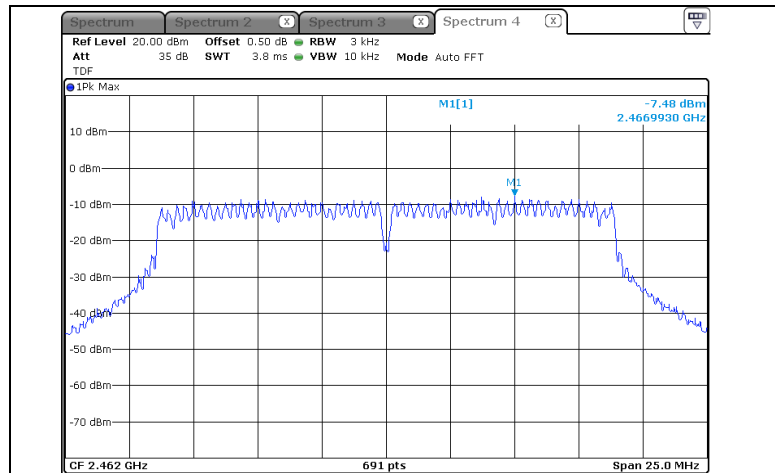
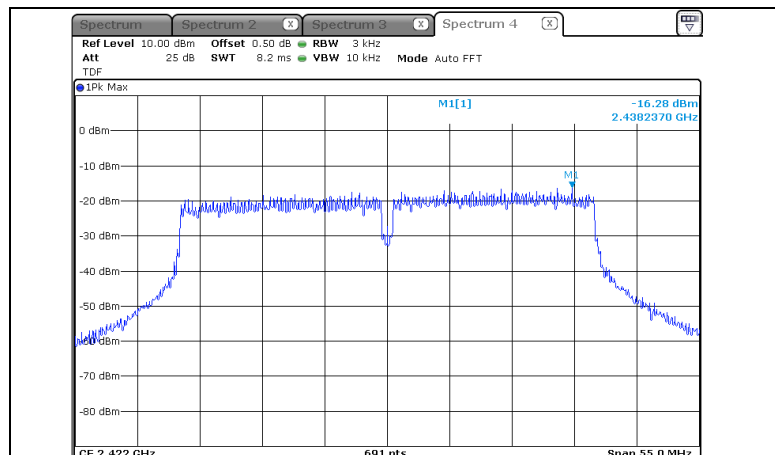


Highest Channel (2 462 MHz)

**- 802.11n HT40**

Lowest Channel (2 422 MHz)



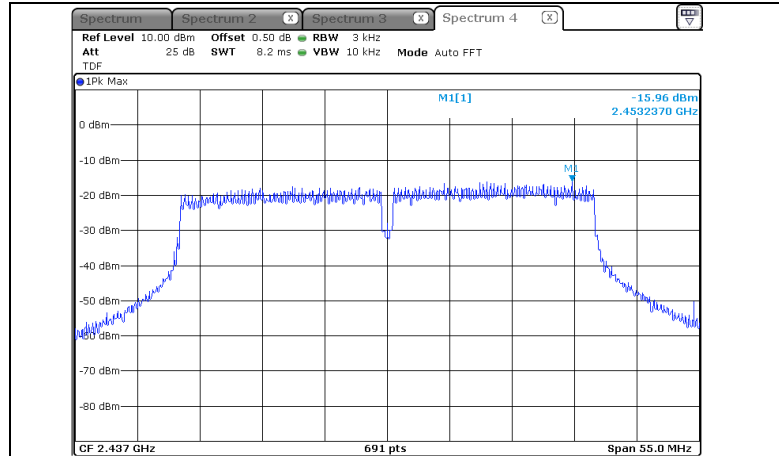
KCTL Inc.

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Suwon-si, Gyeonggi-do, 443-390, Korea
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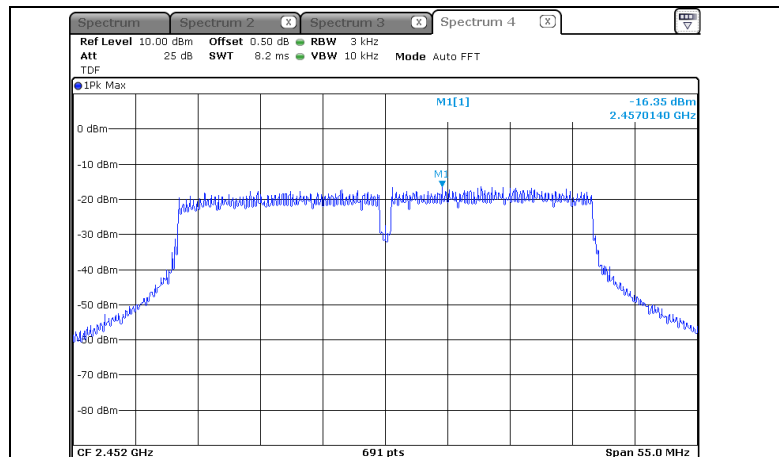
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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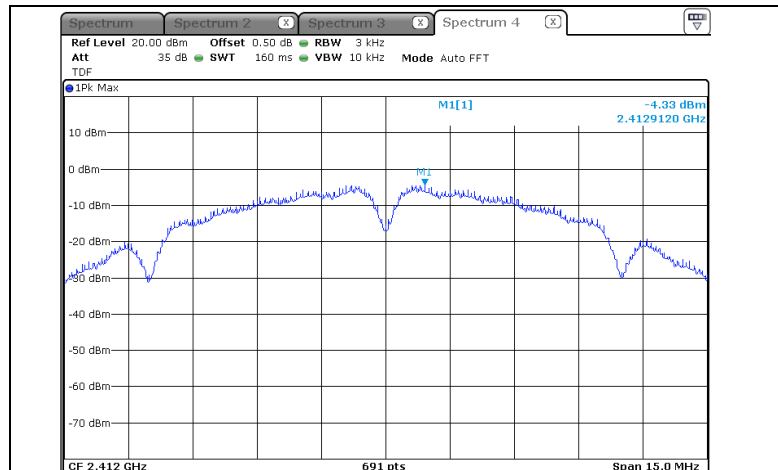
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KR16-SRF0014
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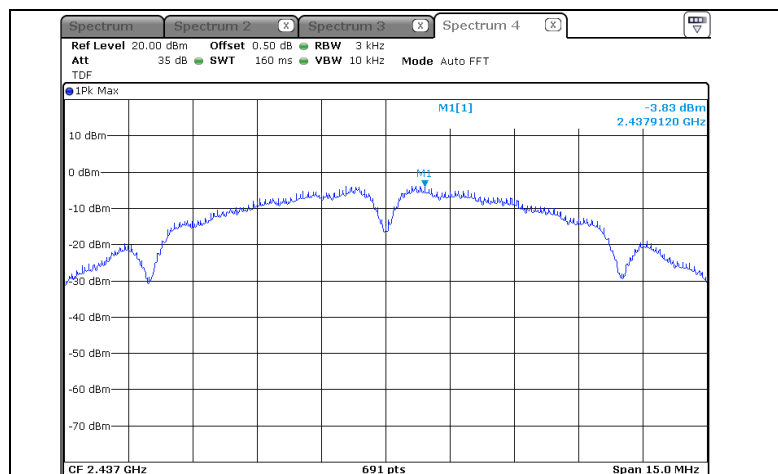
- ANT 2

- 802.11b

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



KCTL Inc.

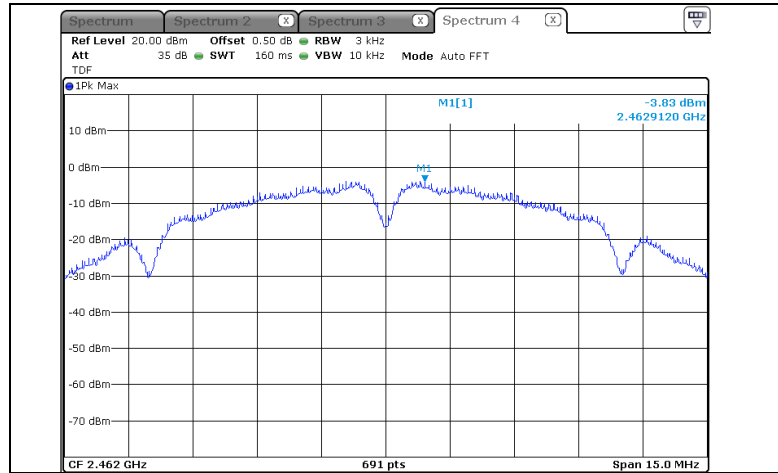
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 443-390, Korea
TEL: 82-70-5008-1021 FAX: 82-505-299-8311
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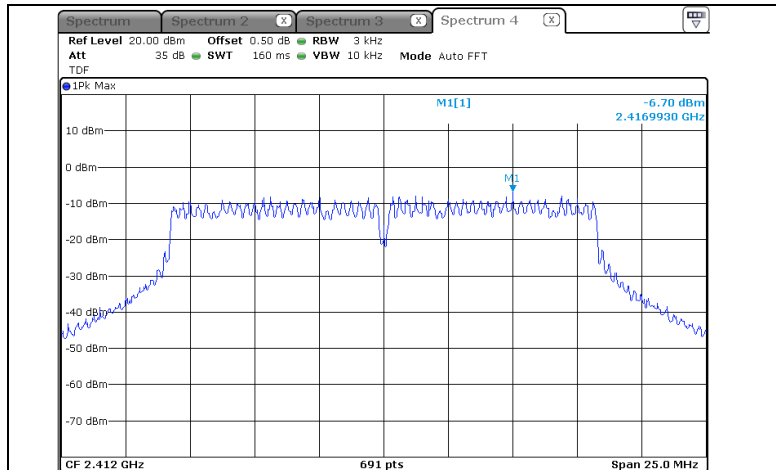


Highest Channel (2 462 MHz)

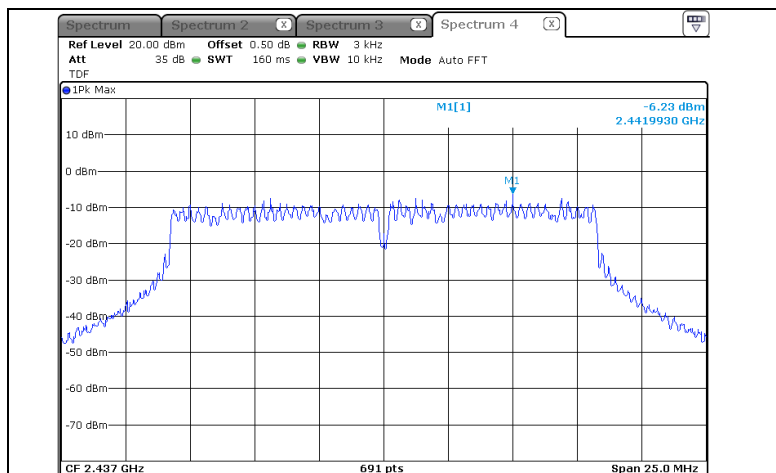


- 802.11g

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



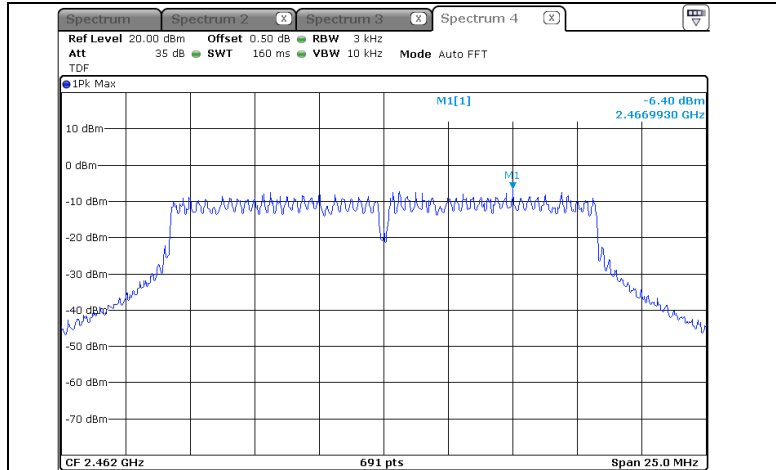
KCTL Inc.

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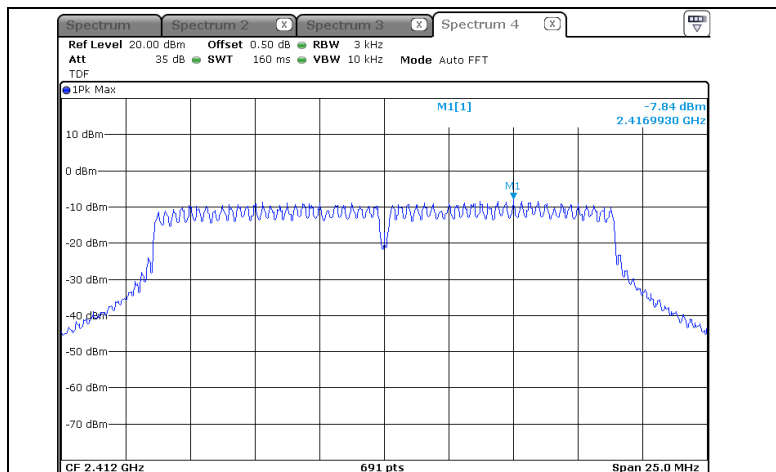
KCTL

Highest Channel (2 462 MHz)



- 802.11n HT20

Lowest Channel (2 412 MHz)



KCTL Inc.

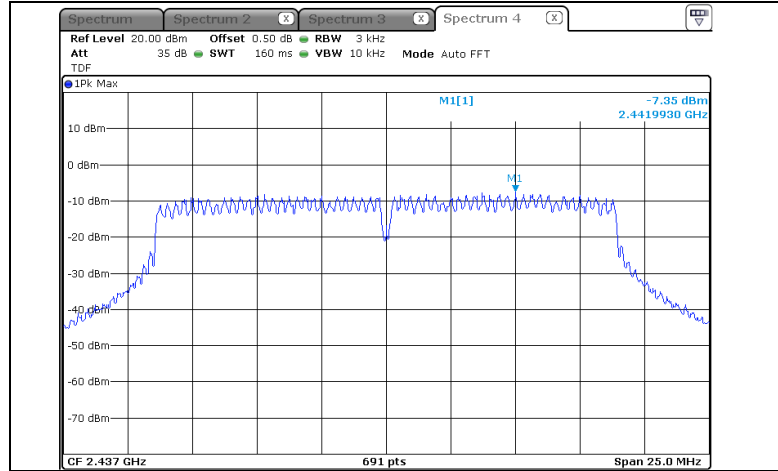
65, Sinwon-ro, Yeongtong-gu,
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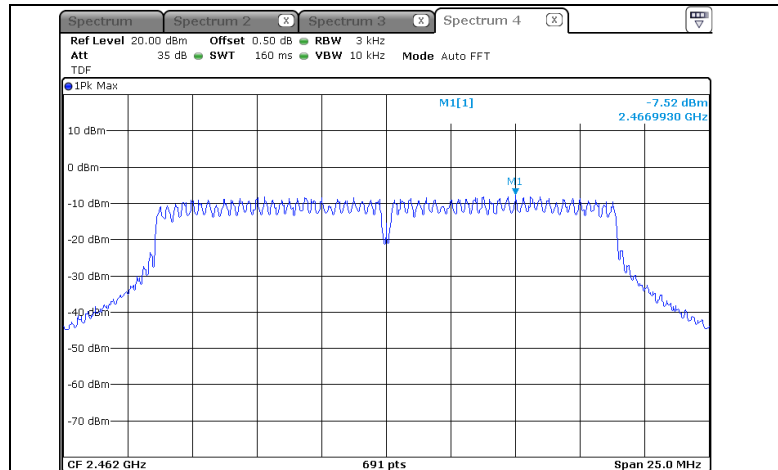
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KCTL

Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)



KCTL Inc.

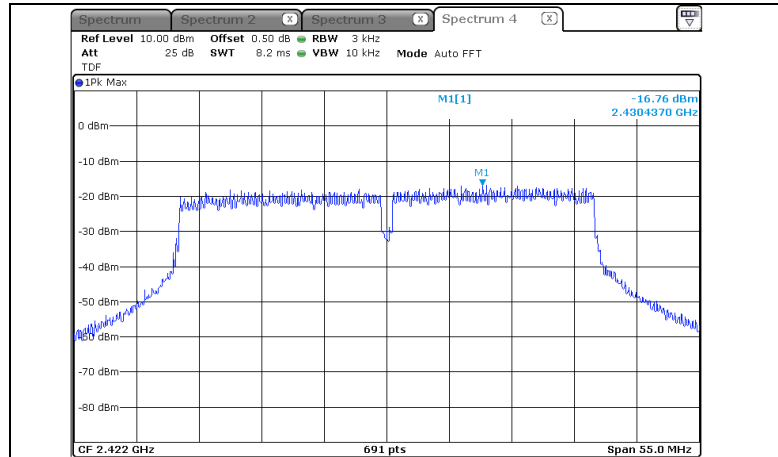
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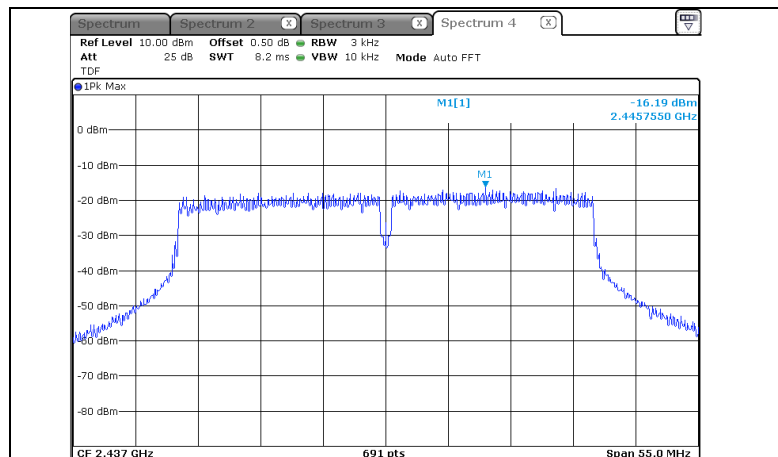


- 802.11n HT40

Lowest Channel (2 422 MHz)



Middle Channel (2 437 MHz)



KCTL Inc.

