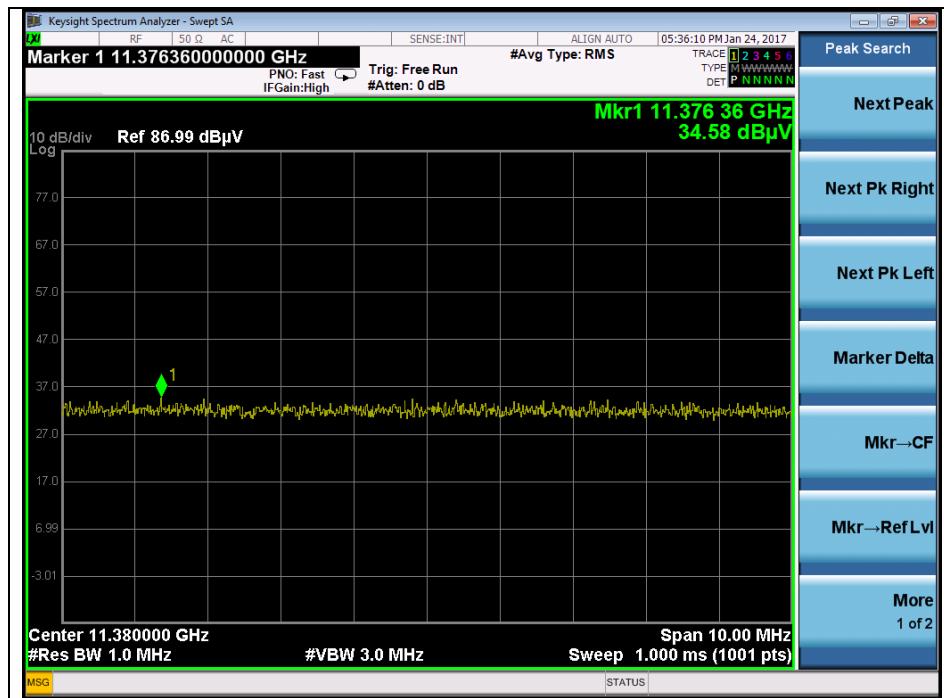
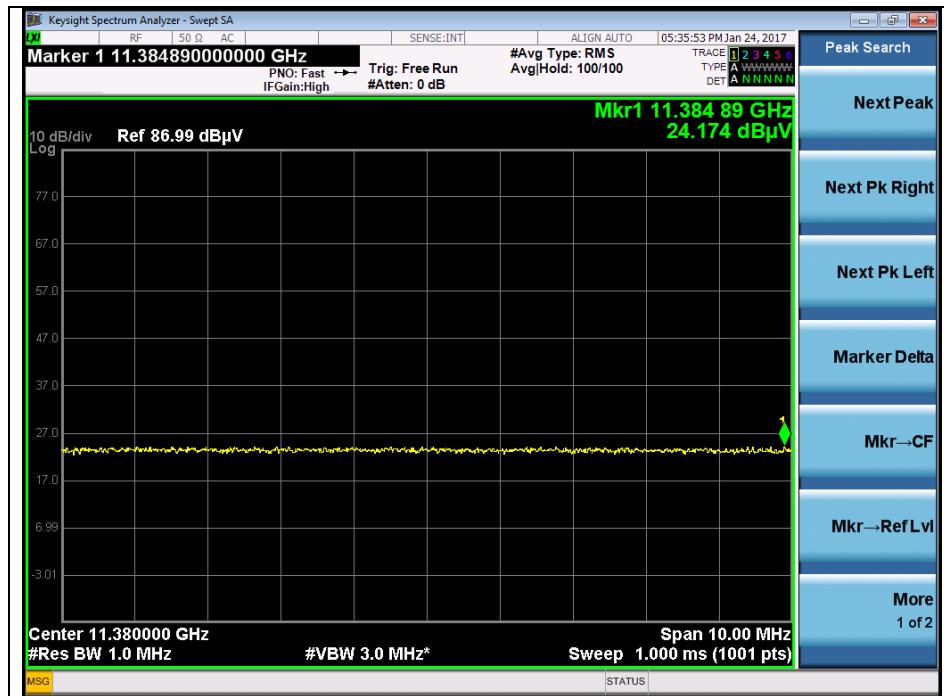

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A4(210 mm x 297 mm)

High channel 2nd harmonic (Peak) - Band 2C

High channel 2nd harmonic (Average) - Band 2C


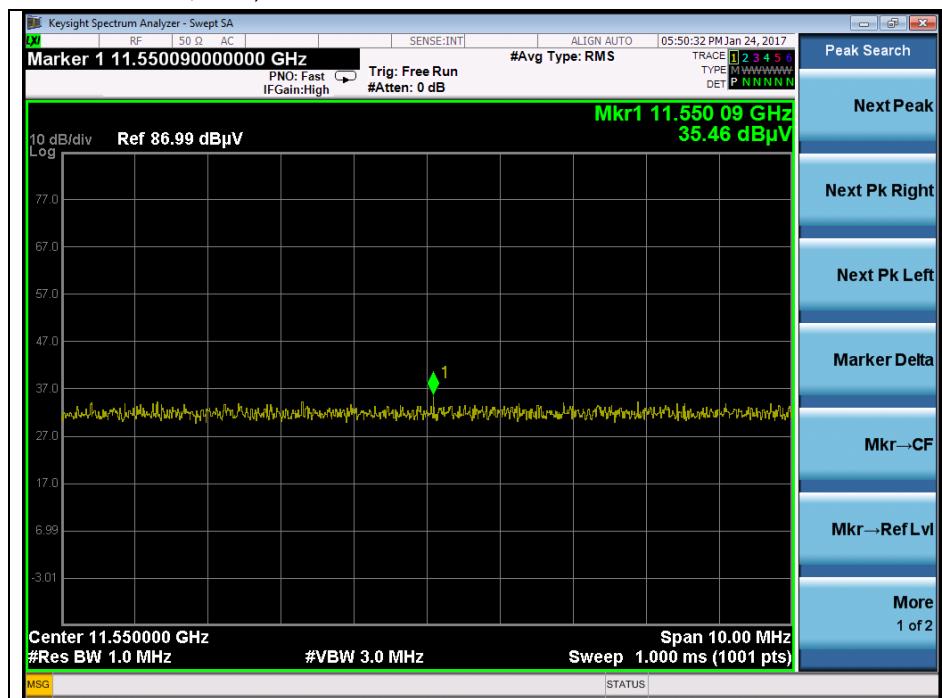
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A4(210 mm x 297 mm)

Middle channel 2nd harmonic (Peak) - Band 3

Middle channel 2nd harmonic (Average) - Band 3


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A4(210 mm x 297 mm)

3. 26 dB Bandwidth & 99 % Bandwidth

3.1. Test setup



3.2. Limit

None; for reporting purpose only.

3.3. Test procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

3.3.1. 26 dB Bandwidth

1. This measurement settings are specified in section C.1 of KDB 789033_D02 v01r03.
2. Set RBW: approximately 1 % of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

3.2.2. 99 % Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW.
4. Set VBW $\geq 3 \cdot \text{RBW}$.
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % occupied bandwidth is the difference between these two frequencies.

In the result,

- DFS requirements are not applicable in the 5 150 MHz - 5 250 MHz.

Remark:

In case of band crossing channels 138, 142 and 144, the measurement is complied with section D of KDB 644545_D03 v01.

3.4. Test result

Ambient temperature : (23 ± 1) °C

Relative humidity : 47 % R.H.

Mode	Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
11a	U-NII 1	5 180	36	6Mbps	21.360	-
		5 220	44	6Mbps	21.476	-
		5 240	48	6Mbps	21.505	17.308
	U-NII 2A	5 260	52	6Mbps	21.534	-
		5 300	60	6Mbps	21.360	-
		5 320	64	6Mbps	21.331	-
	U-NII 2C	5 500	100	6Mbps	21.592	-
		5 580	116	6Mbps	21.650	-
		5 700	140	6Mbps	21.534	-
	U-NII 3	5 745	149	6Mbps	21.534	-
		5 785	157	6Mbps	21.708	-
		5 825	165	6Mbps	21.360	-

Mode	Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
11n_HT20	U-NII 1	5 180	36	MCS0	21.881	-
		5 220	44	MCS0	21.881	-
		5 240	48	MCS0	21.852	18.350
	U-NII 2A	5 260	52	MCS0	21.766	-
		5 300	60	MCS0	21.881	-
		5 320	64	MCS0	21.823	-
	U-NII 2C	5 500	100	MCS0	21.592	-
		5 580	116	MCS0	21.708	-
		5 700	140	MCS0	21.650	-
	U-NII 3	5 745	149	MCS0	21.881	-
		5 785	157	MCS0	21.939	-
		5 825	165	MCS0	21.881	-

Mode	Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
11n_HT40	U-NII 1	5 190	38	MCS0	40.410	-
		5 230	46	MCS0	40.780	36.932
	U-NII 2A	5 270	54	MCS0	40.640	-
		5 310	62	MCS0	40.570	-
	U-NII 2C	5 510	102	MCS0	40.520	-
		5 550	110	MCS0	40.640	-
		5 670	134	MCS0	40.980	-
	U-NII 3	5 755	151	MCS0	40.520	-
		5 795	159	MCS0	40.570	-

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A4(210 mm × 297 mm)

Mode	Band	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
11ac_VHT80	U-NII 1	5 210	42	MCS0	81.740	75.253
	U-NII 2A	5 290	58	MCS0	82.160	-
	U-NII 2C	5 530	106	MCS0	81.970	-
		5 690	138	MCS0	84.050	-
	U-NII 3	5 775	155	MCS0	83.360	-

Band	Mode	Frequency (MHz)	Ch.	Data Rate	26 dB Bandwidth (MHz)
U-NII 2C (Band-crossing channel)	11a	5 720	144	6Mbps	15.709
	11n_HT20	5 720	144	MCS0	15.651
	11n_HT40	5 710	142	MCS0	35.100
	11ac_VHT80	5 690	138	MCS0	76.780

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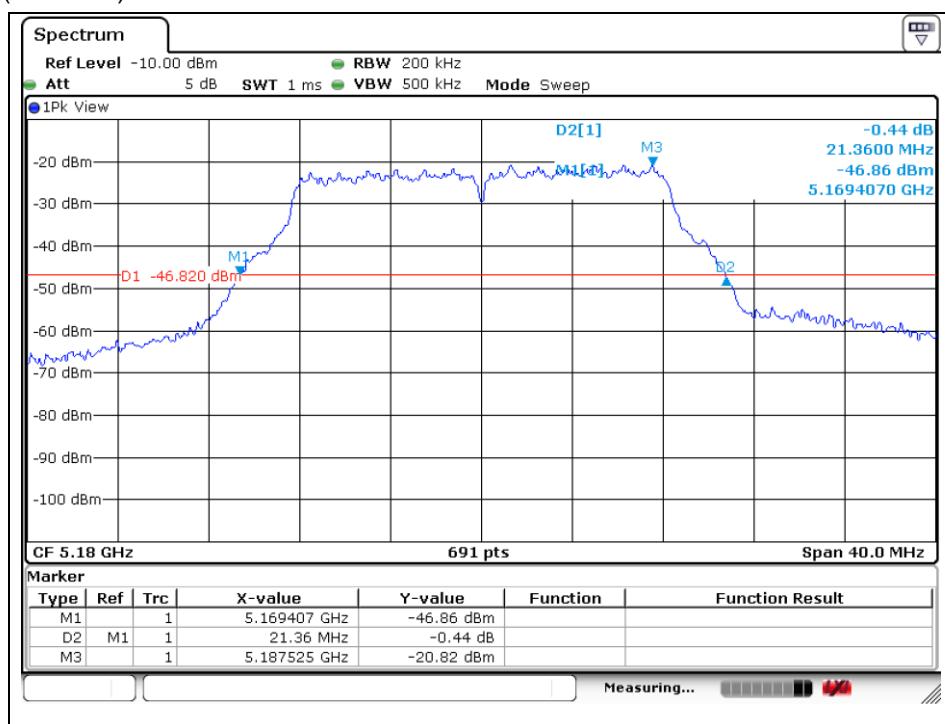
Tel. +82 31 428 5700 / Fax. +82 31 427 2370

A4(210 mm x 297 mm)

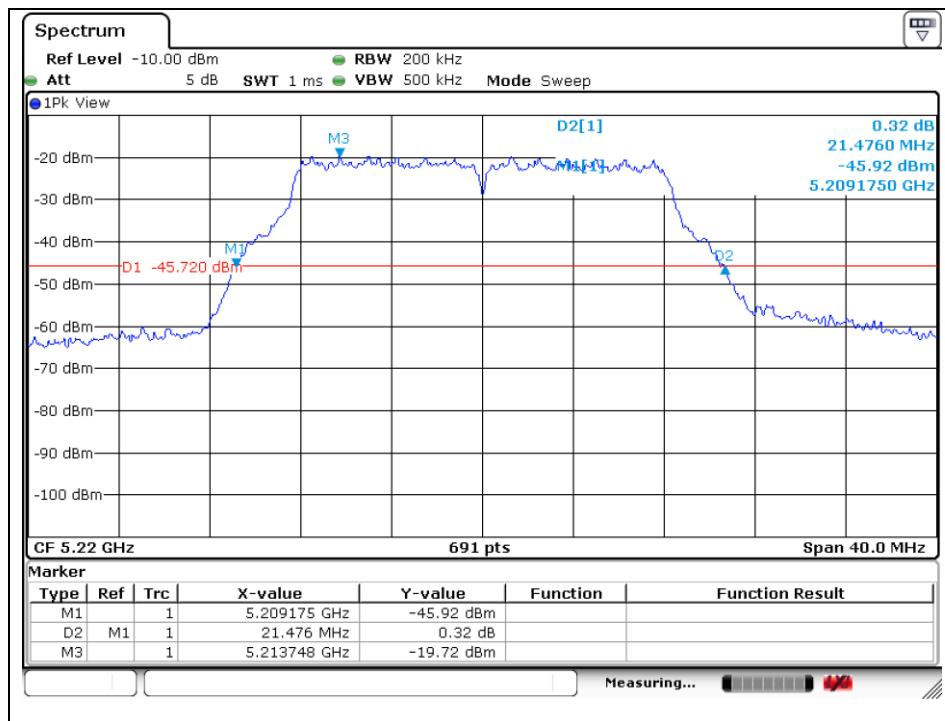
26 dB Bandwidth

802.11a (Band 1)

