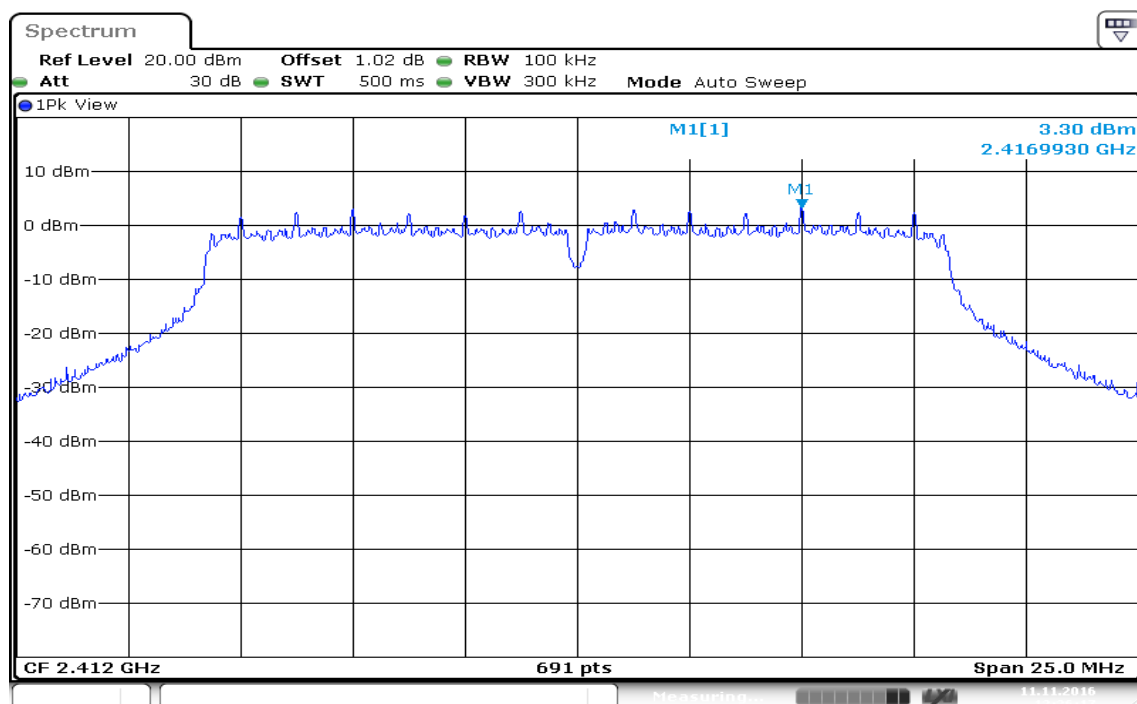


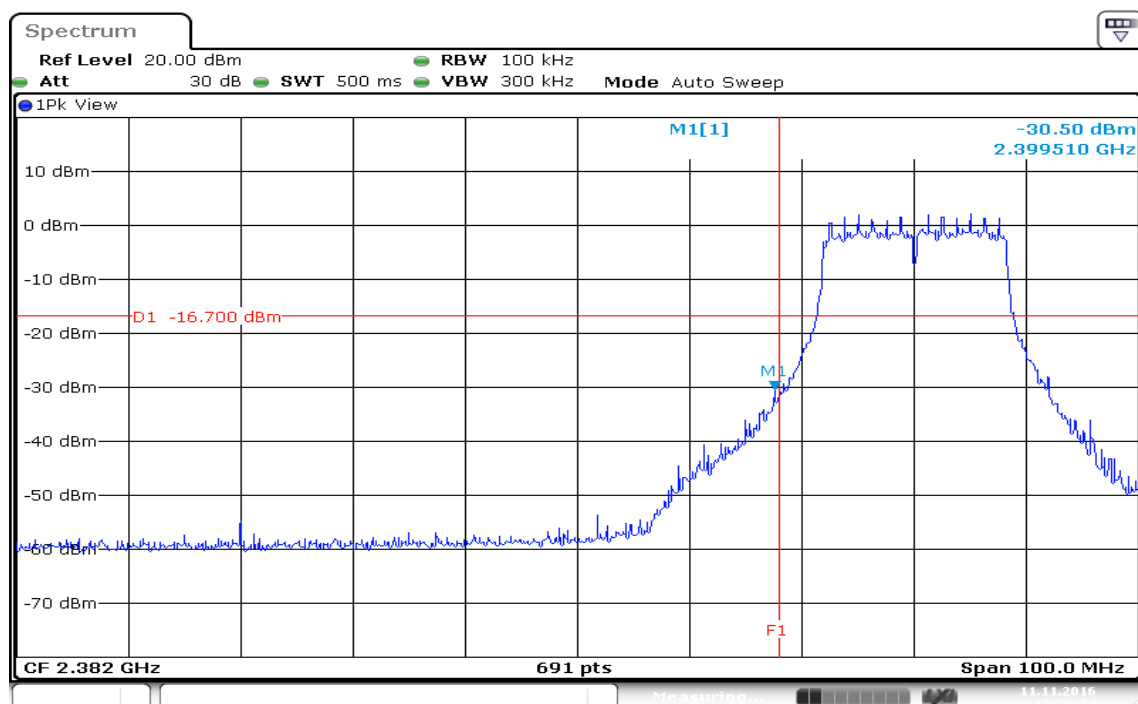
IEEE 802.11g Mode / Chain 0

Low CH_100kHz PSD Reference Level



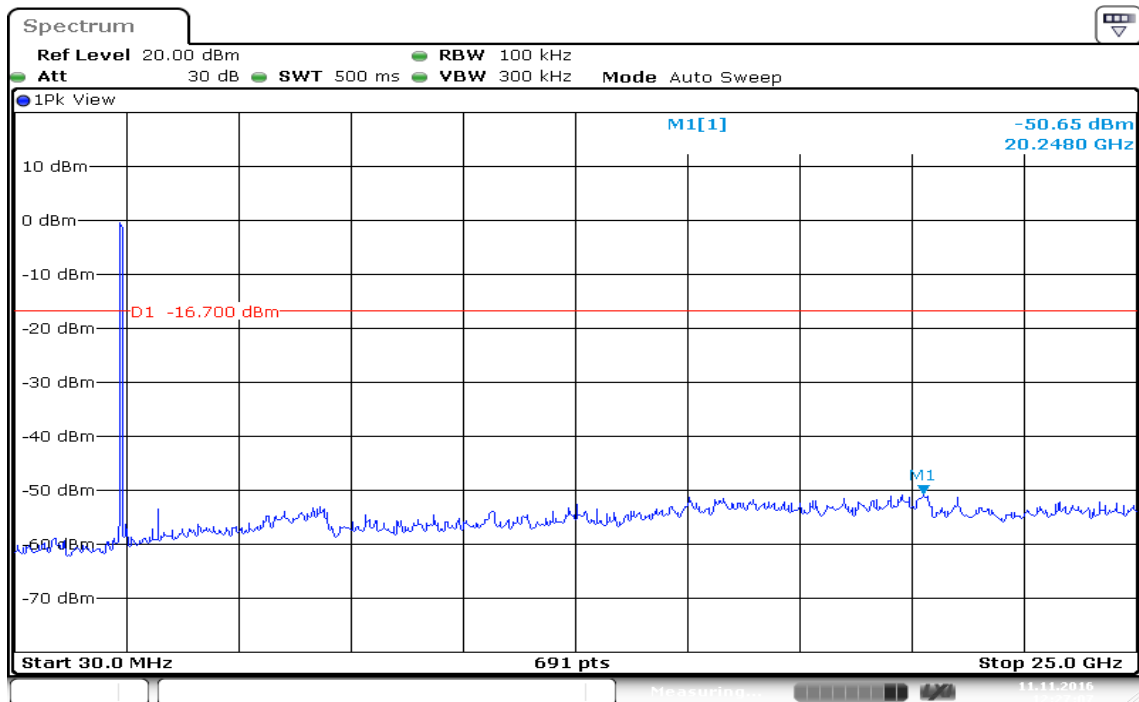
Date: 11 NOV. 2016 12:26:18

Low CH_Conducted Band Edge



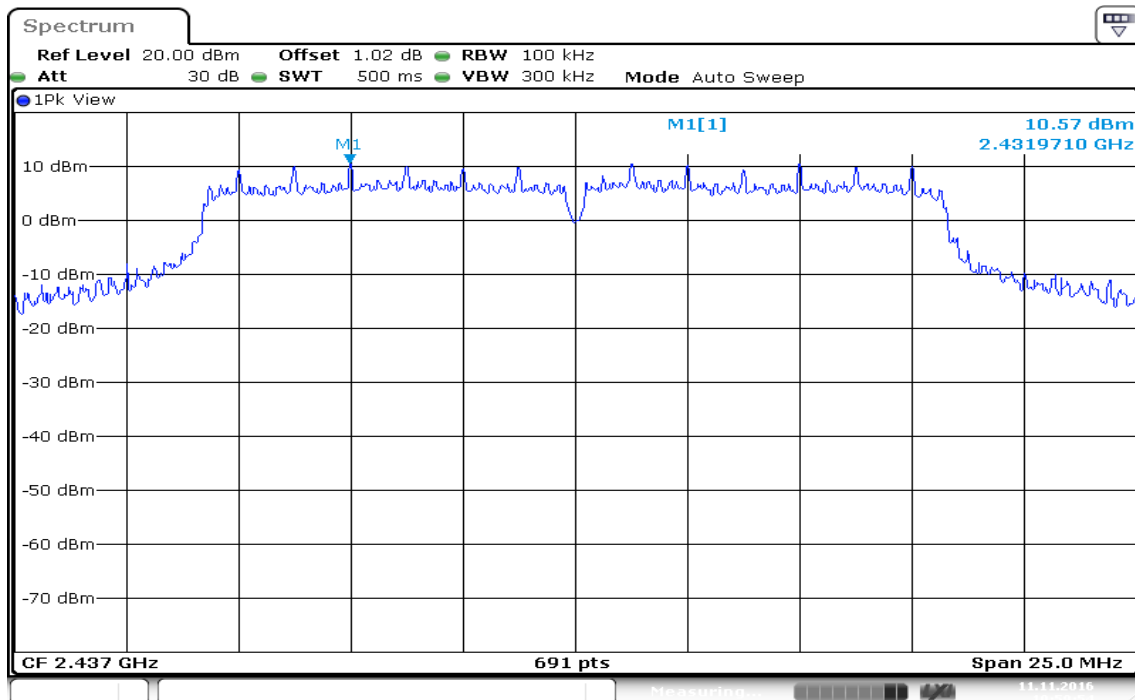
Date: 11 NOV. 2016 12:28:34

Low CH_Conducted Spurious Emission



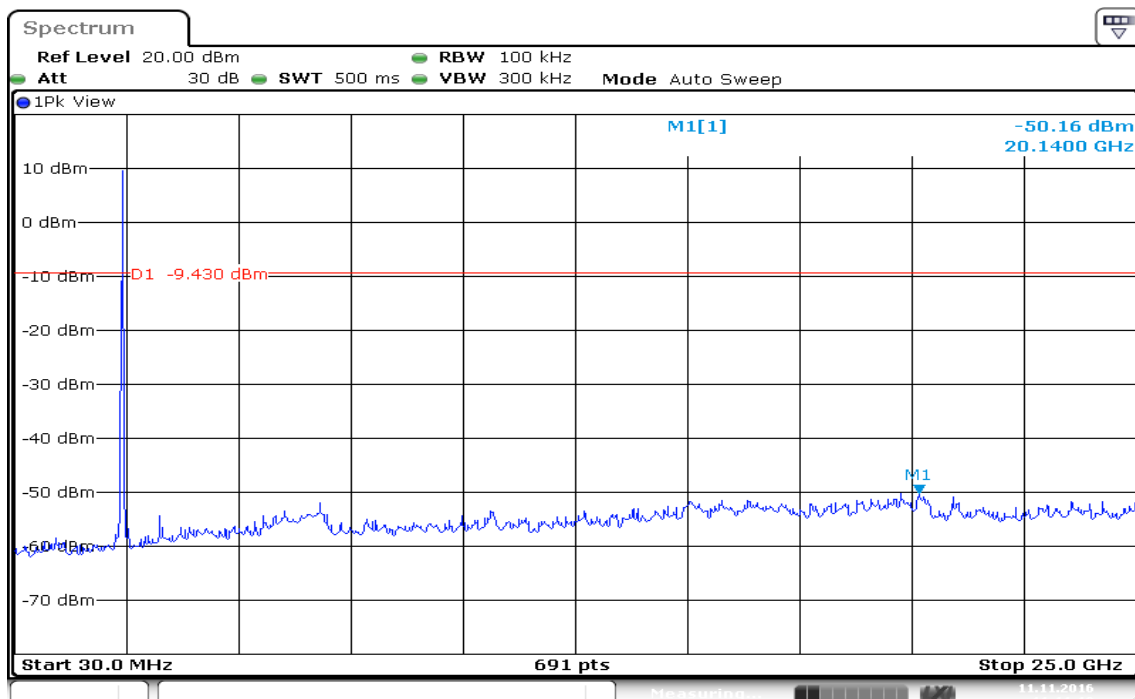
Date: 11 NOV 2016 12:27:07

Mid CH_100kHz PSD Reference Level



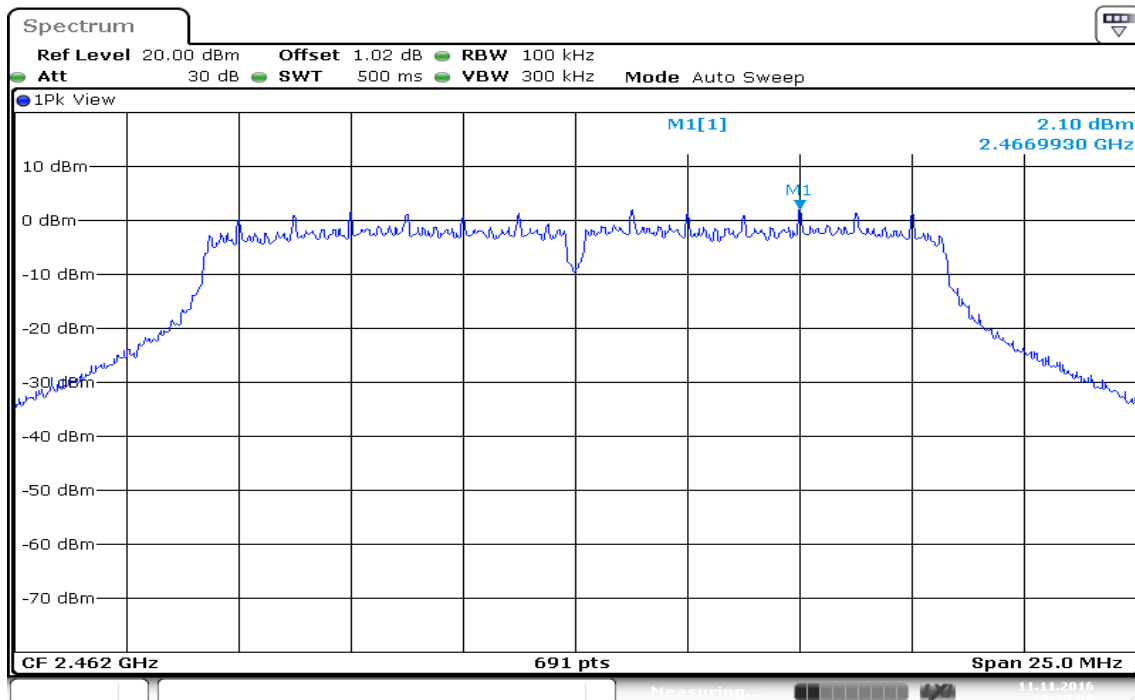
Date: 11 NOV. 2016 10:59:55

Mid CH_ Conducted Spurious Emission



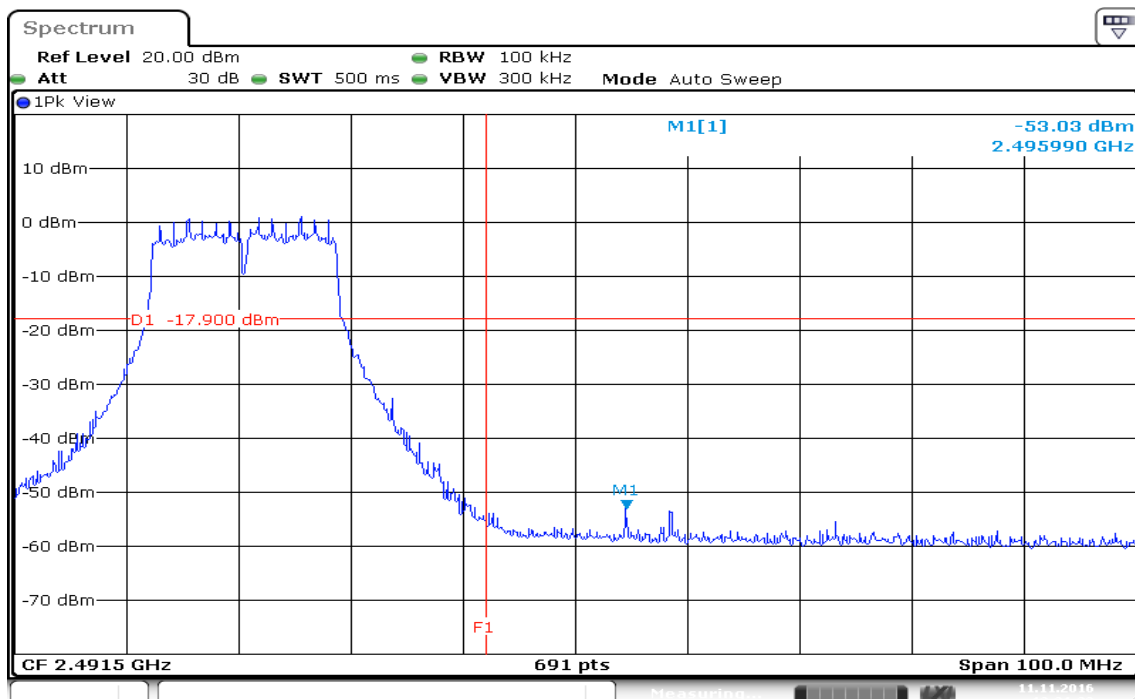
Date: 11 NOV. 2016 11:11:18

High CH_100kHz PSD Reference Level



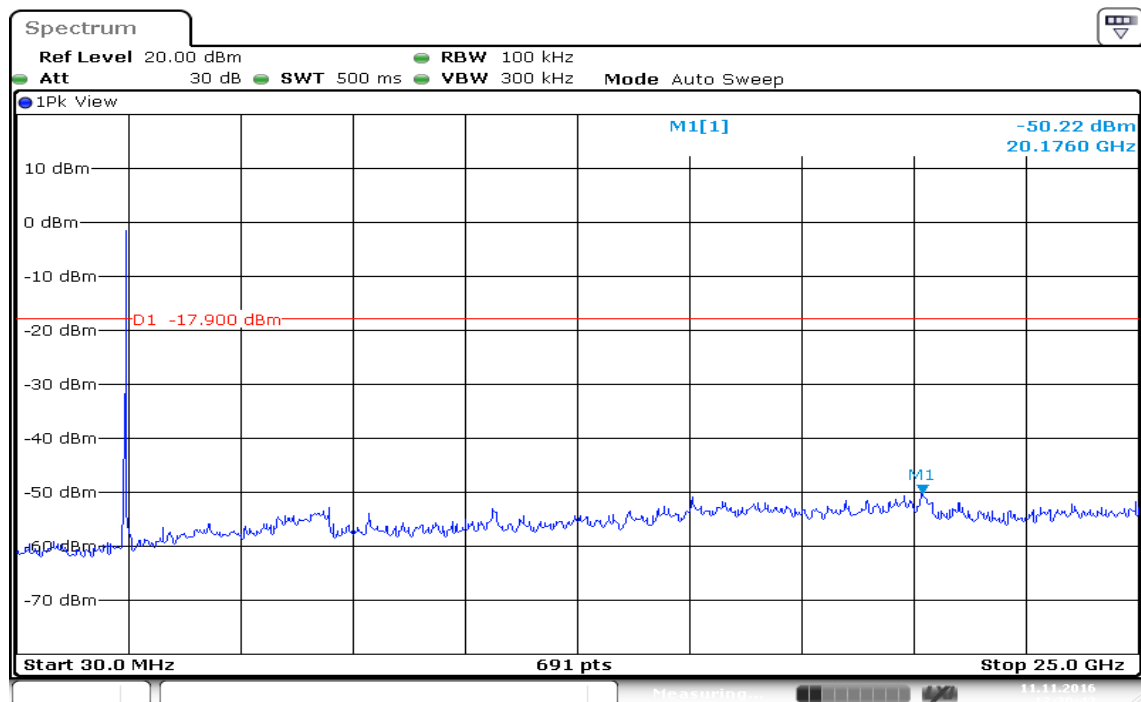
Date: 11 NOV. 2016 12:29:56

High CH_Conducted Band Edge



Date: 11 NOV. 2016 12:31:24

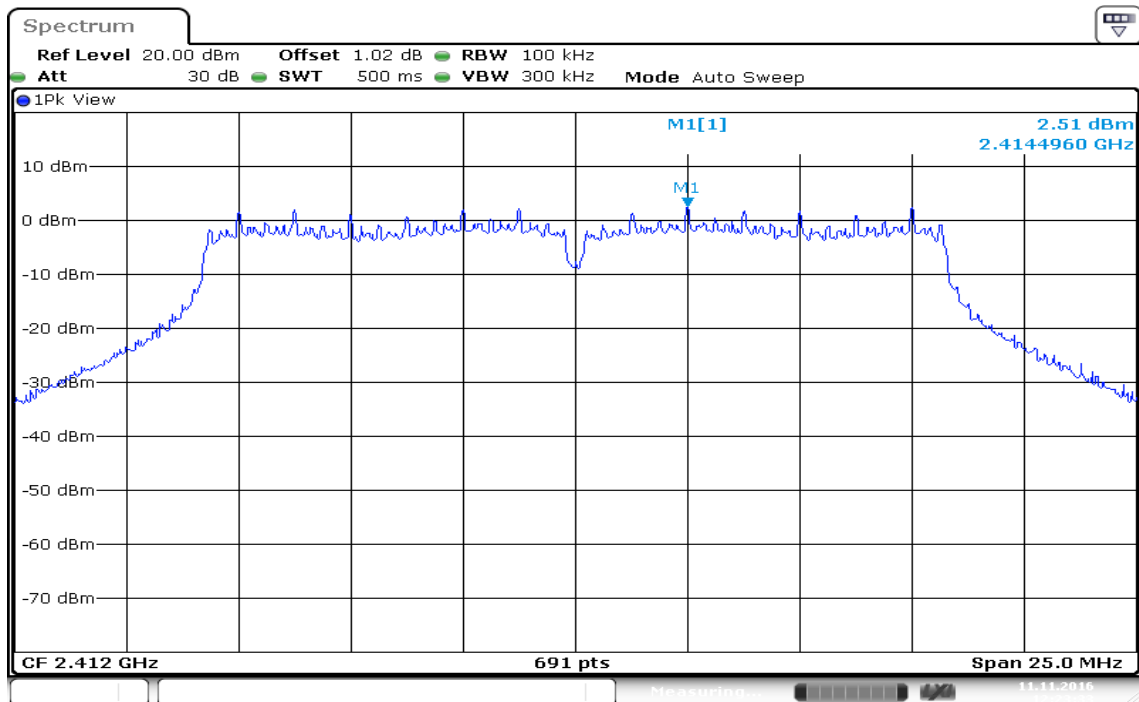