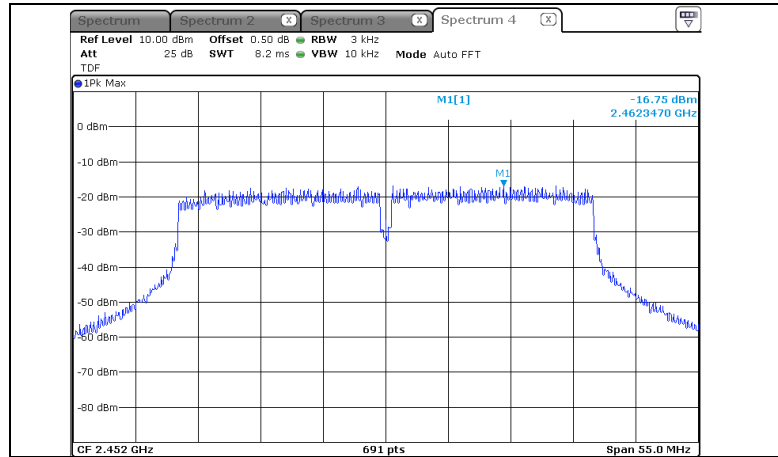
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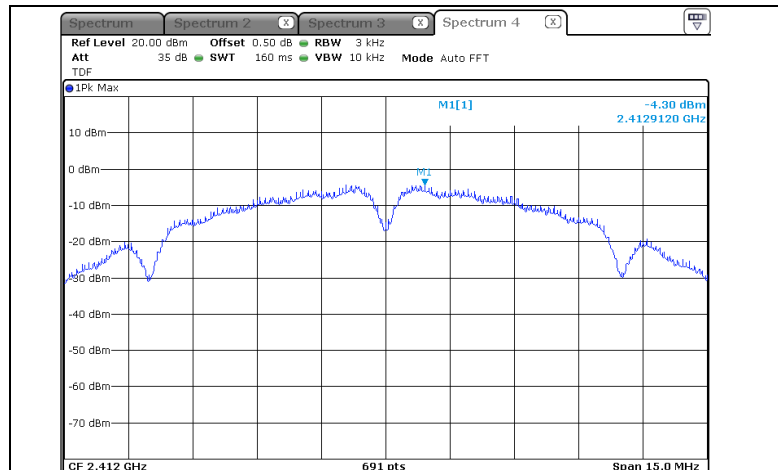
Highest Channel (2 452 MHz)



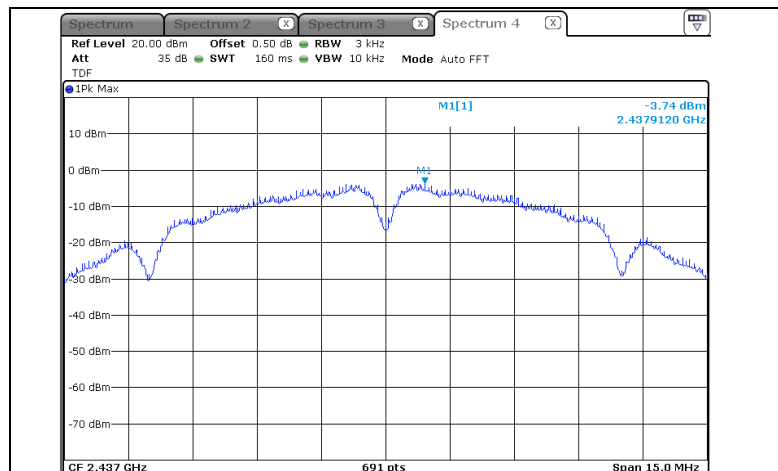
- ANT 3

- 802.11b

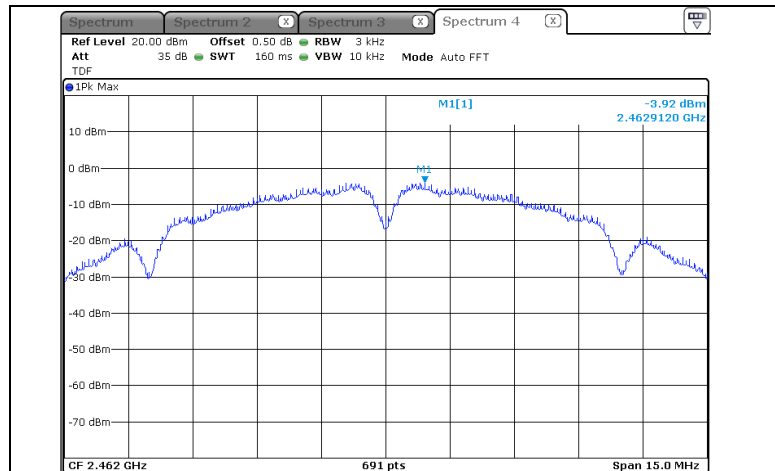
Lowest Channel (2 412 MHz)



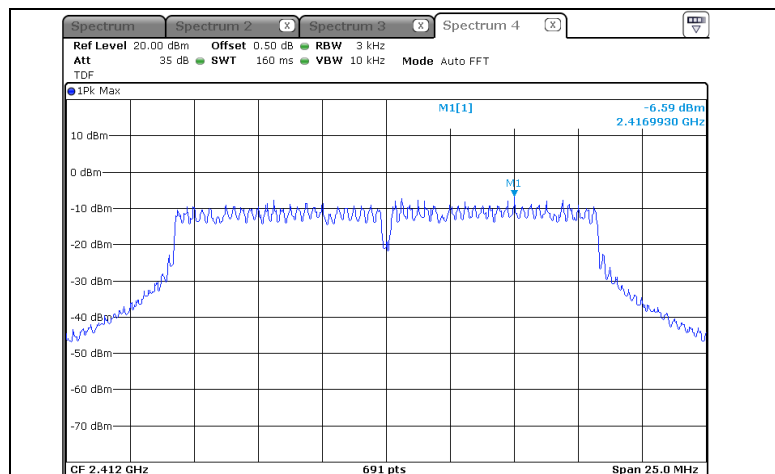
Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)

**- 802.11g**

Lowest Channel (2 412 MHz)



KCTL Inc.

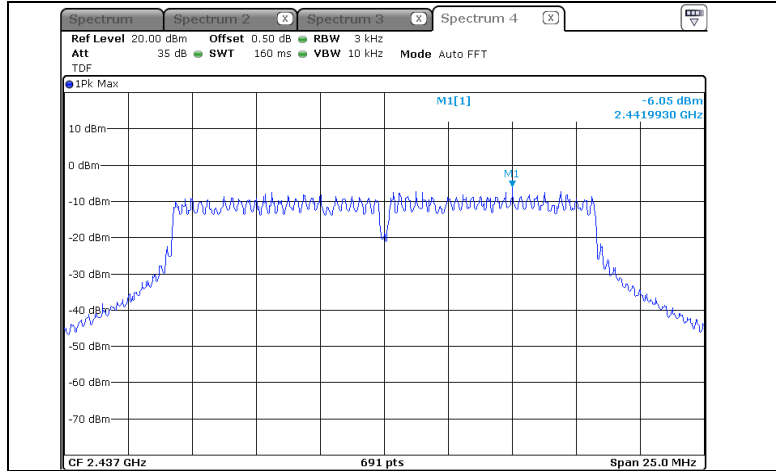
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Suwon-si, Gyeonggi-do, 443-390, Korea
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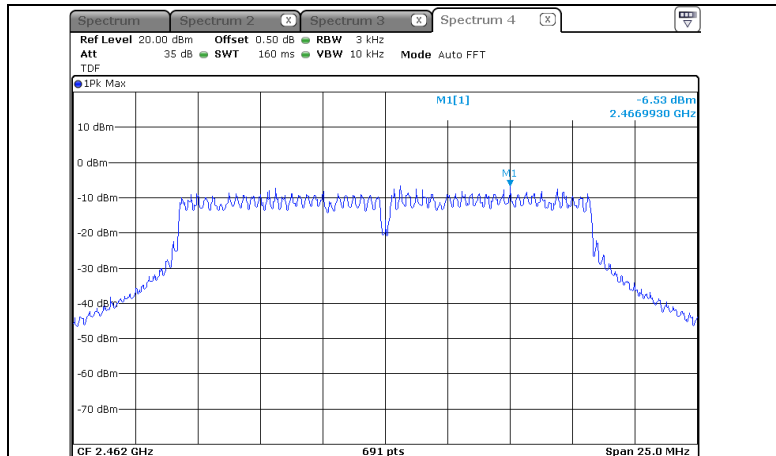
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Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)



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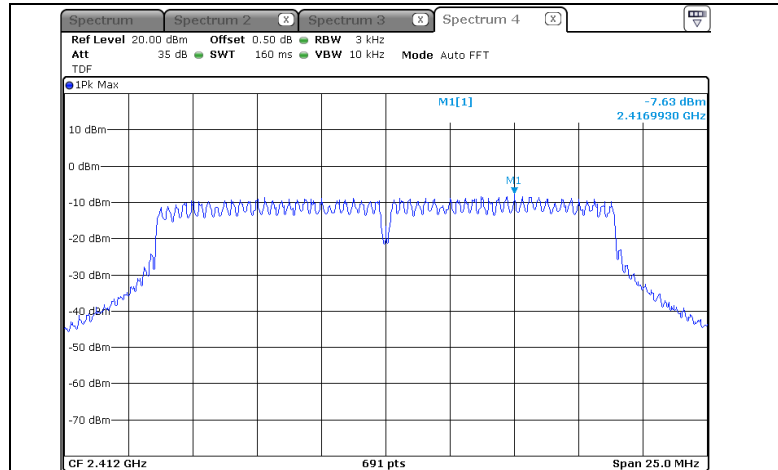
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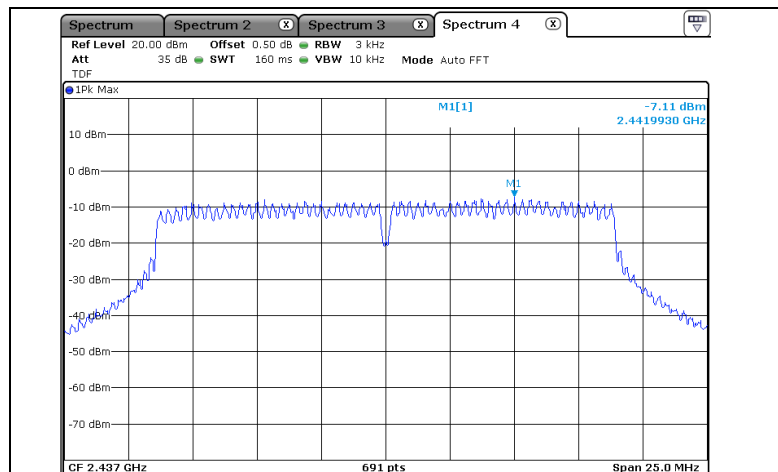
KCTL

- 802.11n HT20

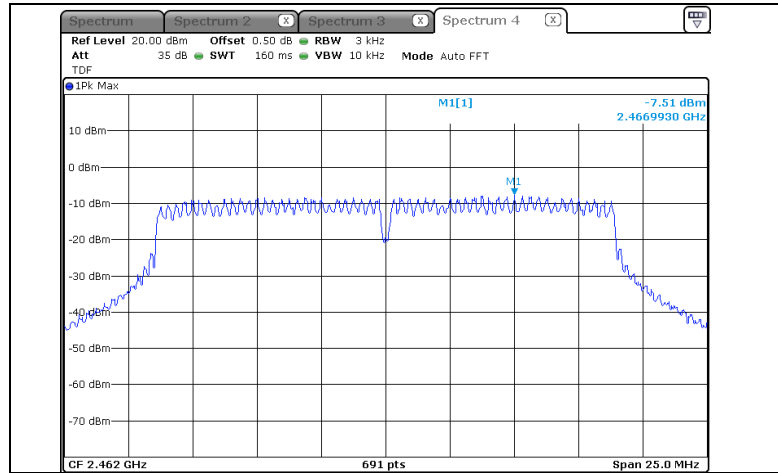
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

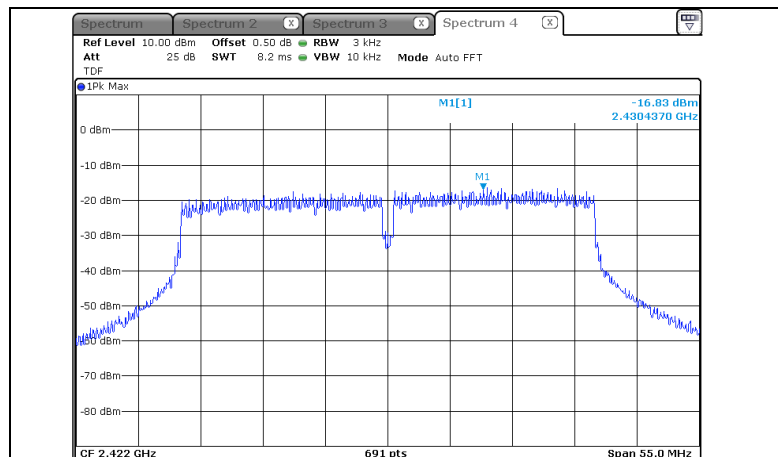


Highest Channel (2 462 MHz)



- 802.11n HT40

Lowest Channel (2 422 MHz)



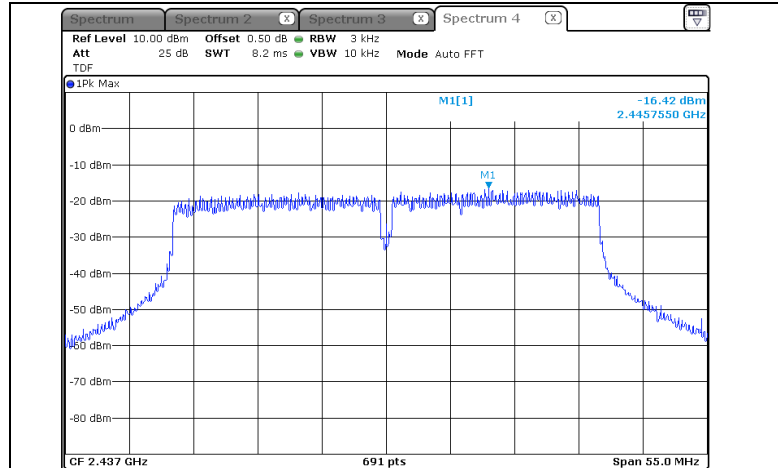
KCTL Inc.

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Suwon-si, Gyeonggi-do, 443-390, Korea
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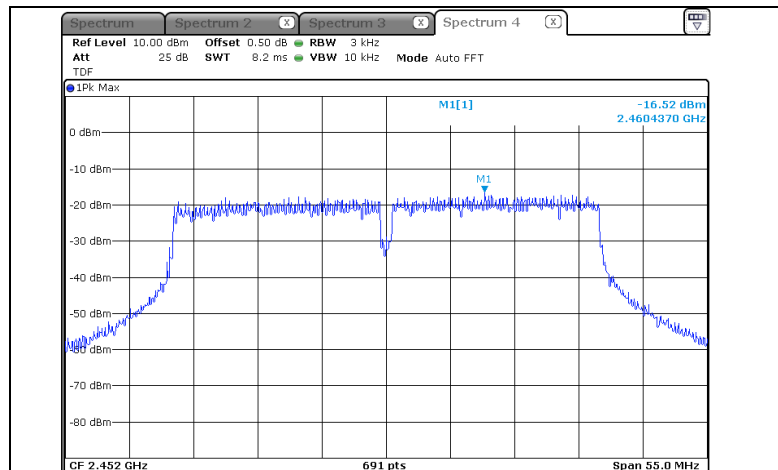
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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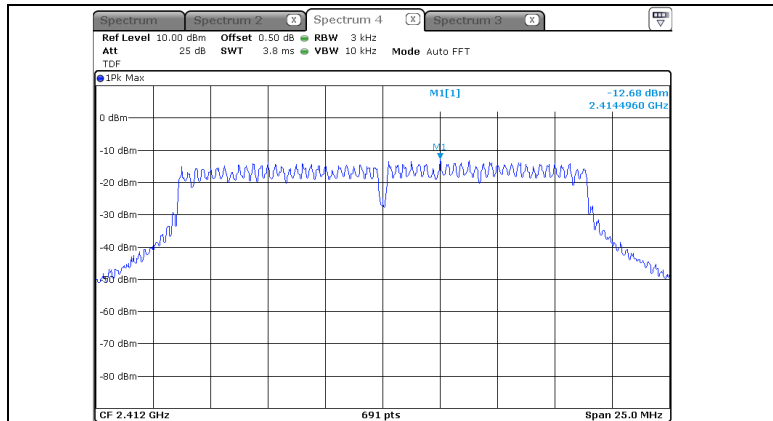
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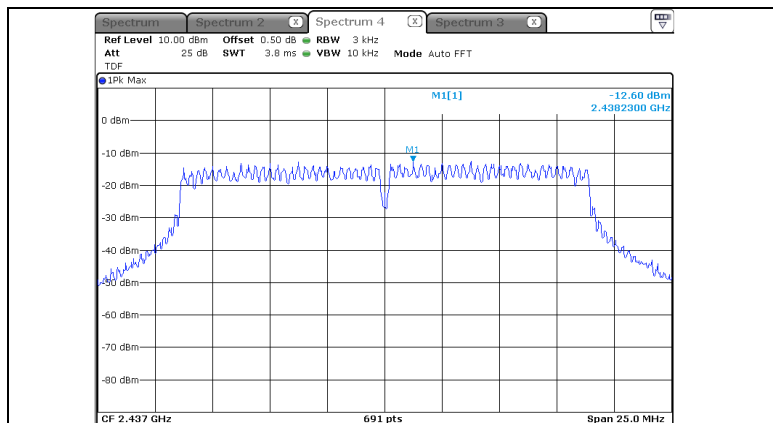
- MIMO 2Tx (ANT 1)

- 802.11n HT20

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



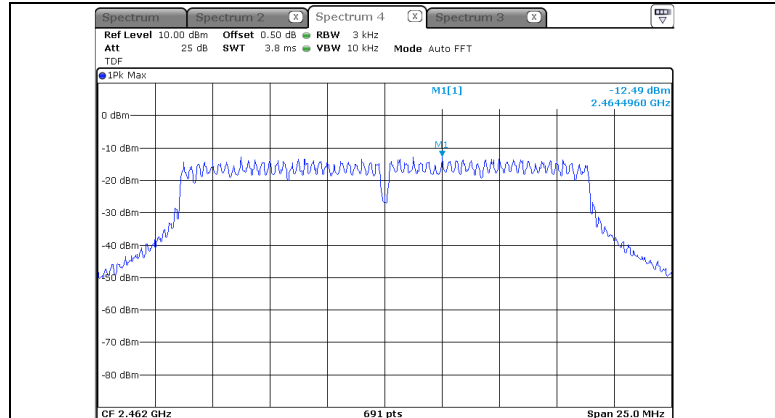
KCTL Inc.