Low Channel (5 180 MHz)



Middle Channel (5 220 MHz)



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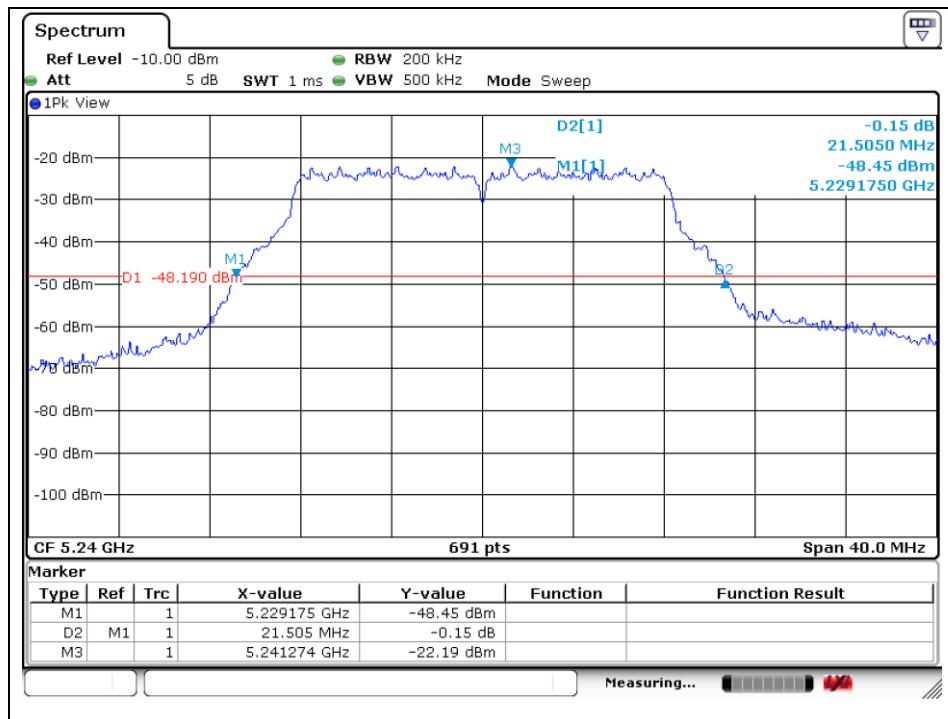
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

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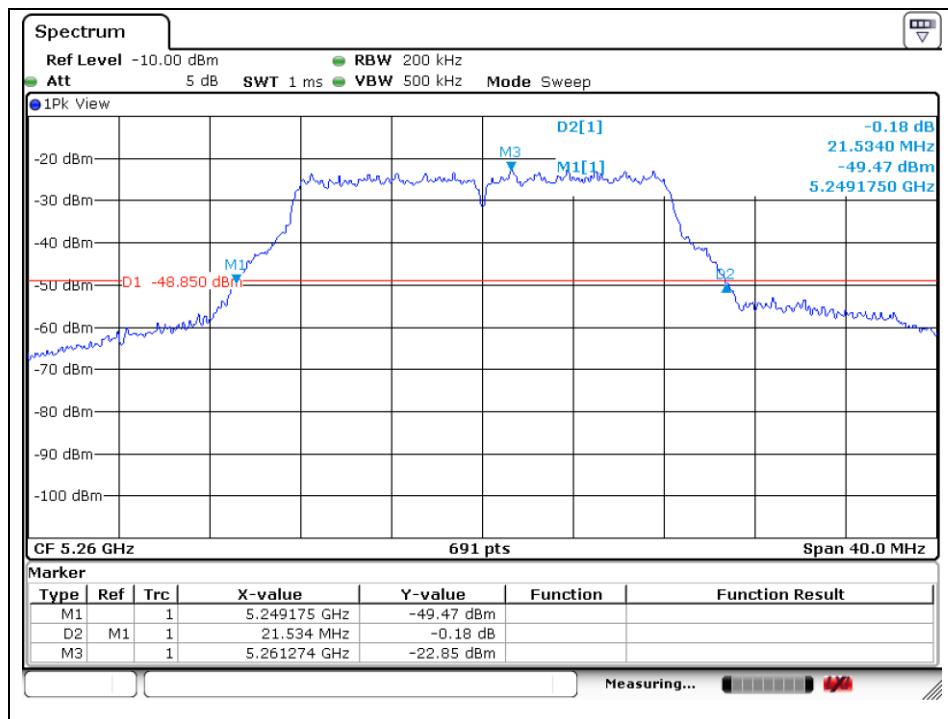
A4(210 mm x 297 mm)

High Channel (5.240 MHz)



802.11a (Band 2A)

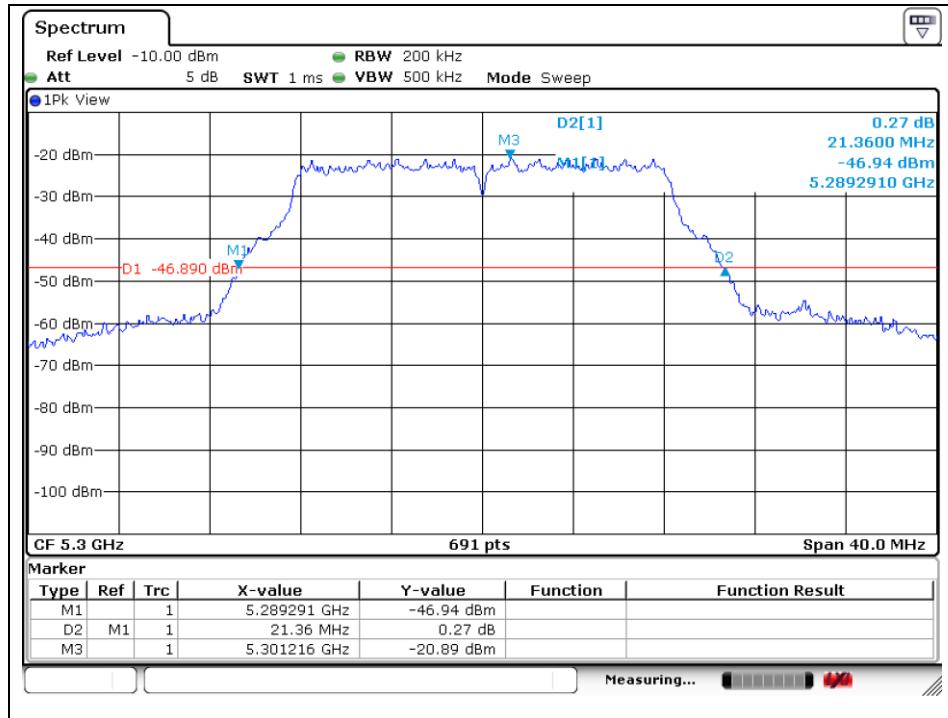
Low Channel (5.260 MHz)



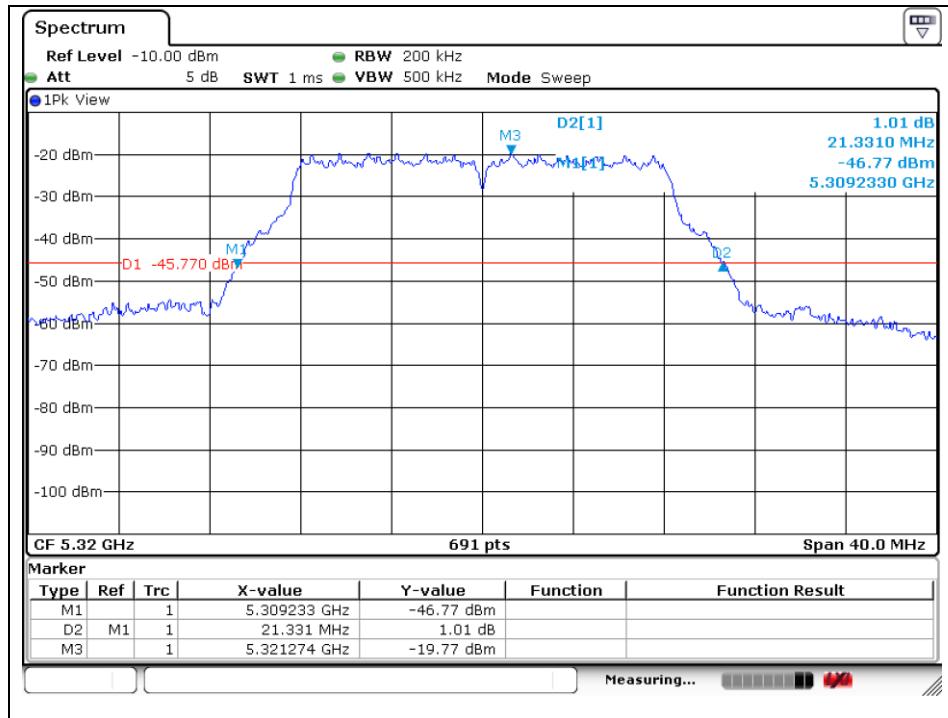
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Middle Channel (5 300 MHz)



High Channel (5 320 MHz)



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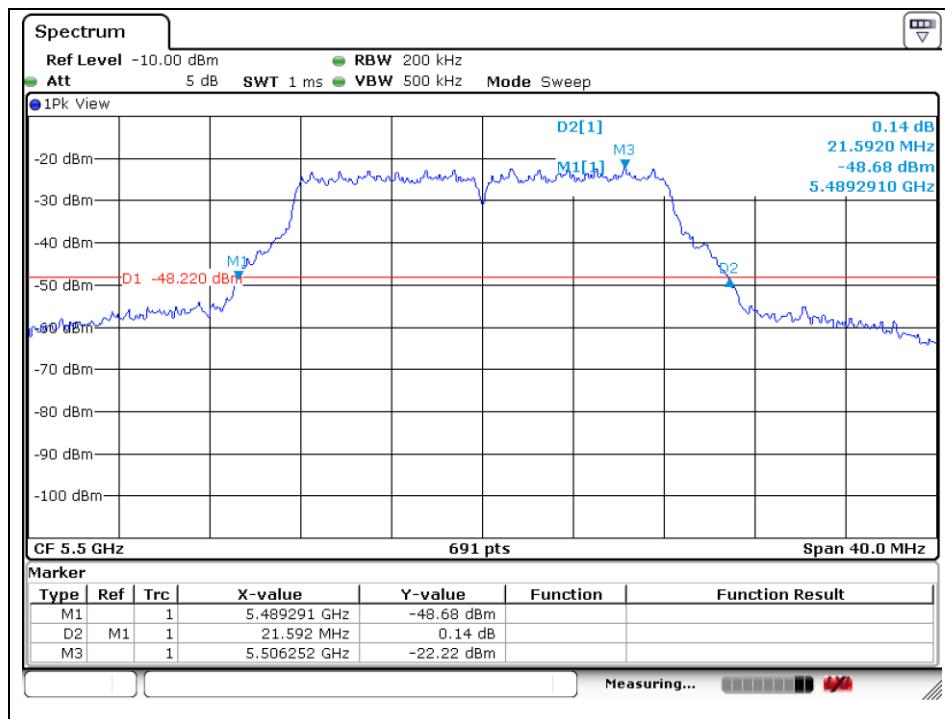
RTT5041-20(2015.10.01)(3)

Tel. +82 31 428 5700 / Fax. +82 31 427 2370

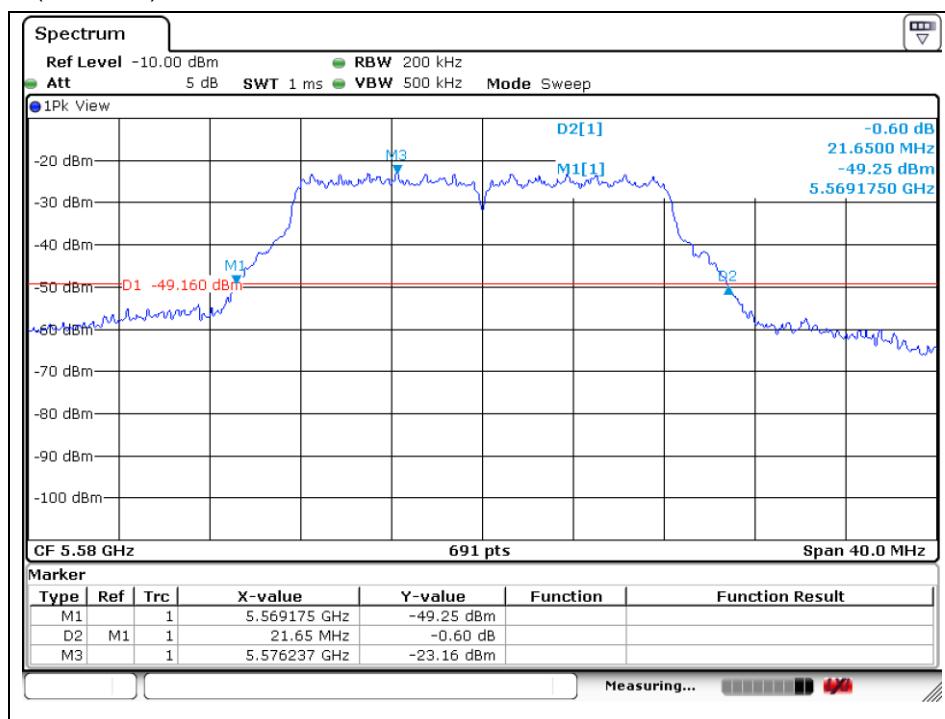
A4(210 mm x 297 mm)

802.11a (Band 2C)

Low Channel (5 500 MHz)



Middle Channel (5 580 MHz)