High CH_Conducted Spurious Emission



Date: 11 NOV 2016 12:30:42

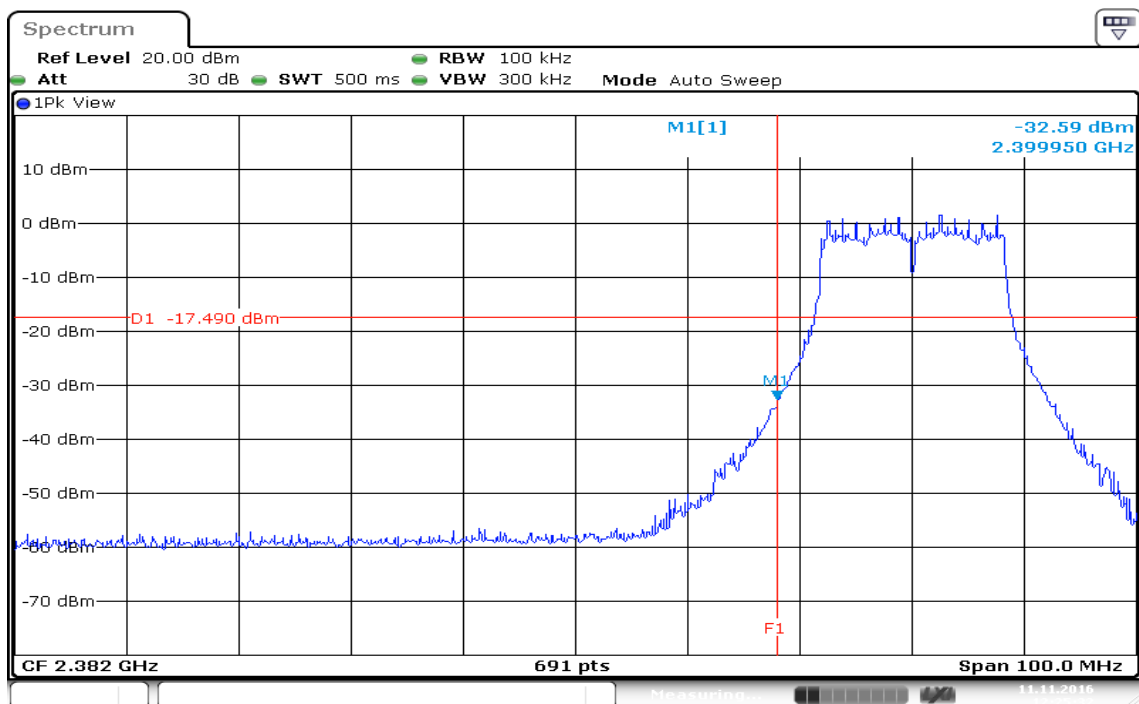
IEEE 802.11g Mode / Chain 1

Low CH_100kHz PSD Reference Level



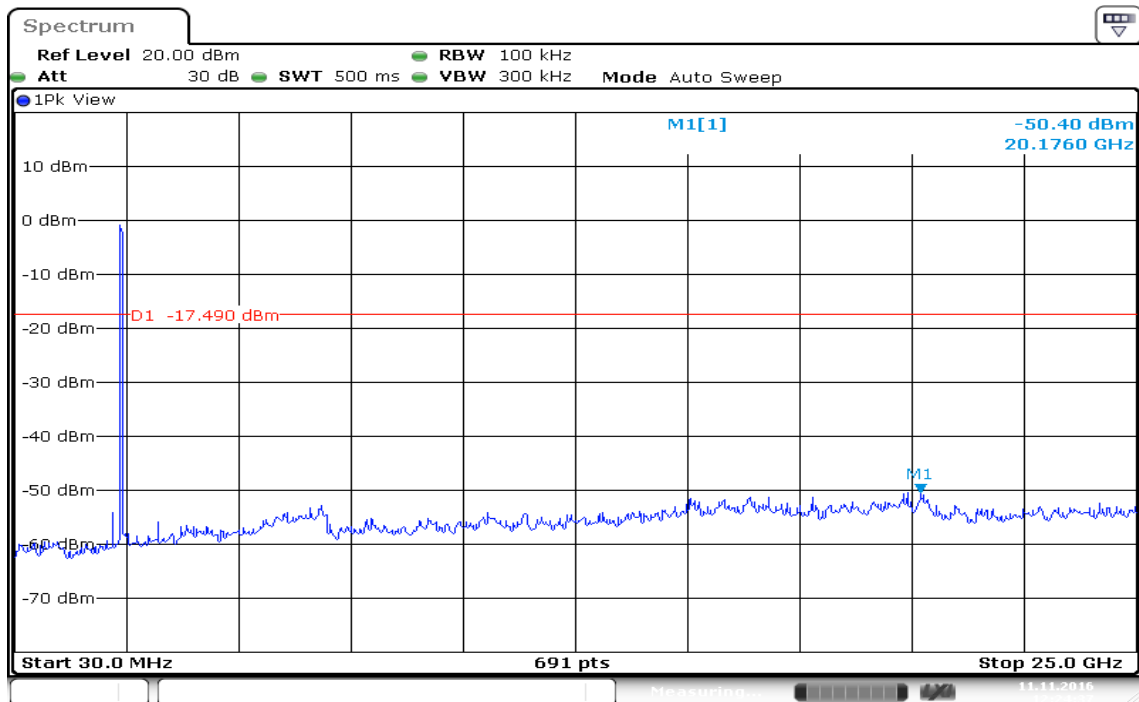
Date: 11 NOV. 2016 12:23:33

Low CH_Conducted Band Edge



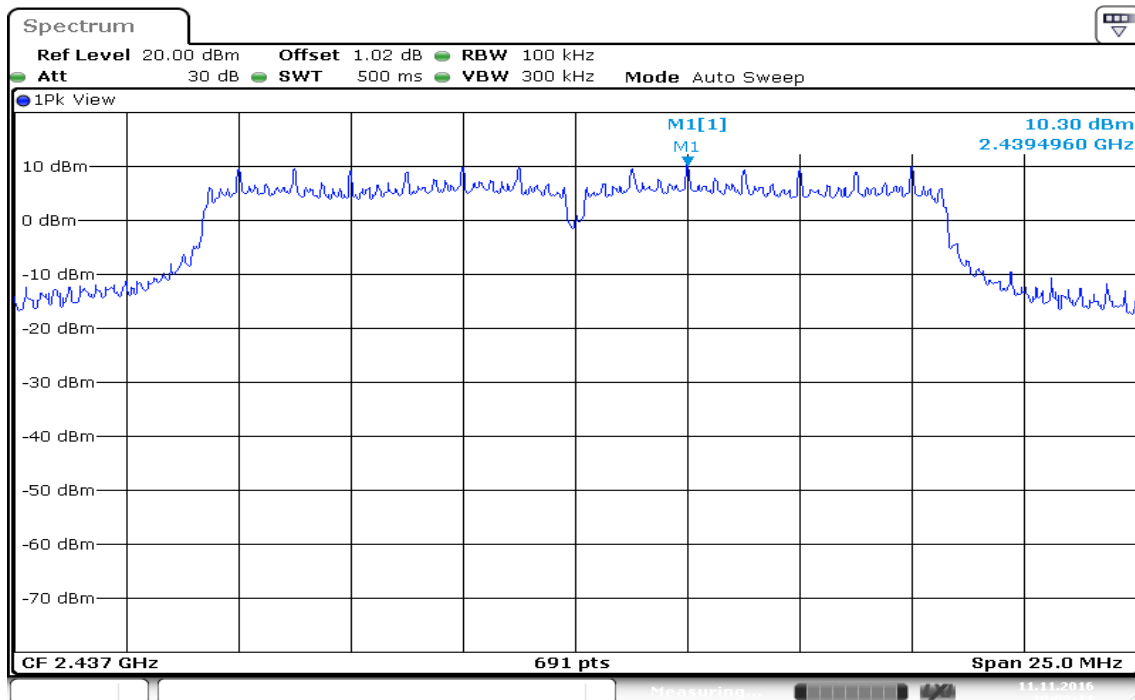
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Low CH_Conducted Spurious Emission



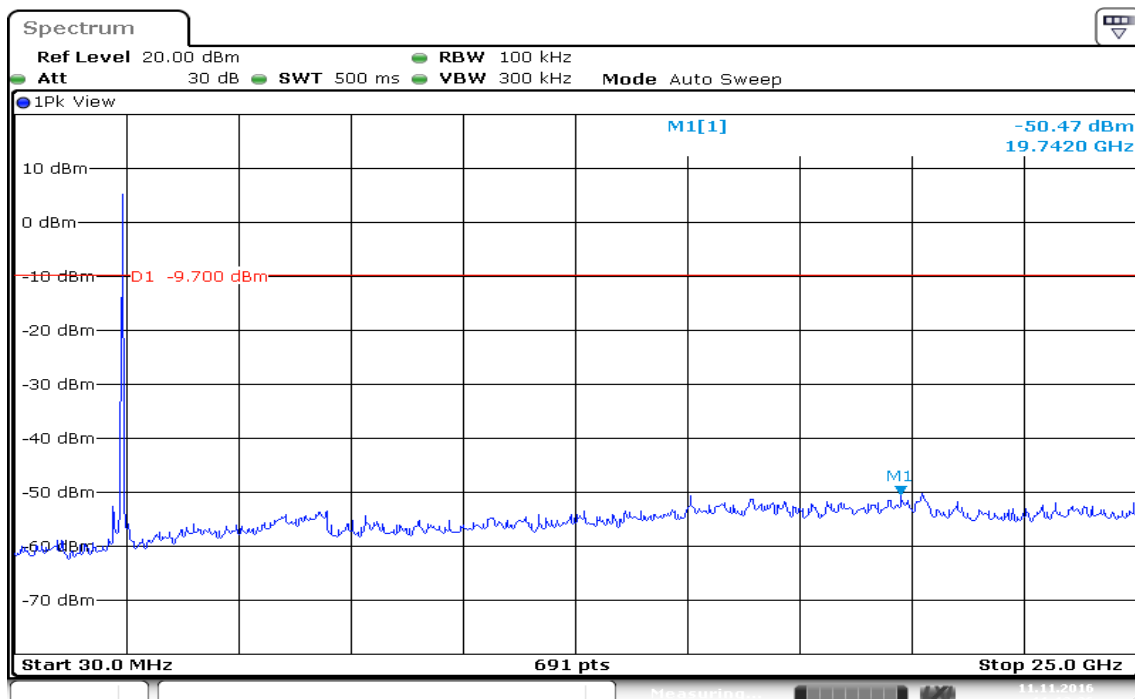
Date: 11 NOV 2016 12:24:37

Mid CH_100kHz PSD Reference Level



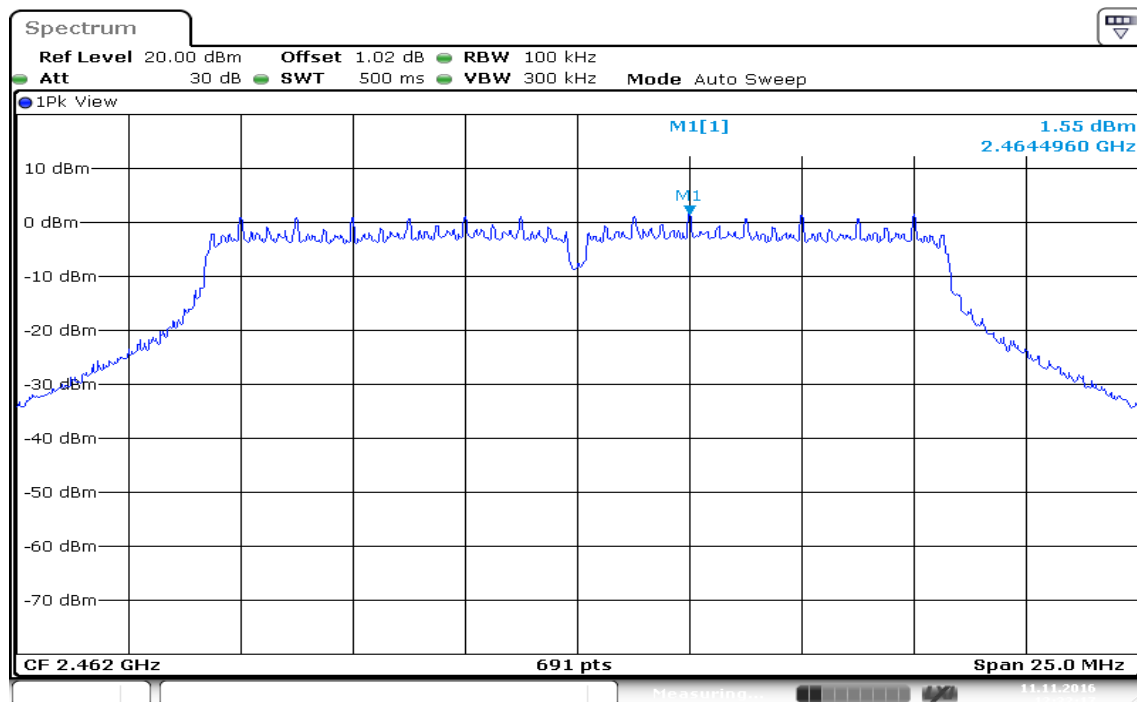
Date: 11 NOV. 2016 10:59:11

Mid CH_ Conducted Spurious Emission



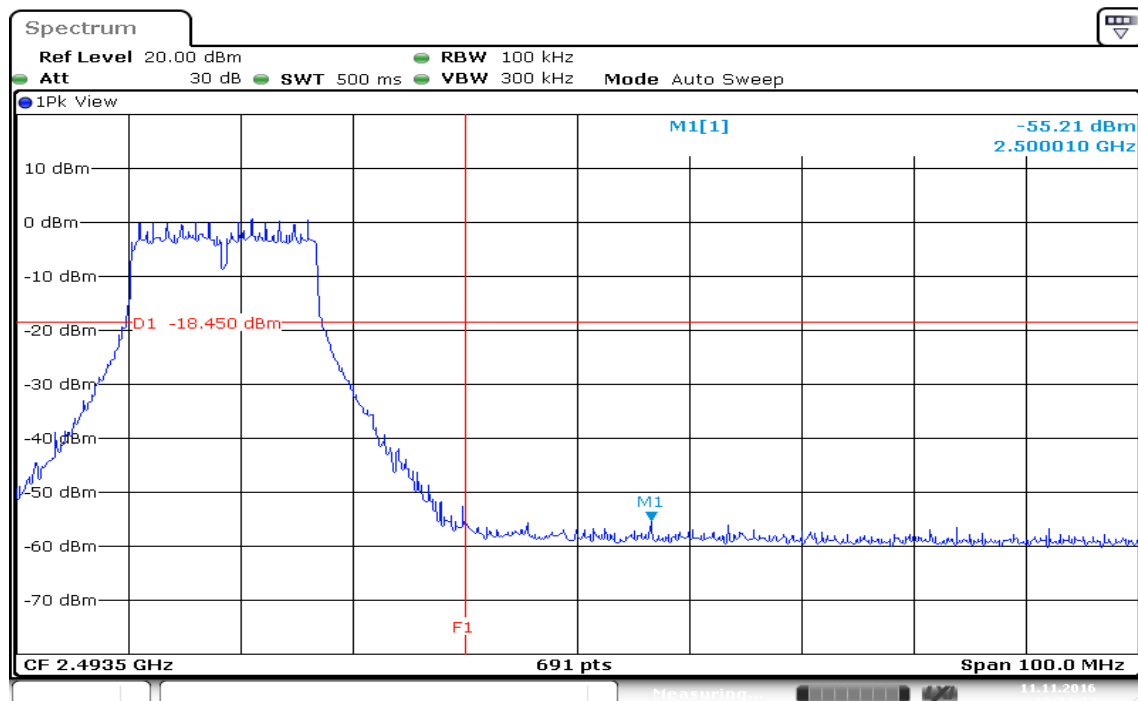
Date: 11 NOV. 2016 11:12:26

High CH_100kHz PSD Reference Level



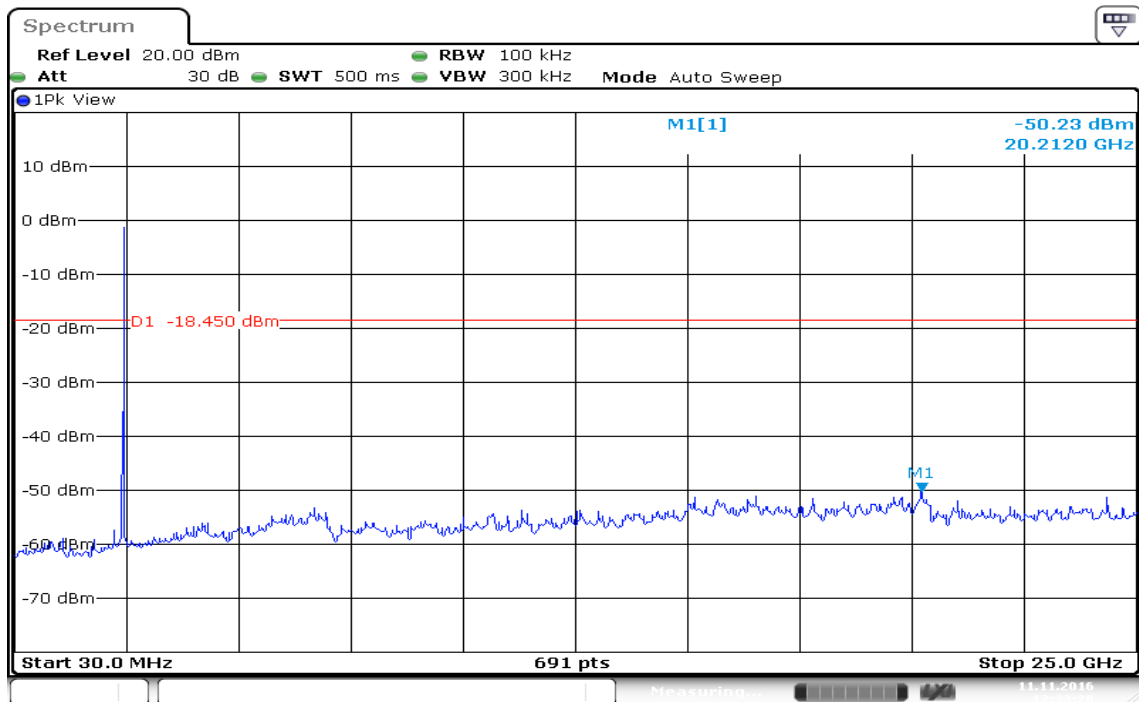
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High CH_Conducted Band Edge