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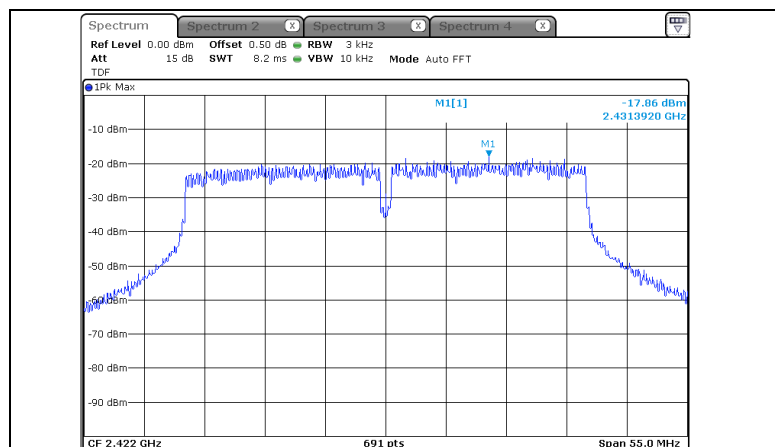


Highest Channel (2 462 MHz)



- 802.11n HT40

Lowest Channel (2 422 MHz)



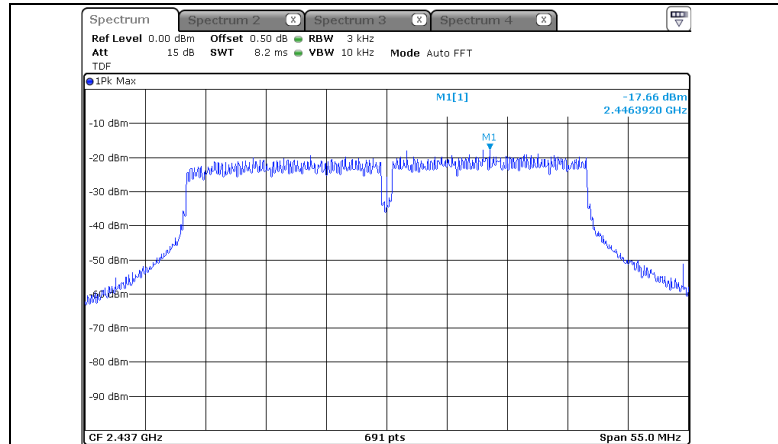
KCTL Inc.

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Suwon-si, Gyeonggi-do, 443-390, Korea
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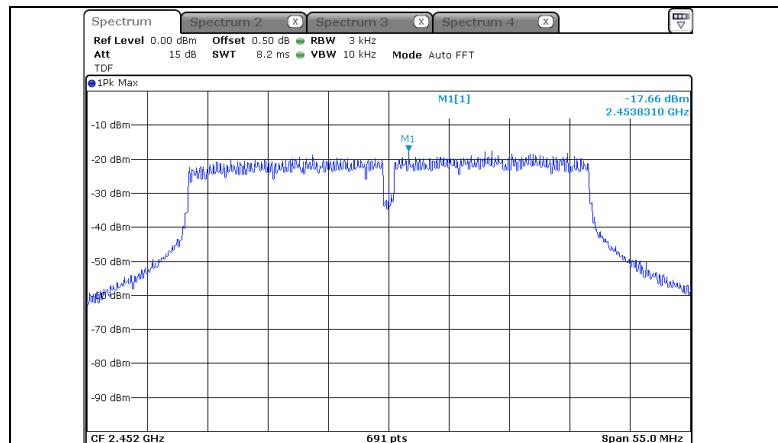
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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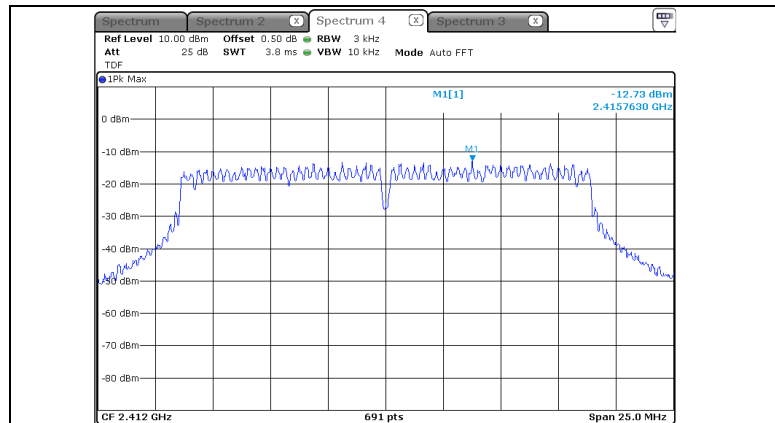
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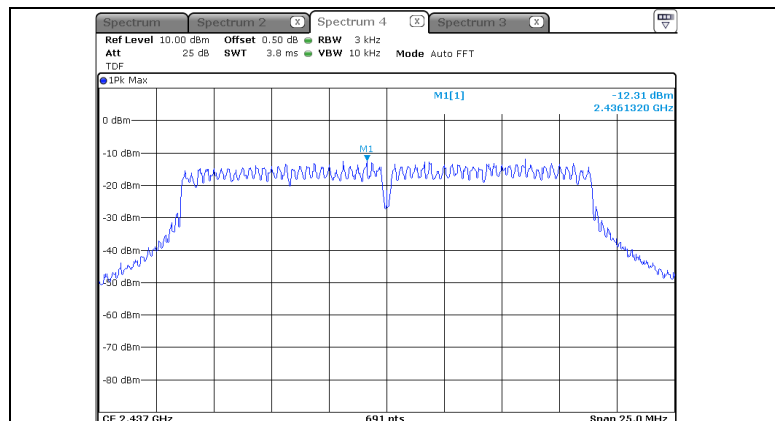
- MIMO 2Tx (ANT 2)

- 802.11n HT20

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



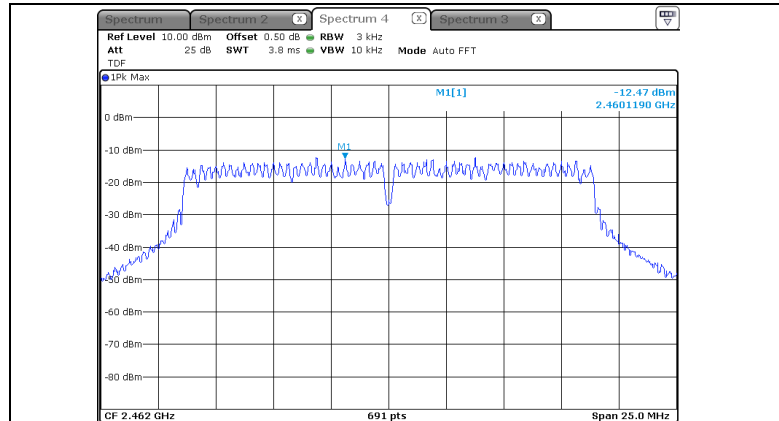
KCTL Inc.

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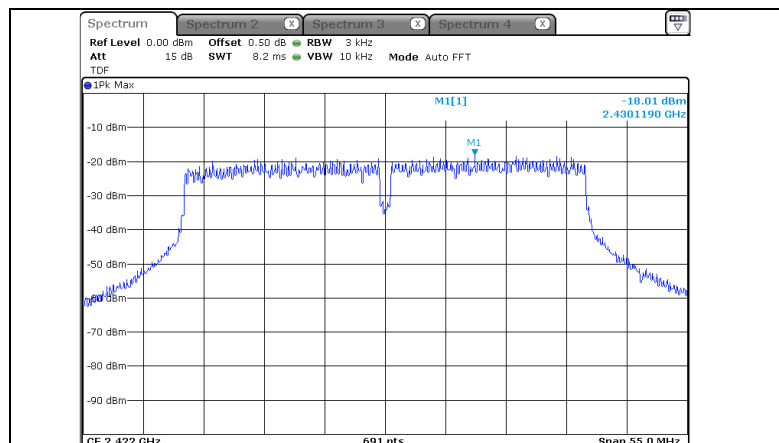


Highest Channel (2 462 MHz)

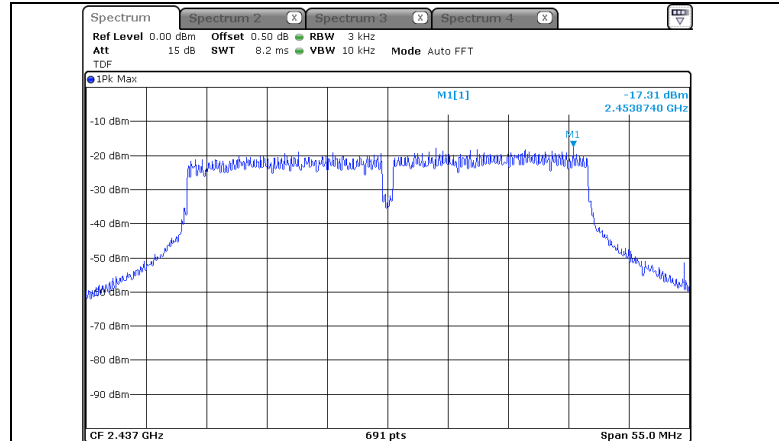


- 802.11n HT40

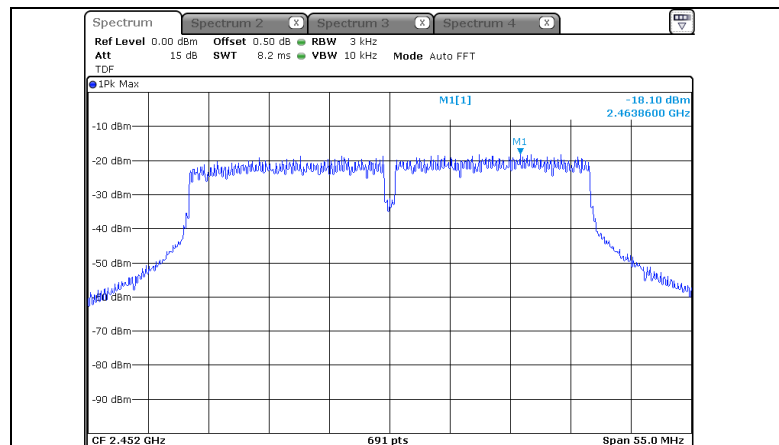
Lowest Channel (2 422 MHz)



Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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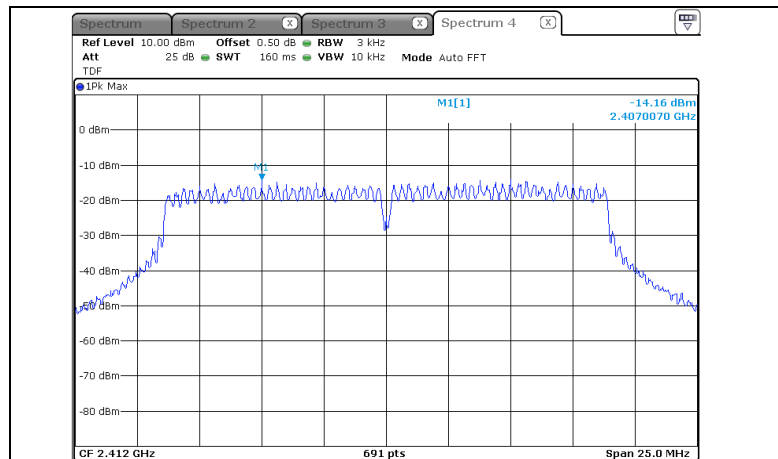
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KCTL

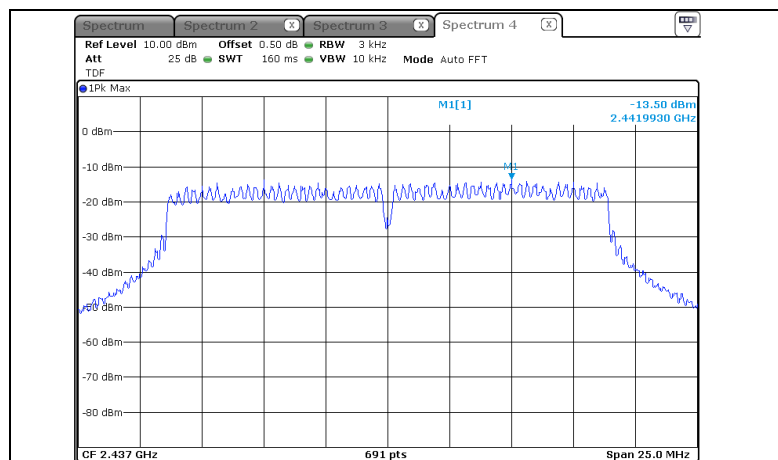
- MIMO 3Tx (ANT 1)

- 802.11n HT20

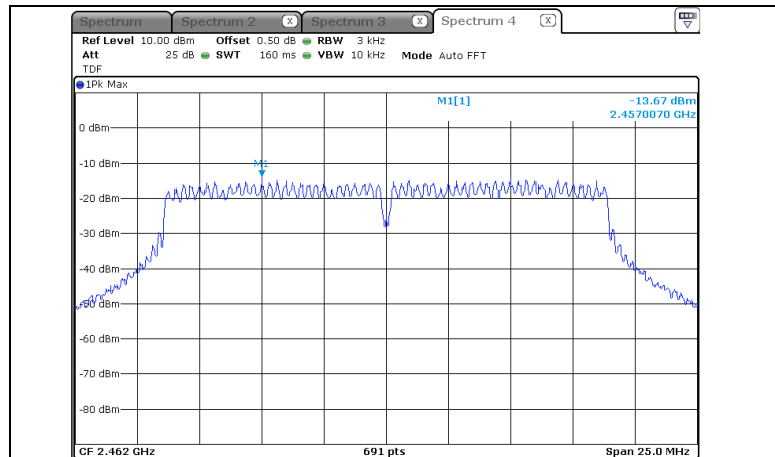
Lowest Channel (2 412 MHz)



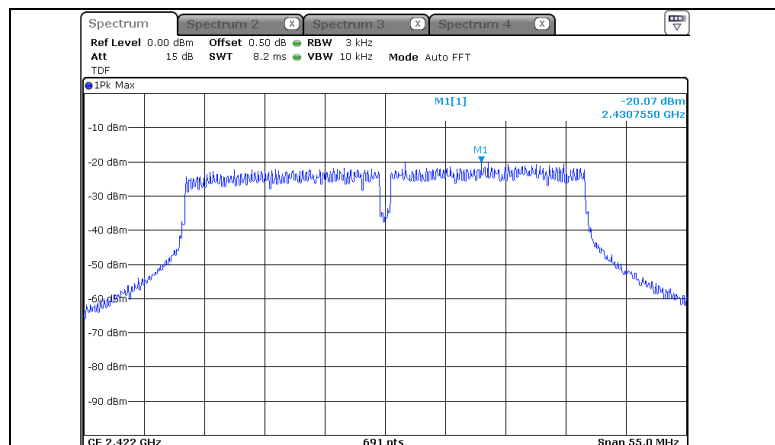
Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)

**- 802.11n HT40**

Lowest Channel (2 422 MHz)



KCTL Inc.

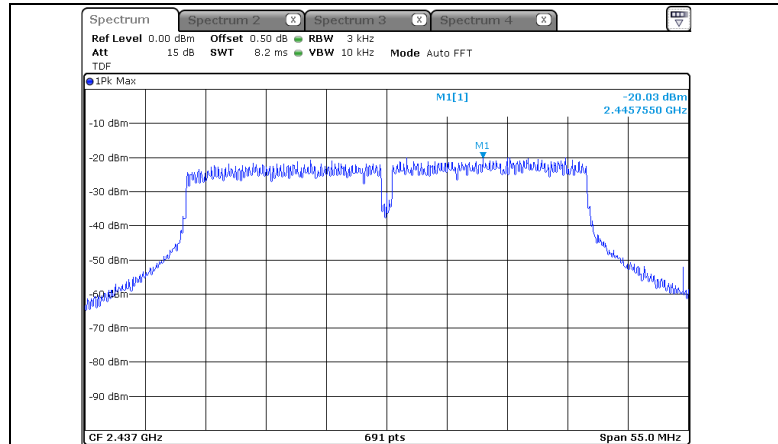
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Suwon-si, Gyeonggi-do, 443-390, Korea
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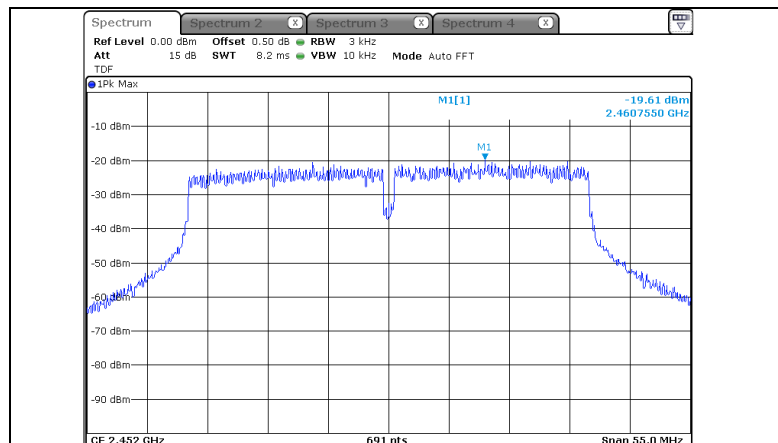
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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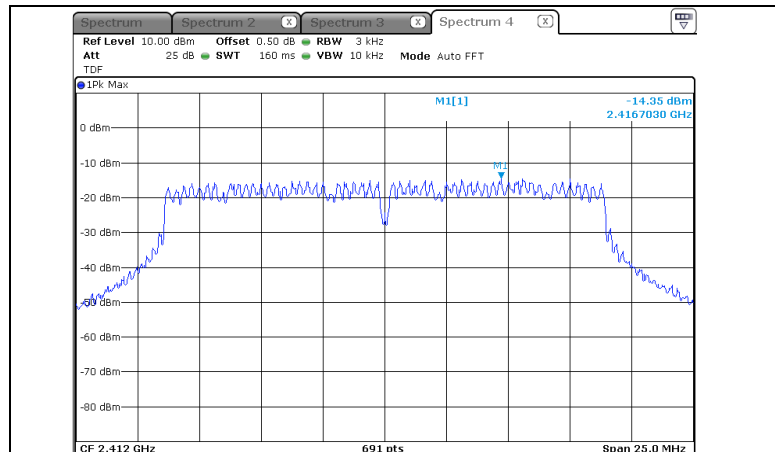
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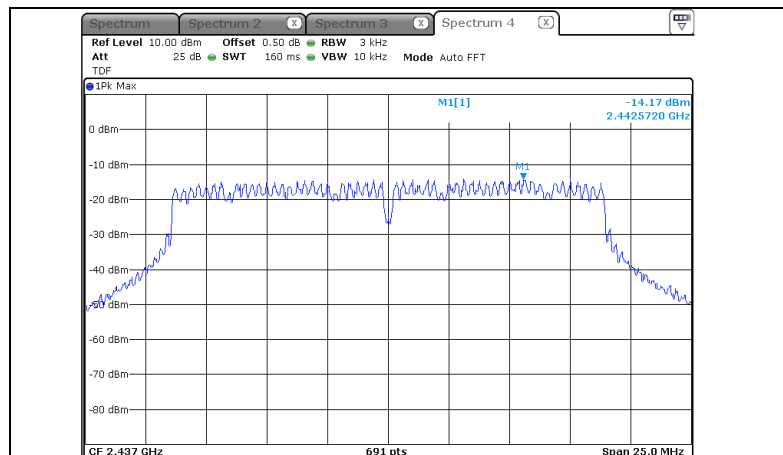
- MIMO 3Tx (ANT 2)