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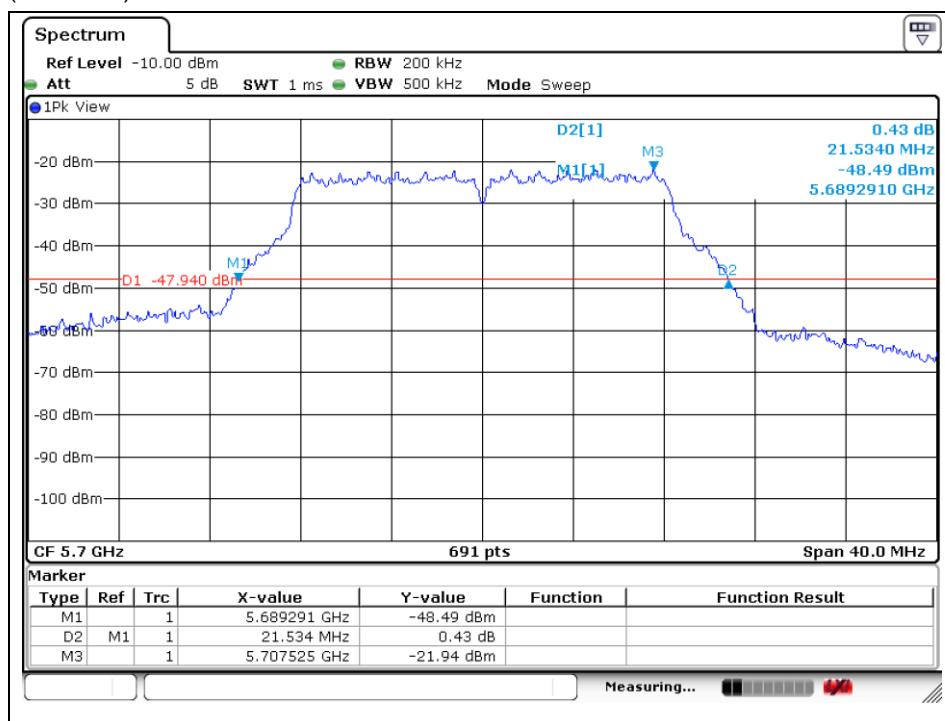
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

RTT5041-20(2015.10.01)(3)

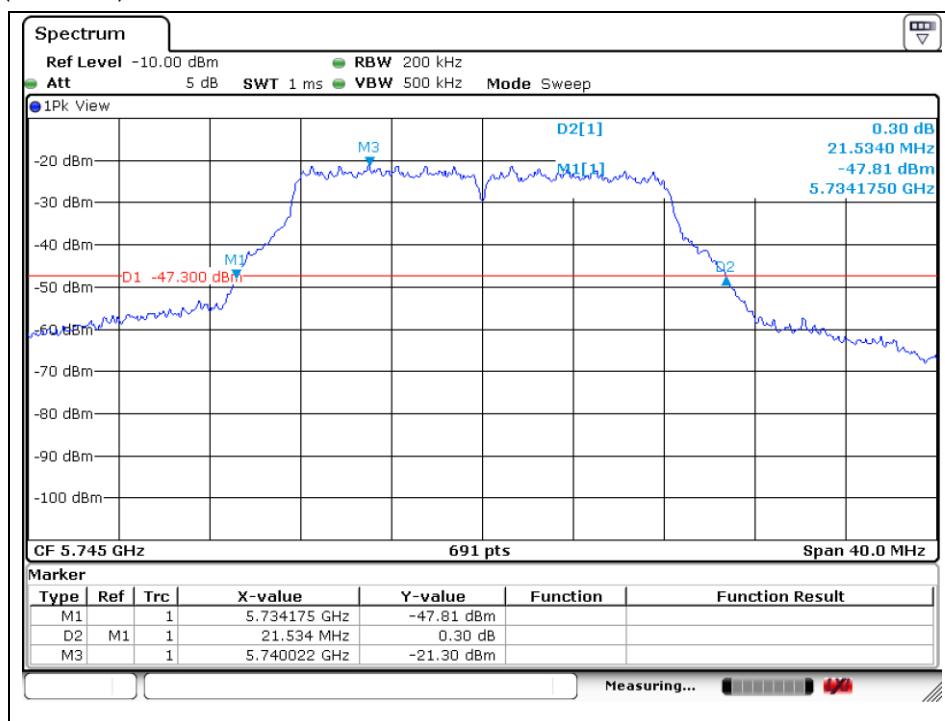
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A4(210 mm x 297 mm)

High Channel (5 700 MHz)


802.11a (Band 3)

Low Channel (5 745 MHz)



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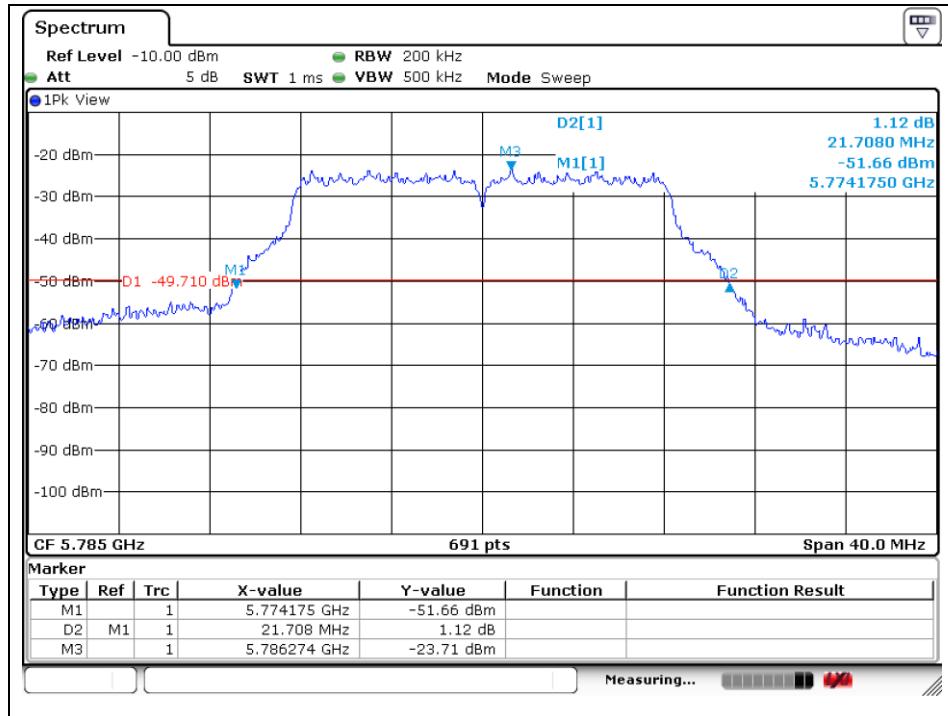
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

RTT5041-20(2015.10.01)(3)

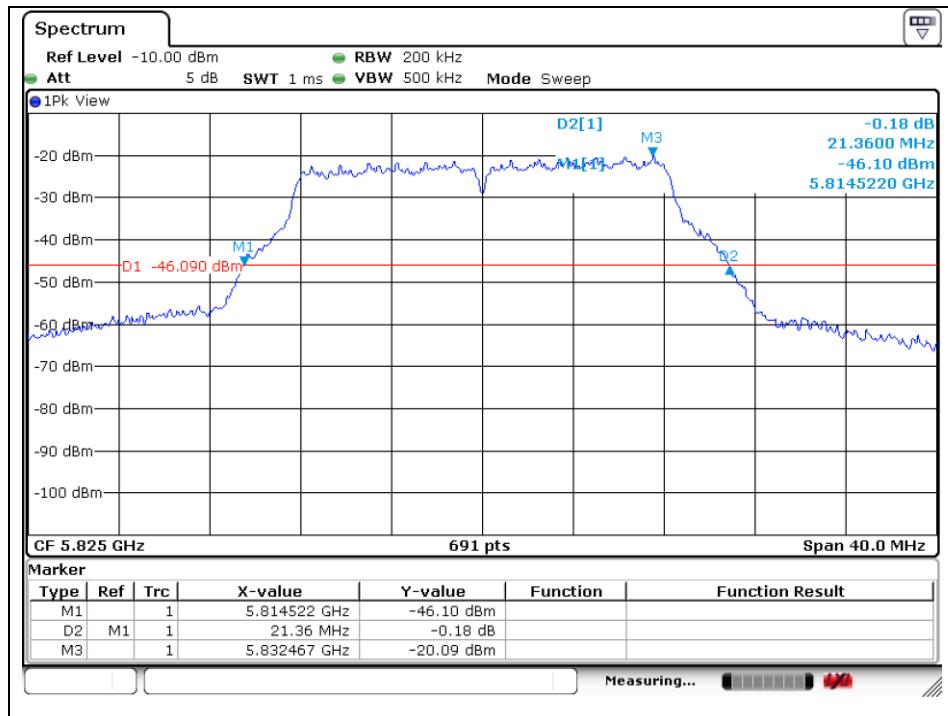
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A4(210 mm x 297 mm)

Middle Channel (5 785 MHz)



High Channel (5 825 MHz)

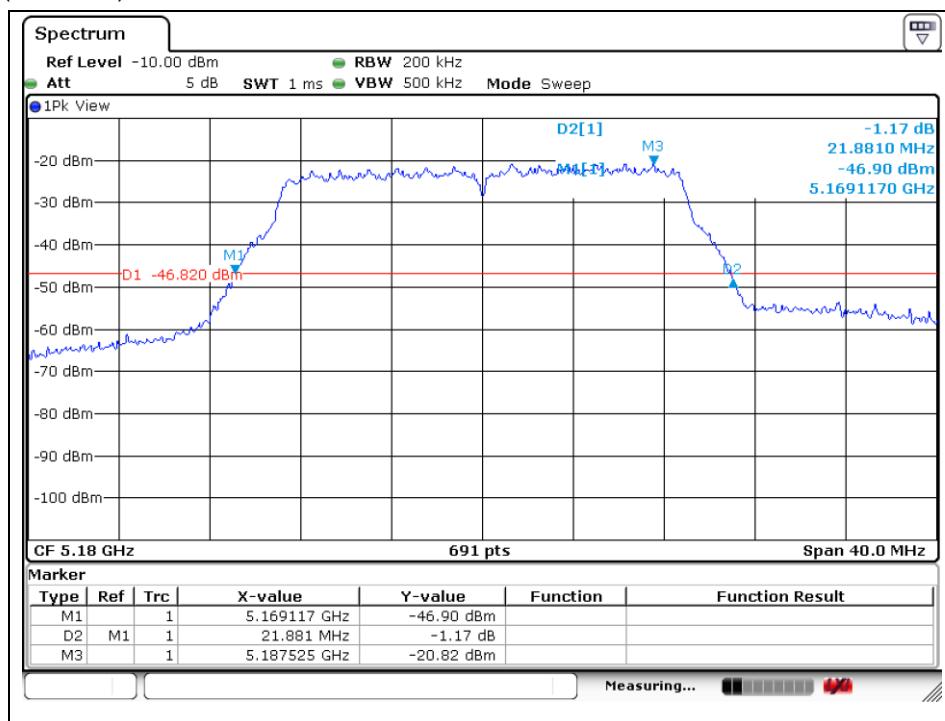


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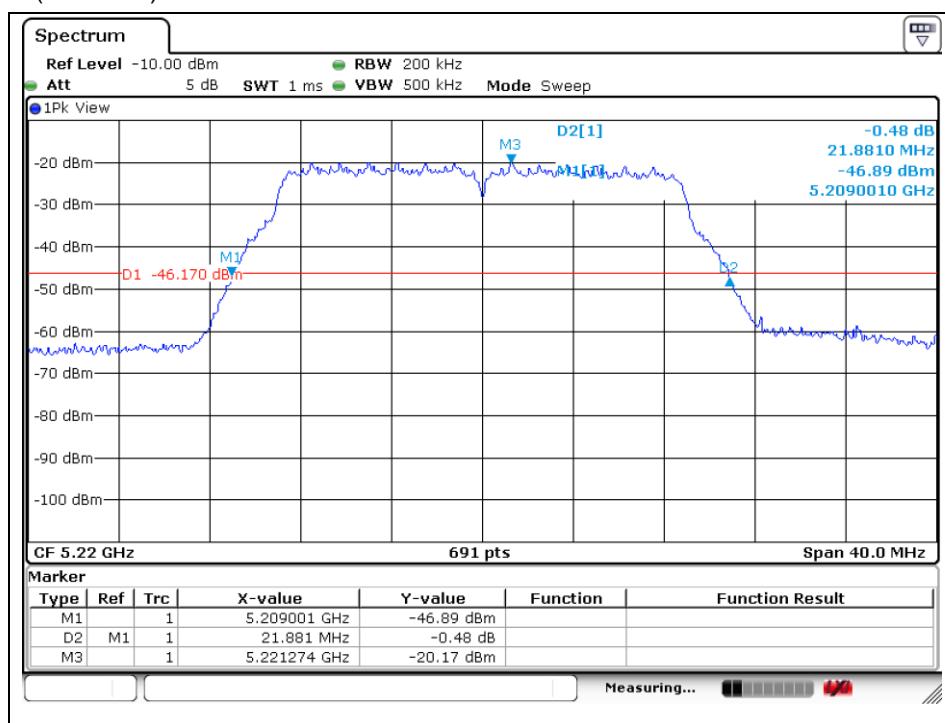
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

802.11n_HT20 (Band 1)

Low Channel (5 180 MHz)



Middle Channel (5 220 MHz)



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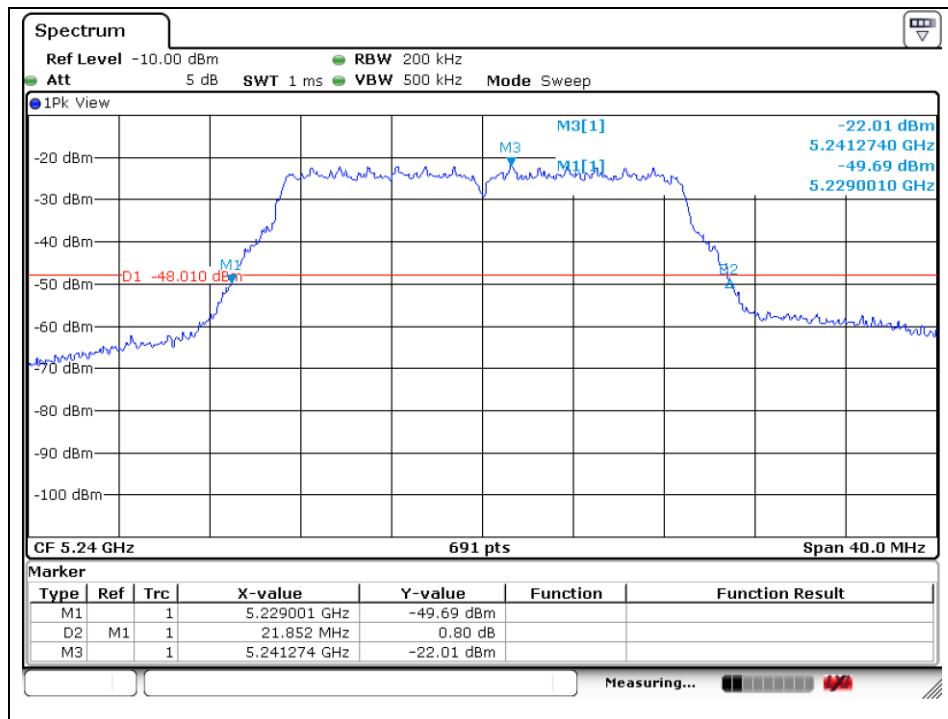
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