Date: 11 NOV. 2016 12:34:24

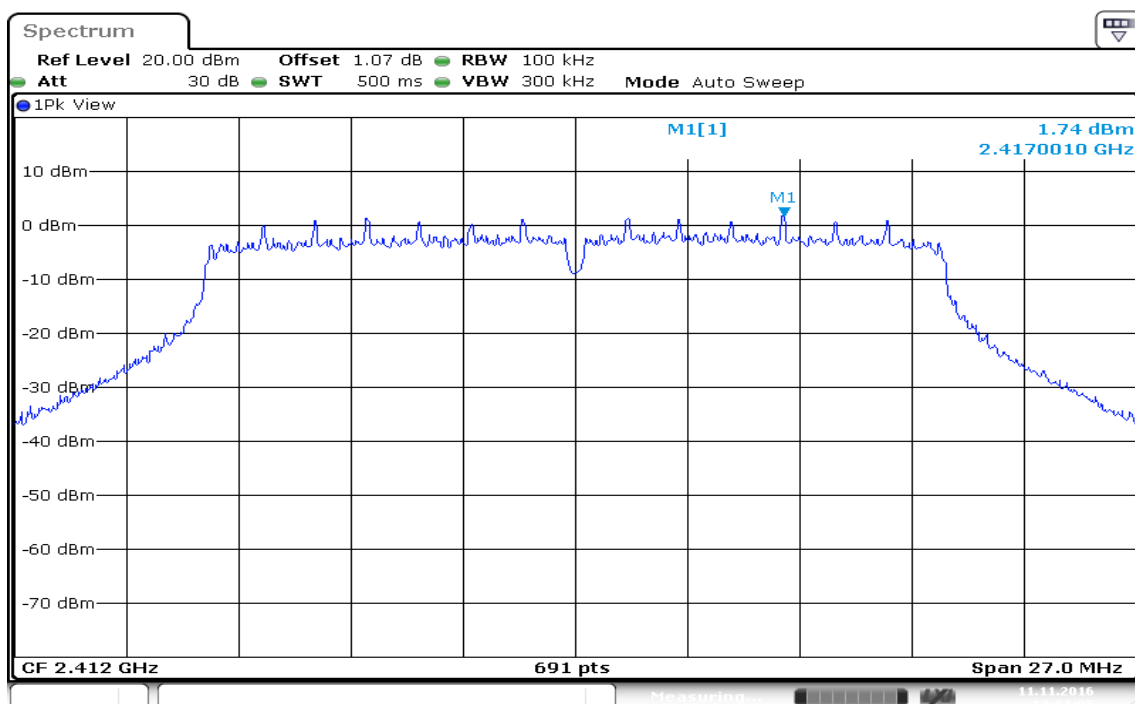
High CH_Conducted Spurious Emission



Date: 11 NOV 2016 12:33:28

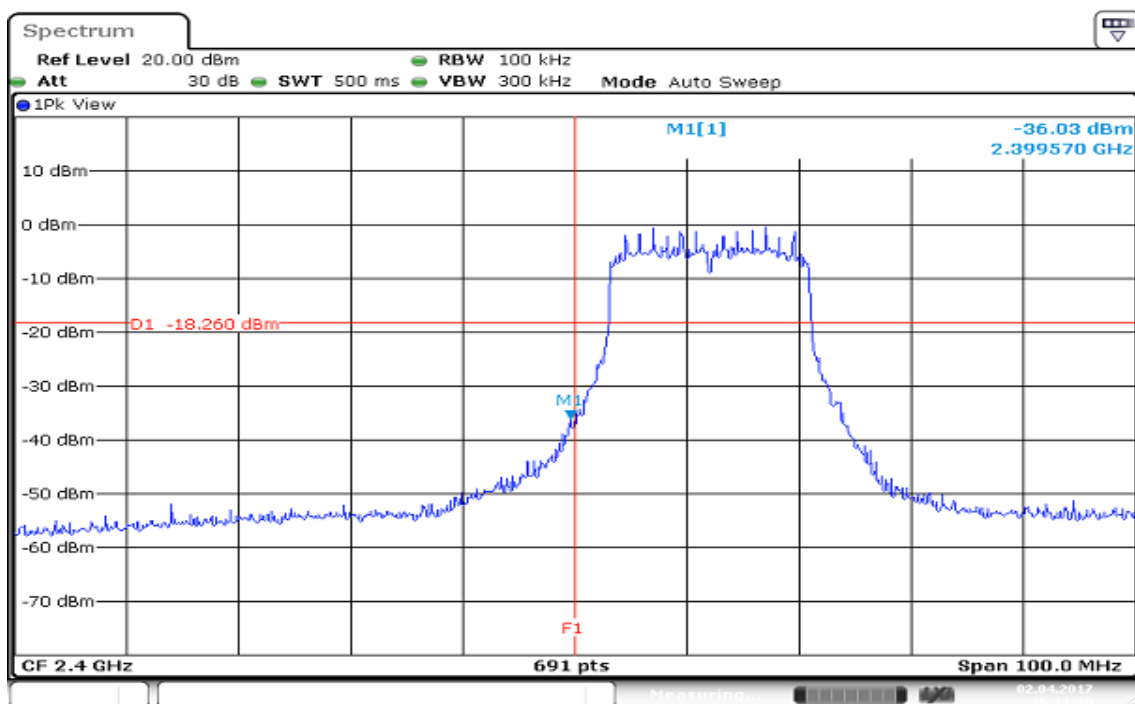
IEEE 802.11n HT 20 MHz Mode / Chain 0

Low CH_100kHz PSD Reference Level



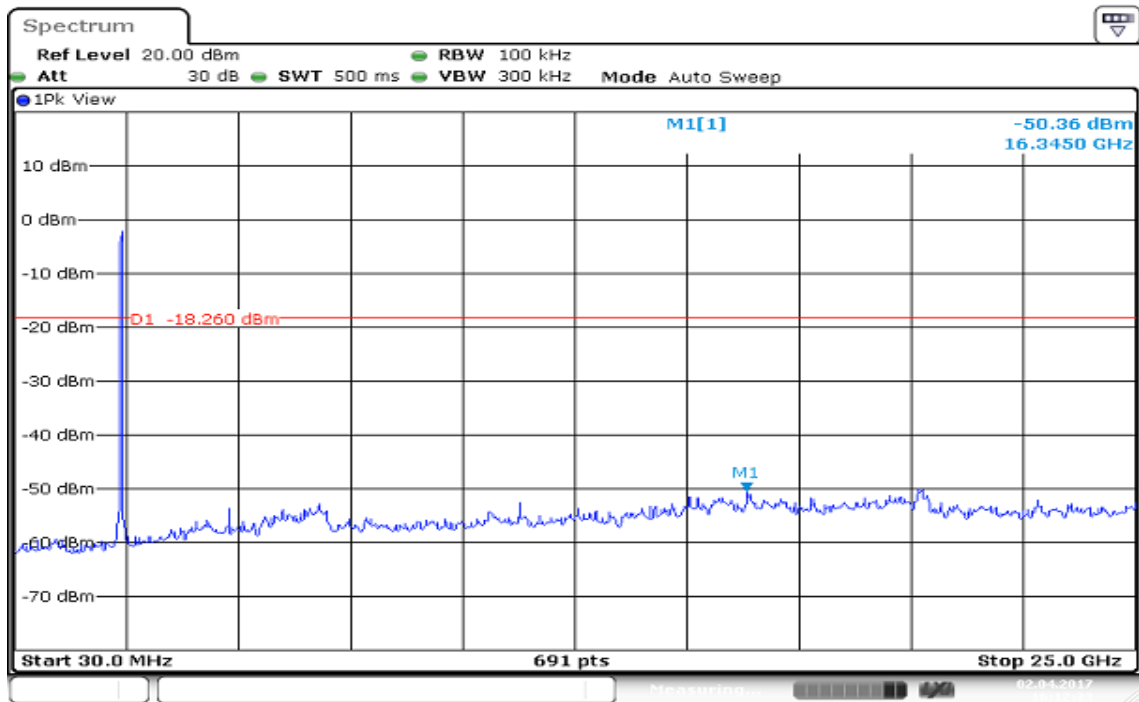
Date: 11 NOV 2016 12:01:05

Low CH_Conducted Band Edge



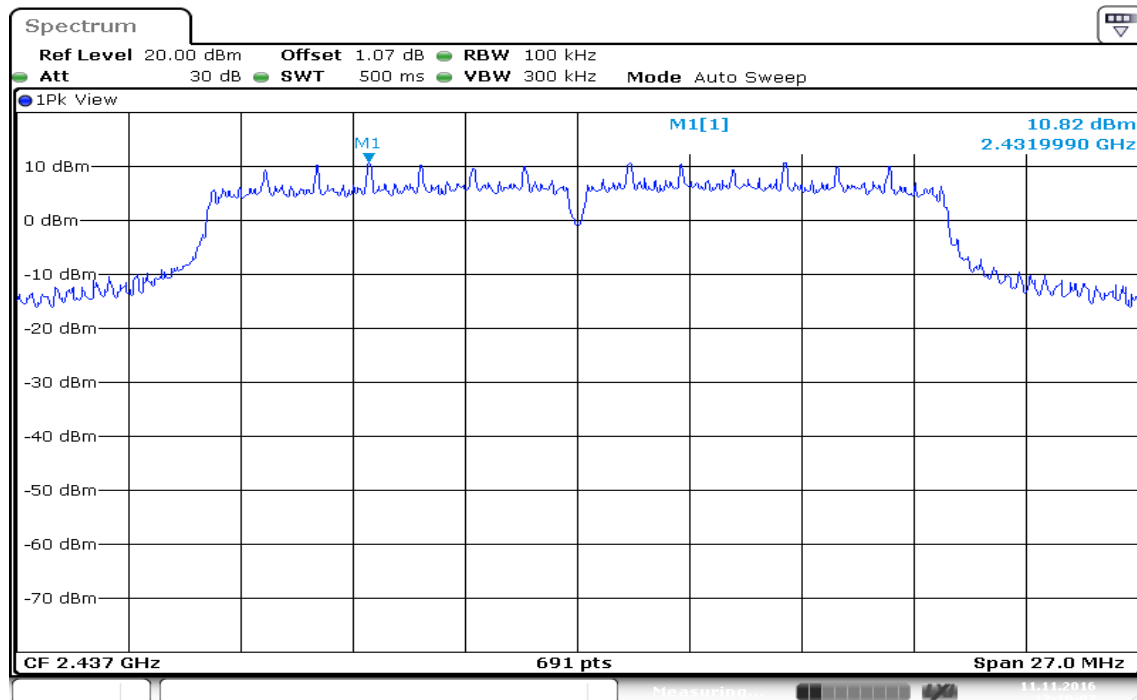
Date: 2 APR 2017 16:11:30

Low CH_Conducted Spurious Emission



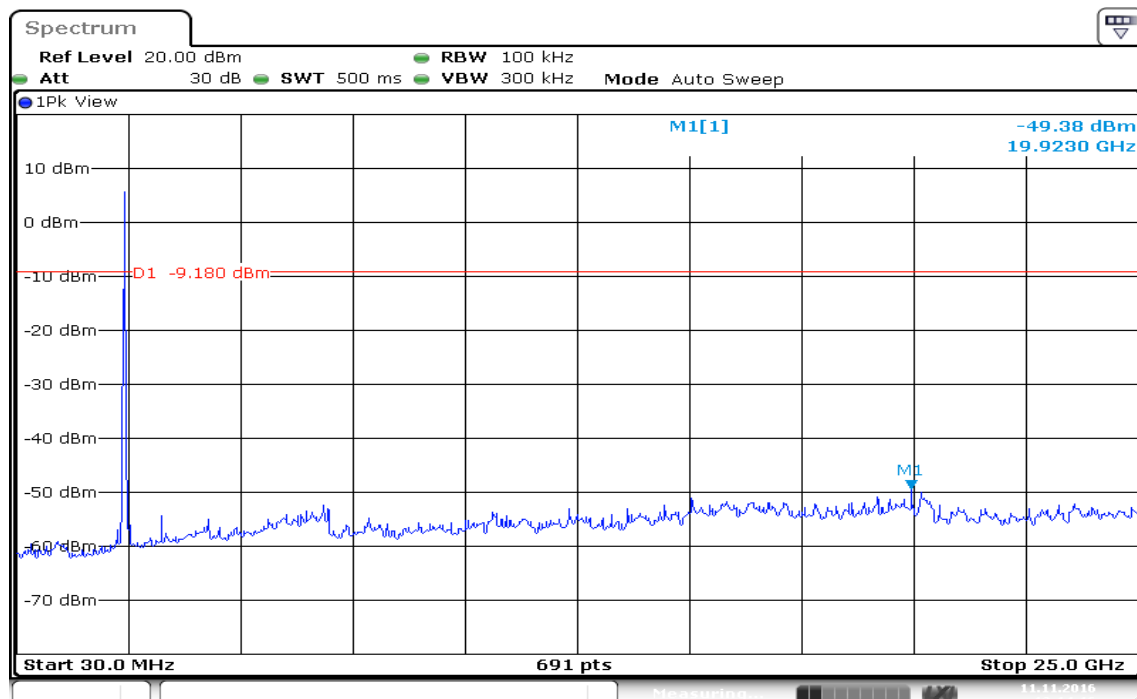
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Mid CH_100kHz PSD Reference Level



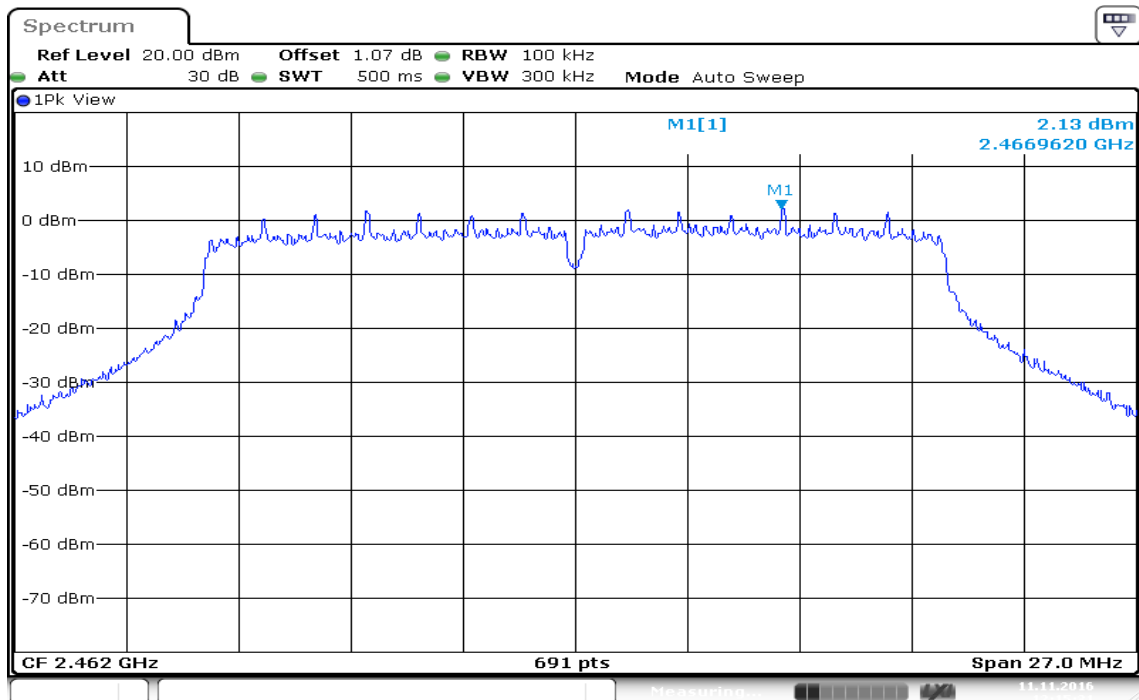
Date: 11 NOV. 2016 12:10:07

Mid CH_ Conducted Spurious Emission



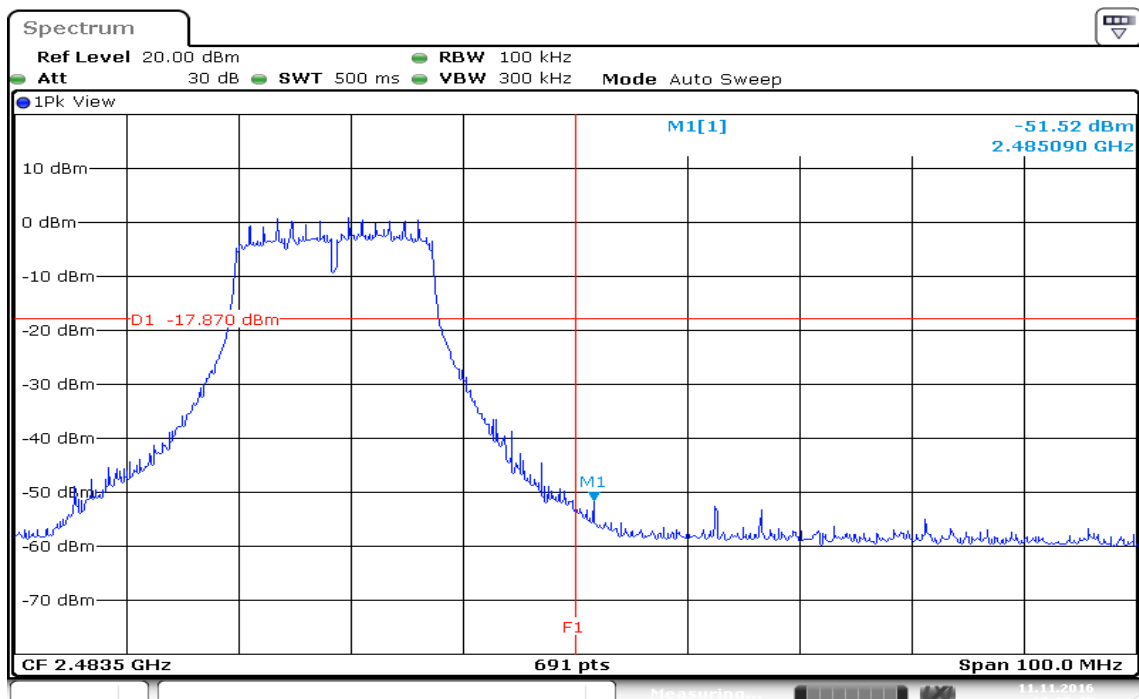
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High CH_100kHz PSD Reference Level



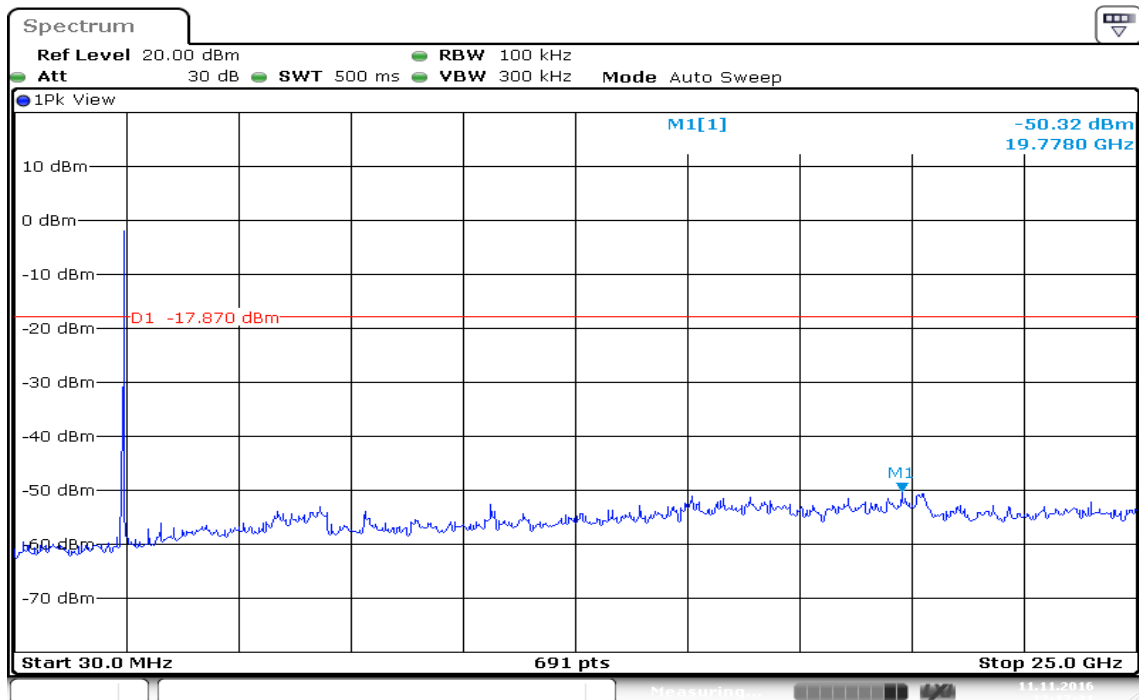
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High CH_Conducted Band Edge