- 802.11n HT20

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



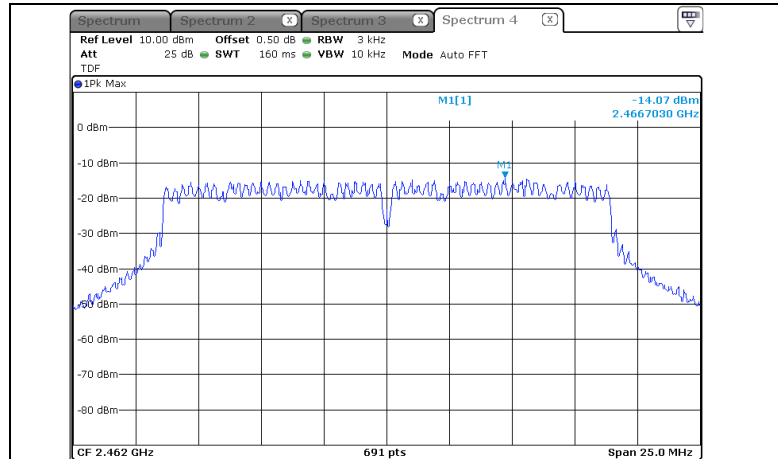
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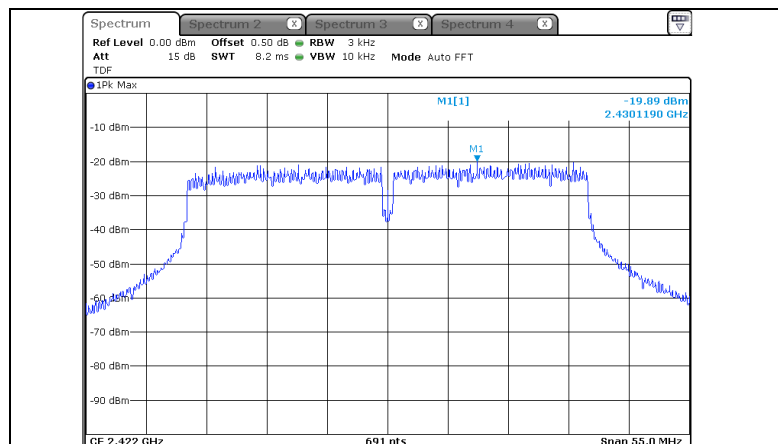


Highest Channel (2 462 MHz)



- 802.11n HT40

Lowest Channel (2 422 MHz)



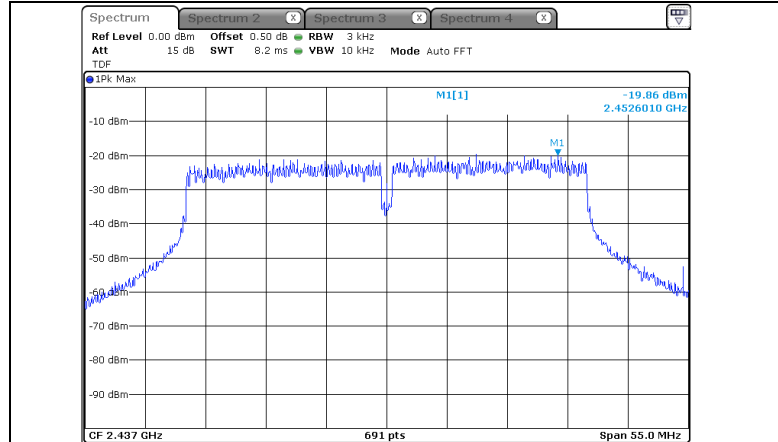
KCTL Inc.

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Suwon-si, Gyeonggi-do, 443-390, Korea
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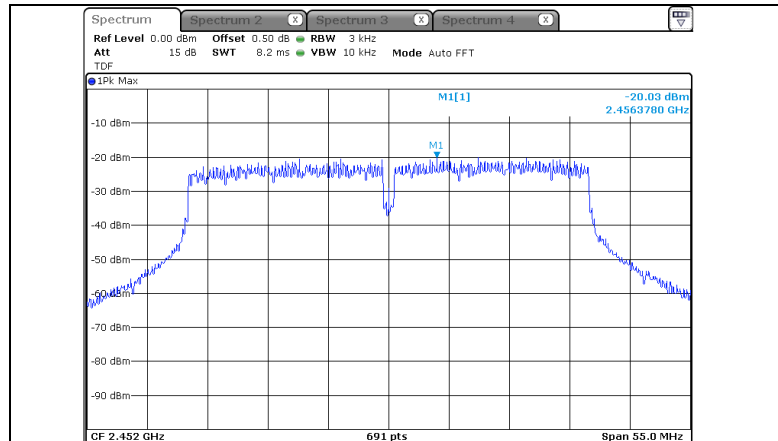
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KR16-SRF0014
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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Report No.:
KR16-SRF0014

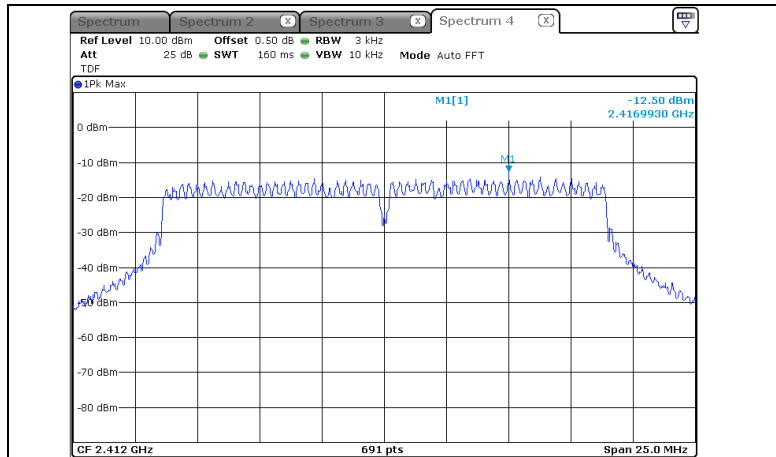
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KCTL

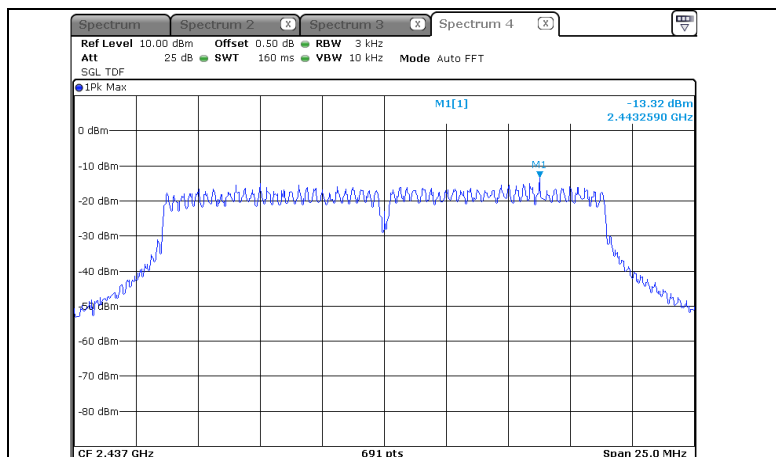
- MIMO 3Tx (ANT 3)

- 802.11n HT20

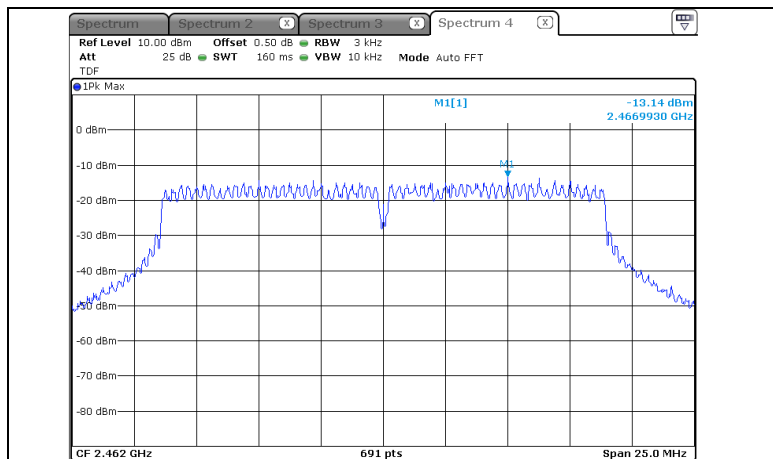
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

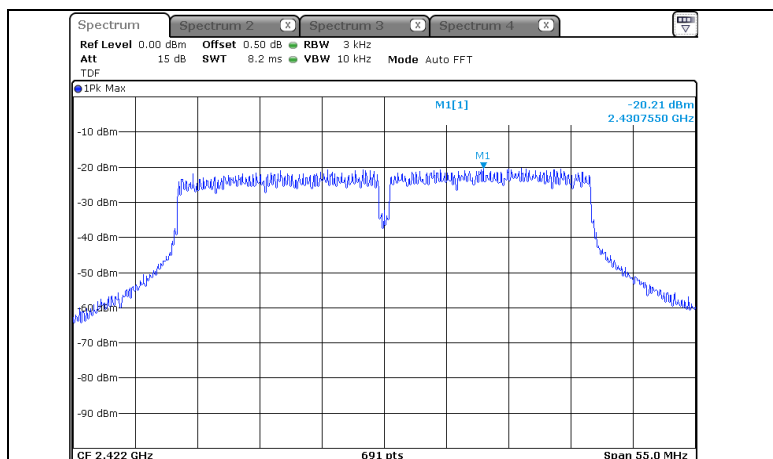


Highest Channel (2 462 MHz)



- 802.11n HT40

Lowest Channel (2 422 MHz)



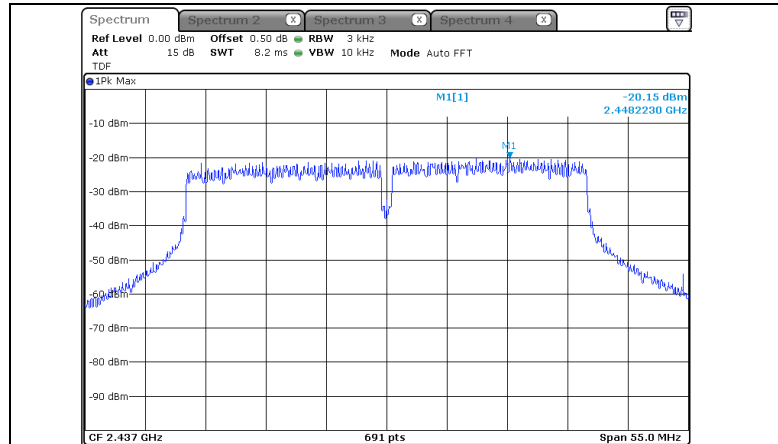
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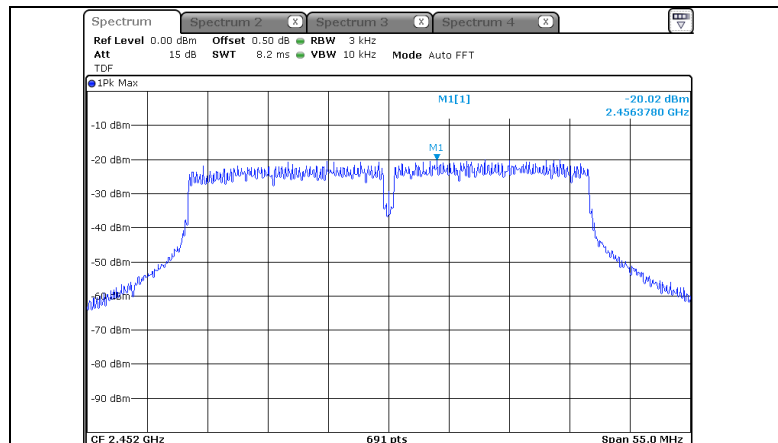
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



5.4 6 dB Bandwidth(DTS Channel Bandwidth)

5.4.1 Regulation

According to §15.247(a)(2) Systems using digital modulation techniques may operate in the 902–928 MHz, 2 400–2 483.5 MHz, and 5 725–5 850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.4.2 Measurement Procedure

These test measurement settings are specified in section 8.0 of 558074 D01 DTS Meas Guidance.

5.4.2.1 DTS Channel Bandwidth-Option 1

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4.2.2 DTS Channel Bandwidth Measurement Procedure-Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq 3 \times$ RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.4.3 Test Result

- Complied

- ANT 1

- 802.11b

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	7.10	0.50	11.75
Middle	2 437	7.58	0.50	11.52
Highest	2 462	8.50	0.50	11.75

- 802.11g

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	16.32	0.50	16.44
Middle	2 437	16.24	0.50	16.44
Highest	2 462	16.36	0.50	16.44

- 802.11n HT20

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	17.52	0.50	17.60
Middle	2 437	17.32	0.50	17.60
Highest	2 462	17.36	0.50	17.60

- 802.11n HT40

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 422	35.96	0.50	36.12
Middle	2 437	35.76	0.50	36.12
Highest	2 452	35.80	0.50	36.12

- ANT 2

- **802.11b**

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	7.10	0.50	11.75
Middle	2 437	7.52	0.50	11.64
Highest	2 462	7.12	0.50	11.75

- **802.11g**

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	16.08	0.50	16.44
Middle	2 437	16.36	0.50	16.44
Highest	2 462	16.26	0.50	16.44

- **802.11n HT20**

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	17.14	0.50	17.60
Middle	2 437	17.24	0.50	17.60
Highest	2 462	17.36	0.50	17.60

- **802.11n HT40**

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 422	35.78	0.50	36.12
Middle	2 437	35.86	0.50	36.12
Highest	2 452	36.02	0.50	36.12

- ANT 3**- 802.11b**

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	7.10	0.50	11.58
Middle	2 437	7.10	0.50	11.69
Highest	2 462	7.10	0.50	11.75

- 802.11g

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	16.32	0.50	16.38
Middle	2 437	16.06	0.50	16.38
Highest	2 462	16.36	0.50	16.44

- 802.11n HT20

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	17.32	0.50	17.60
Middle	2 437	17.36	0.50	17.60
Highest	2 462	17.24	0.50	17.60

- 802.11n HT40

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 422	35.90	0.50	36.12
Middle	2 437	35.78	0.50	36.12
Highest	2 452	35.94	0.50	36.12

- MIMO (ANT 1+2)

- 802.11n HT20

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	17.40	0.50	17.60
Middle	2 437	17.28	0.50	17.60
Highest	2 462	17.56	0.50	17.60

- 802.11n HT40

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 422	35.76	0.50	36.12
Middle	2 437	35.92	0.50	36.12
Highest	2 452	35.84	0.50	36.12

- MIMO (ANT 1+2+3)

- 802.11n HT20

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 412	17.54	0.50	17.60
Middle	2 437	17.54	0.50	17.60
Highest	2 462	17.50	0.50	17.66

- 802.11n HT40

Channel	Frequency [MHz]	6 dB Bandwidth [MHz]	Min. Limit [MHz]	Occupied Bandwidth (99 % BW) [MHz]
Lowest	2 422	36.06	0.50	36.12
Middle	2 437	35.82	0.50	36.12
Highest	2 452	35.78	0.50	36.12

NOTE:

1. We took the insertion loss of the cable loss into consideration within the measuring instrument.

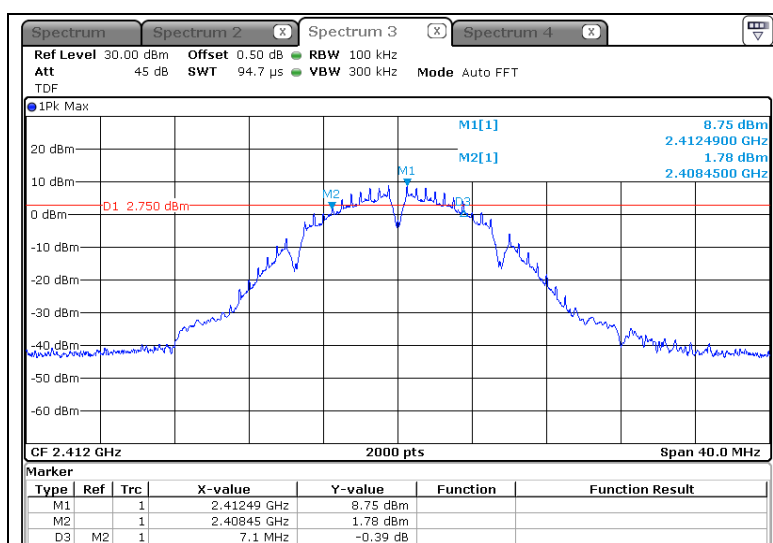
5.4.4 Test Plot

Figure 2. Plot of the 6 dB Bandwidth & Occupied Bandwidth

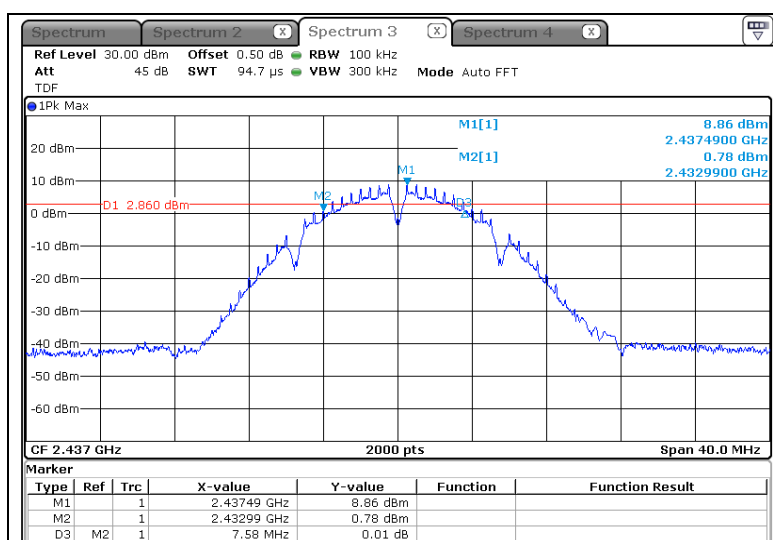
- ANT 1

- 802.11b_6 dB Bandwidth

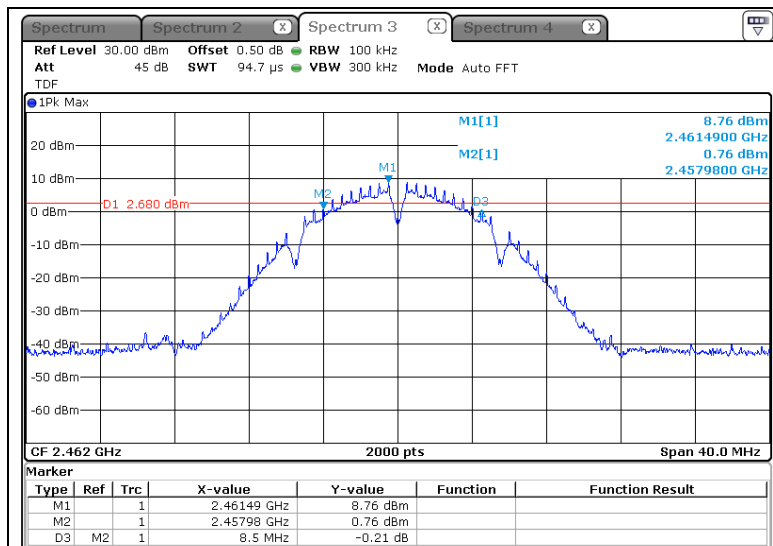
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

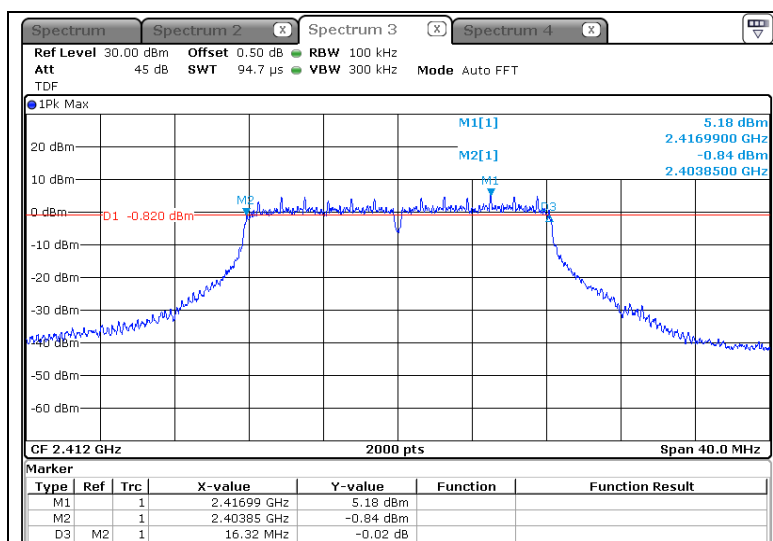


Highest Channel (2 462 MHz)

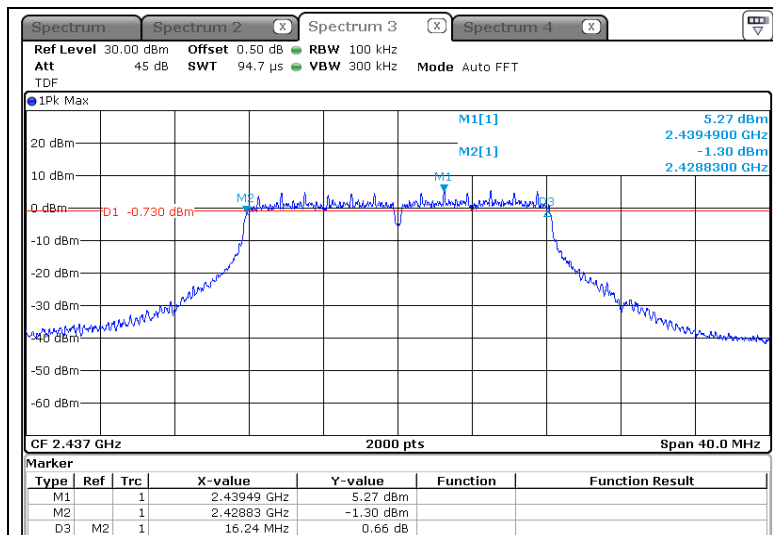


- 802.11g_6 dB Bandwidth

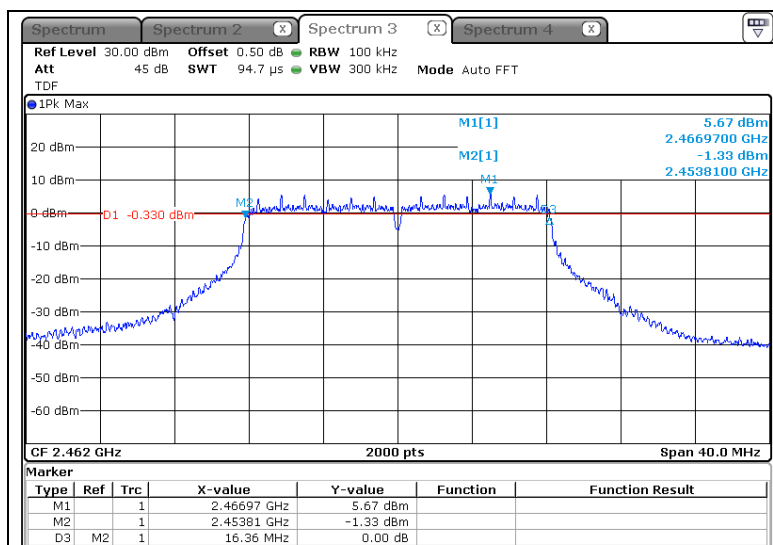
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)



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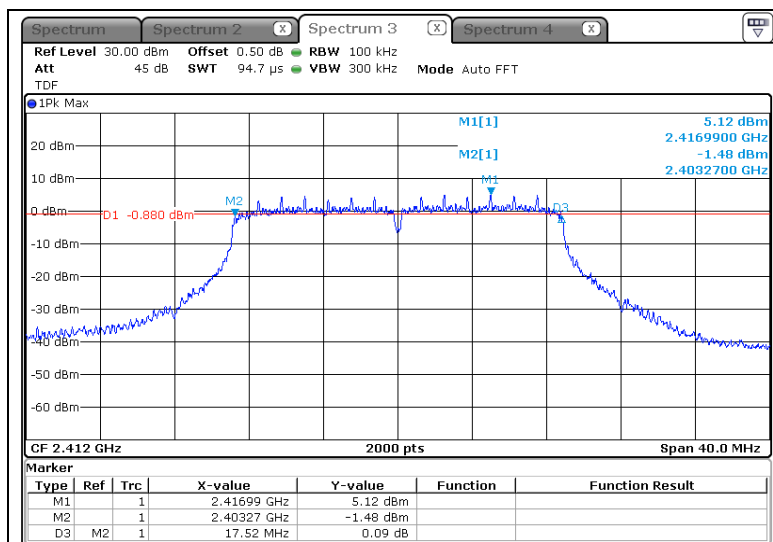
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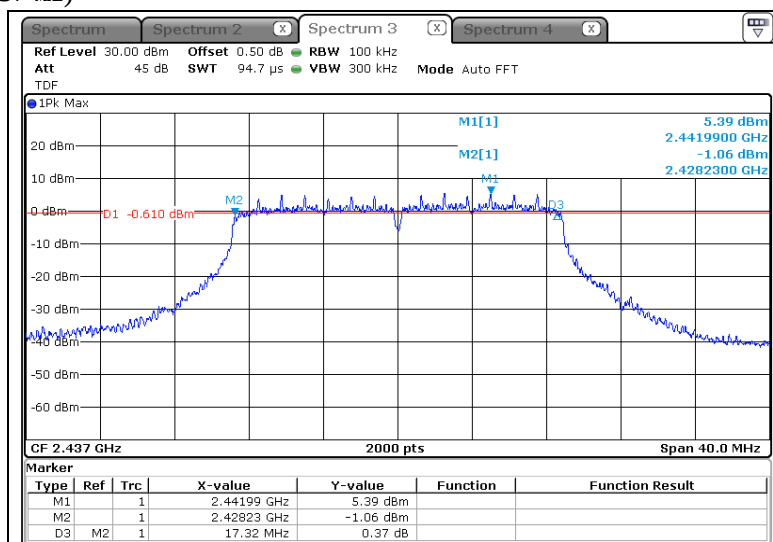
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- 802.11n HT20_6 dB Bandwidth

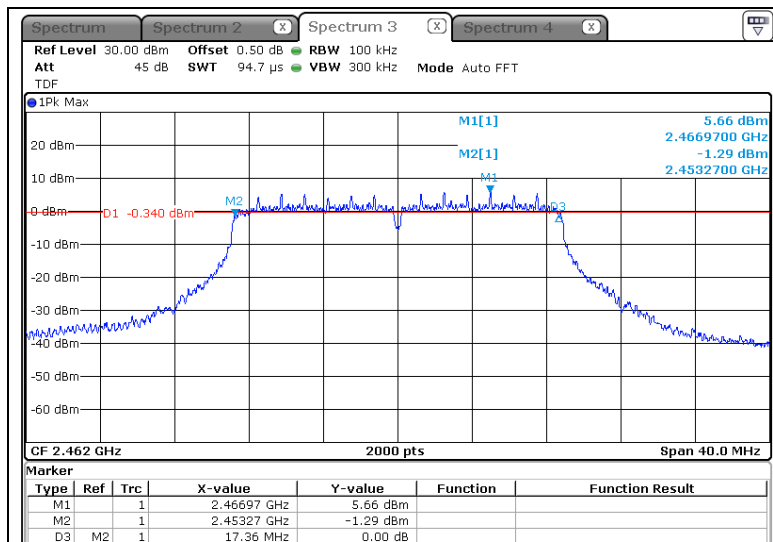
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

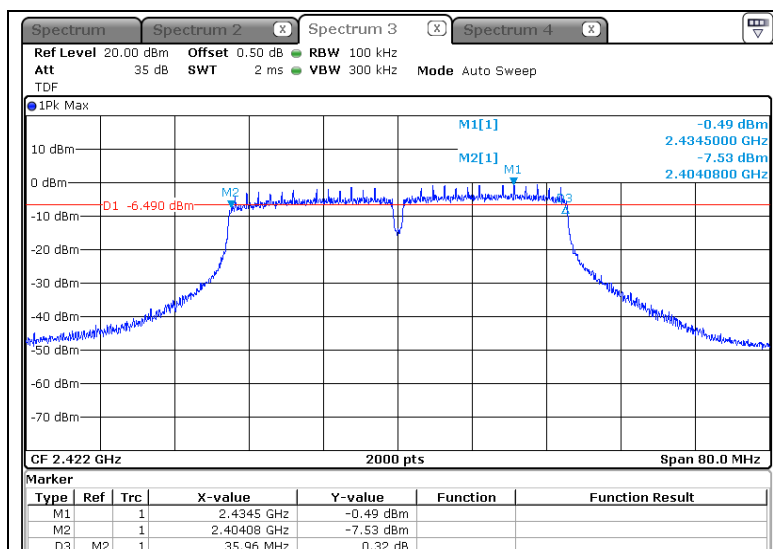


Highest Channel (2 462 MHz)



- 802.11n HT40_6 dB Bandwidth

Lowest Channel (2 422 MHz)



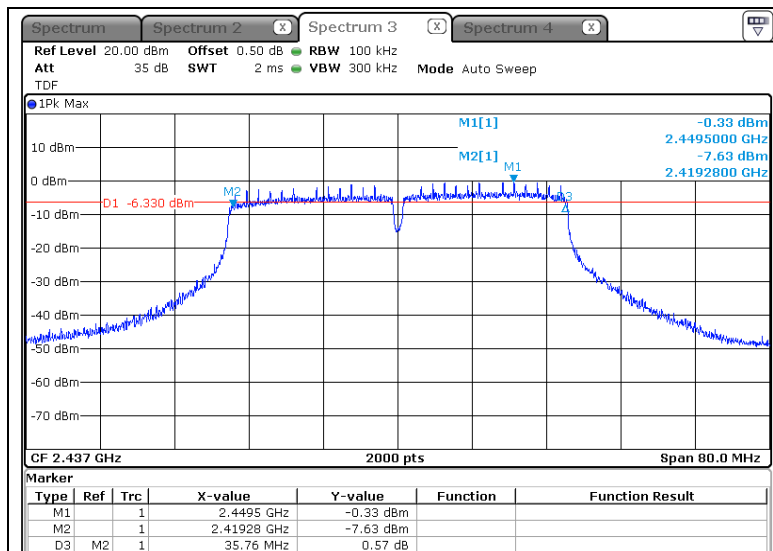
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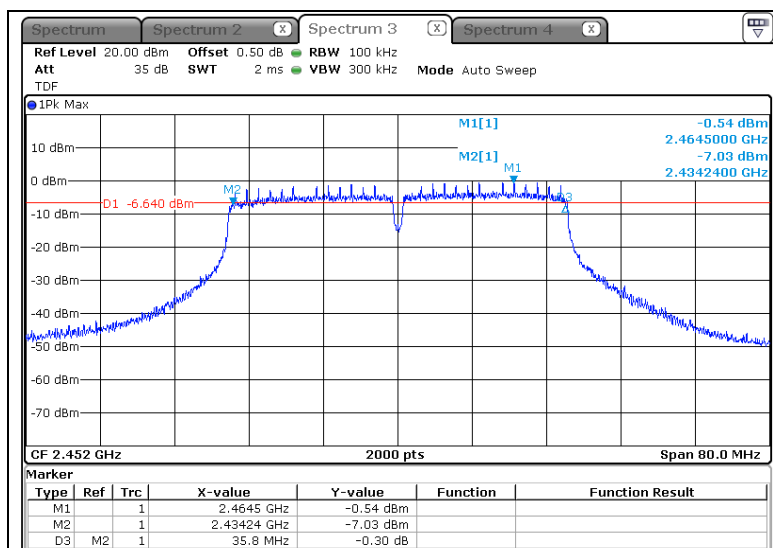
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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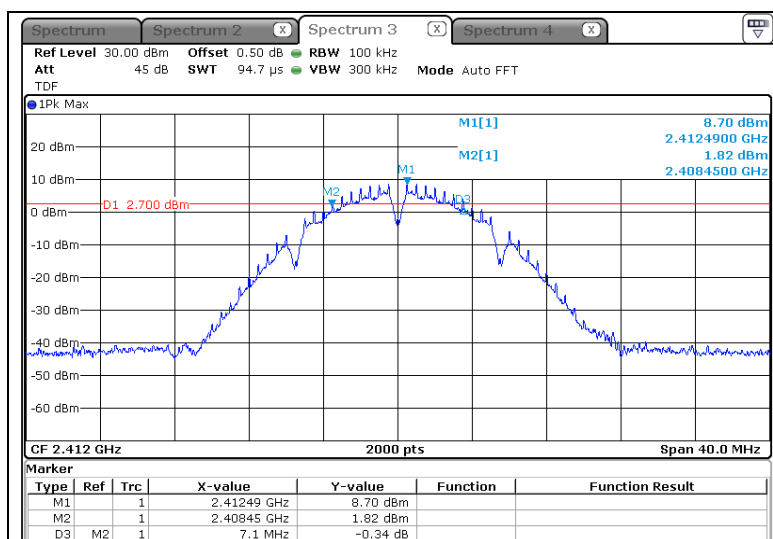
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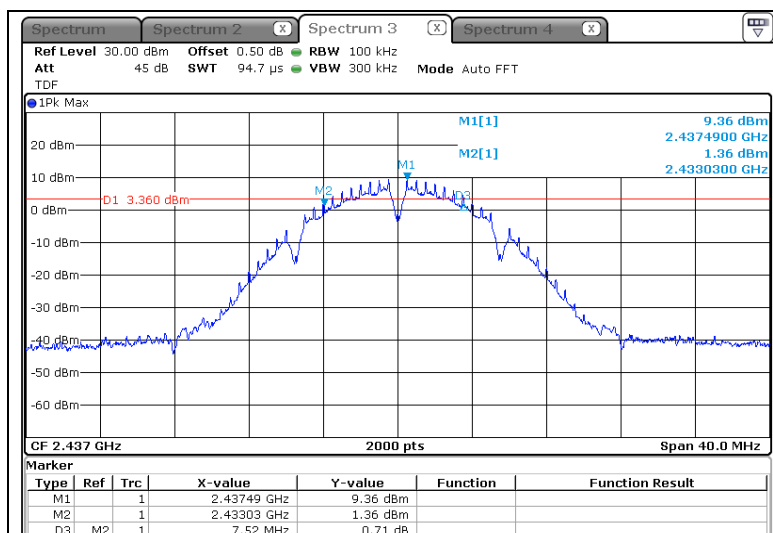
- ANT 2

- 802.11b_6 dB Bandwidth

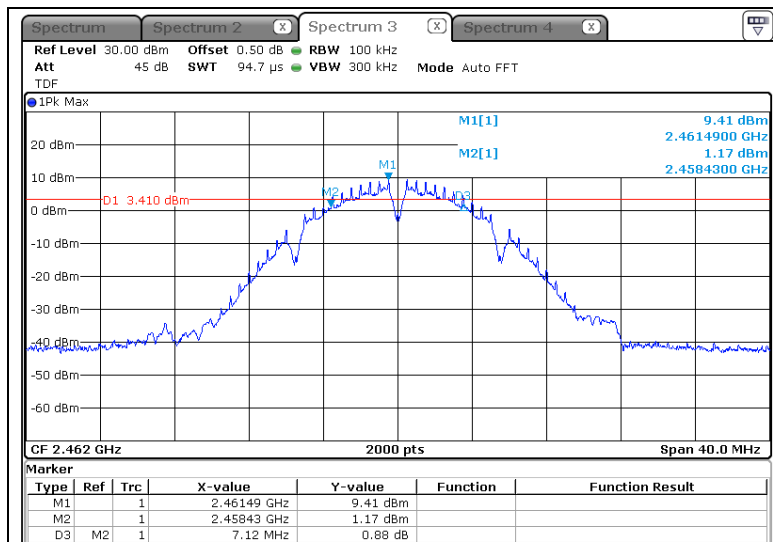
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