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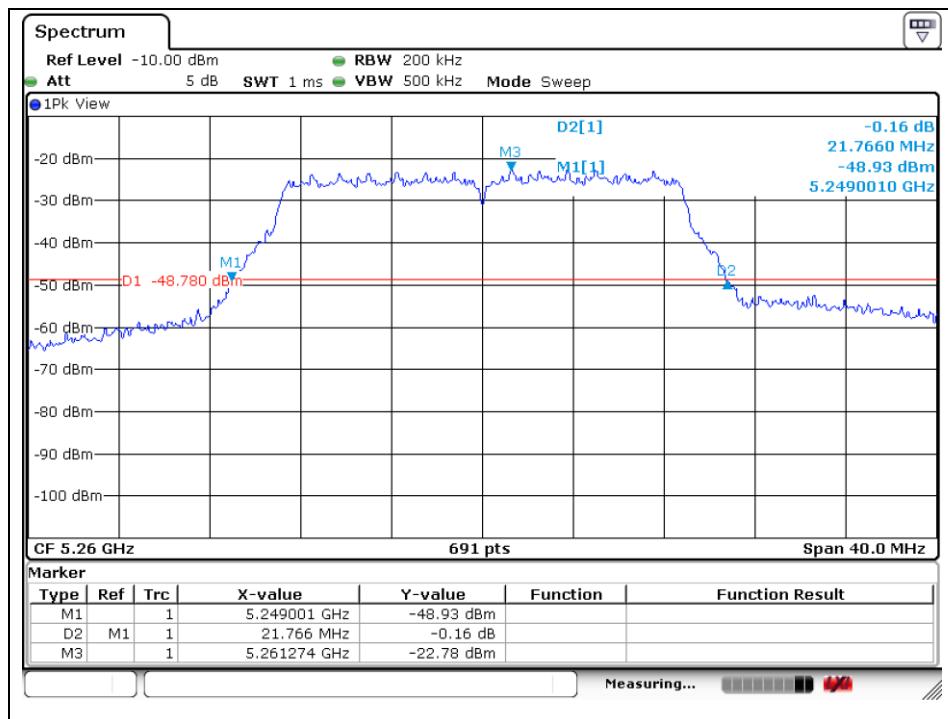
A4(210 mm x 297 mm)

High Channel (5.240 MHz)



802.11n_HT20 (Band 2A)

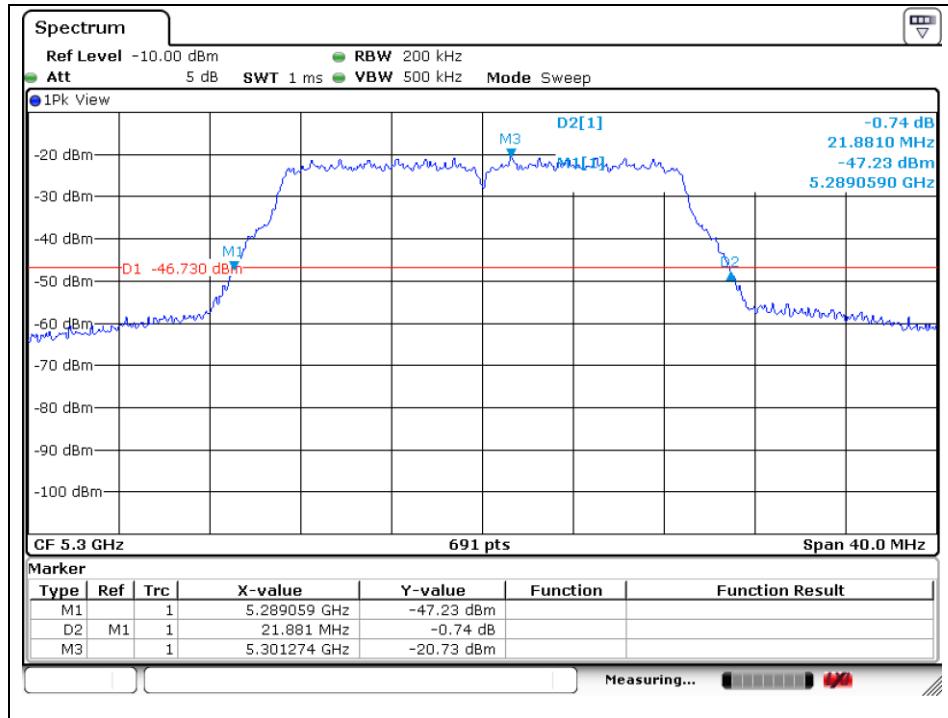
Low Channel (5.260 MHz)



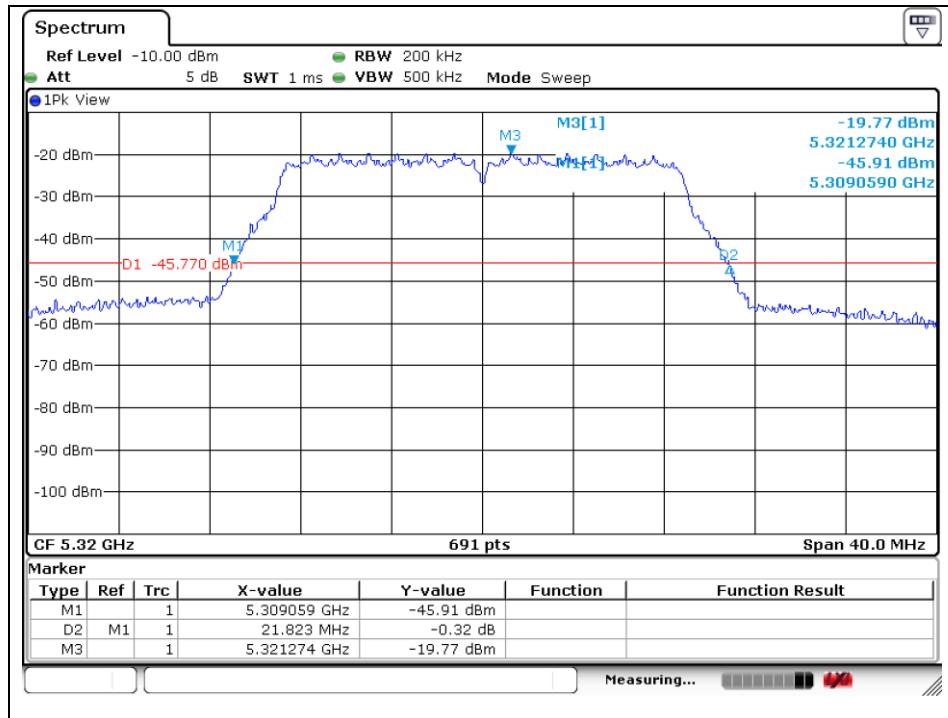
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Middle Channel (5 300 MHz)



High Channel (5 320 MHz)

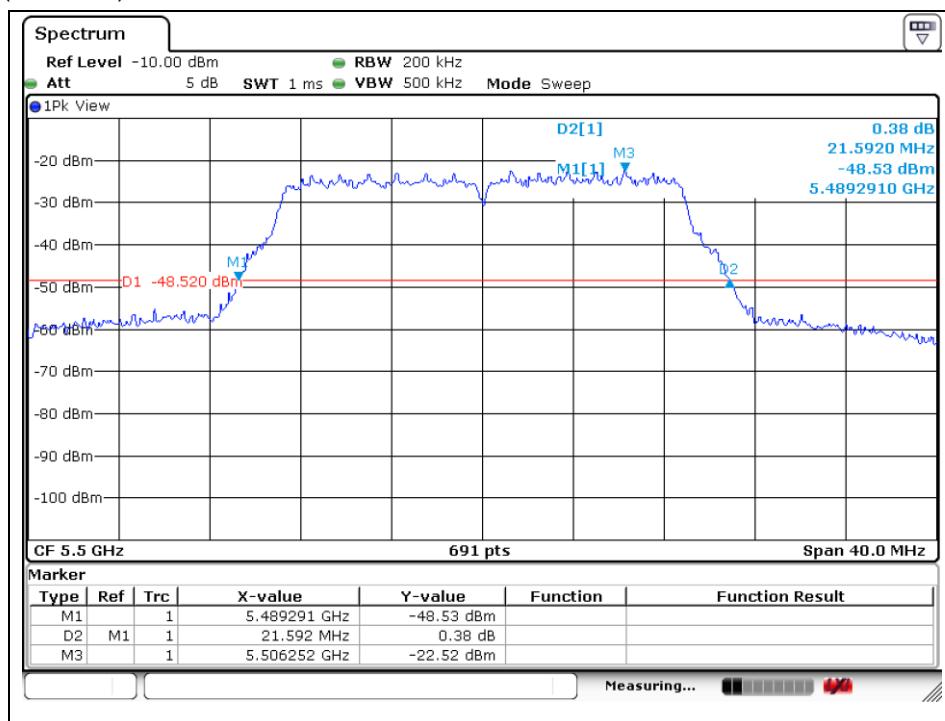


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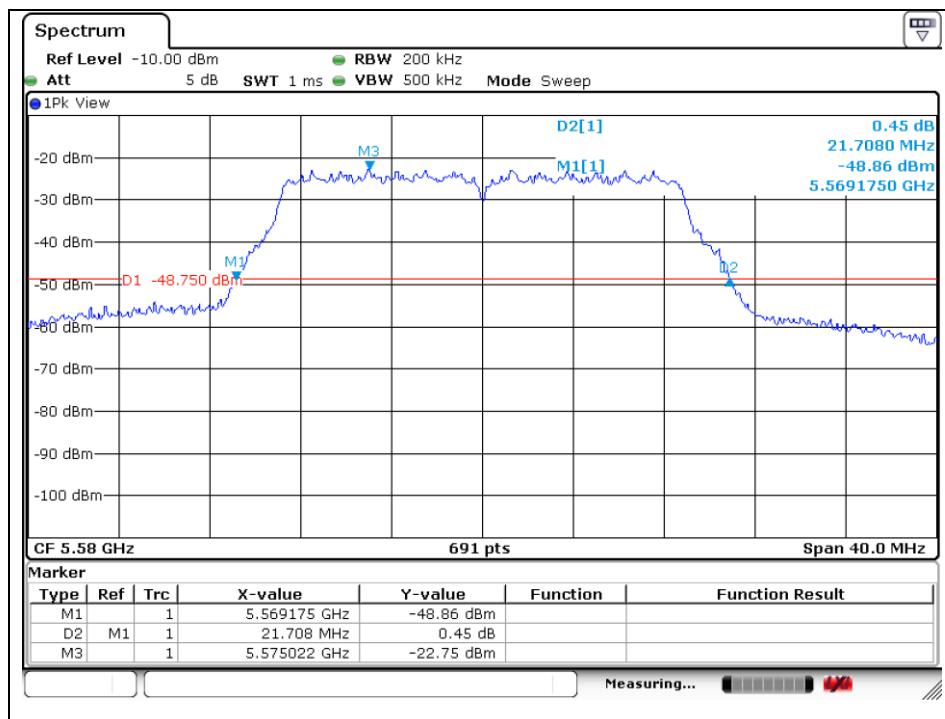
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

802.11n_HT20 (Band 2C)

Low Channel (5 500 MHz)



Middle Channel (5 580 MHz)