Date: 11 NOV. 2016 12:18:46

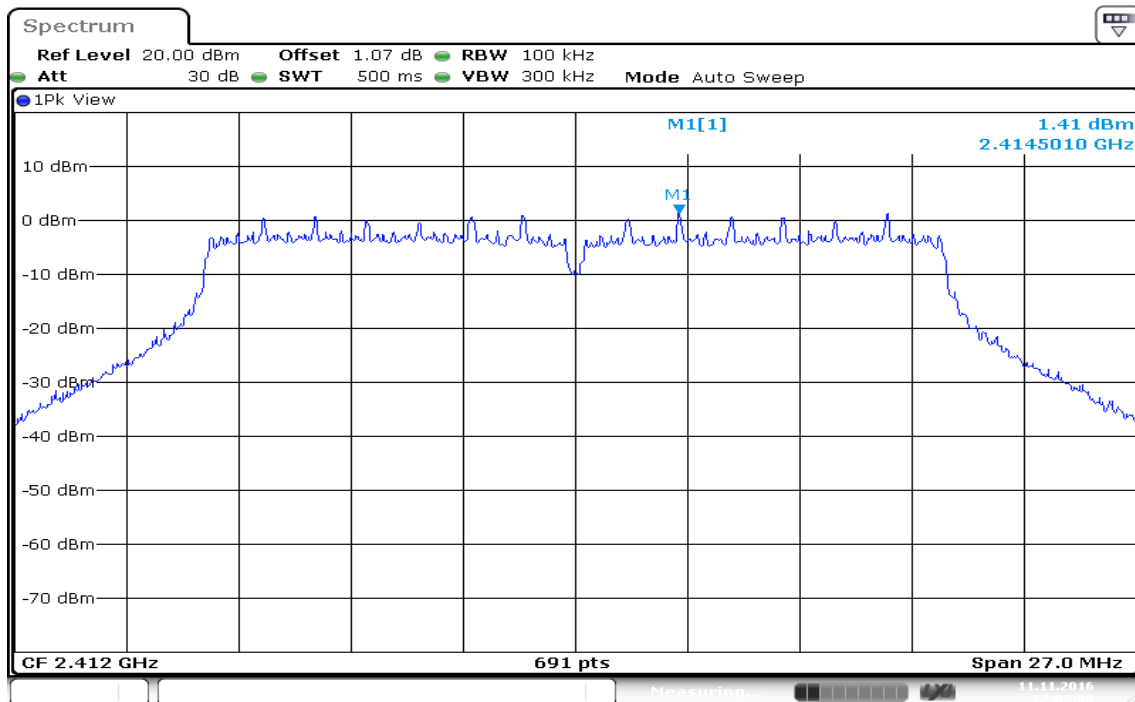
High CH_Conducted Spurious Emission



Date: 11 NOV 2016 12:17:31

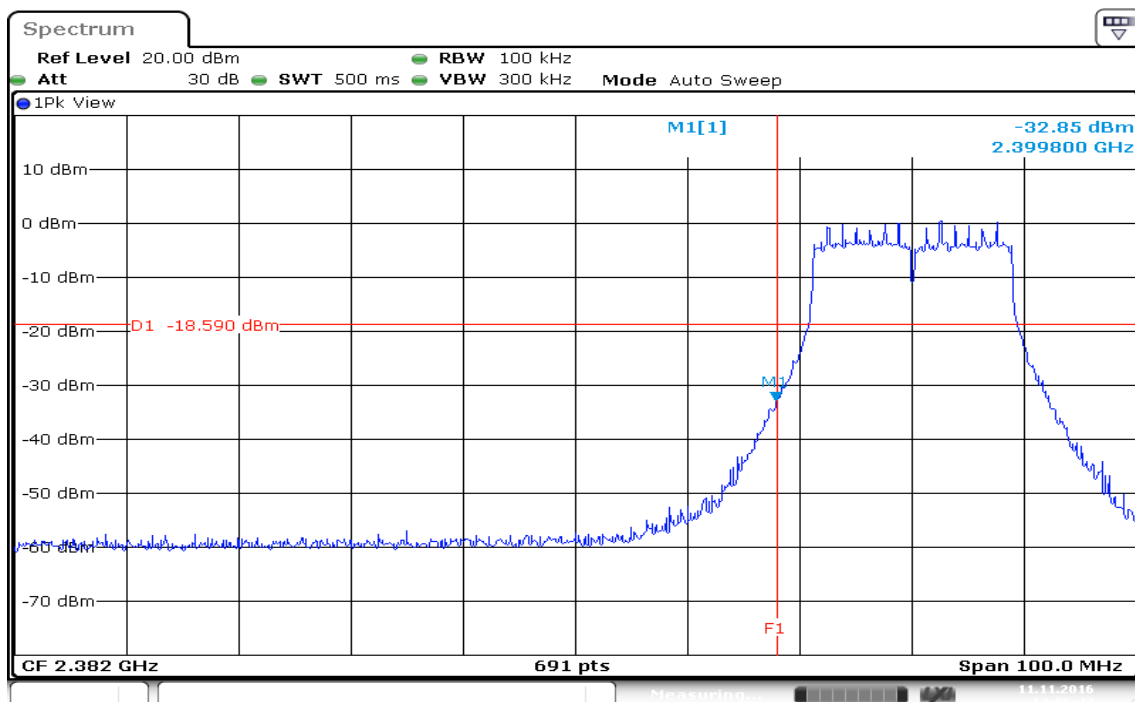
IEEE 802.11n HT 20 MHz Mode / Chain 1

Low CH_100kHz PSD Reference Level



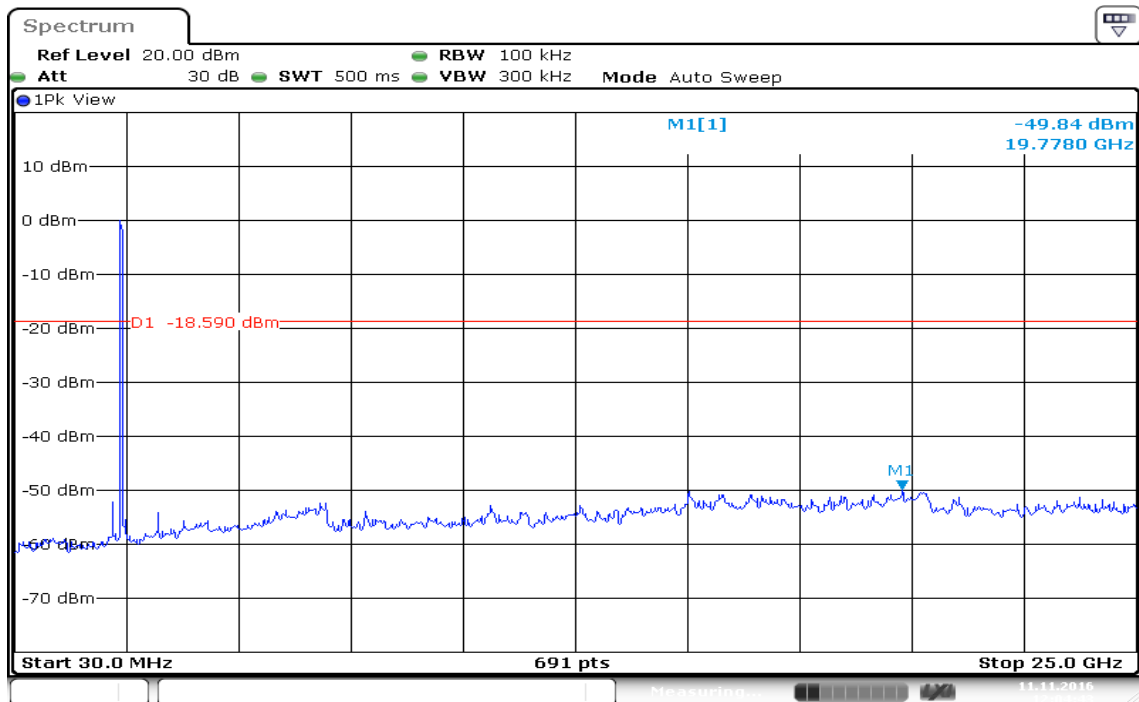
Date: 11 NOV. 2016 12:02:00

Low CH_Conducted Band Edge



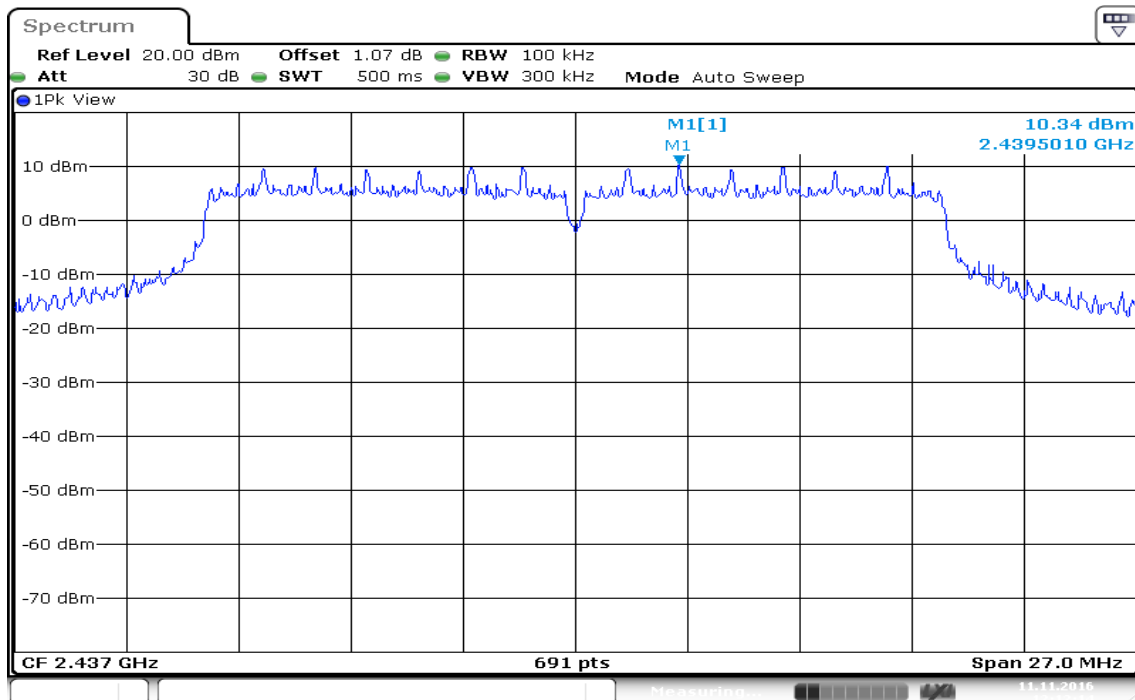
Date: 11 NOV. 2016 12:05:43

Low CH_Conducted Spurious Emission



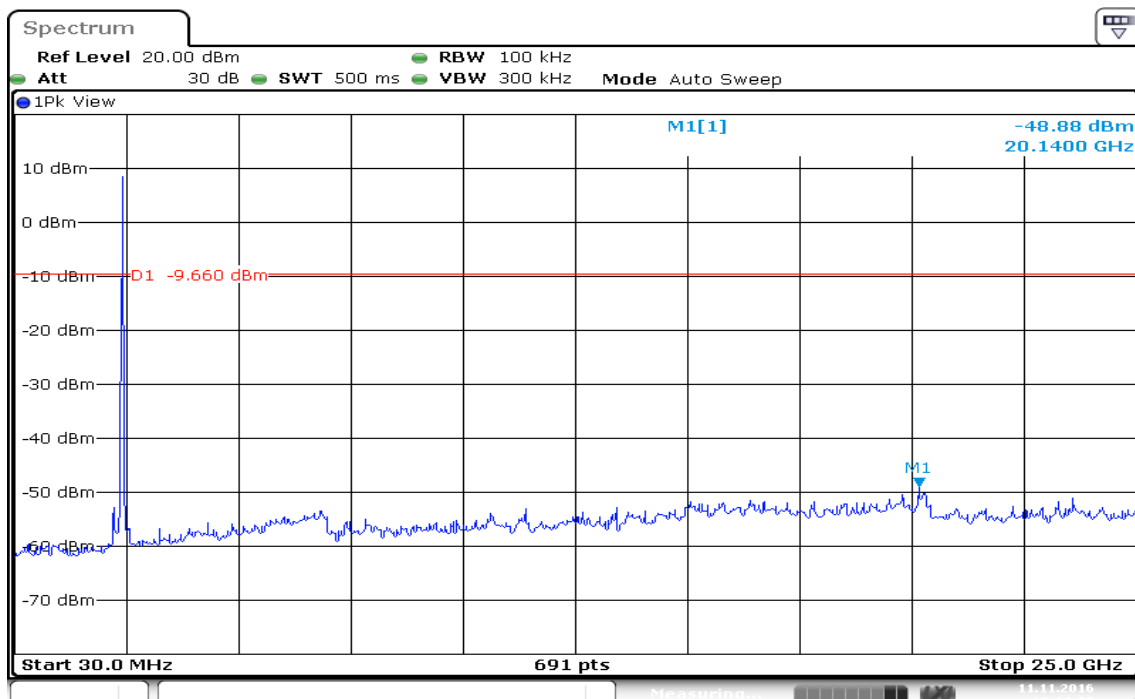
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Mid CH_100kHz PSD Reference Level



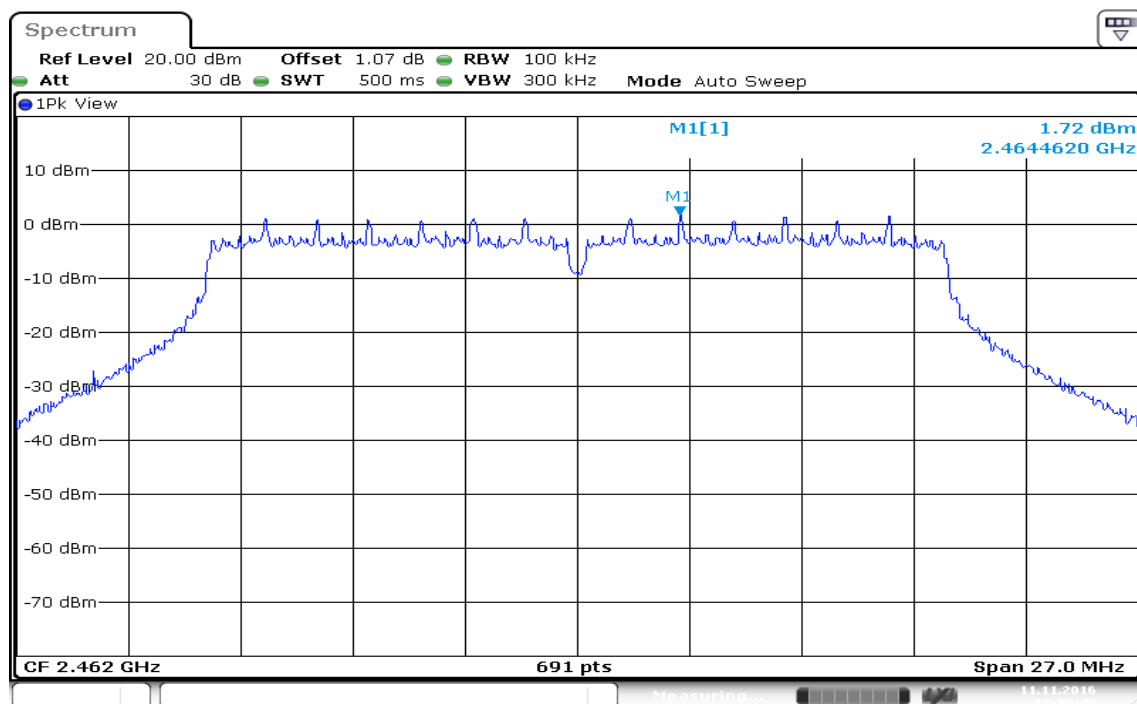
Date: 11 NOV. 2016 12:12:15

Mid CH_ Conducted Spurious Emission



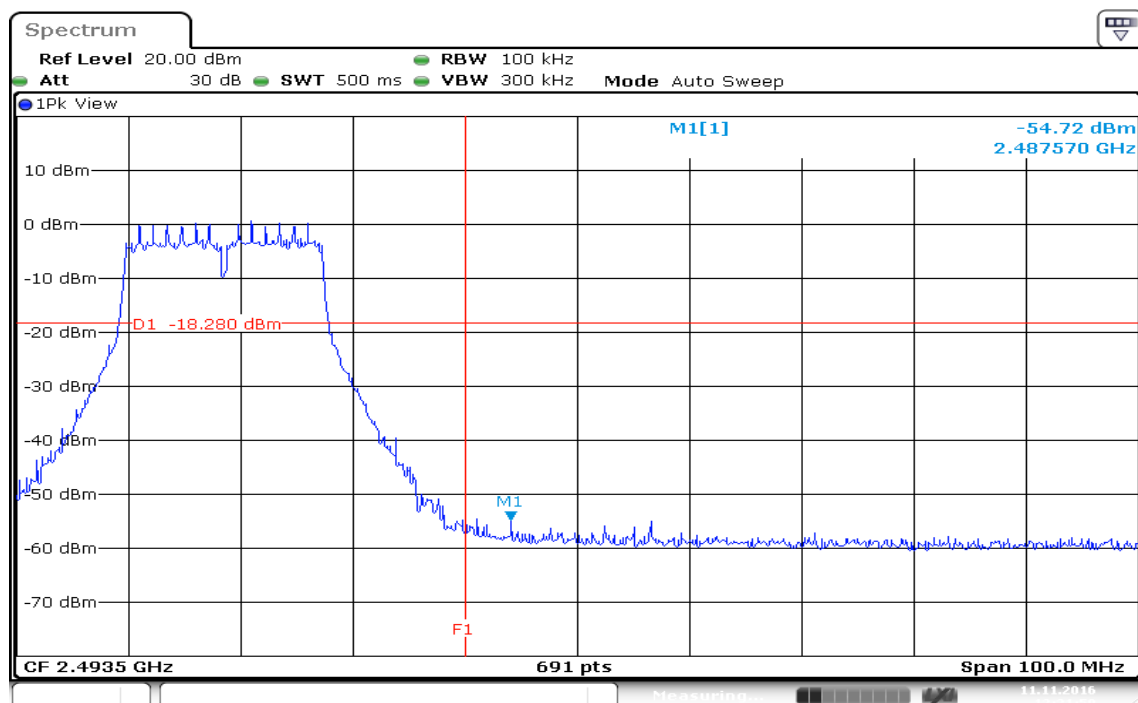
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High CH_100kHz PSD Reference Level