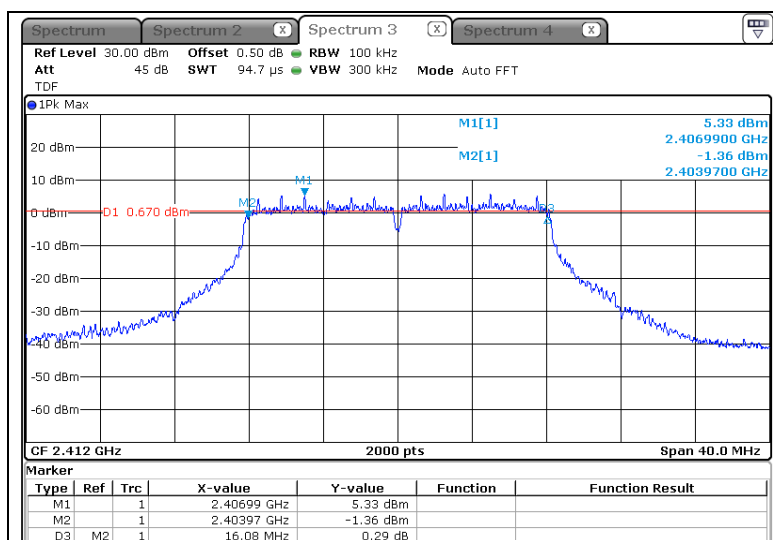


Highest Channel (2 462 MHz)

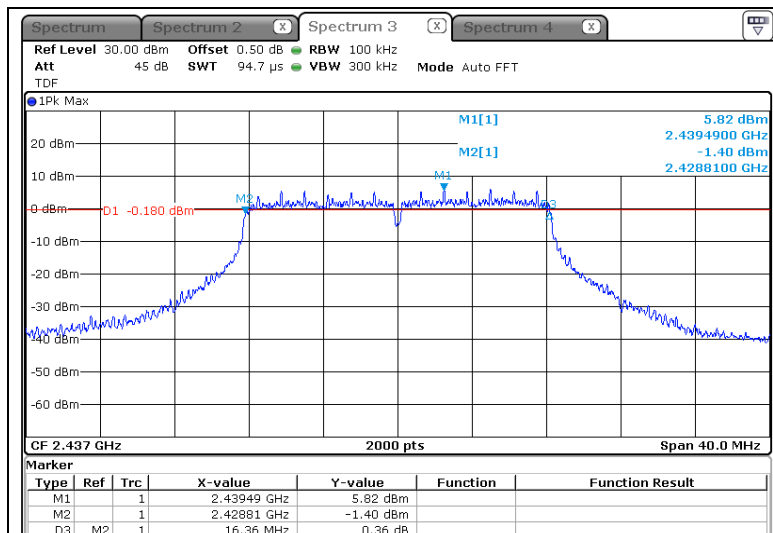


- 802.11g_6 dB Bandwidth

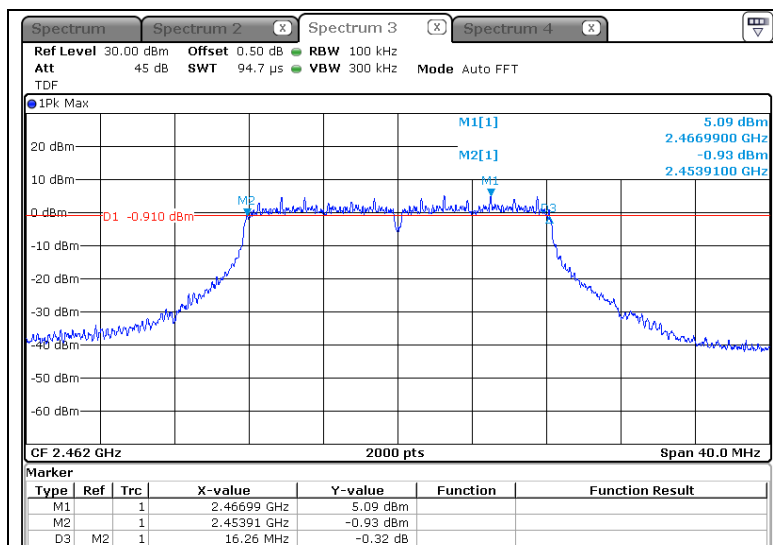
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

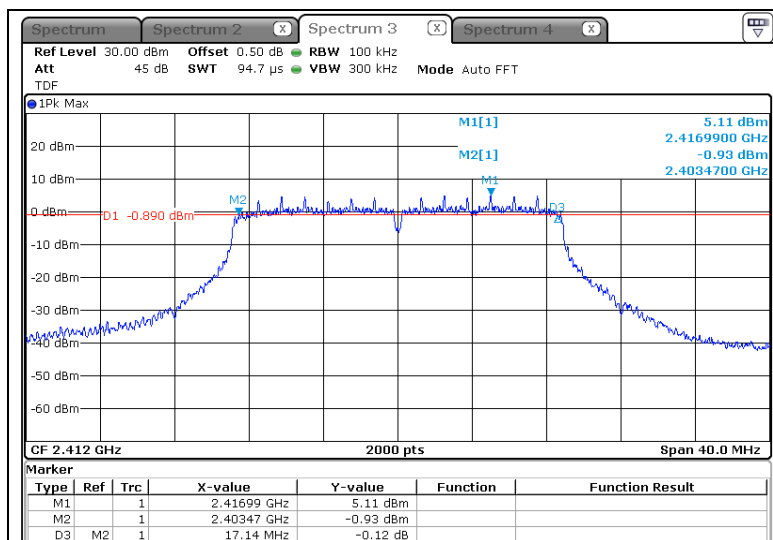


Highest Channel (2 462 MHz)

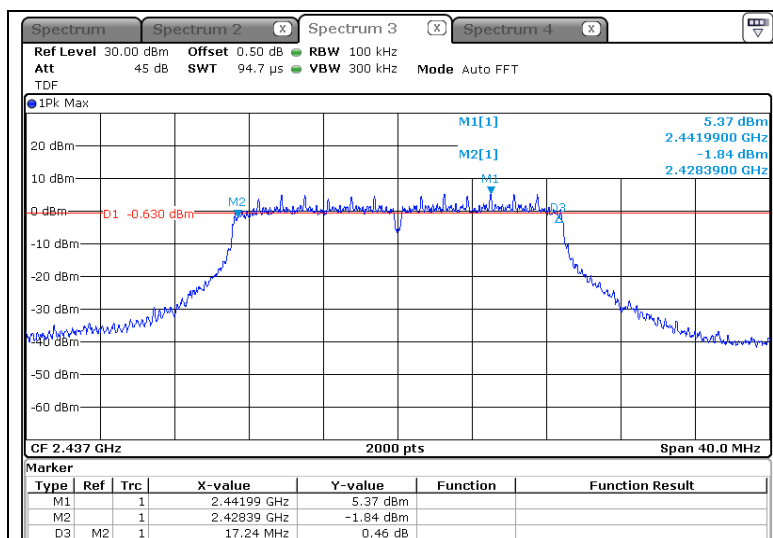


- 802.11n HT20_6 dB Bandwidth

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



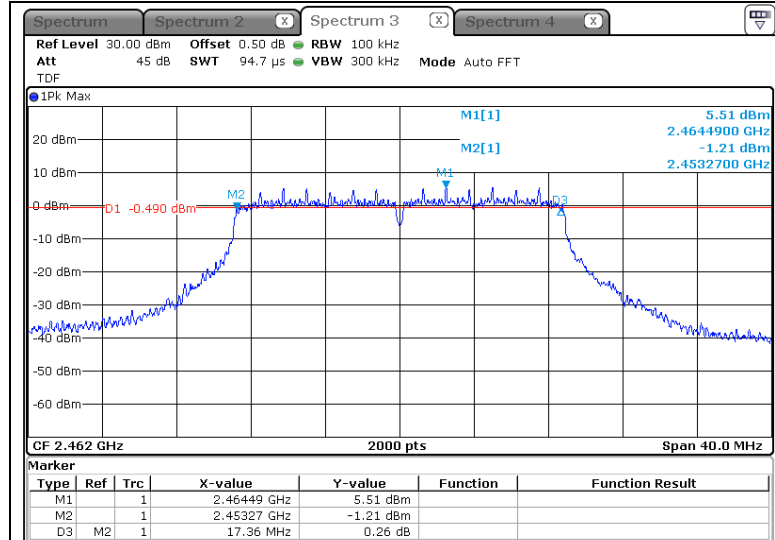
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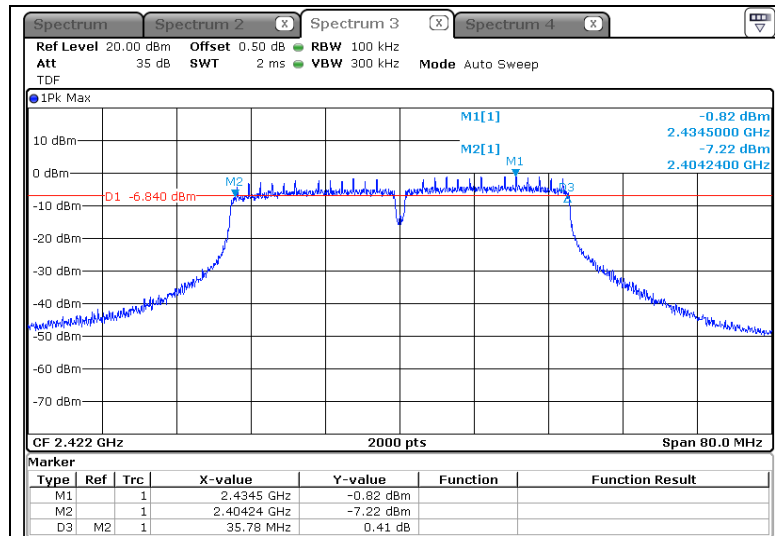
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Highest Channel (2 462 MHz)



- 802.11n HT40_6 dB Bandwidth

Lowest Channel (2 422 MHz)



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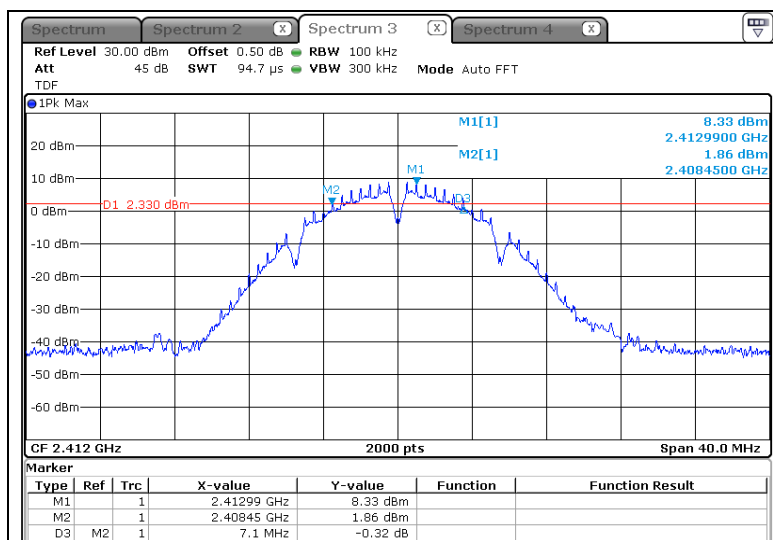
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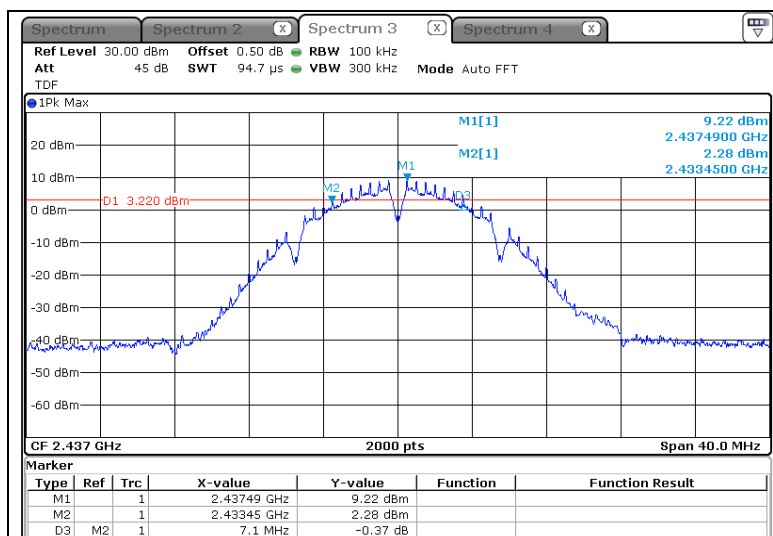
- ANT 3

- 802.11b_6 dB Bandwidth

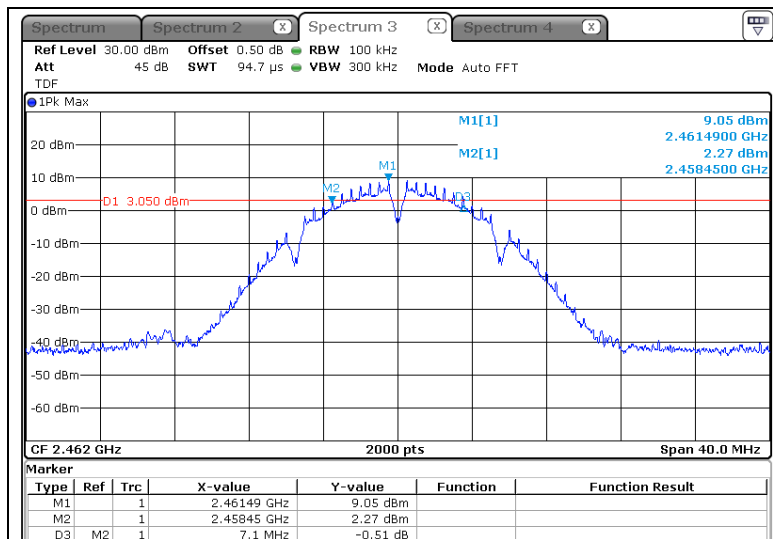
Lowest Channel (2 412 MHz)



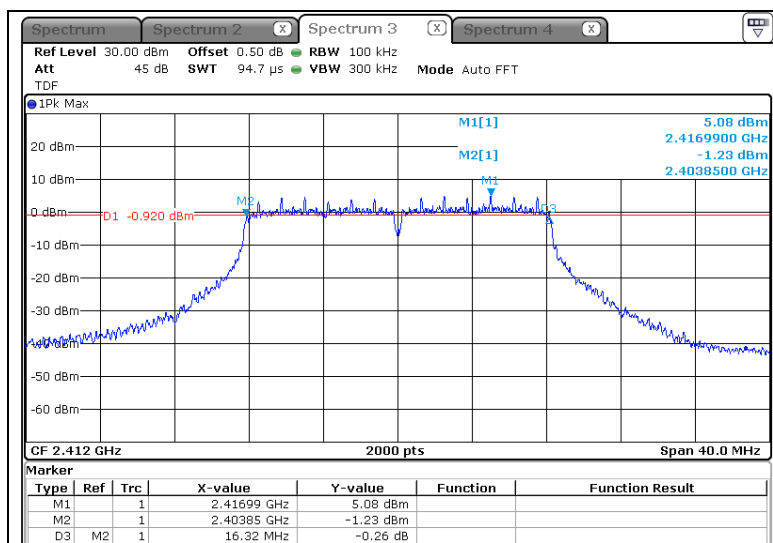
Middle Channel (2 437 MHz)



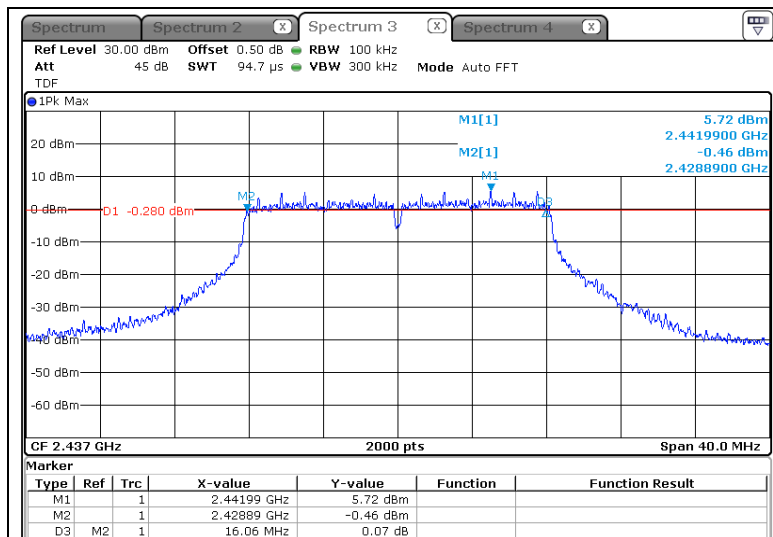
Highest Channel (2 462 MHz)

**- 802.11g_6 dB Bandwidth**

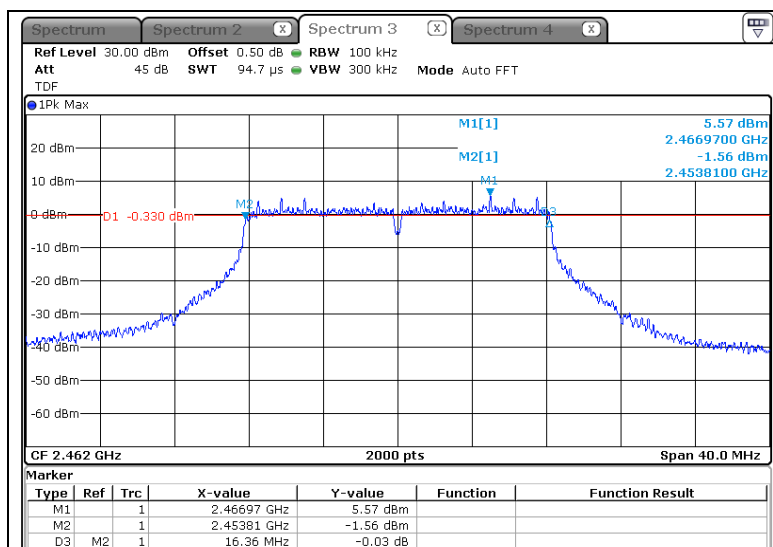
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