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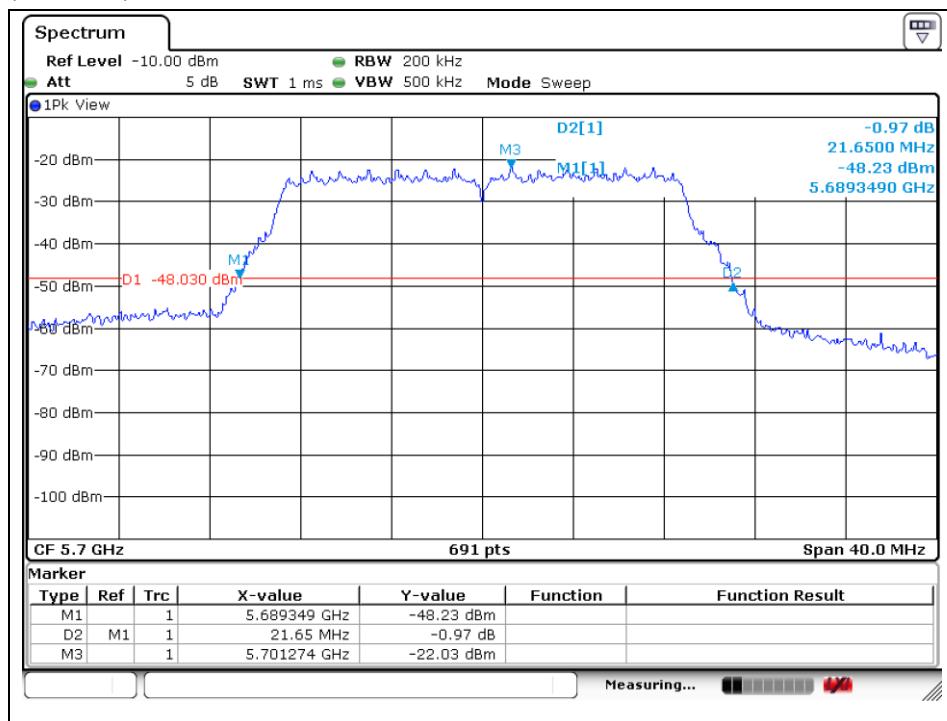
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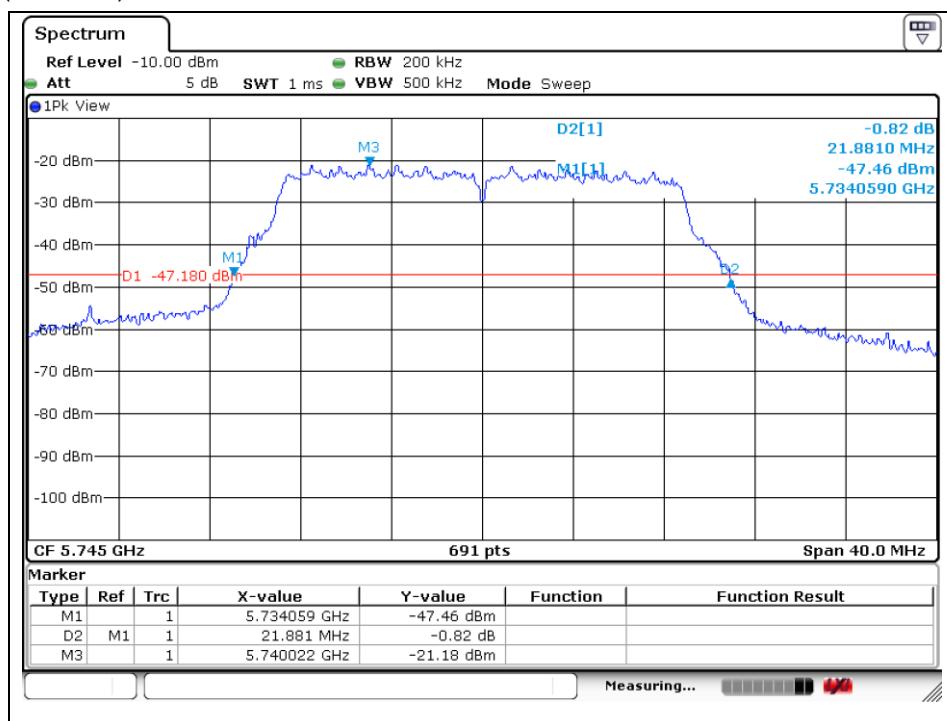
A4(210 mm x 297 mm)

High Channel (5 700 MHz)



802.11n_HT20 (Band 3)

Low Channel (5 745 MHz)



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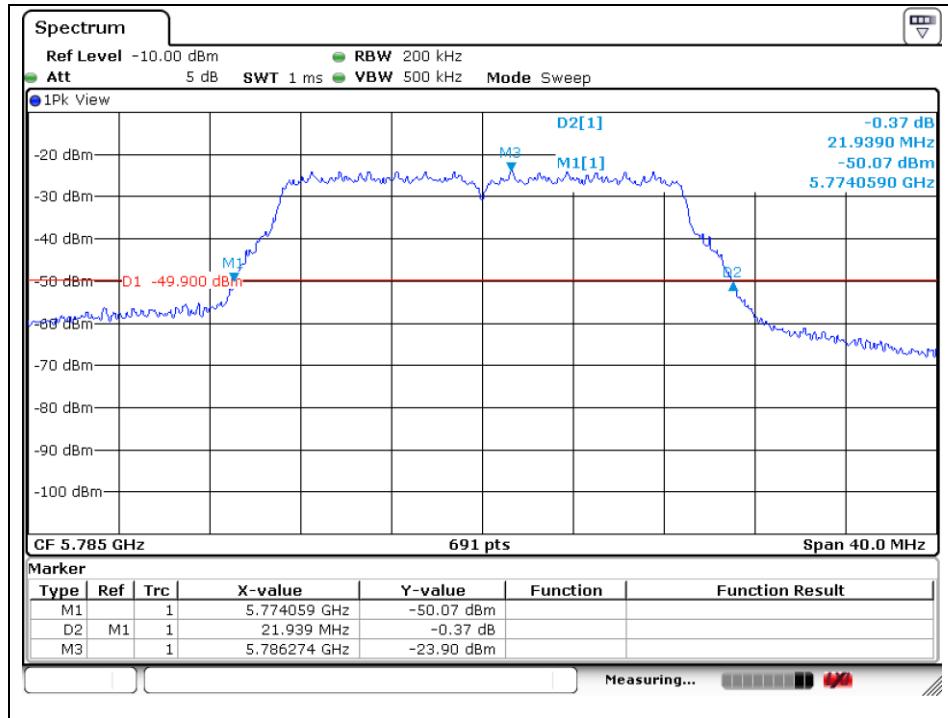
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

RTT5041-20(2015.10.01)(3)

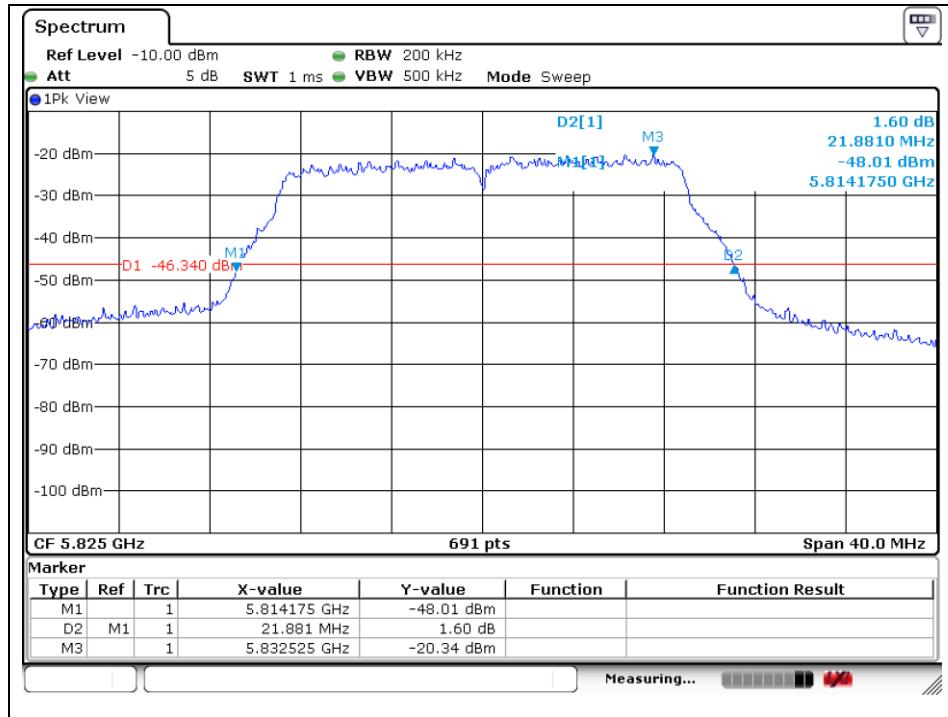
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A4(210 mm x 297 mm)

Middle Channel (5 785 MHz)



High Channel (5 825 MHz)



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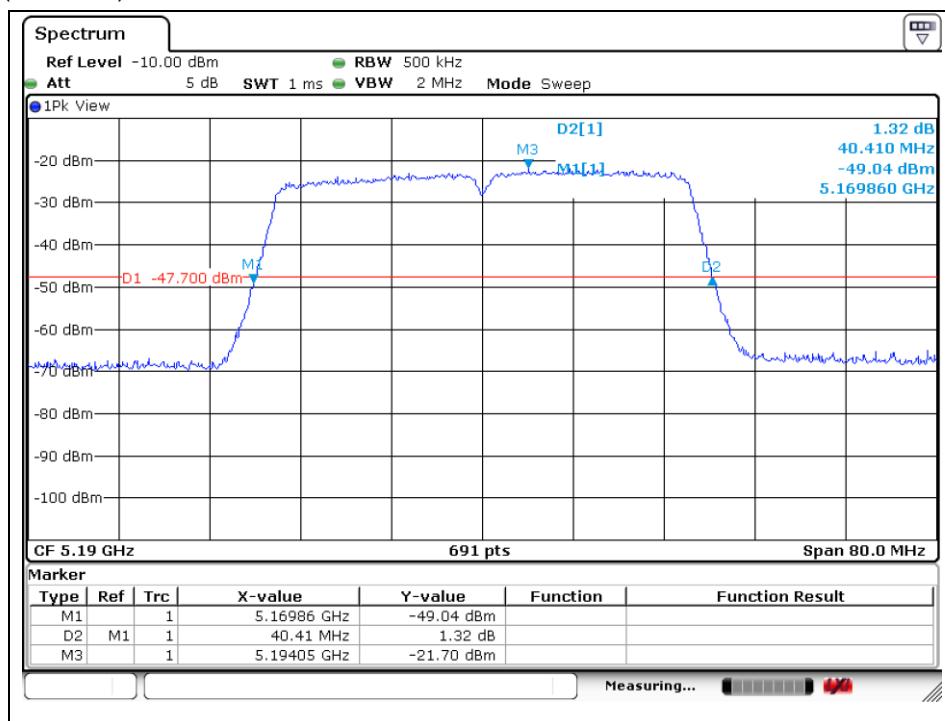
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Tel. +82 31 428 5700 / Fax. +82 31 427 2370

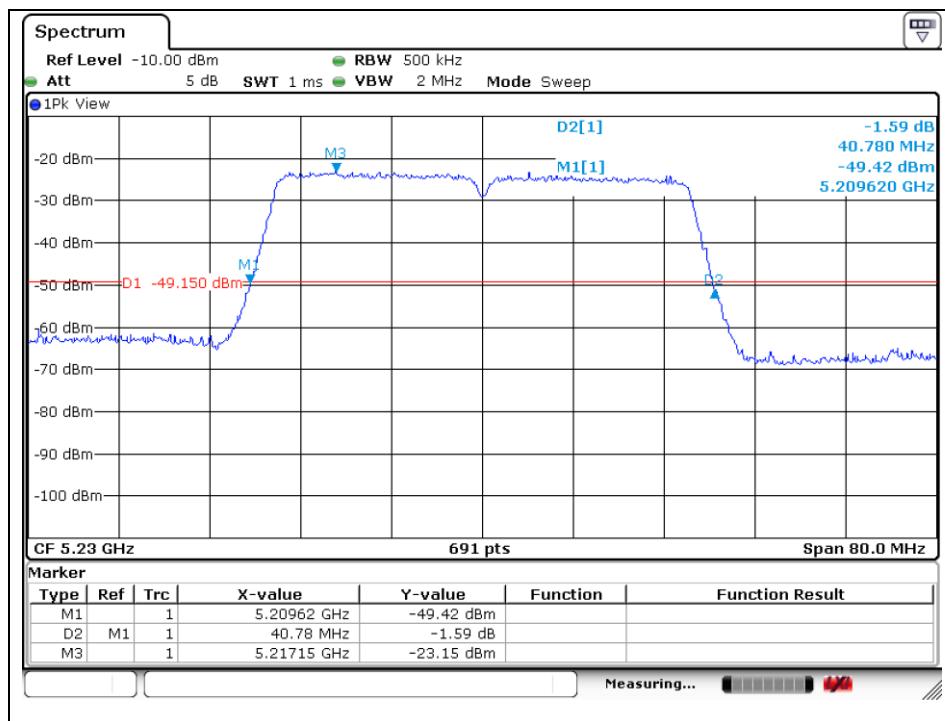
A4(210 mm x 297 mm)

802.11n_HT40 (Band 1)

Low Channel (5 190 MHz)



High Channel (5 230 MHz)



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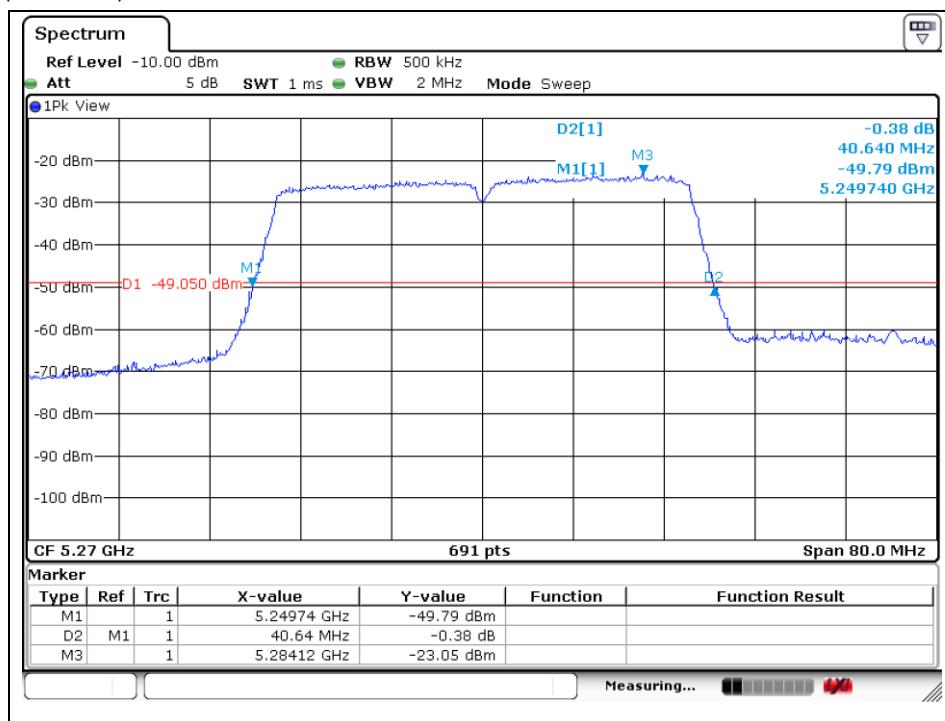
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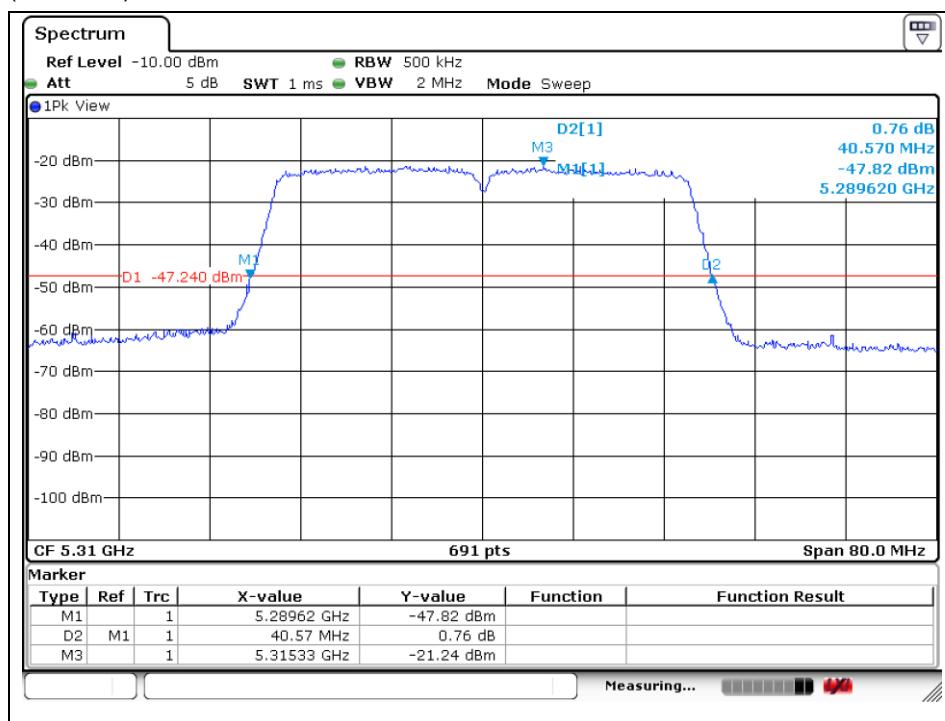
A4(210 mm x 297 mm)