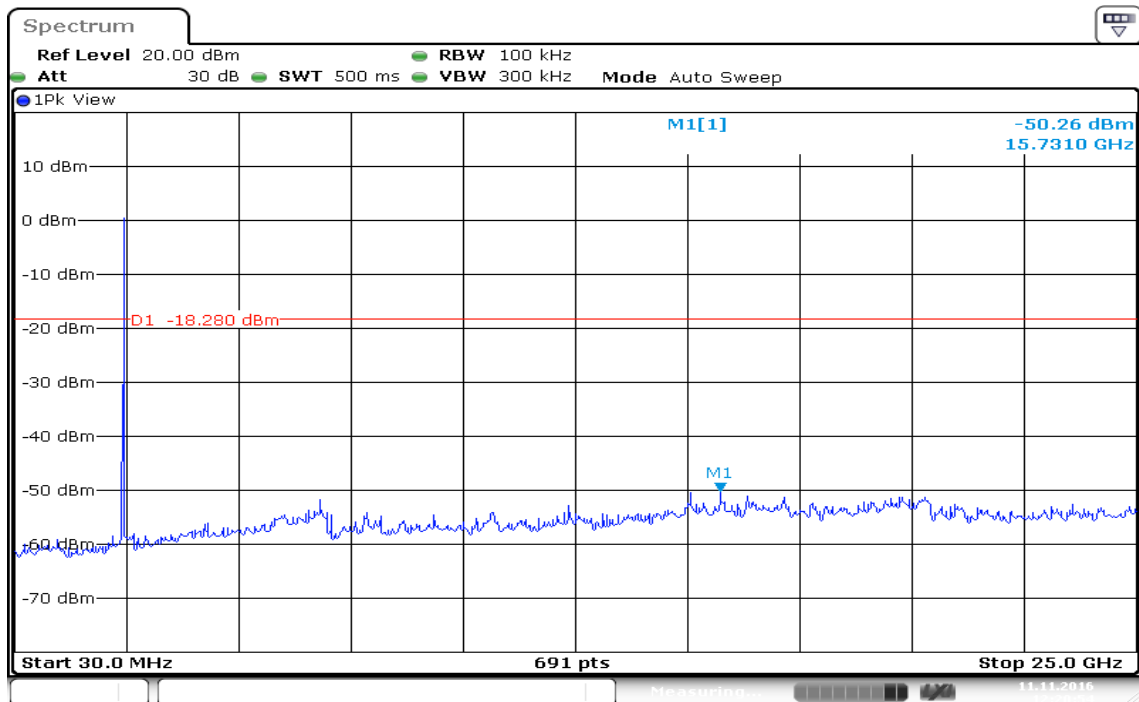
Date: 11 NOV. 2016 12:19:49

High CH_Conducted Band Edge



Date: 11 NOV. 2016 12:21:51

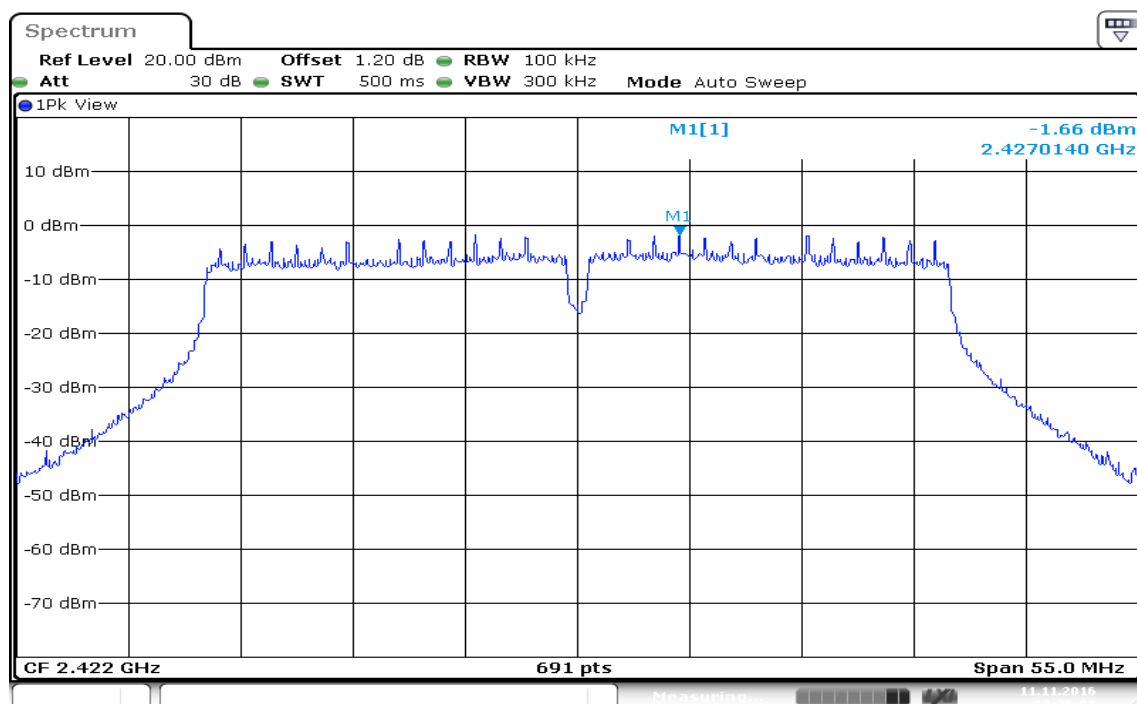
High CH_Conducted Spurious Emission



Date: 11 NOV 2016 12:20:54

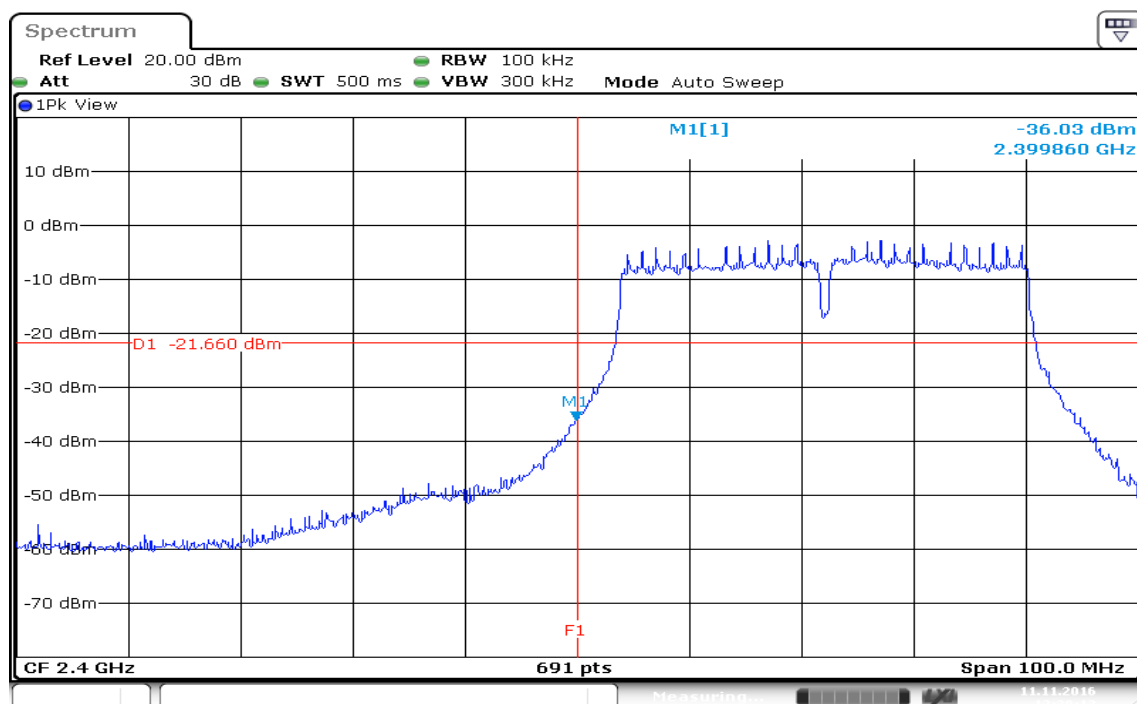
IEEE 802.11n HT 40 MHz Mode / Chain 0

Low CH_100kHz PSD Reference Level



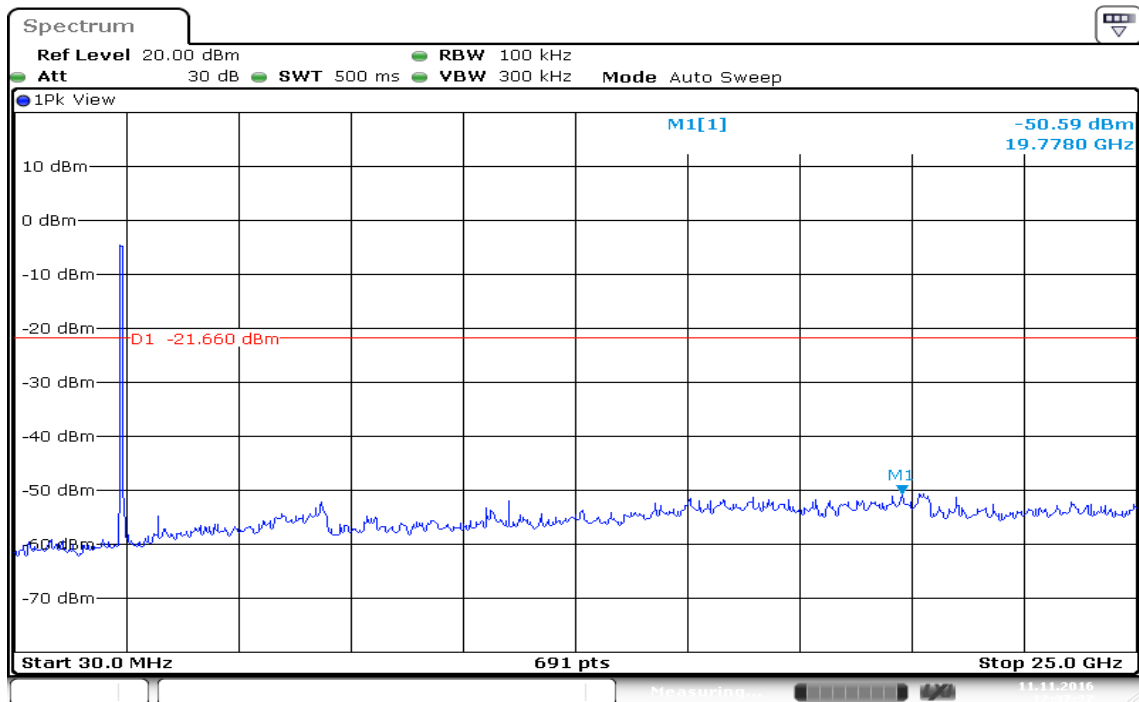
Date: 11 NOV. 2016 12:36:02

Low CH_Conducted Band Edge



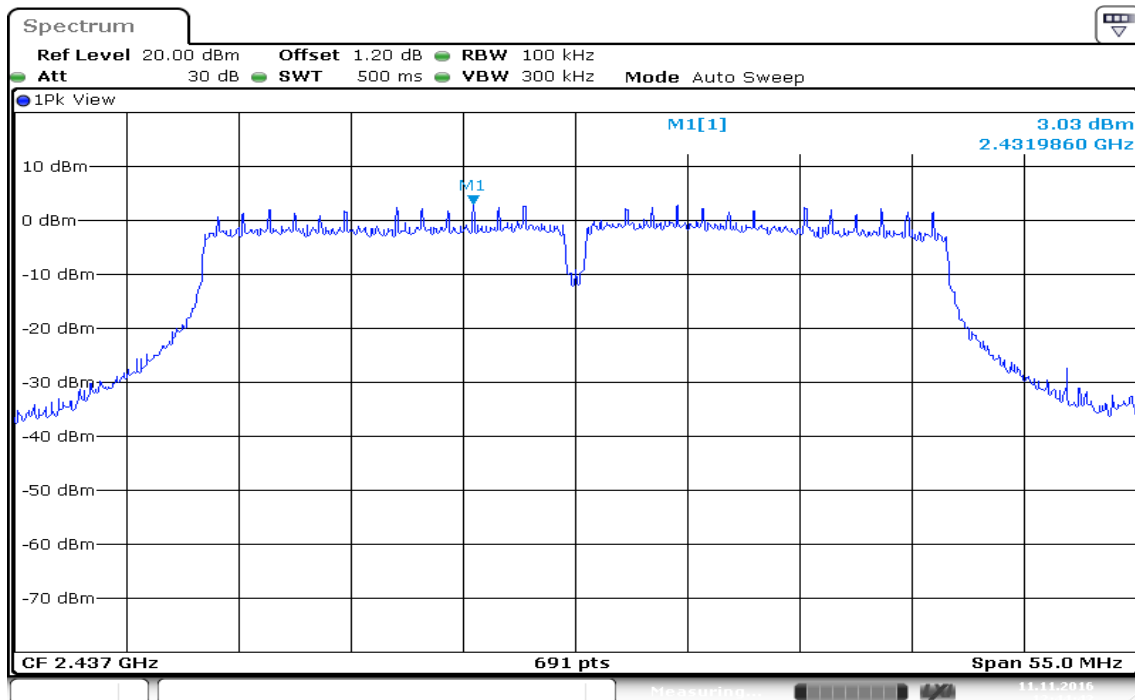
Date: 11 NOV. 2016 12:38:14

Low CH_Conducted Spurious Emission



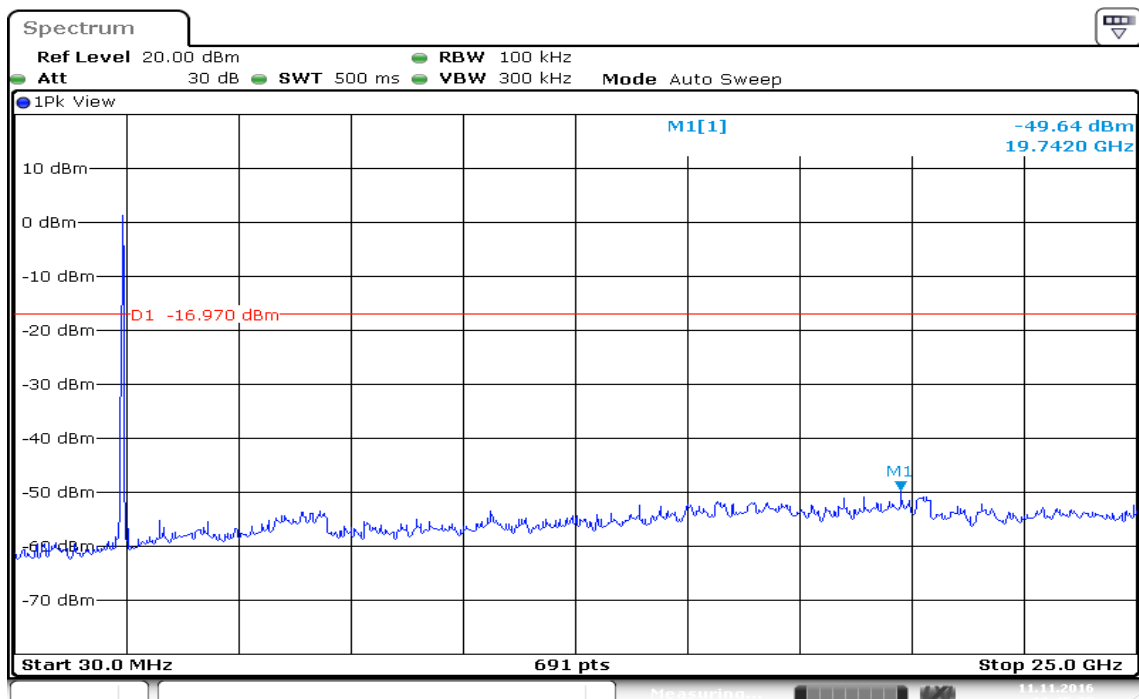
Date: 11 NOV 2016 12:37:27

Mid CH_100kHz PSD Reference Level



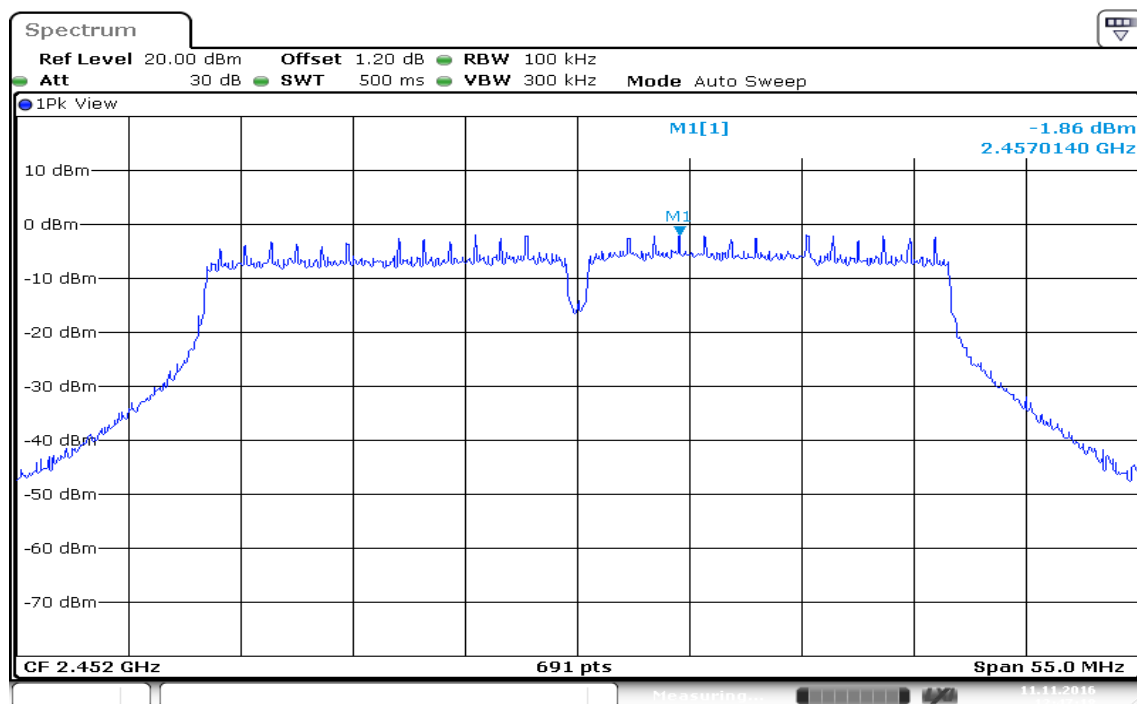
Date: 11 NOV. 2016 12:44:43

Mid CH_ Conducted Spurious Emission



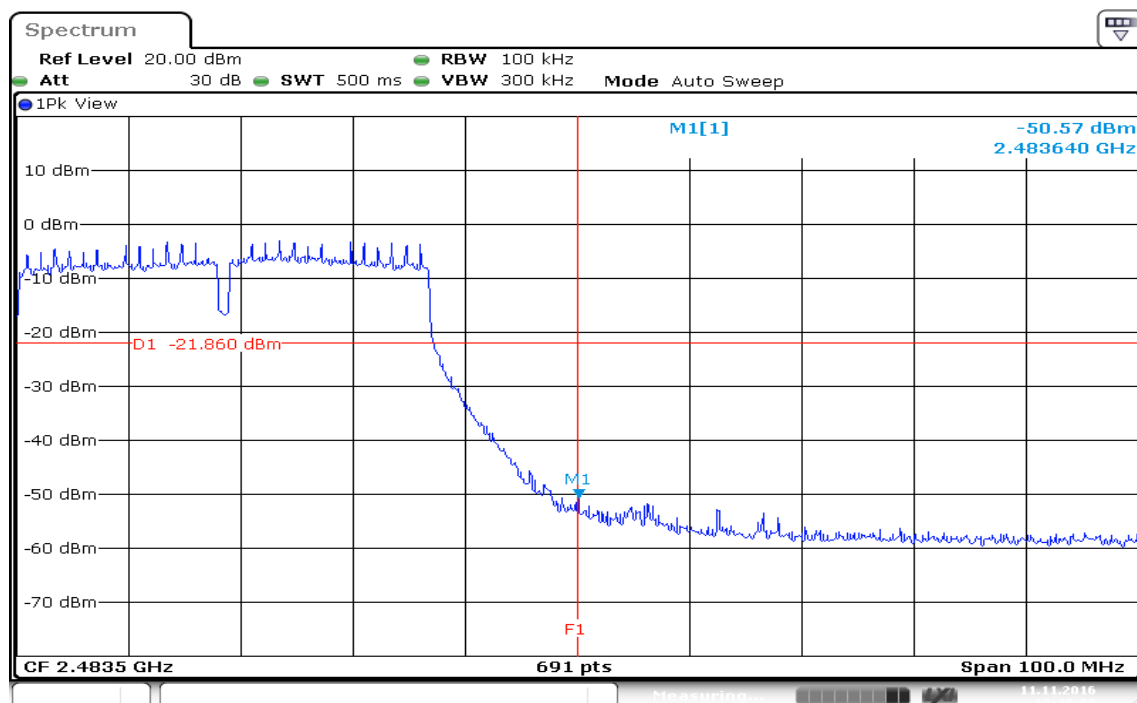
Date: 11 NOV. 2016 12:45:35

High CH_100kHz PSD Reference Level



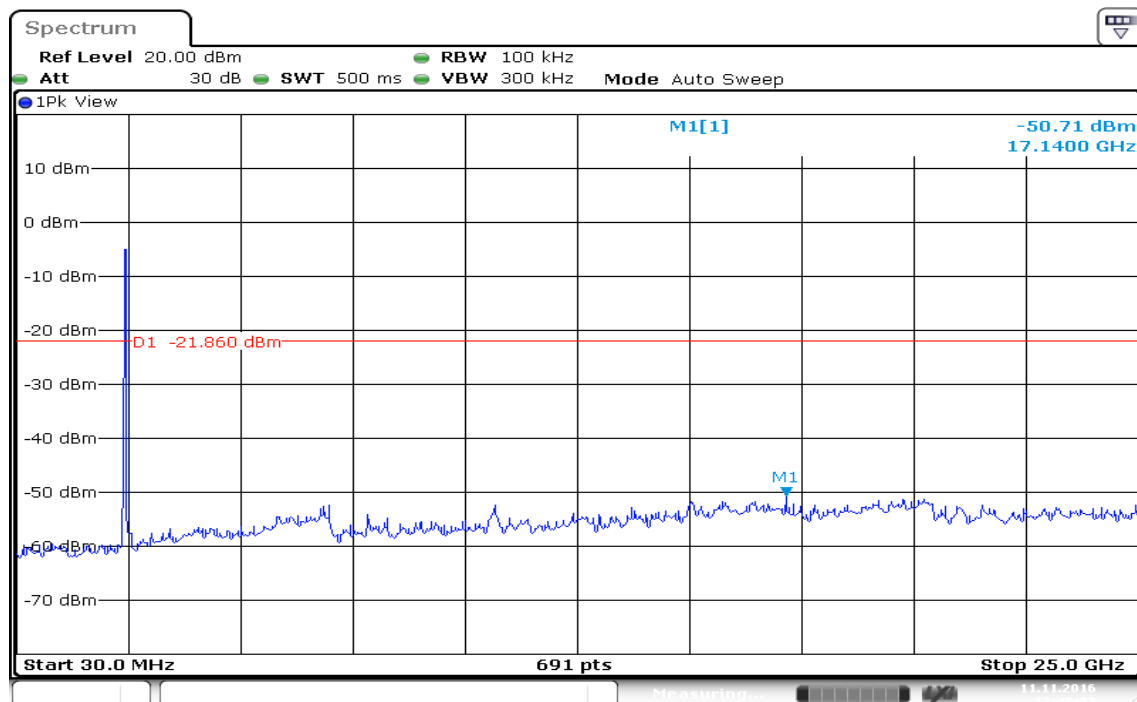
Date: 11 NOV.2016 12:47:18

High CH_Conducted Band Edge



Date: 11 NOV.2016 12:49:09

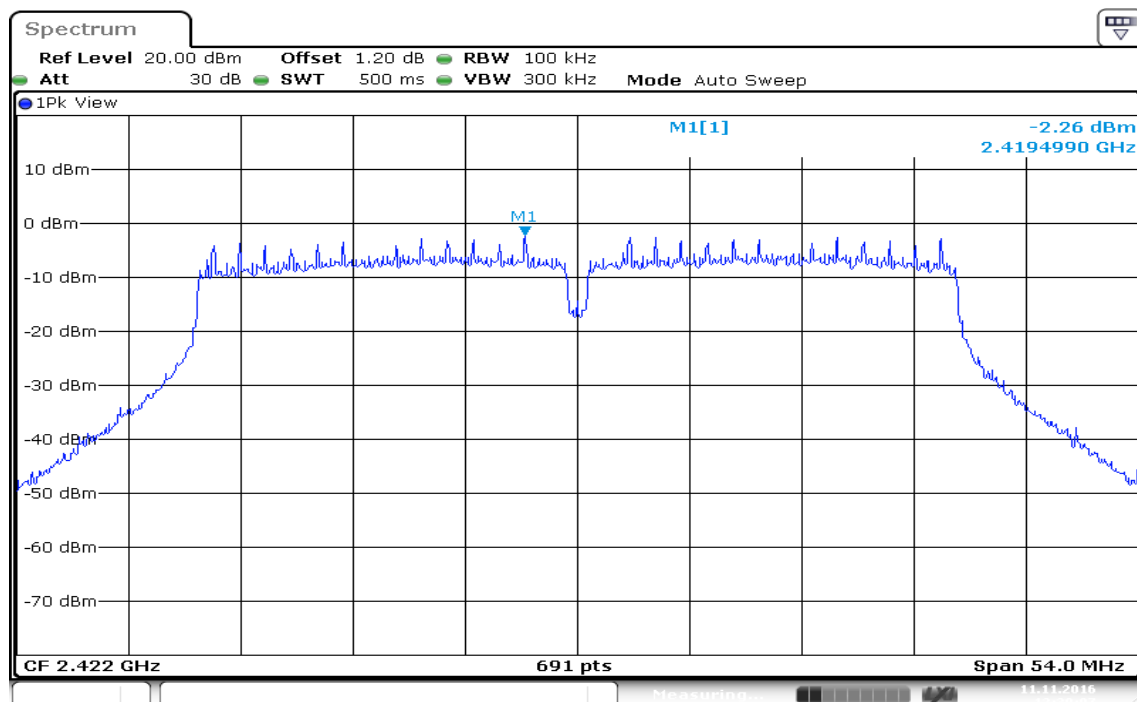
High CH_Conducted Spurious Emission



Date: 11 NOV 2016 12:48:03

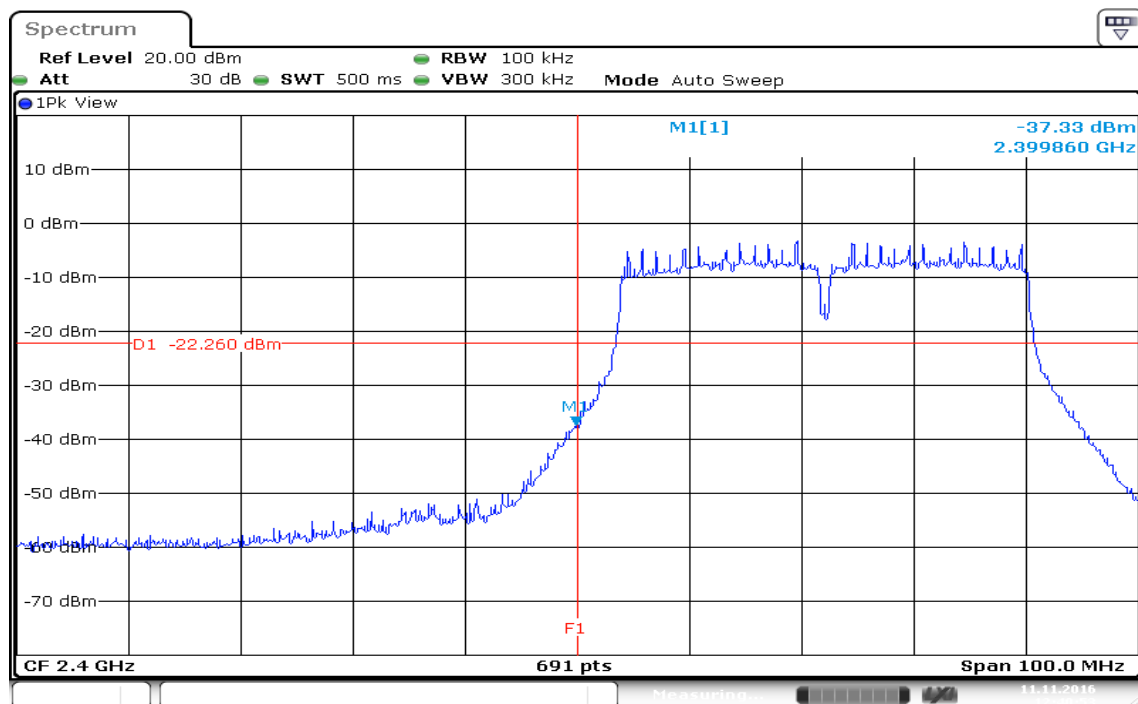
IEEE 802.11n HT 40 MHz Mode / Chain 1

Low CH_100kHz PSD Reference Level



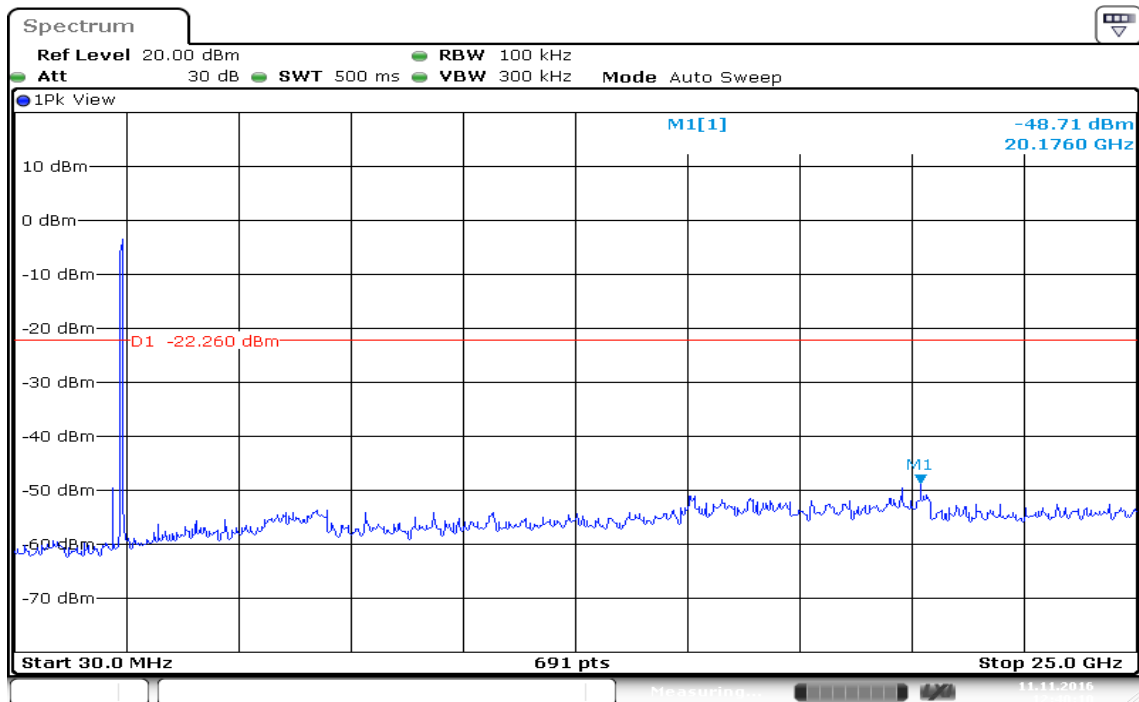
Date: 11 NOV. 2016 12:39:07

Low CH_Conducted Band Edge



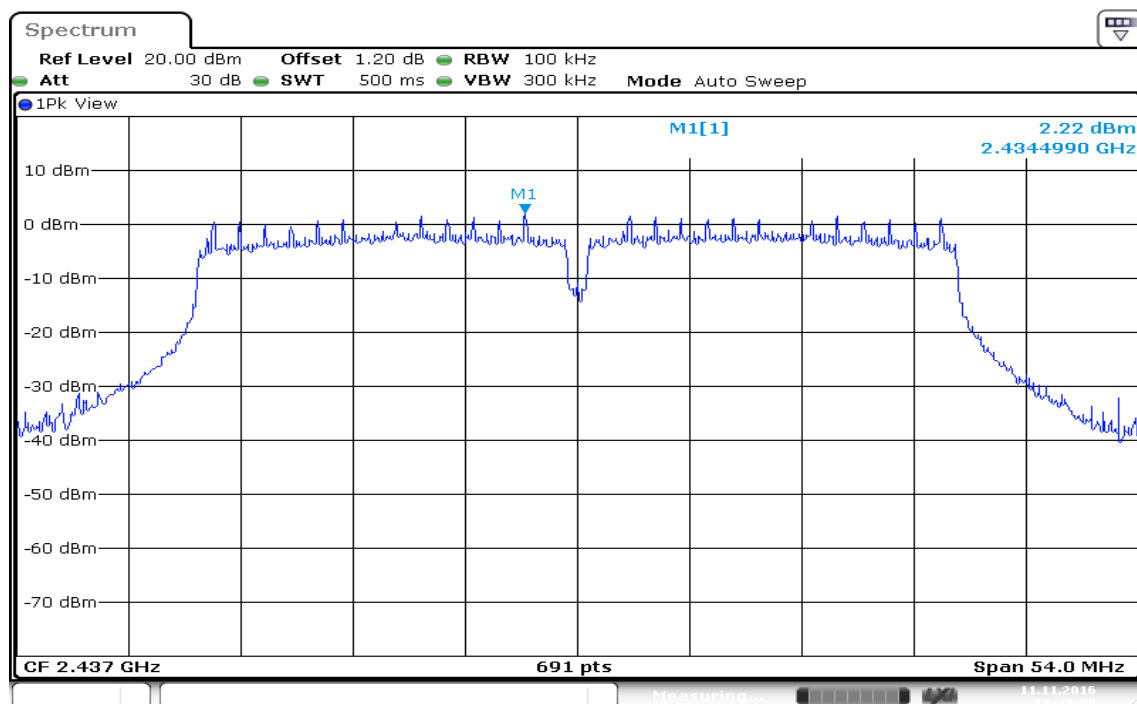
Date: 11 NOV. 2016 12:40:53

Low CH_Conducted Spurious Emission



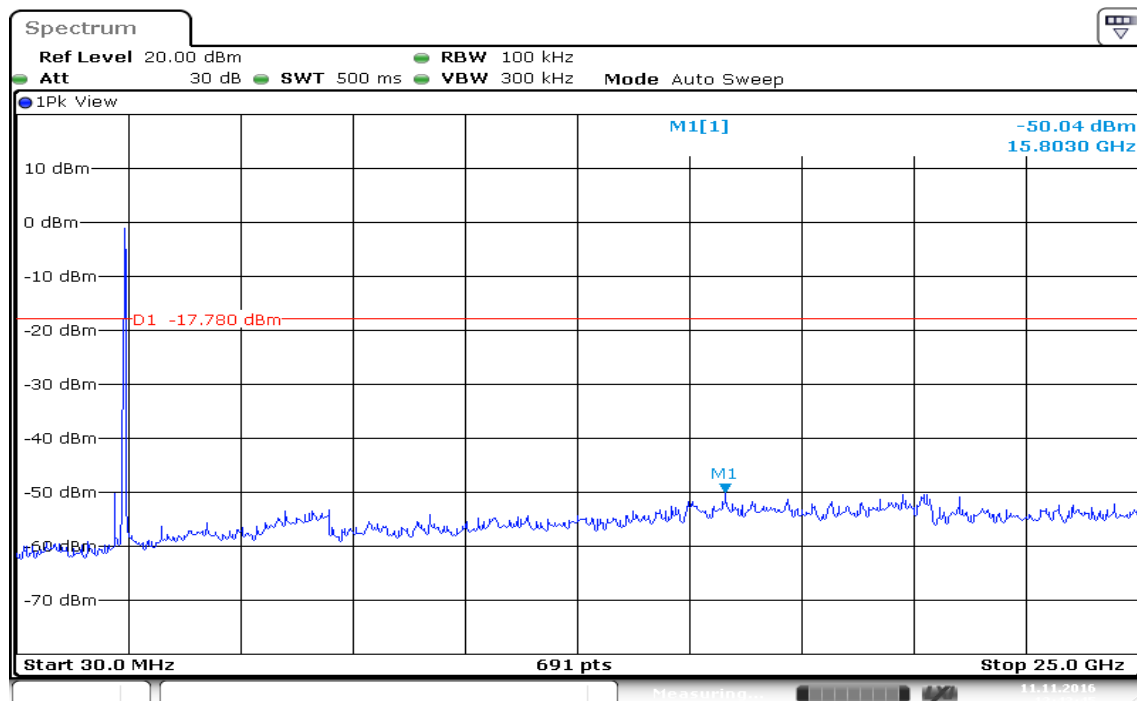
Date: 11 NOV 2016 12:40:10

Mid CH_100kHz PSD Reference Level



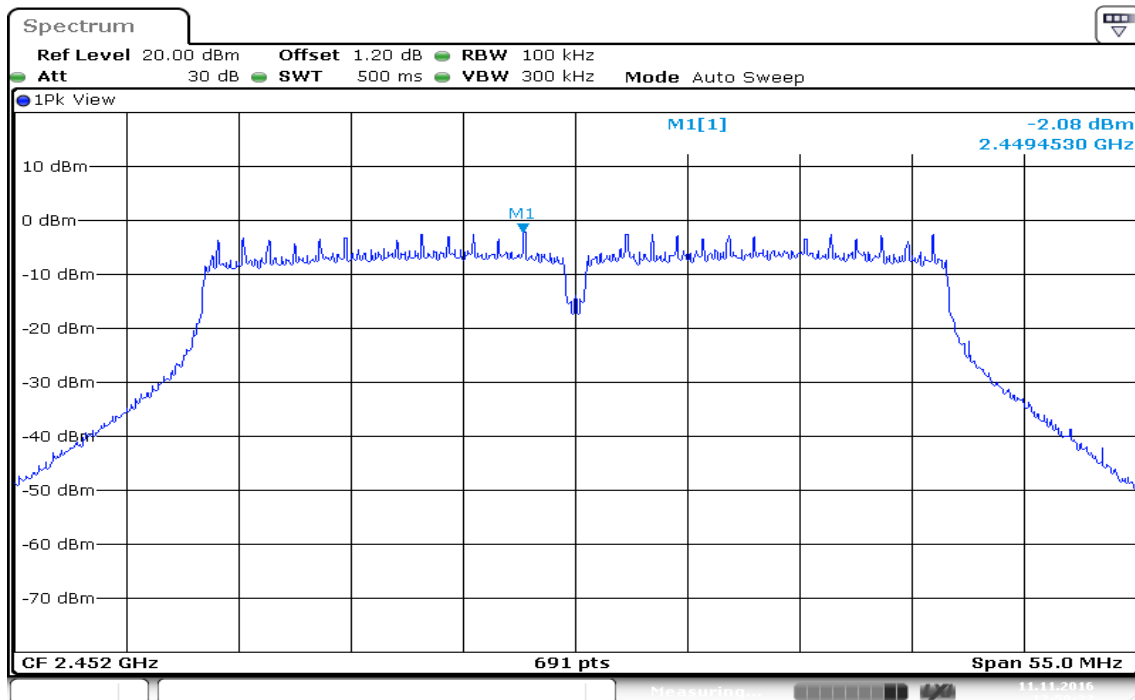
Date: 11 NOV.2016 12:42:39

Mid CH_ Conducted Spurious Emission



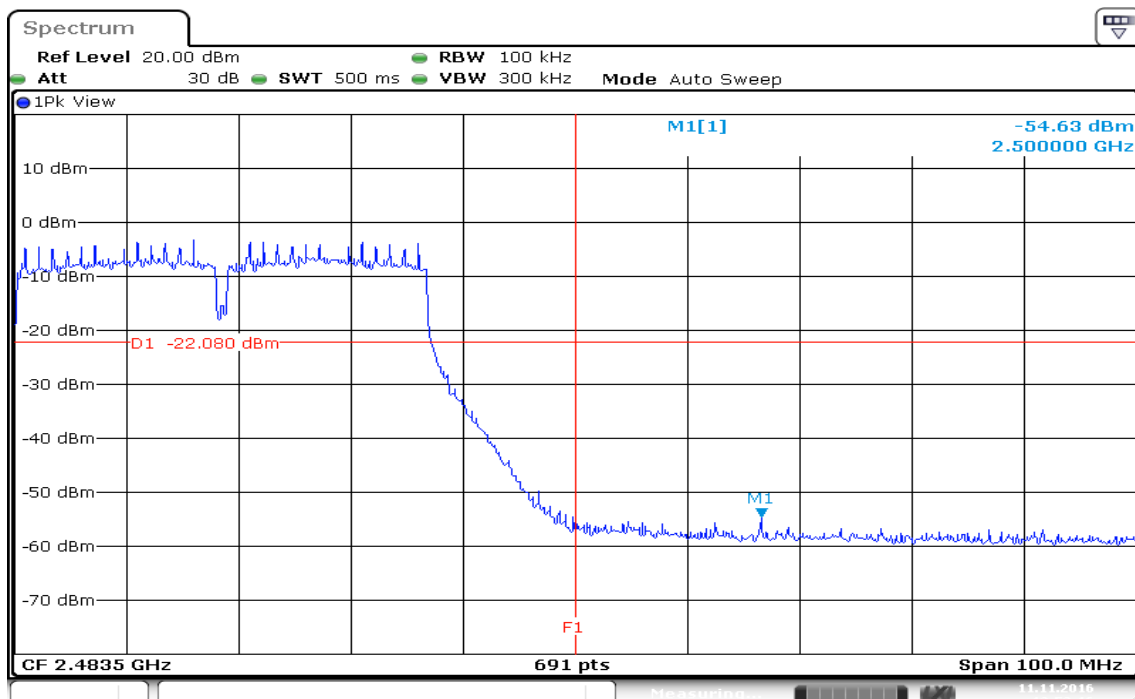
Date: 11 NOV.2016 12:43:45

High CH_100kHz PSD Reference Level



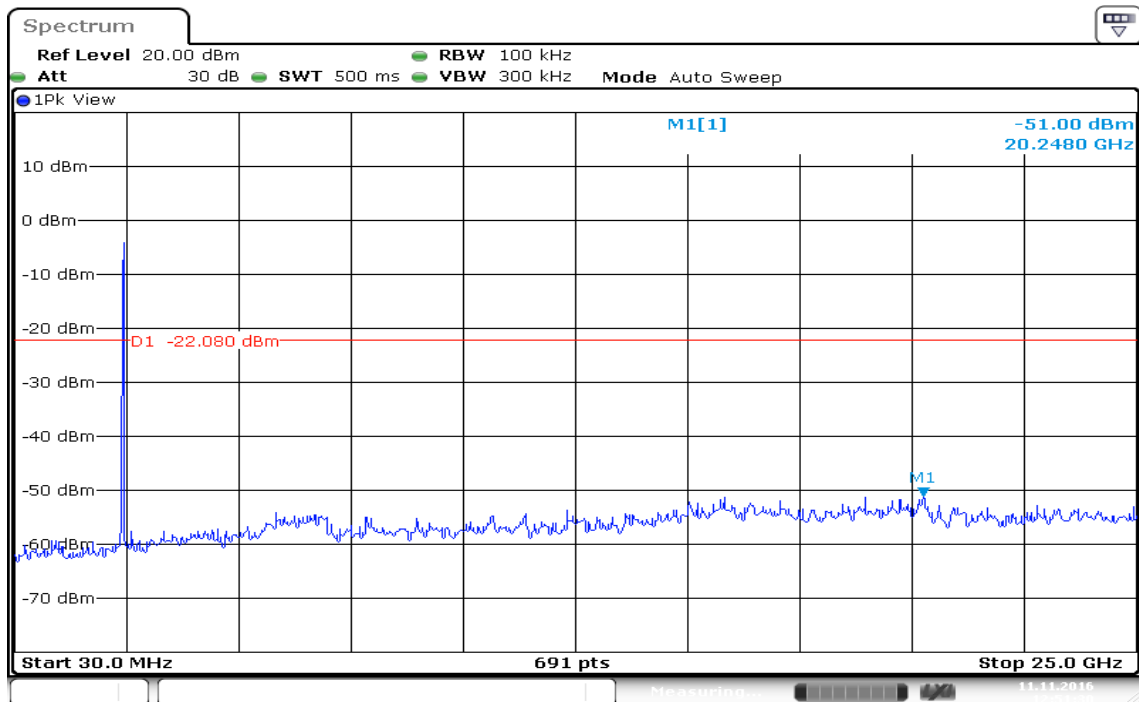
Date: 11 NOV.2016 12:50:24