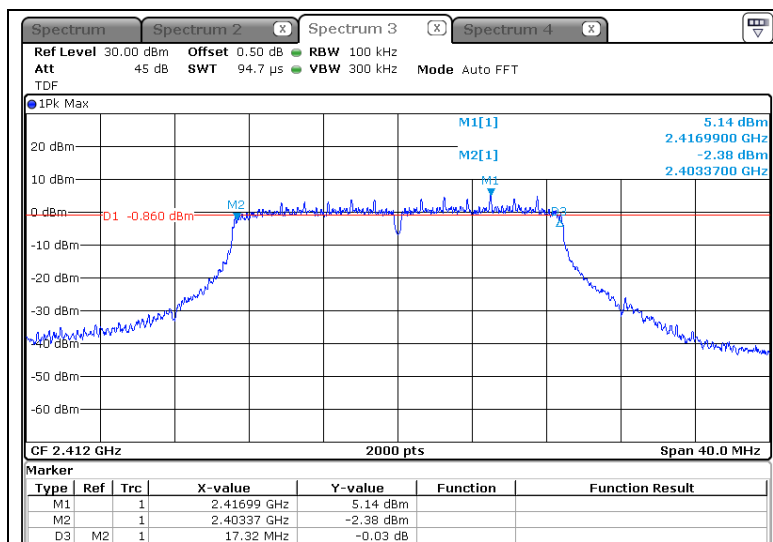


Highest Channel (2 462 MHz)

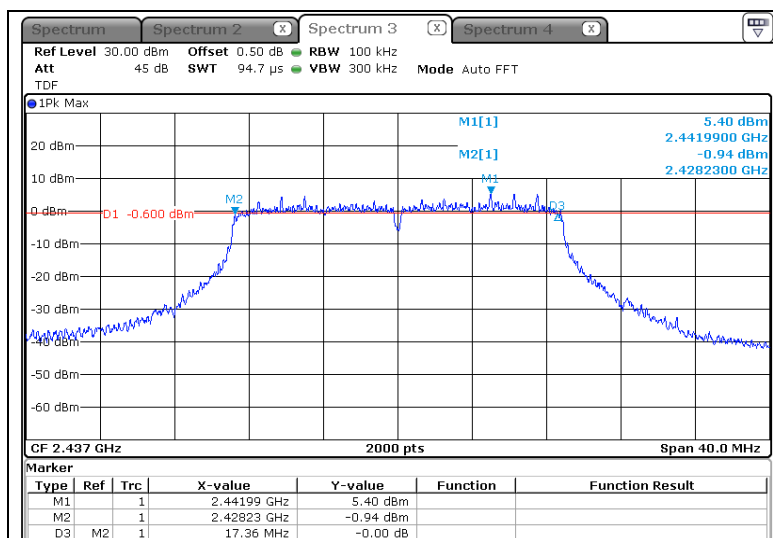


- 802.11n HT20_6 dB Bandwidth

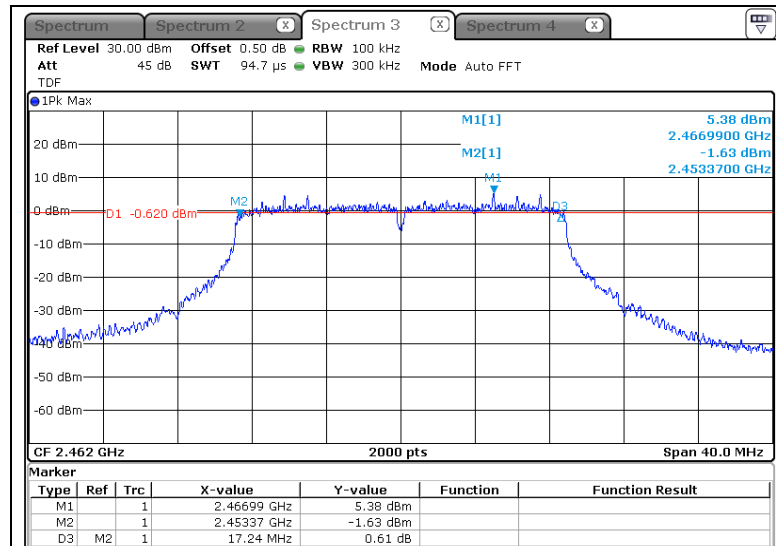
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)

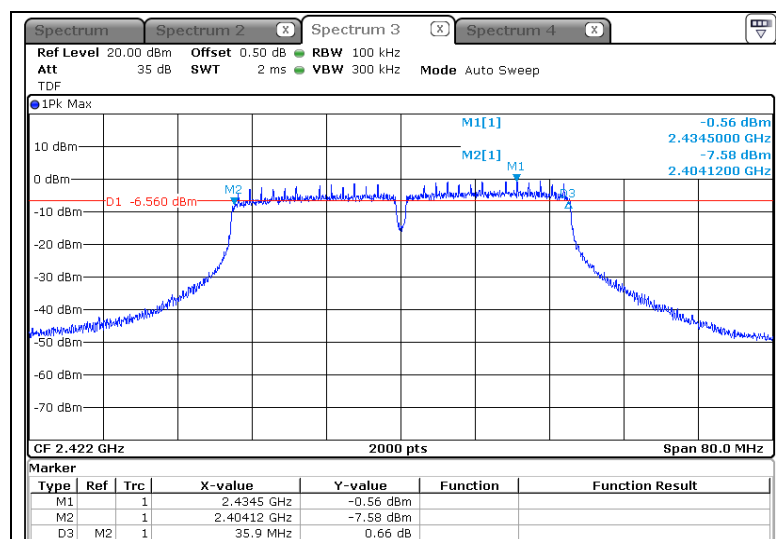


Highest Channel (2 462 MHz)

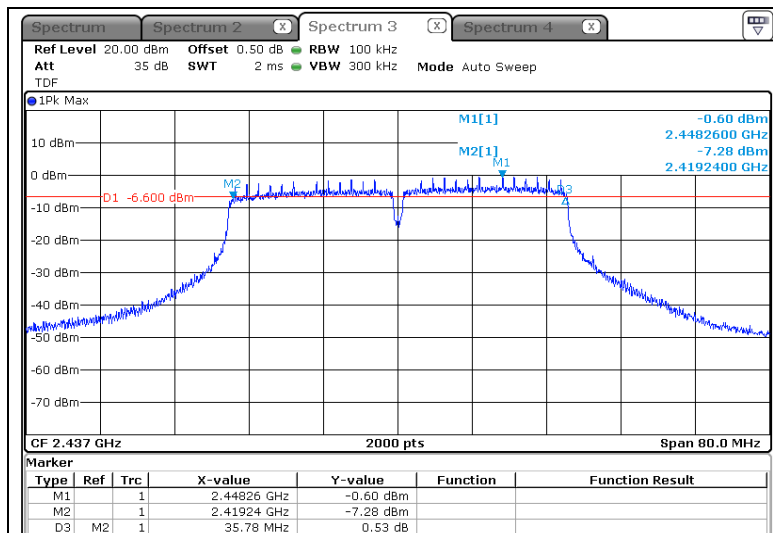


- 802.11n HT40_6 dB Bandwidth

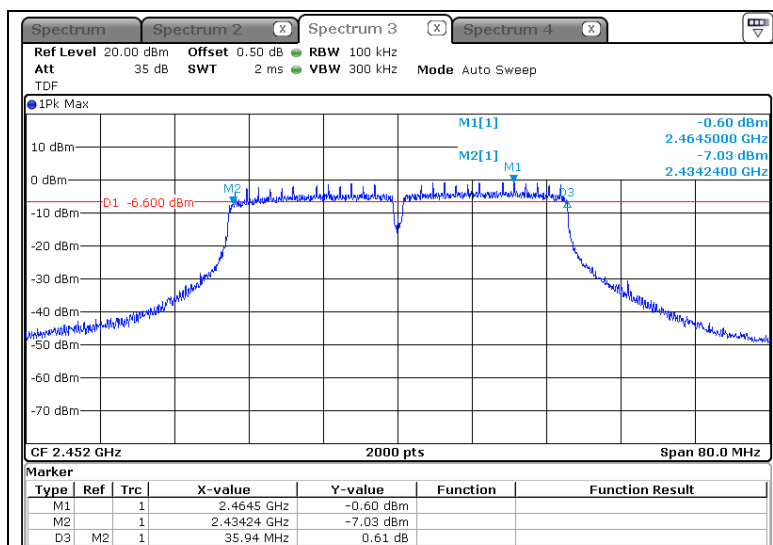
Lowest Channel (2 422 MHz)



Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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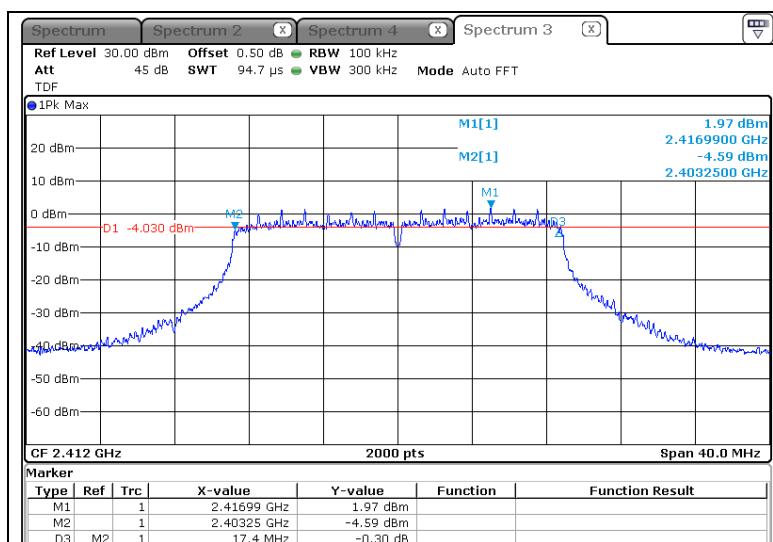
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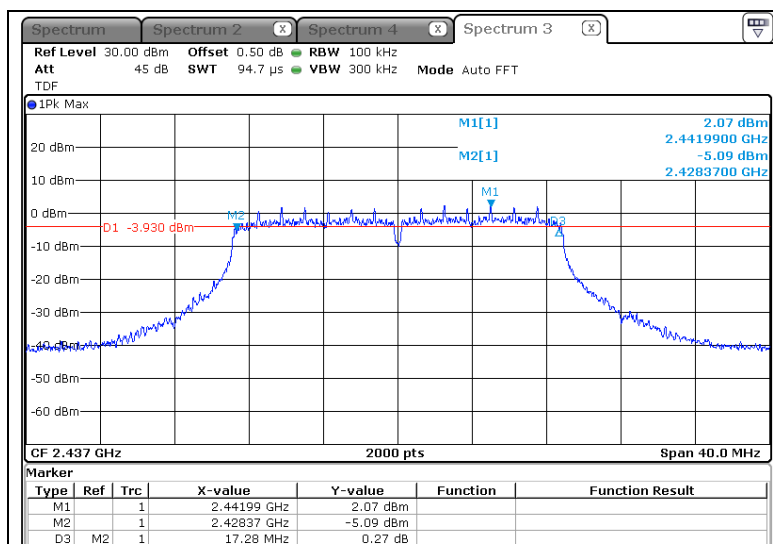
- MIMO (ANT 1+2)

- 802.11n HT20_6 dB Bandwidth

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



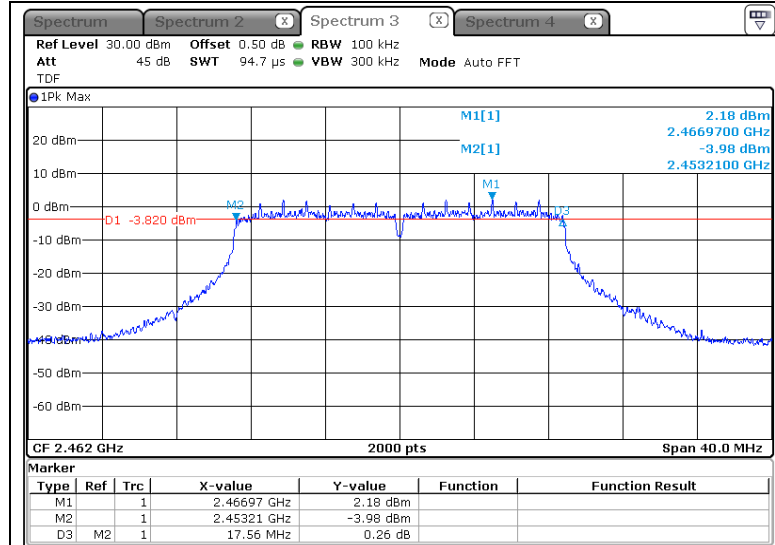
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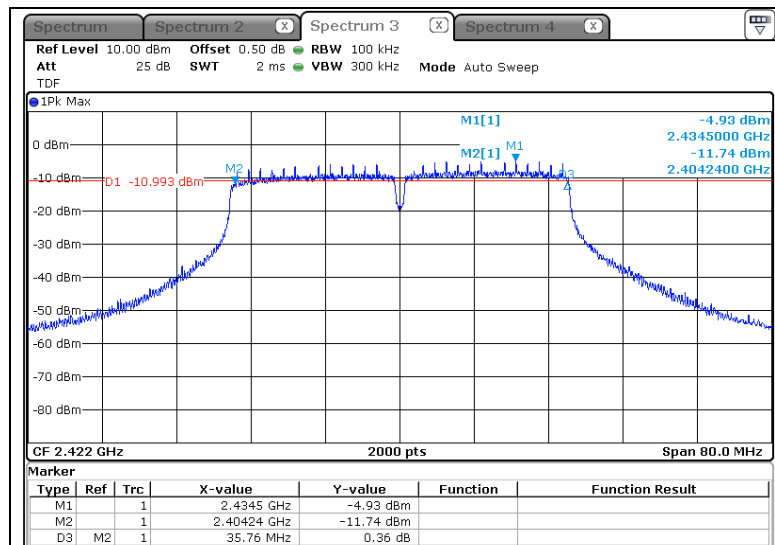
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Highest Channel (2 462 MHz)



- 802.11n HT40_6 dB Bandwidth

Lowest Channel (2 422 MHz)



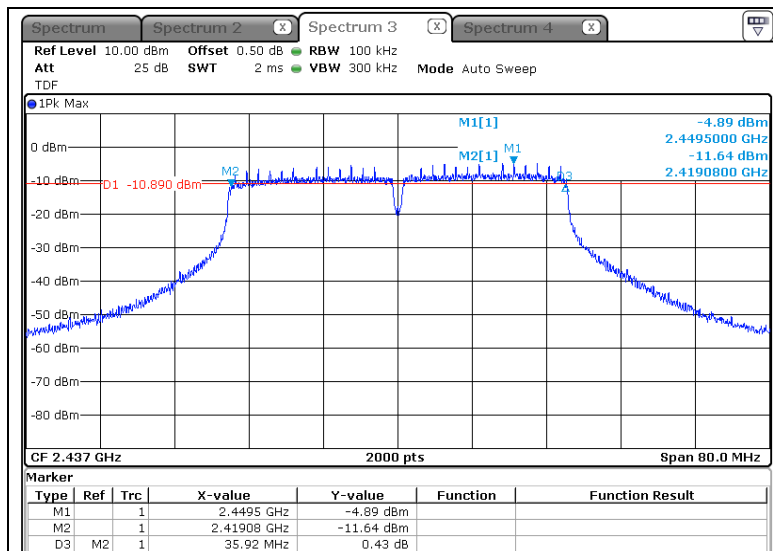
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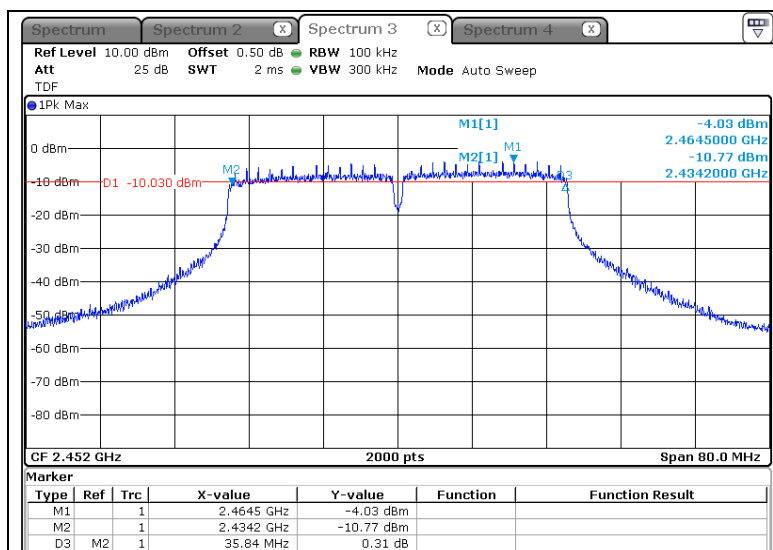
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Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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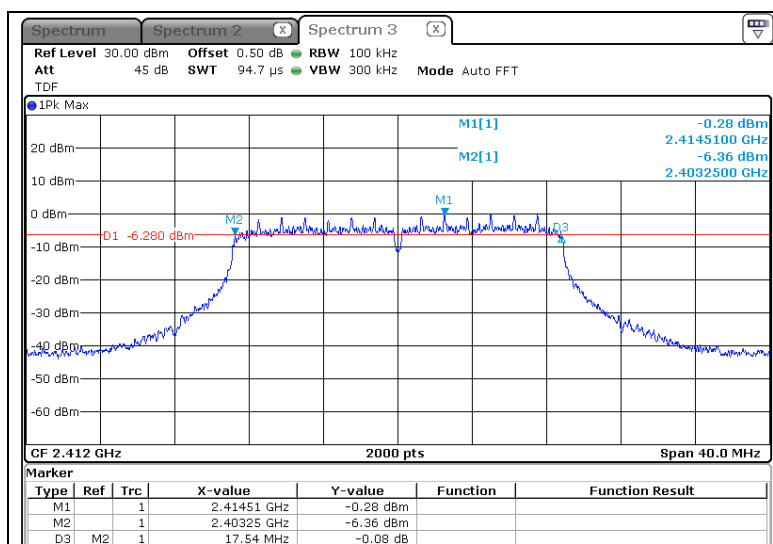
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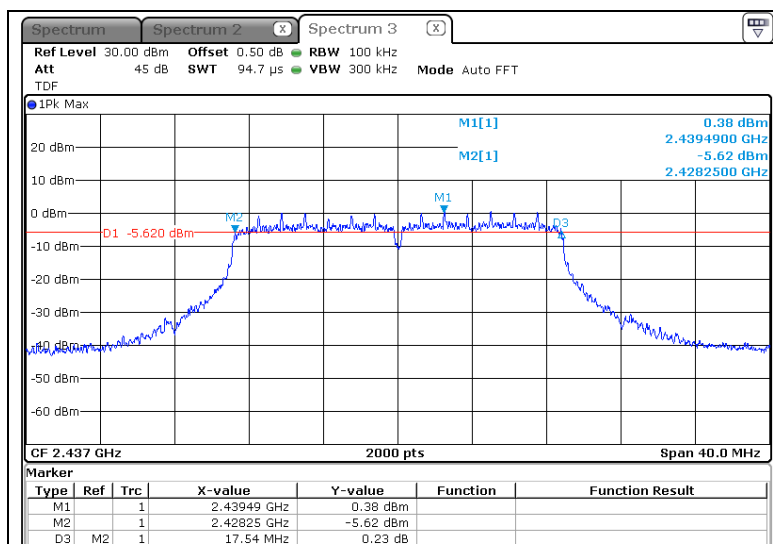
- MIMO (ANT 1+2+3)