802.11n_HT40 (Band 2A)

Low Channel (5 270 MHz)



High Channel (5 310 MHz)



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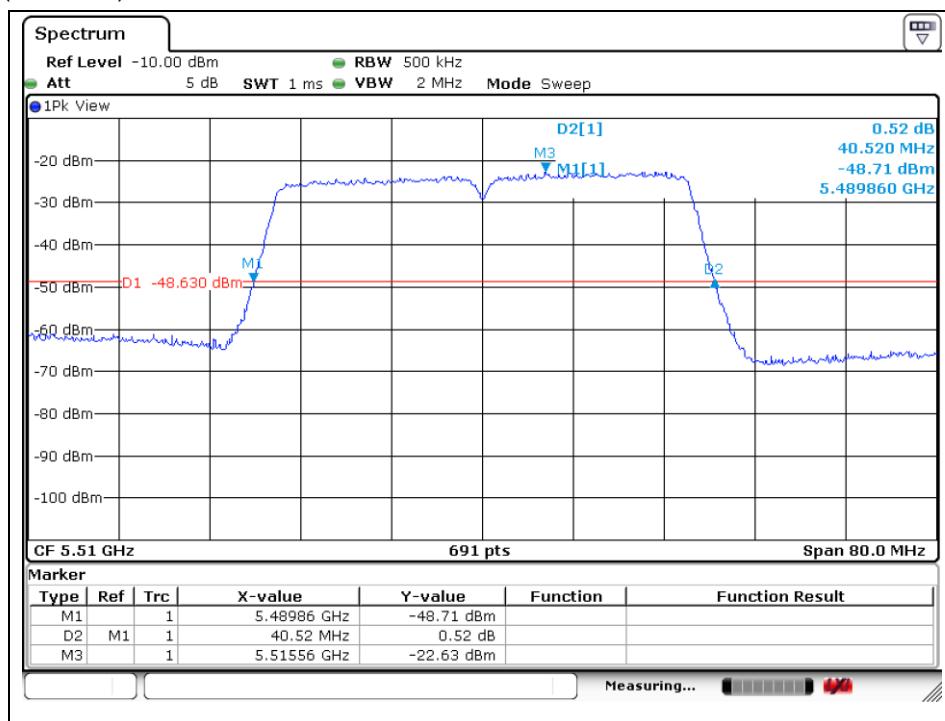
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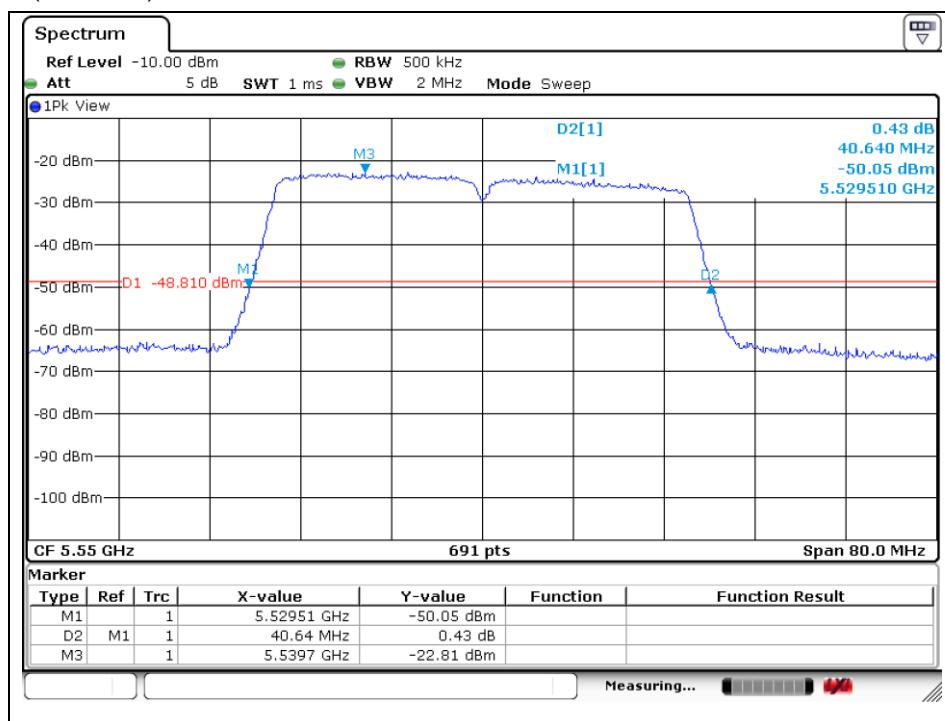
A4(210 mm x 297 mm)

802.11n_HT40 (Band 2C)

Low Channel (5 510 MHz)



Middle Channel (5 550 MHz)



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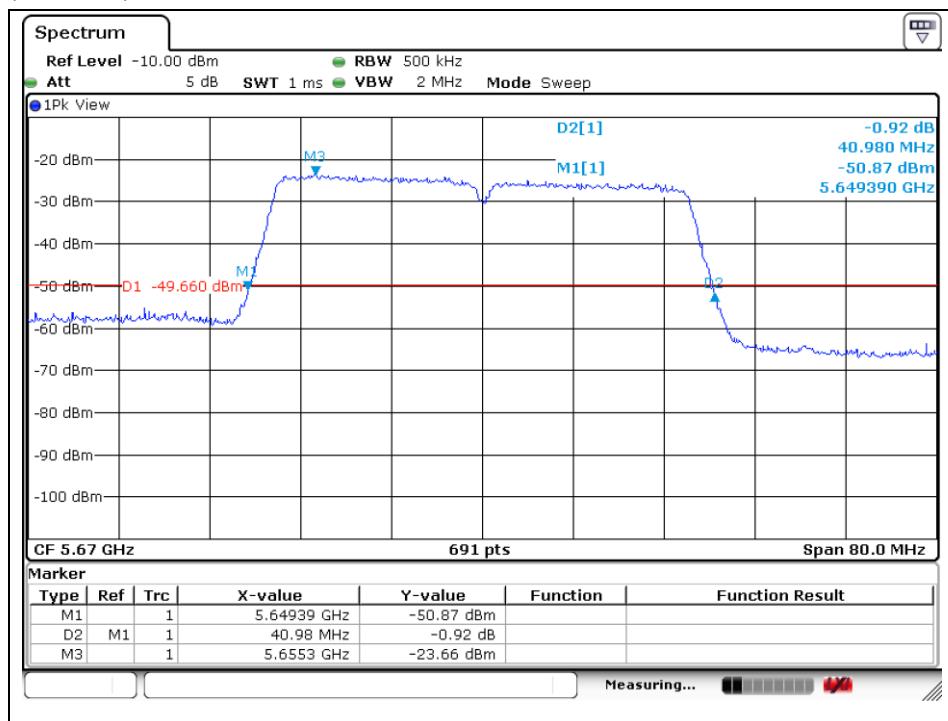
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

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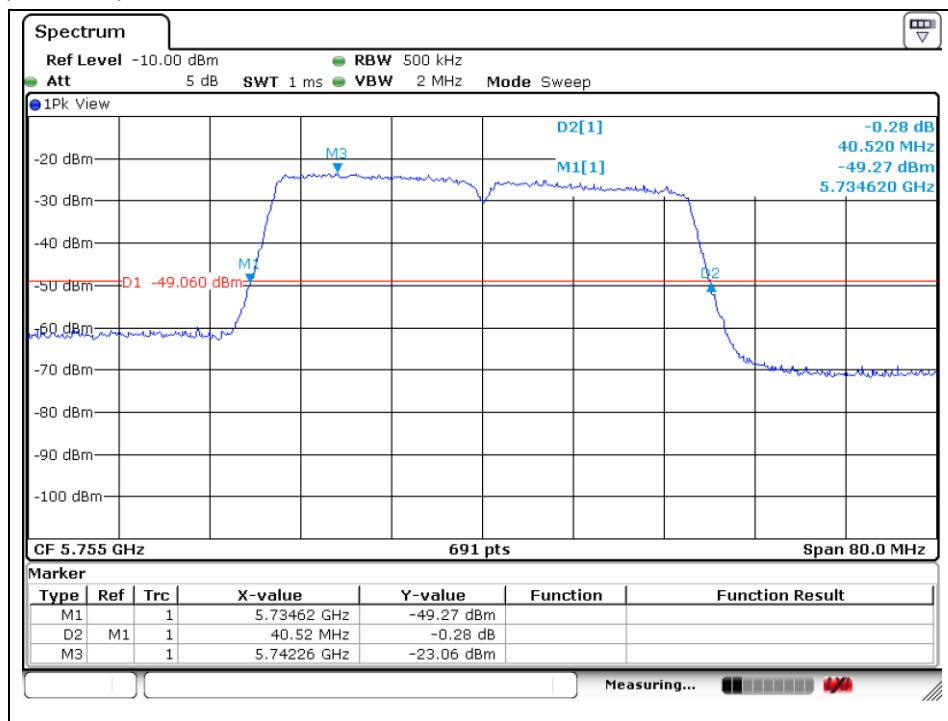
A4(210 mm x 297 mm)

High Channel (5 670 MHz)



802.11n_HT40 (Band 3)

Low Channel (5 755 MHz)



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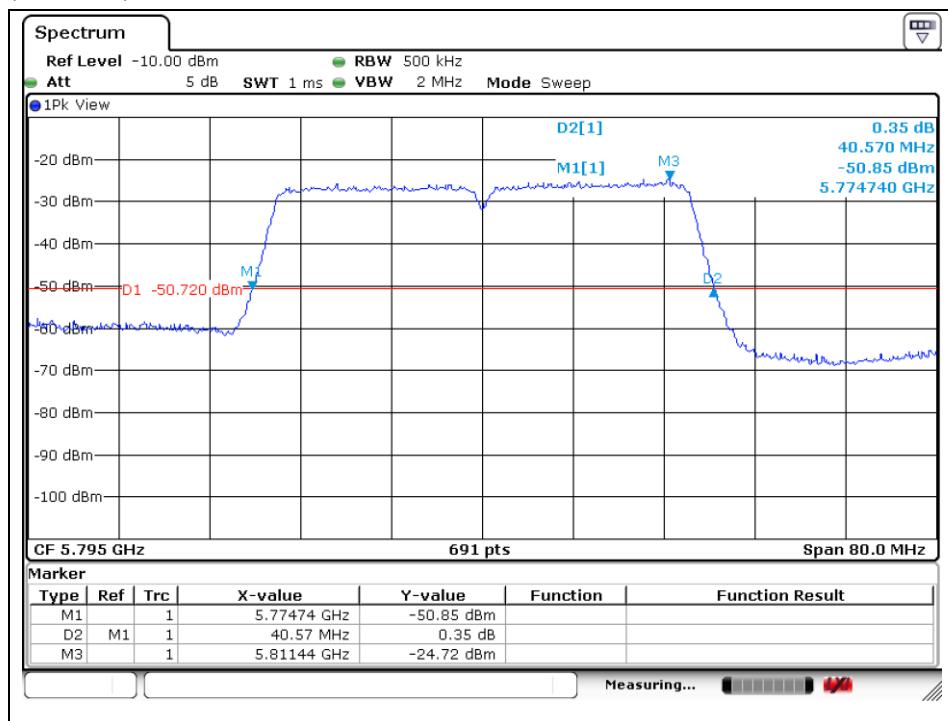
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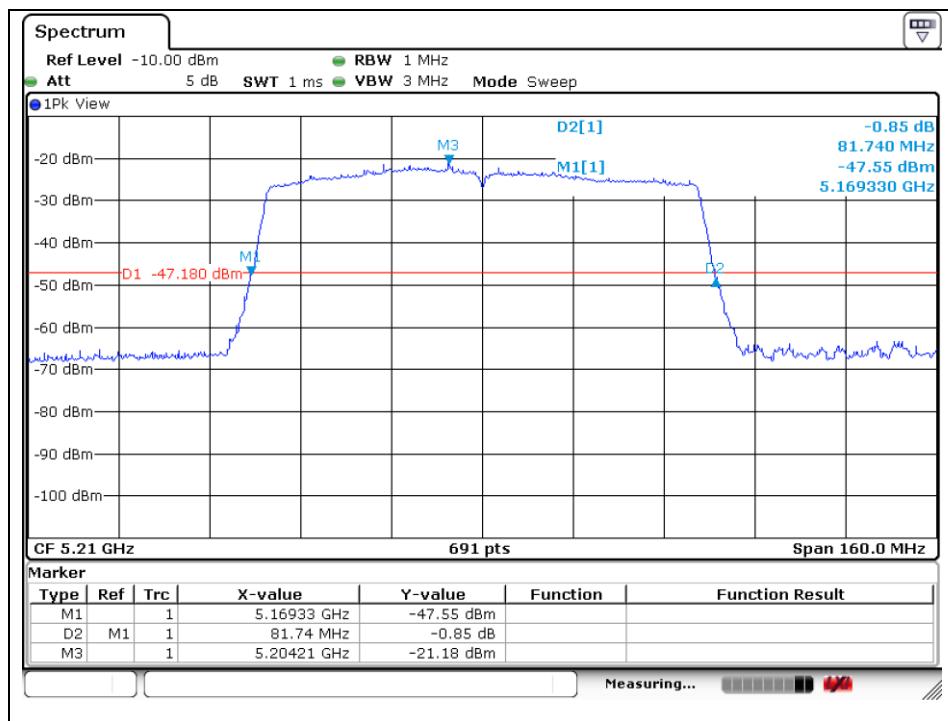
A4(210 mm x 297 mm)