High CH_Conducted Band Edge



Date: 11 NOV.2016 12:52:16

High CH_Conducted Spurious Emission



Date: 11 NOV 2016 12:51:30

11 功率密度之量測

11.1 適用標準

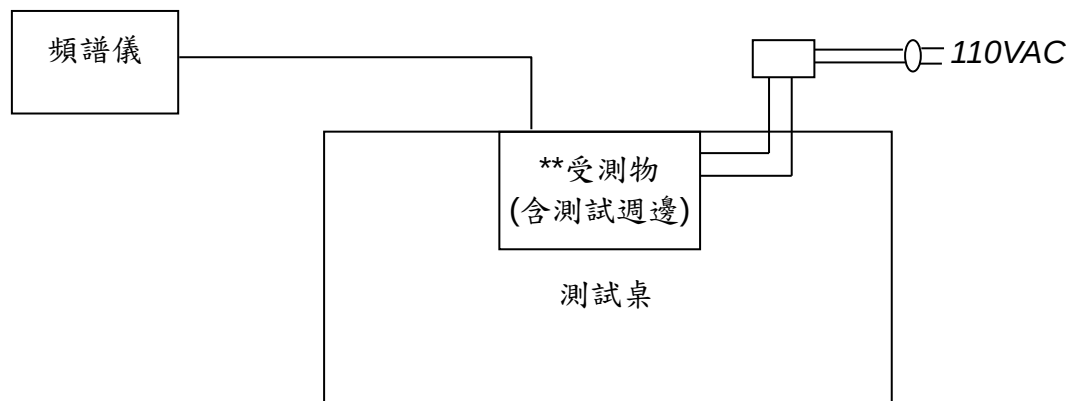
依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.6(2)(B)條規定，對數位調變之系統，在使用頻率範圍之任意 3kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

11.2 測試方法

1. 將發射機之天線埠經由適當之衰減直接連至測試儀器。找出發射峰值並擴展於通帶內，設定解析頻寬為 $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ ，視訊頻寬 $\geq 3 \times \text{RBW}$ ，掃描時間為 auto couple, Span 大於 DTS 頻寬 1.5 倍。所測得之峰值位準必須不大於 +8dBm。
2. 若受測裝置之頻譜線間隔小於 3 kHz，測量時應將解析頻寬降低以使頻譜線間隔大於 3kHz，所測得之數據再藉加總 3 kHz 頻帶內所有個別頻譜線之功率而標準化至 3 kHz 以決定是否符合規定。

註：測試方法依據 FCC KDB 558074 D01 DTS Meas Guidance v03r05

11.3 測試配置



11.4 功率密度之量測結果

Test Mode: IEEE 802.11b Mode

頻道	頻率 (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	限制值 (dBm)	測試結果
Low	2412	-1.06	-2.39	1.34	6.93	PASS
Mid	2437	-1.78	-2.62	0.83		PASS
High	2462	-1.89	-1.91	1.11		PASS

Test Mode: IEEE 802.11g Mode

頻道	頻率 (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	限制值 (dBm)	測試結果
Low	2412	-11.15	-11.66	-8.39	6.93	PASS
Mid	2437	-4.45	-3.44	-0.91		PASS
High	2462	-11.81	-11.99	-8.89		PASS

Test Mode: IEEE 802.11n HT 20 MHz Mode

頻道	頻率 (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	限制值 (dBm)	測試結果
Low	2412	-12.86	-14.18	-10.46	6.93	PASS
Mid	2437	-3.71	-2.78	-0.21		PASS
High	2462	-10.53	-12.84	-8.52		PASS

Test mode: IEEE 802.11n HT 40 mode

頻道	頻率 (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	限制值 (dBm)	測試結果
Low	2422	-14.31	-14.64	-11.46	6.93	PASS
Mid	2437	-9.82	-10.83	-7.29		PASS
High	2452	-14.70	-14.82	-11.75		PASS

Remark:

1. Total PPSD (dBm) = $10 \cdot \log(10^{(\text{Chain 0 PPSD} / 10)} + 10^{(\text{Chain 1 PPSD} / 10)})$

2. The maximum antenna gain is 7.07dBi; therefore the reduction due to antenna gain is 1.07dBi, so the limit is 6.93 dBm.