- 802.11n HT20_6 dB Bandwidth

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



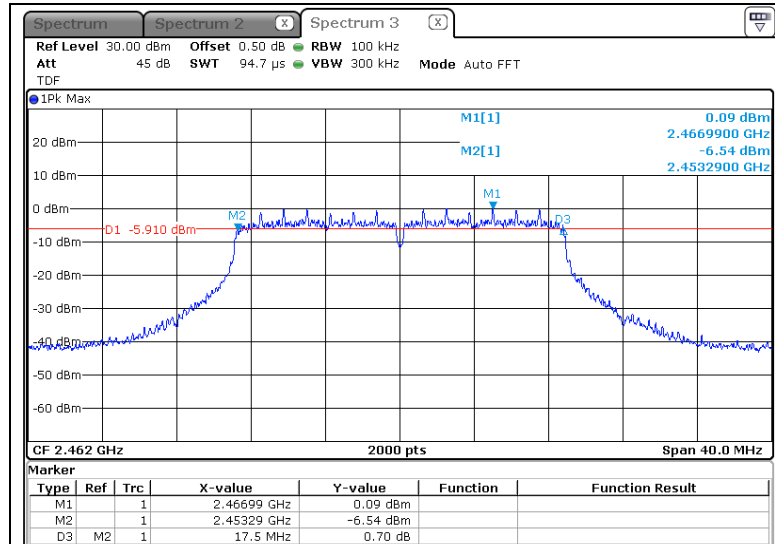
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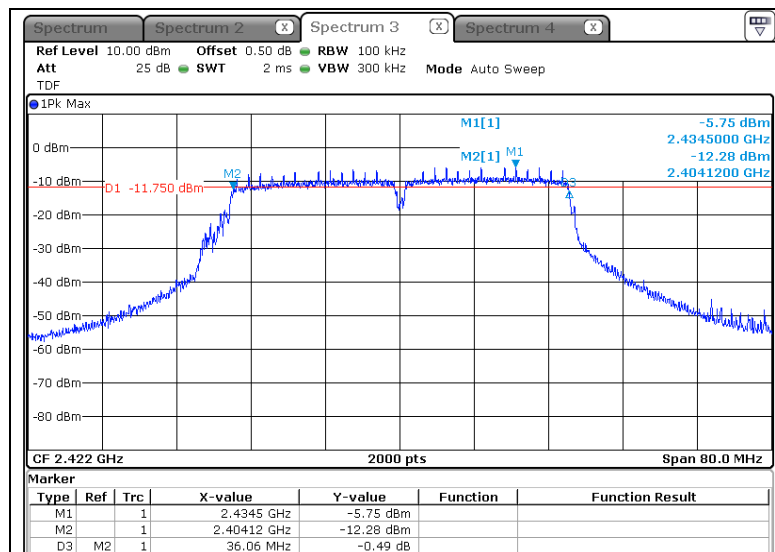
KCTL

Highest Channel (2 462 MHz)

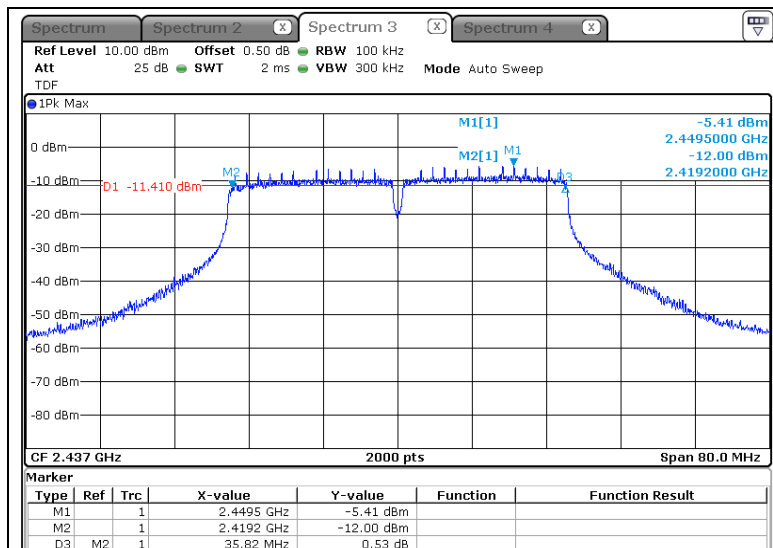


- 802.11n HT40_6 dB Bandwidth

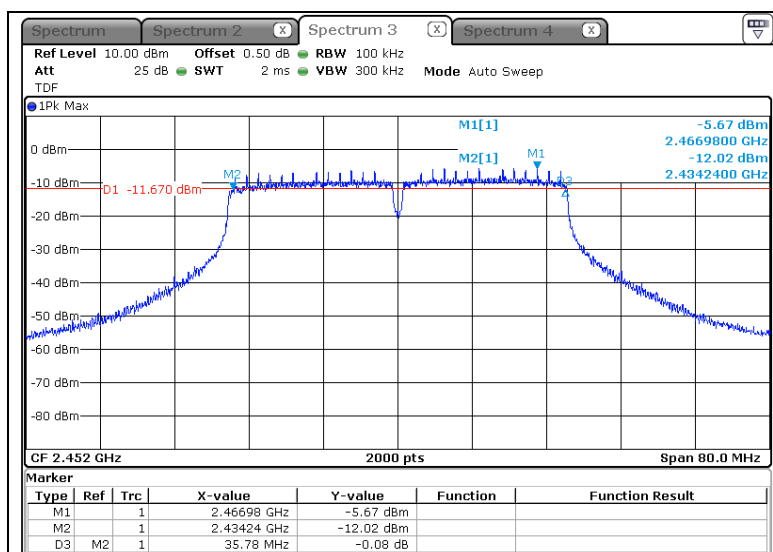
Lowest Channel (2 422 MHz)



Middle Channel (2 437 MHz)



Highest Channel (2 452 MHz)



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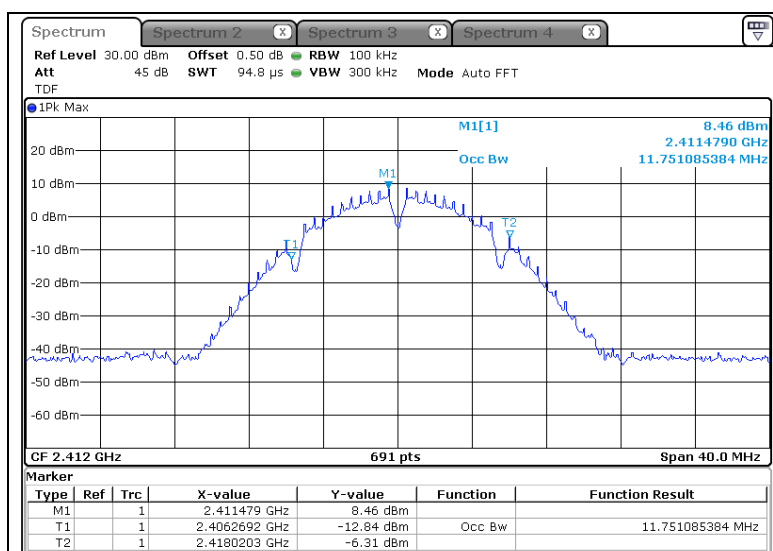
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KCTL

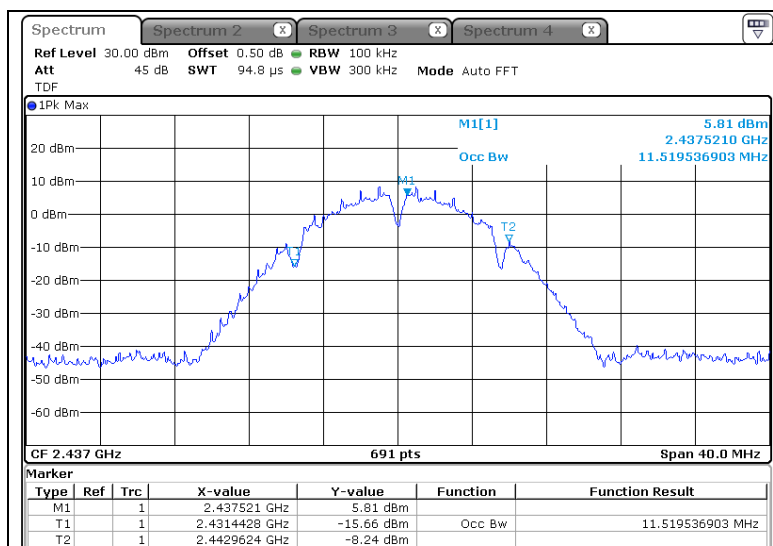
- ANT 1

- 802.11b_Occupied Bandwidth

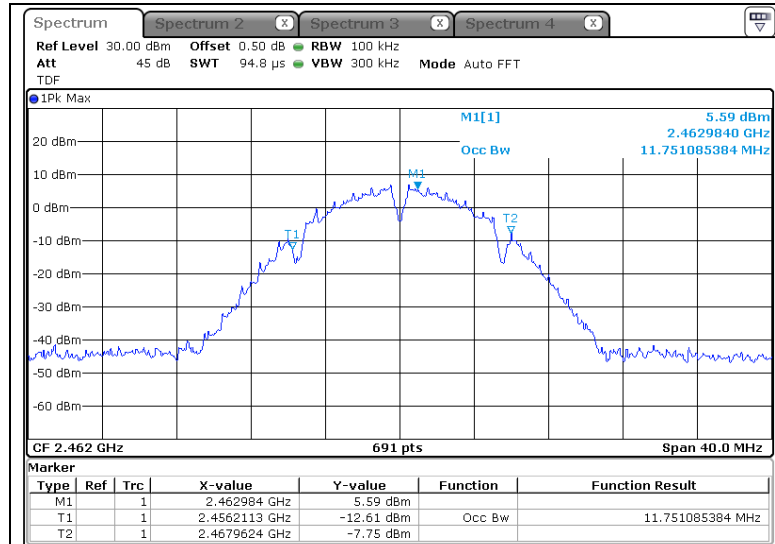
Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)



KCTL Inc.

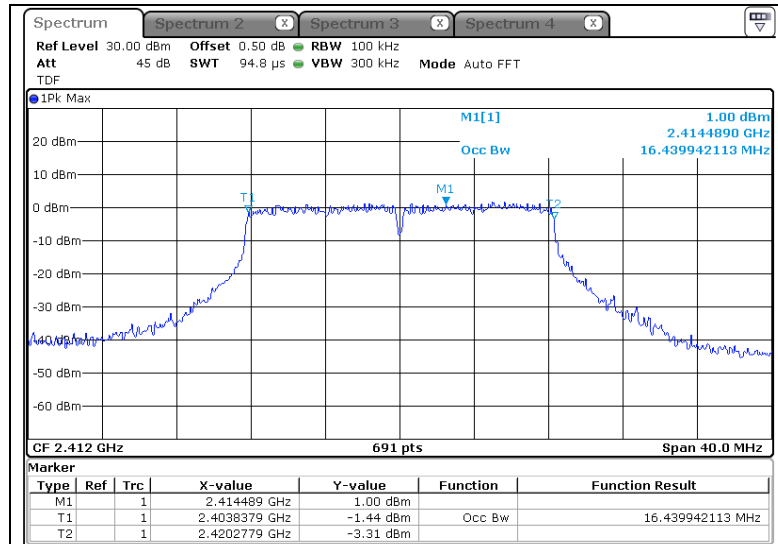
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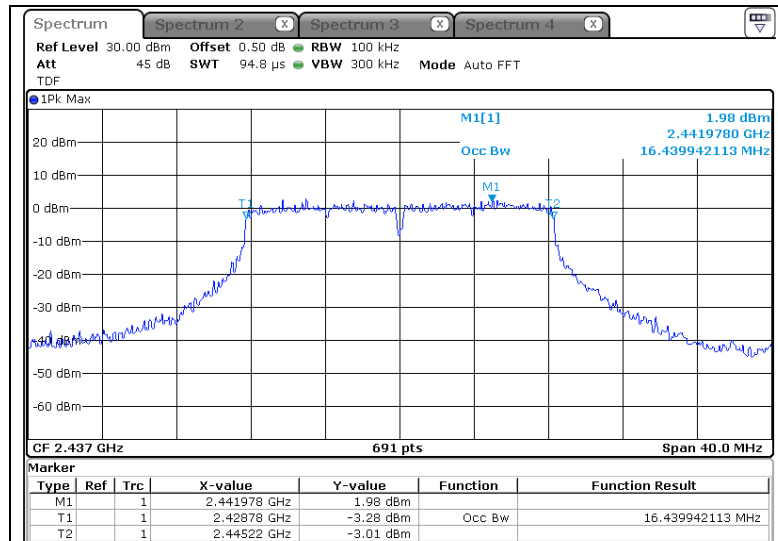
KCTL

- 802.11g_Occupied Bandwidth

Lowest Channel (2 412 MHz)



Middle Channel (2 437 MHz)



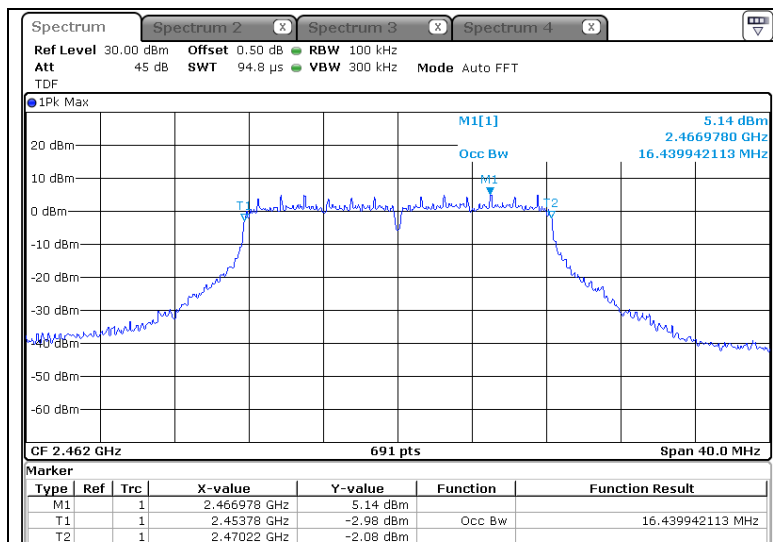
KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 443-390, Korea
TEL: 82-70-5008-1021 FAX: 82-505-299-8311
www.kctl.co.kr

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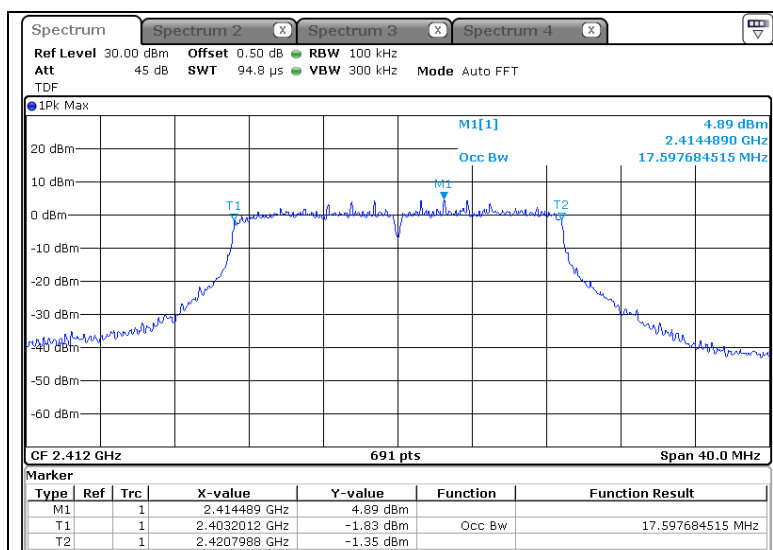
KCTL

Highest Channel (2 462 MHz)

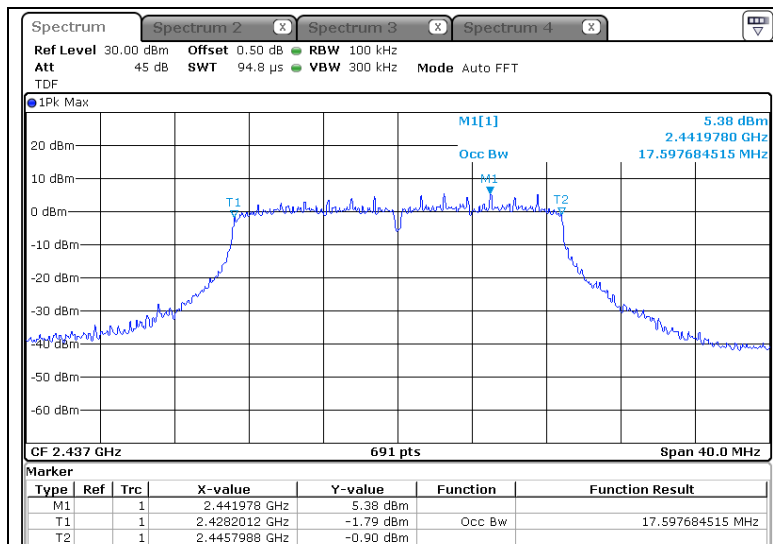


- 802.11n HT20_Occupied Bandwidth

Lowest Channel(2 412 MHz)



Middle Channel (2 437 MHz)



Highest Channel (2 462 MHz)