High Channel (5 795 MHz)



802.11ac_VHT80 (Band 1)

Middle Channel (5 210 MHz)



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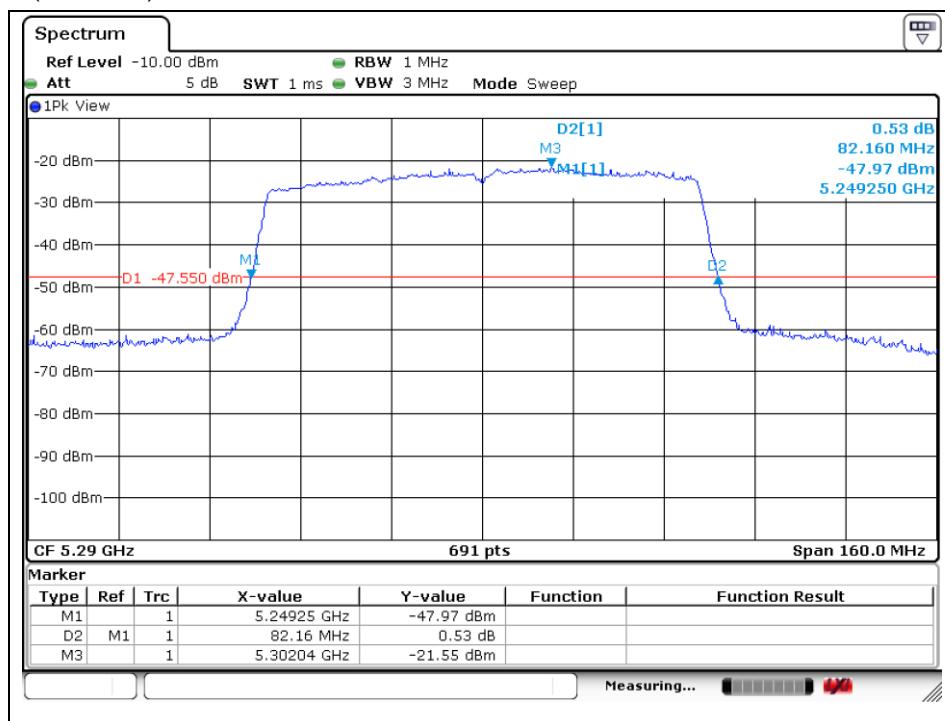
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A4(210 mm x 297 mm)

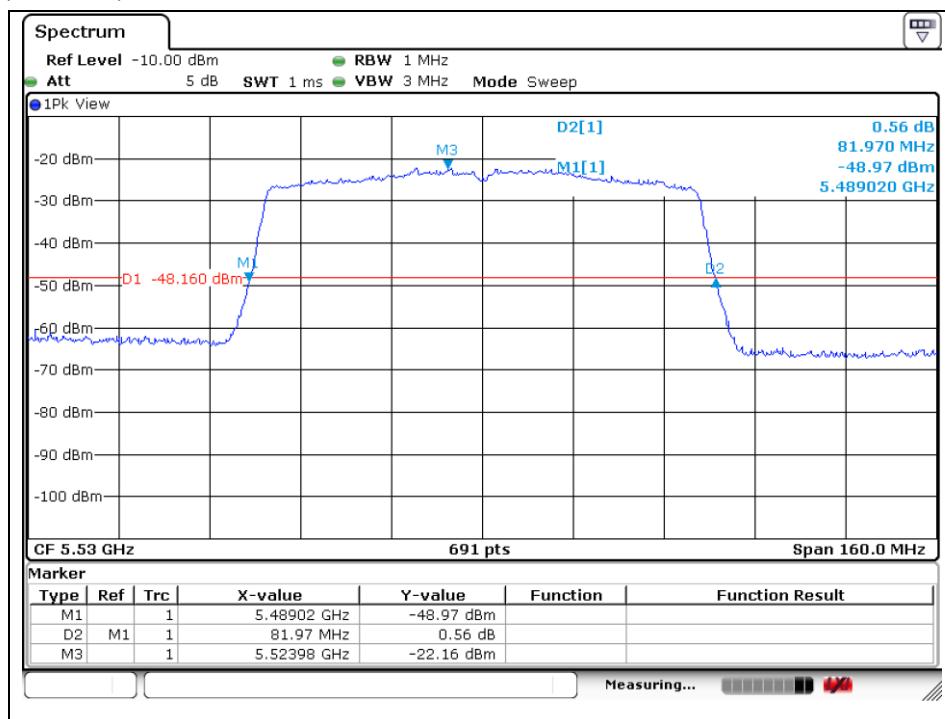
802.11ac_VHT80 (Band 2A)

Middle Channel (5 290 MHz)



802.11ac_VHT80 (Band 2C)

Low Channel (5 530 MHz)



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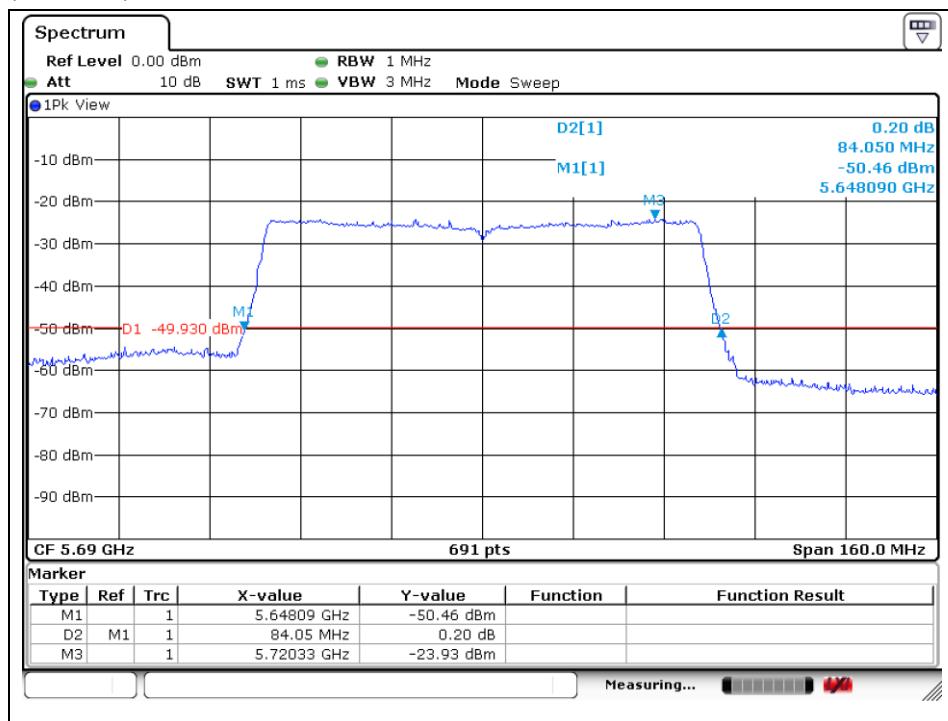
SGS Korea Co., Ltd. (Gunpo Laboratory) 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807 <http://www.sgsgroup.kr>

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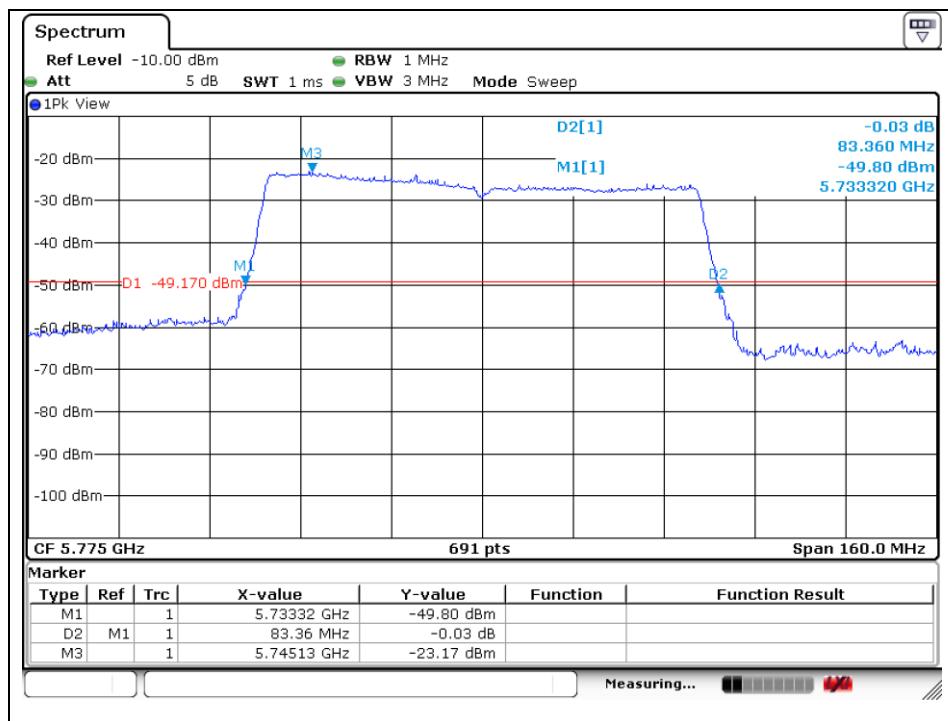
A4(210 mm x 297 mm)

High Channel (5 690 MHz)



802.11ac_VHT80 (Band 3)

Middle Channel (5 775 MHz)



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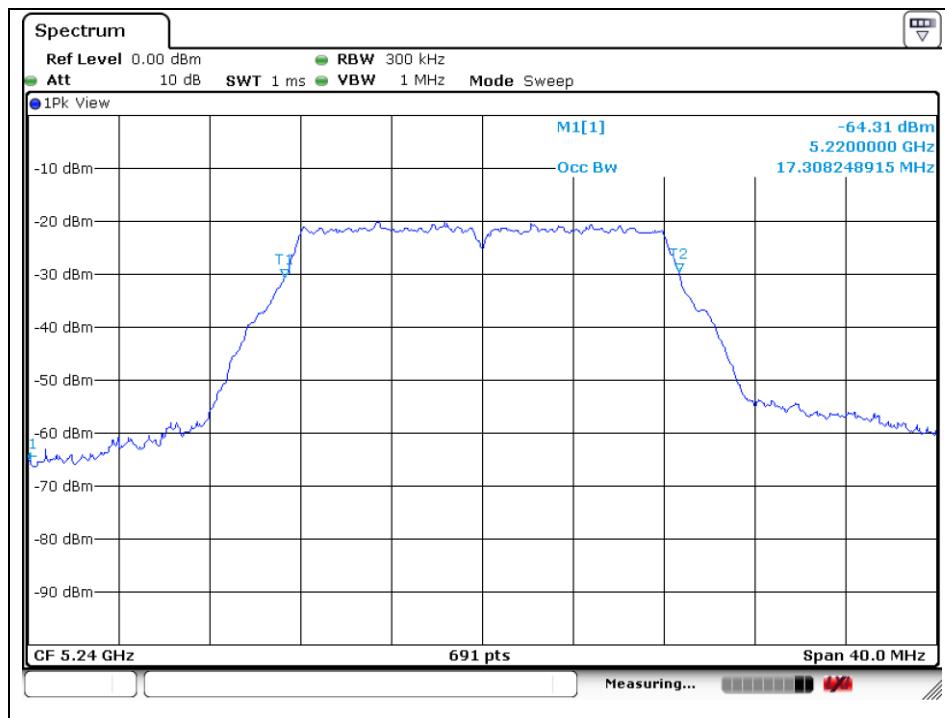
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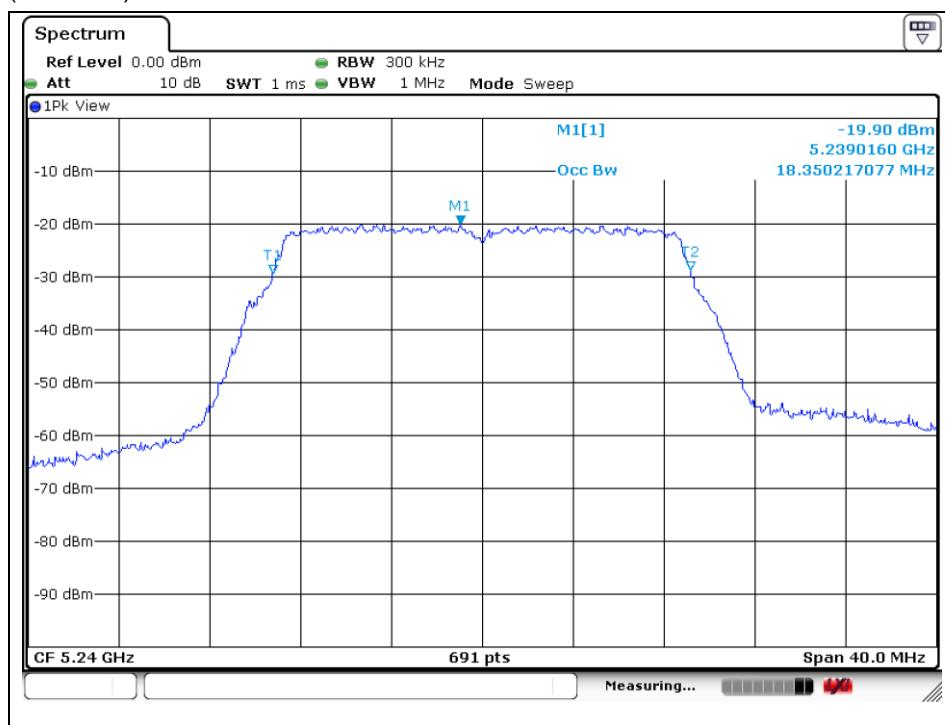
A4(210 mm x 297 mm)