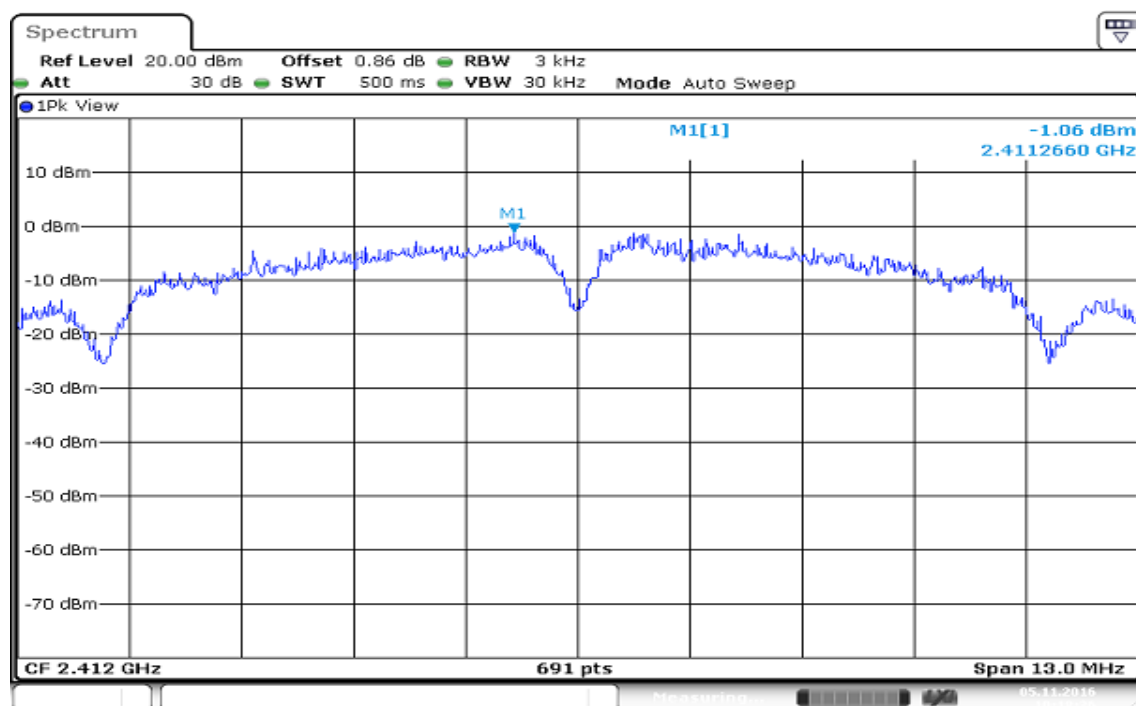
3. 引 用 KDB 662911 D01 Multiple Transmitter Output v02r01

Power Directional gain = $10 \log(((10^{(\text{Ant1}/10)} + 10^{(\text{Ant2}/10)})/2)) = 10 \log(((10^{(4.7/10)} + 10^{(3.3/10)})/2)) = 4.06 \text{ dBi}$

Power Density Directional gain = $10 \log(((10^{(\text{Ant1}/10)} + 10^{(\text{Ant2}/10)})/2)) + 10 \log(\text{NTX}/\text{Nss})$

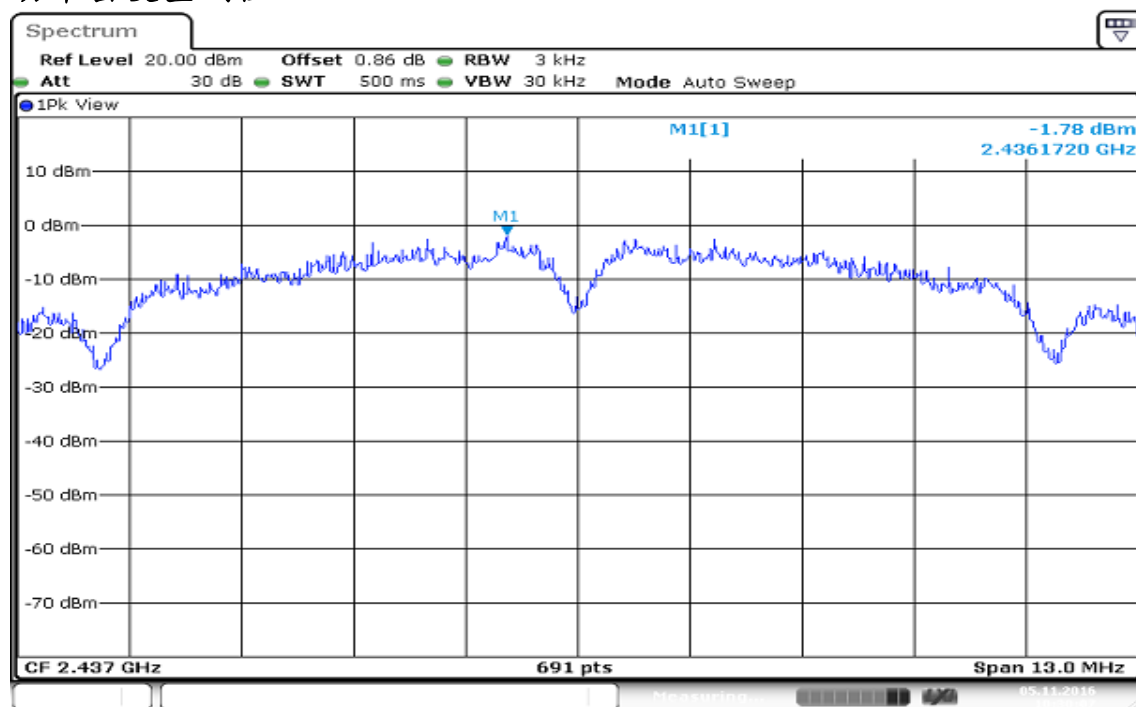
= $10 \log(((10^{(4.7/10)} + 10^{(3.3/10)})/2)) + 10 \log(2/1) = 7.07 \text{ dBi}$

功率密度量測值 IEEE 802.11b Mode / CH Low / Chain 0



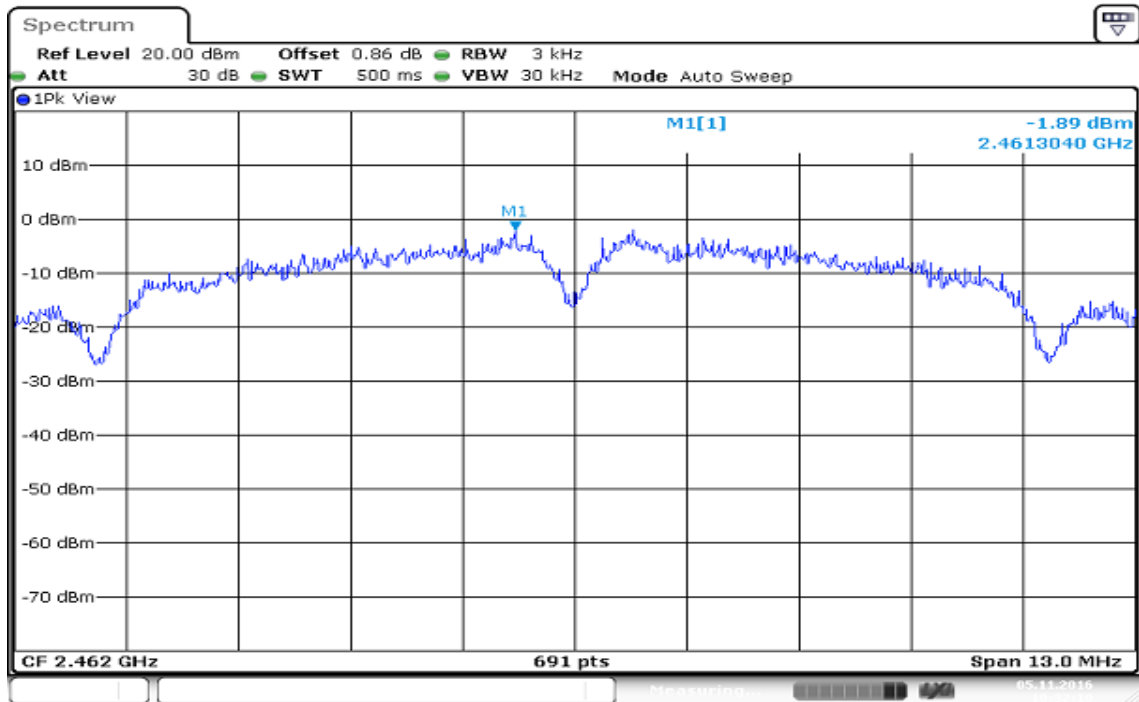
Date: 5 NOV 2016 10:18:26

功率密度量測值 IEEE 802.11b Mode / CH Mid / Chain 0



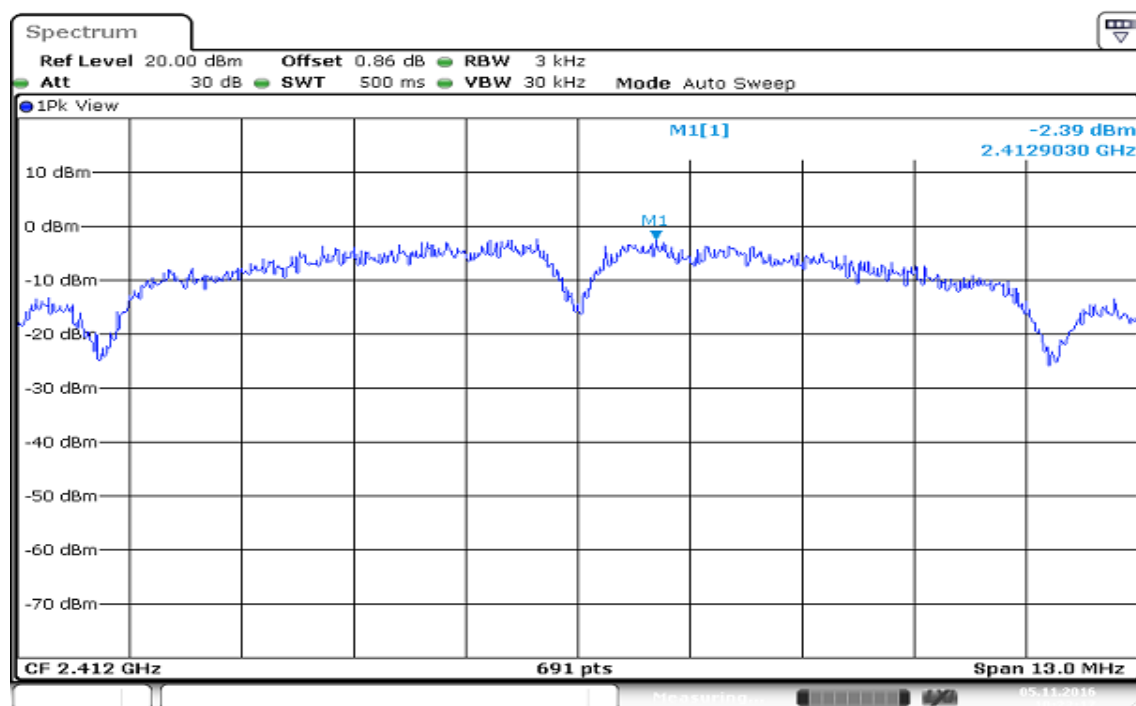
Date: 5 NOV 2016 10:20:08

功率密度量測值 IEEE 802.11b Mode / CH High / Chain 0

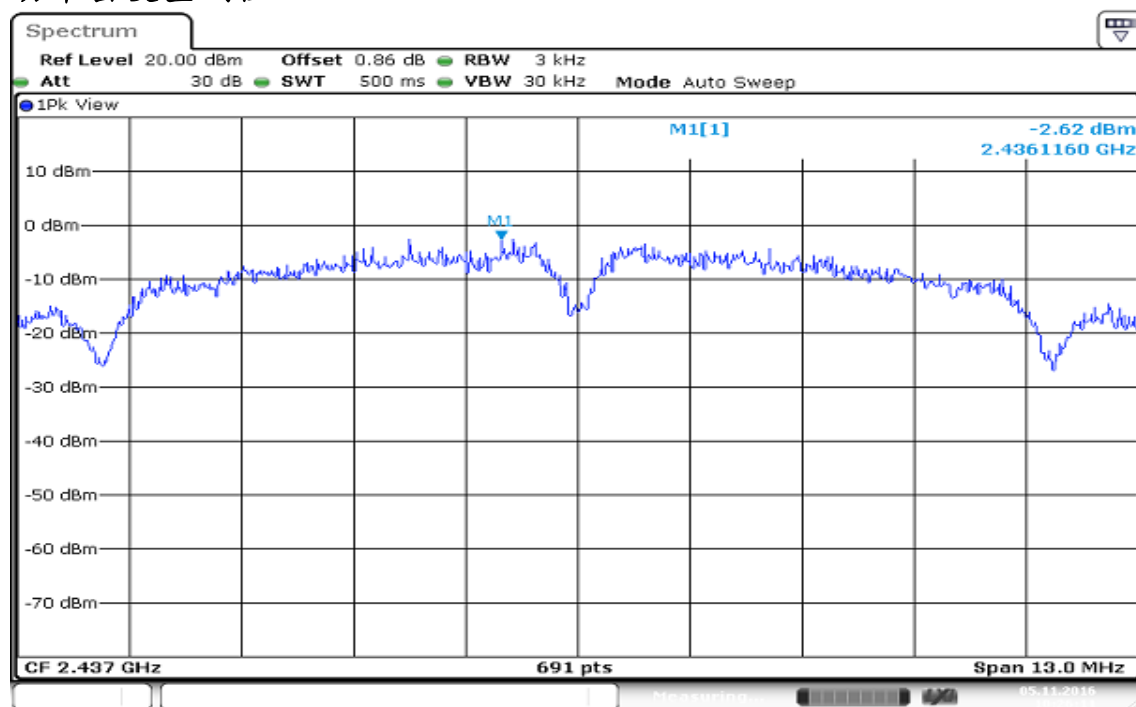


Date: 5 NOV 2016 10:22:11

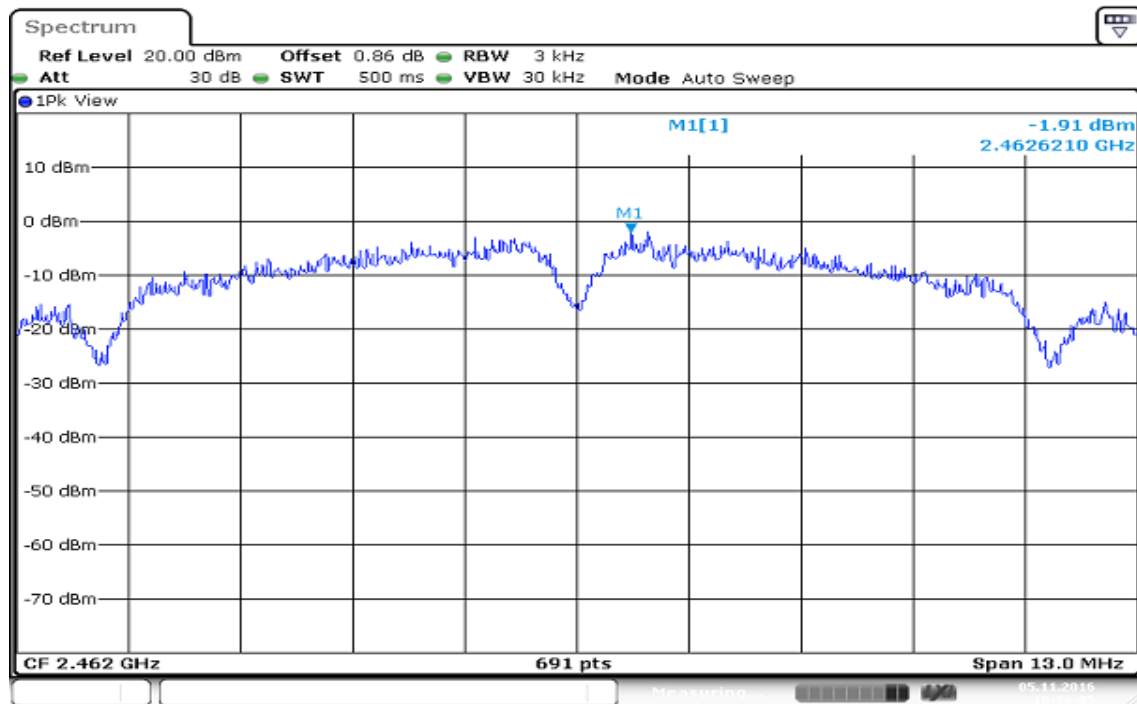
功率密度量測值 IEEE 802.11b Mode / CH Low / Chain 1



功率密度量測值 IEEE 802.11b Mode / CH Mid / Chain 1

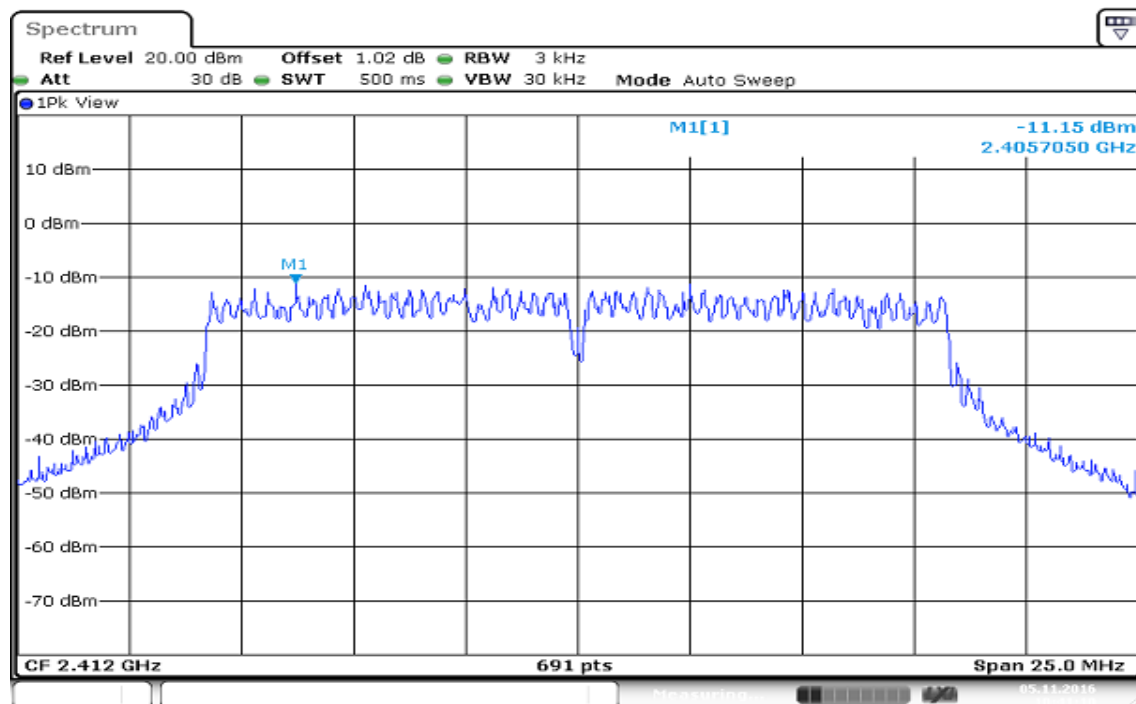


功率密度量測值 IEEE 802.11b Mode / CH High / Chain 1



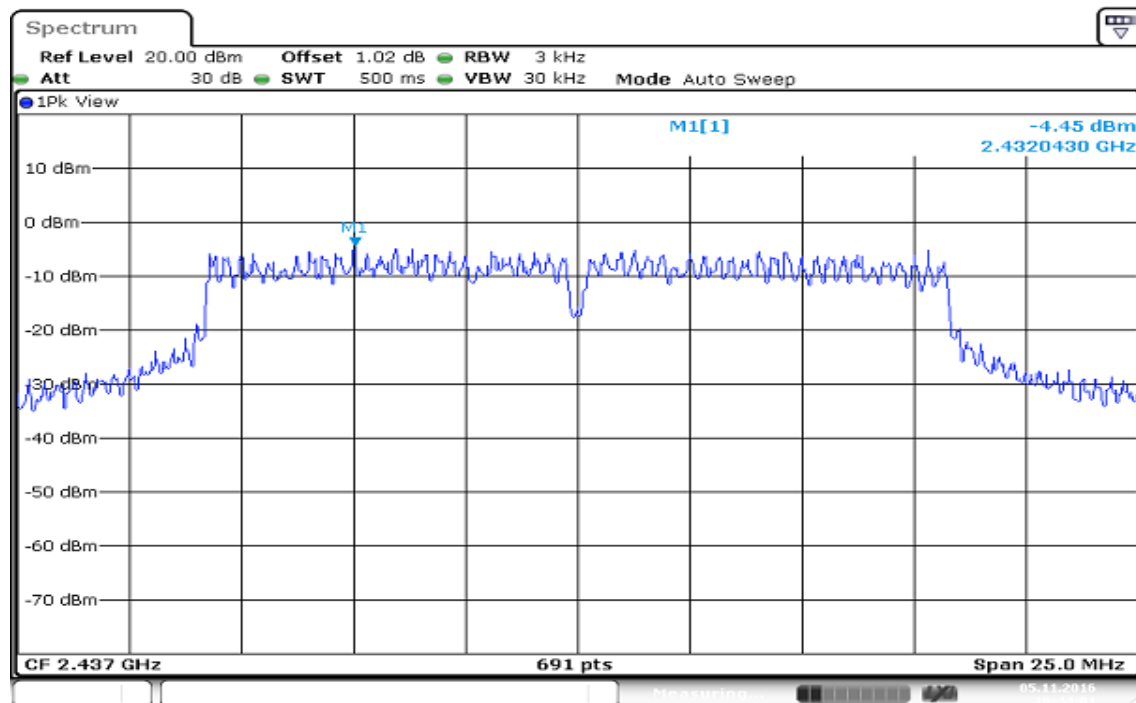
Date: 5 NOV 2016 10:26:06

功率密度量測值 IEEE 802.11g mode / CH Low / Chain 0



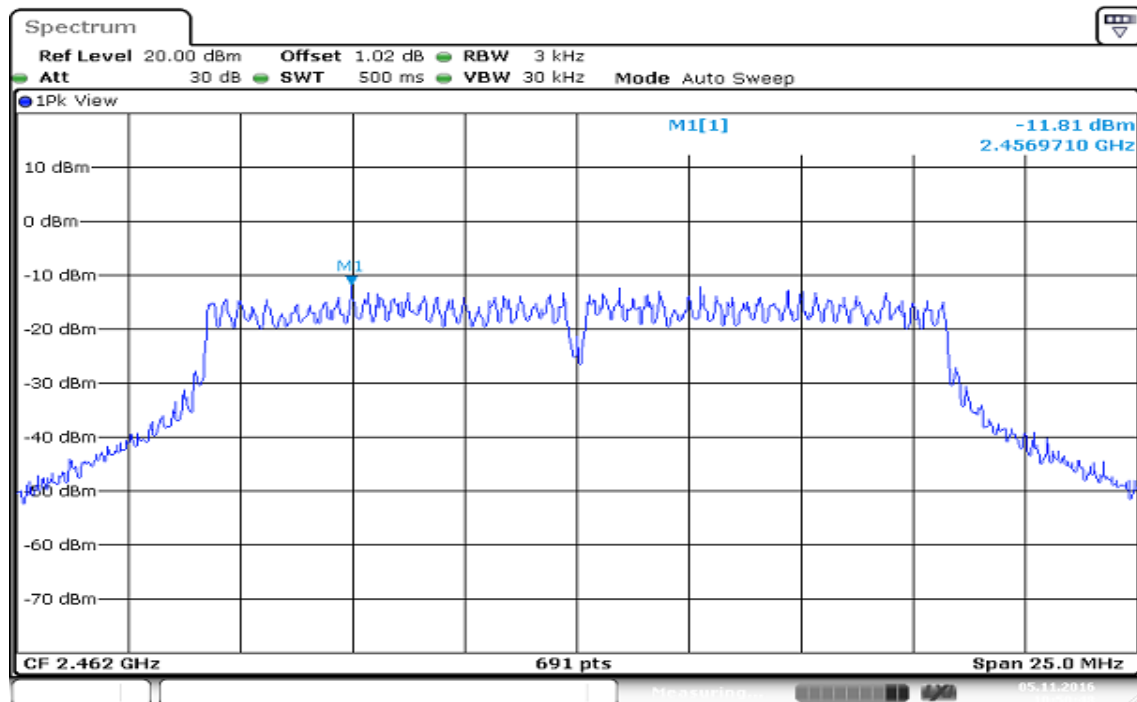
Date: 5 NOV 2016 10:41:09

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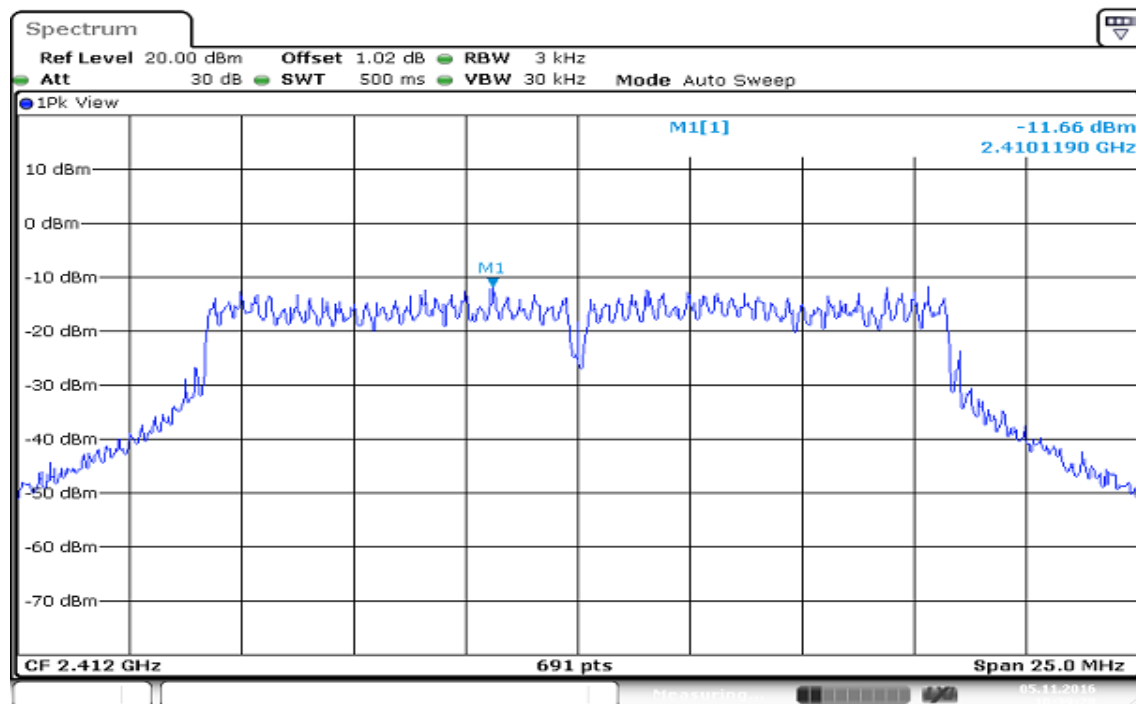
Date: 5 NOV 2016 10:44:01