99 % Bandwidth**802.11a (Band 1)**

High Channel (5 240 MHz)

**802.11n_HT20 (Band 1)**

High Channel (5 240 MHz)



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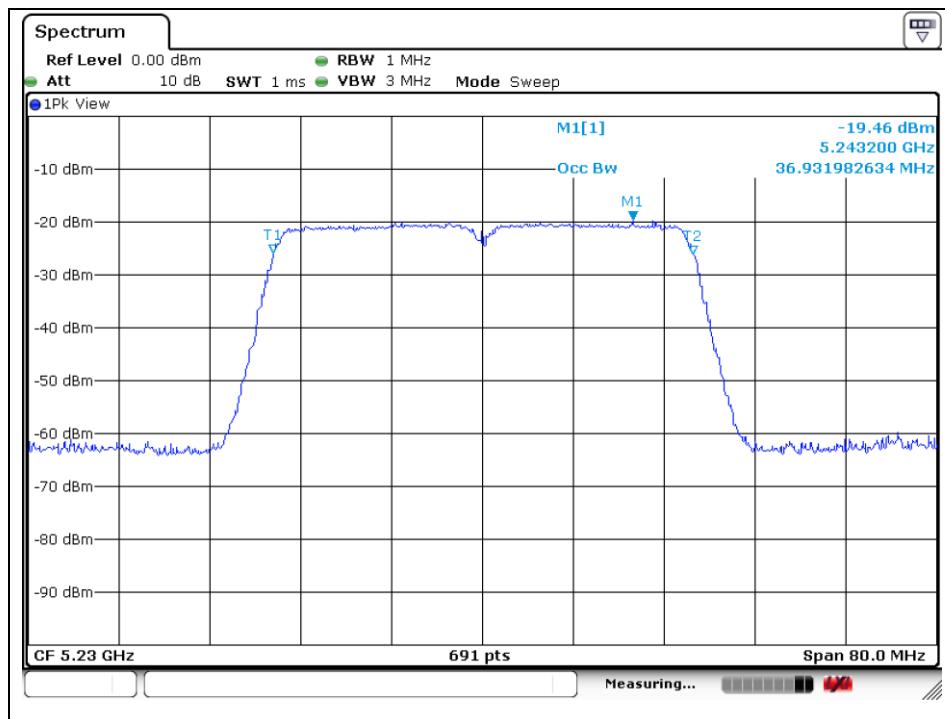
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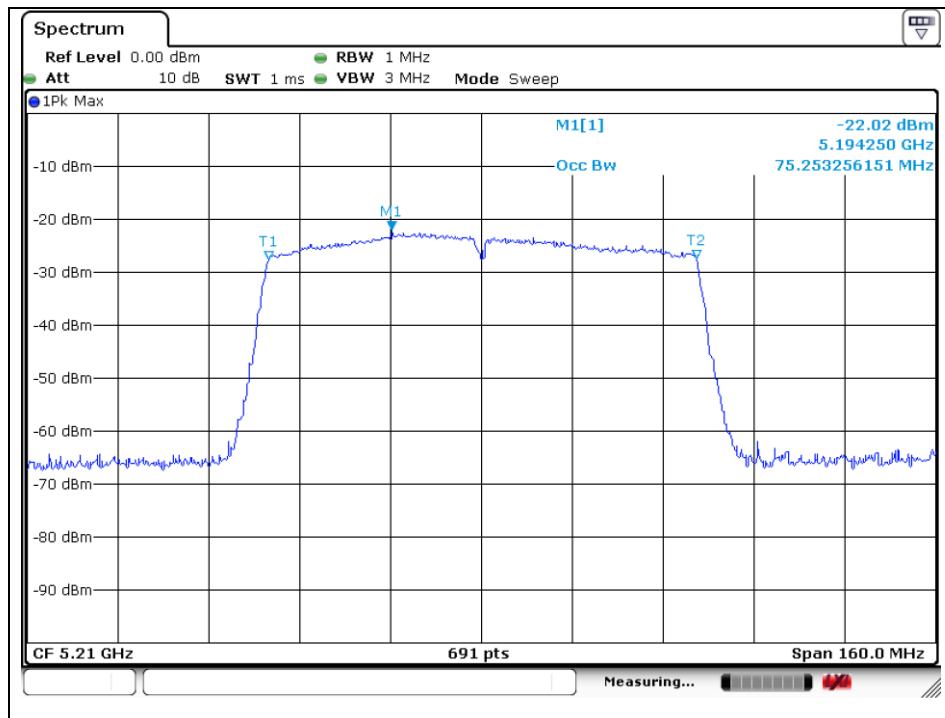
A4(210 mm x 297 mm)

802.11n_HT40 (Band 1)

High Channel (5 230 MHz)

**802.11ac_VHT80 (Band 1)**

Middle Channel (5 210 MHz)



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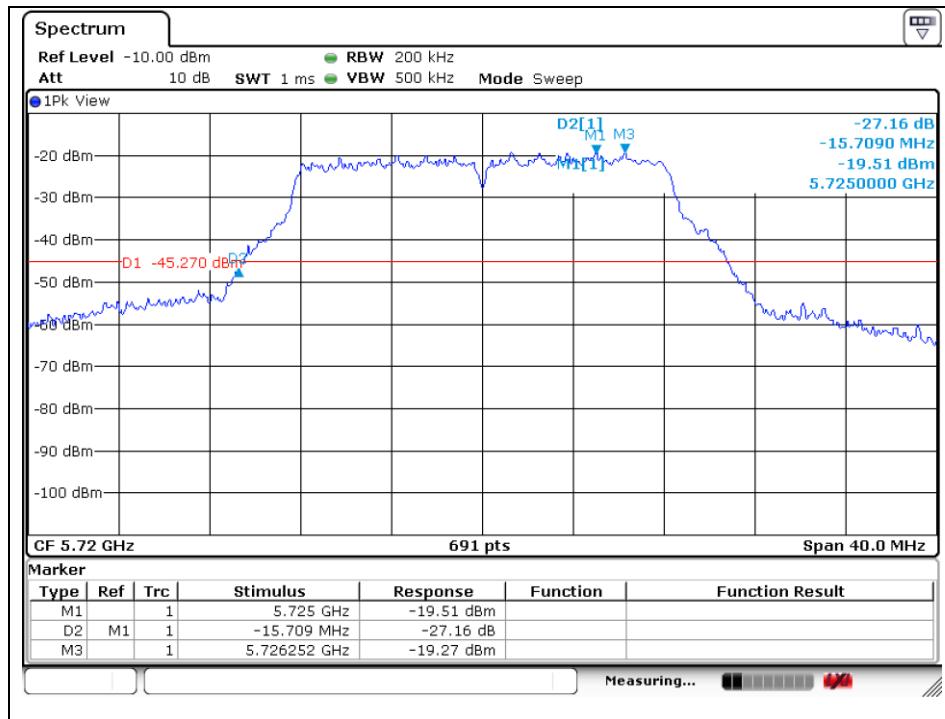
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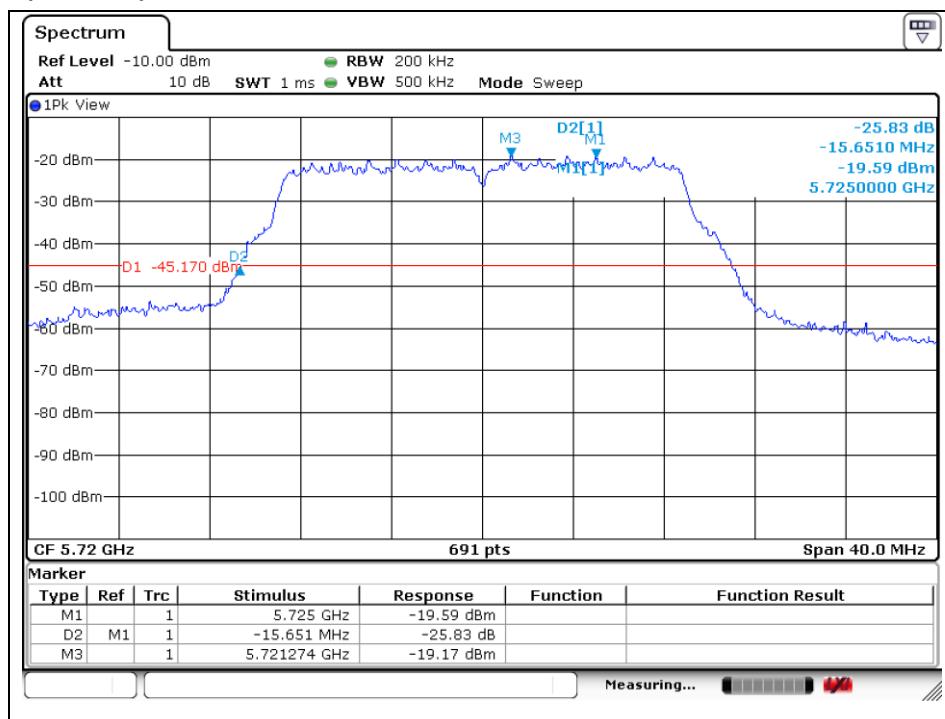
A4(210 mm x 297 mm)

Band-crossing channels

802.11a (5 720 MHz)



802.11n_HT20 (5 720 MHz)



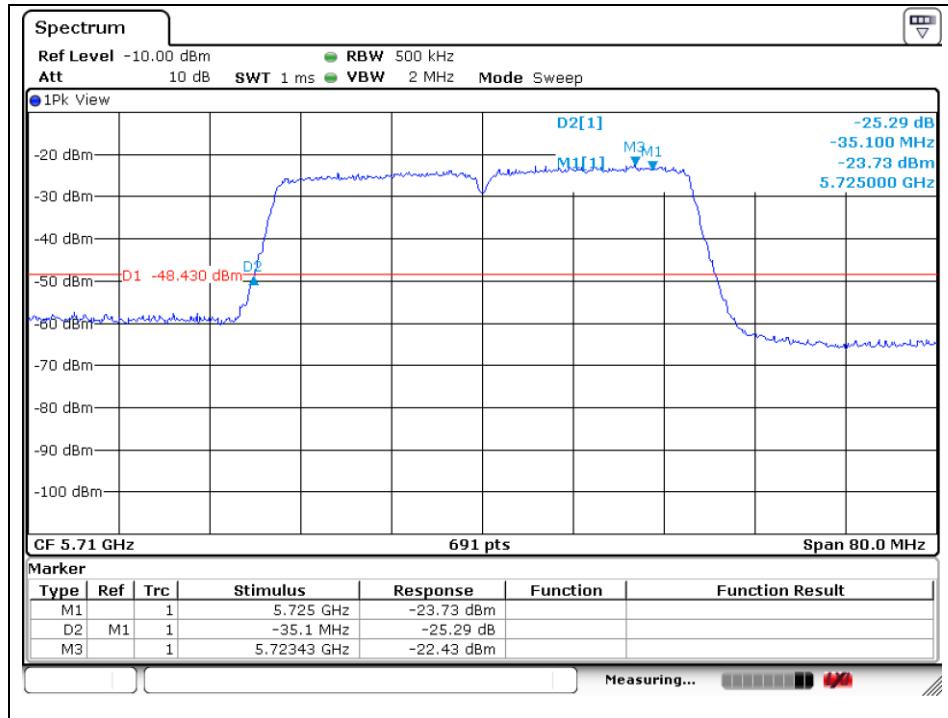
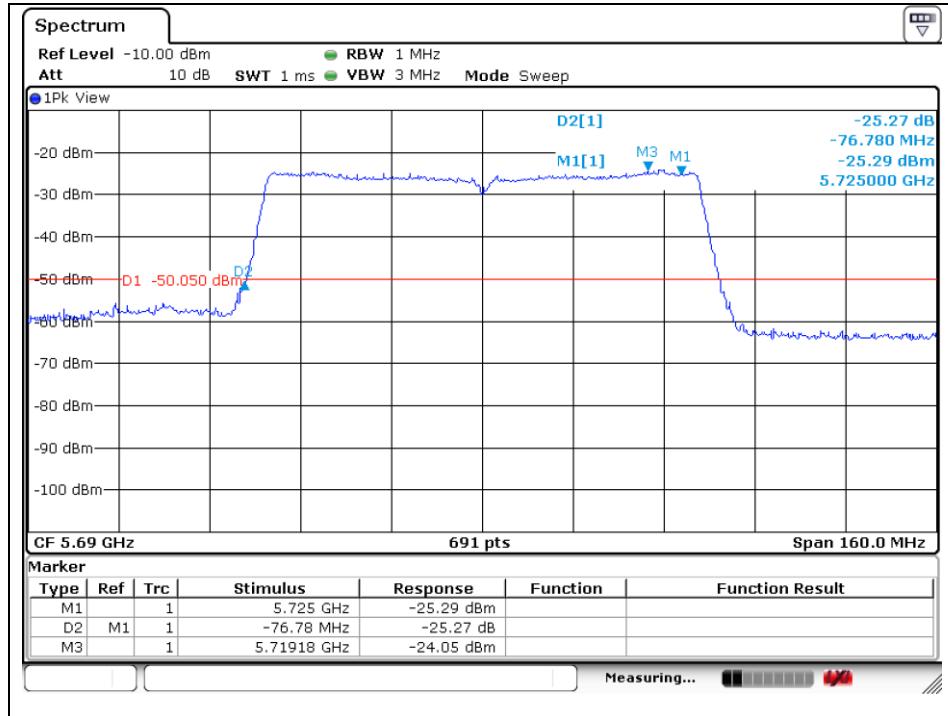
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A4(210 mm x 297 mm)

802.11n_HT40 (5 710 MHz)

802.11ac_VHT80 (5 690 MHz)


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A4(210 mm x 297 mm)