功率密度量測值 IEEE 802.11g mode / CH High / Chain 0

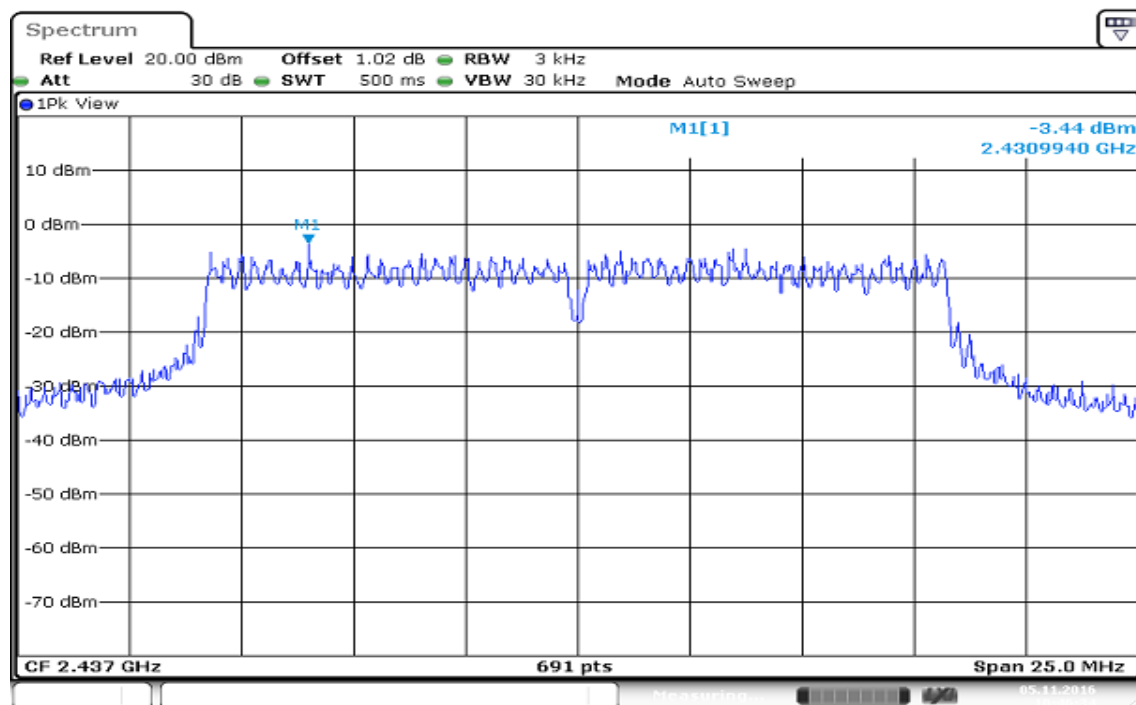


Date: 5 NOV 2016 10:50:48

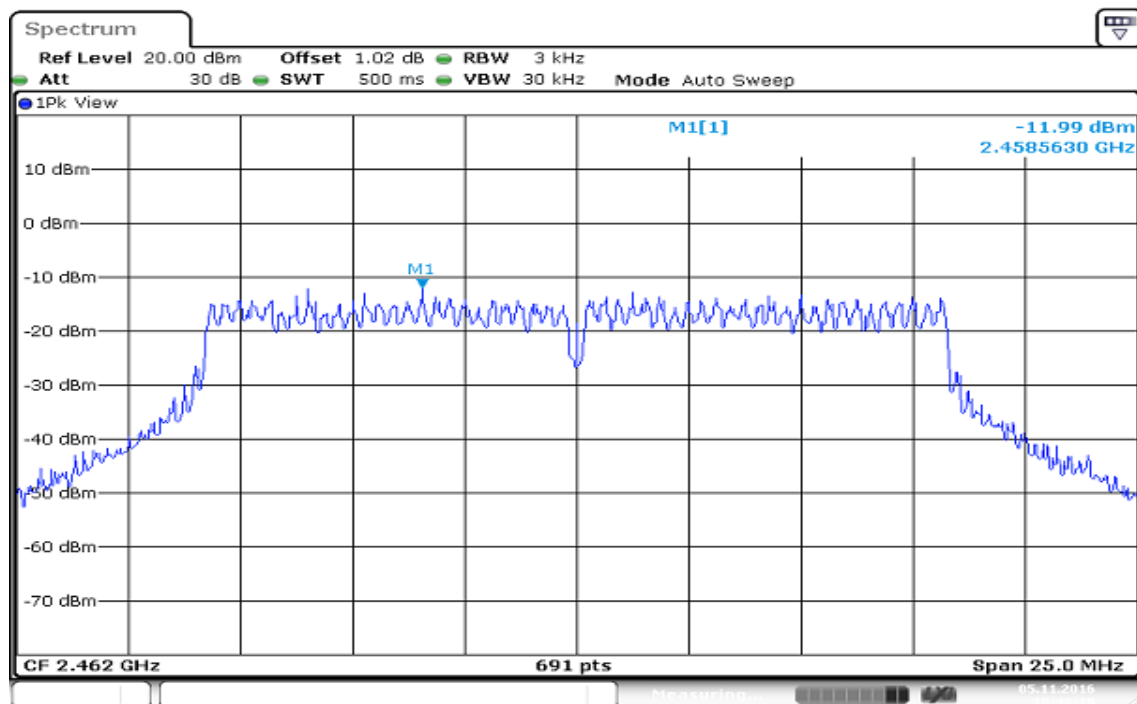
功率密度量測值 IEEE 802.11g mode / CH Low / Chain 1



功率密度量測值 IEEE 802.11g mode / CH Mid / Chain 1

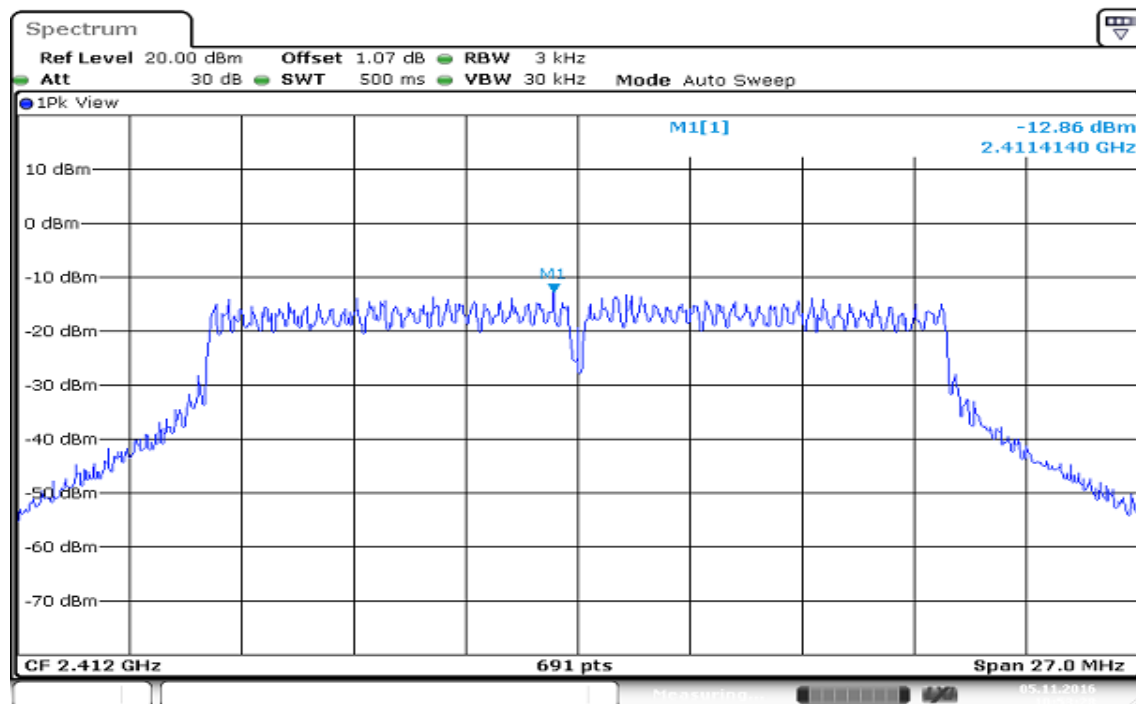


功率密度量測值 IEEE 802.11g mode / CH High / Chain 1



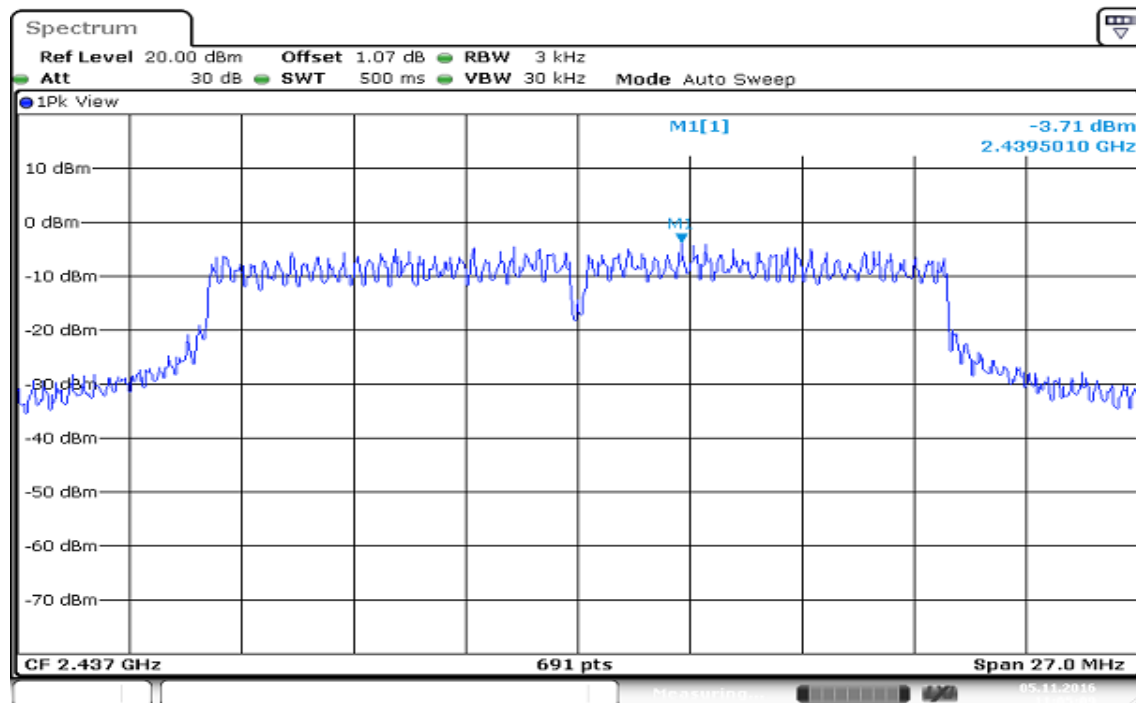
Date: 5 NOV 2016 10:49:20

功率密度量測值 IEEE 802.11n HT 20 MHz mode / CH Low / Chain 0



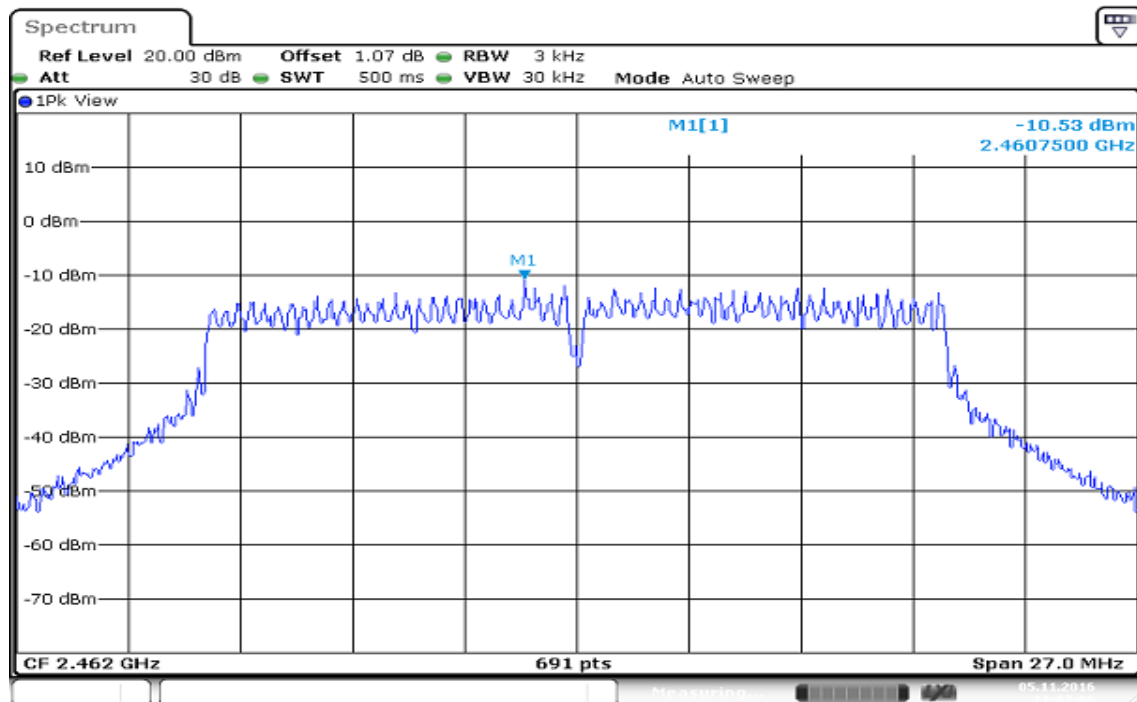
Date: 5 NOV 2016 10:53:28

功率密度量測值 IEEE 802.11n HT 20 MHz mode / CH Mid / Chain 0



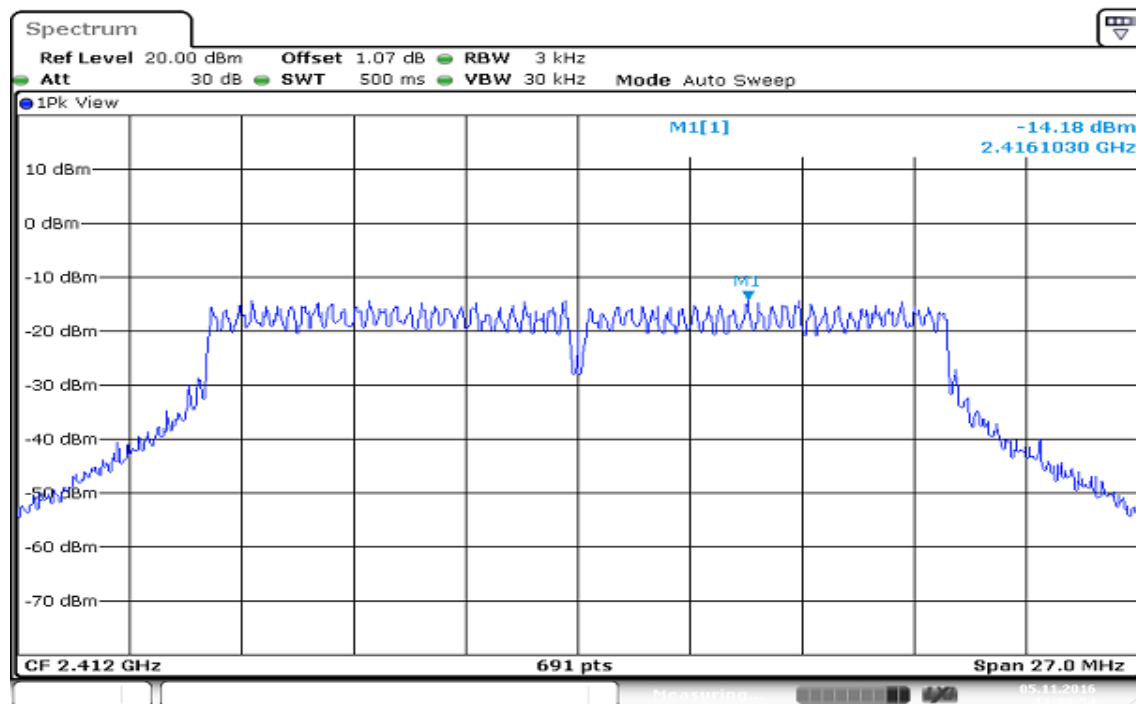
Date: 5 NOV 2016 11:05:09

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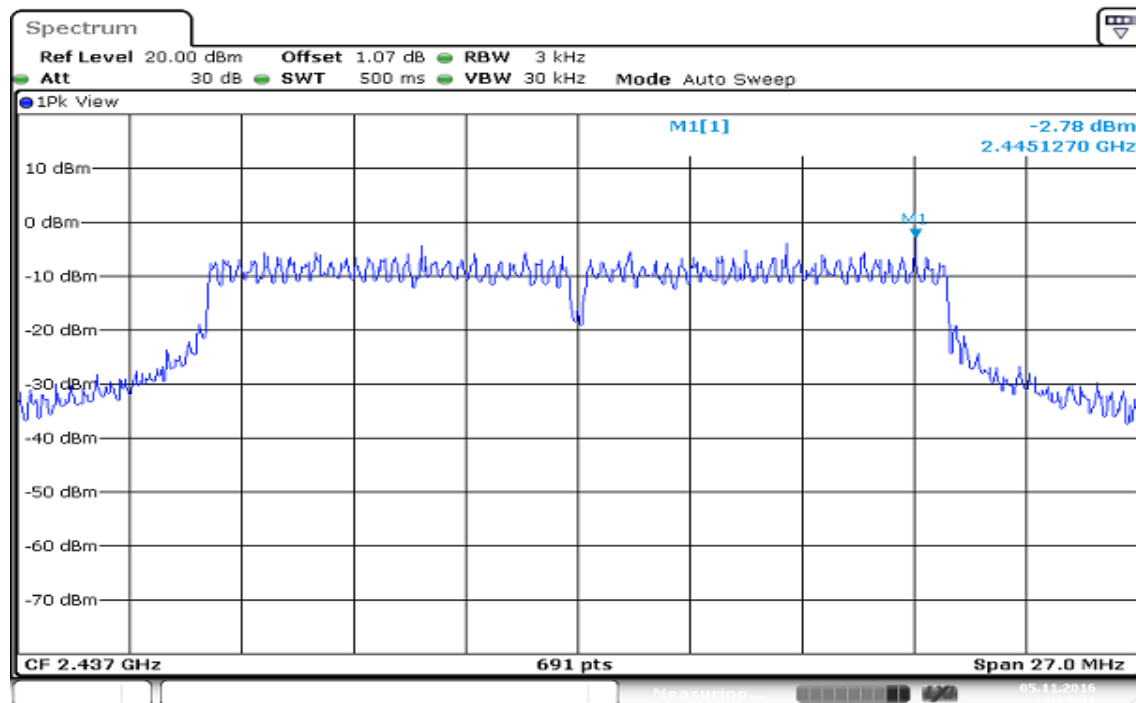
Date: 5 NOV 2016 11:07:06

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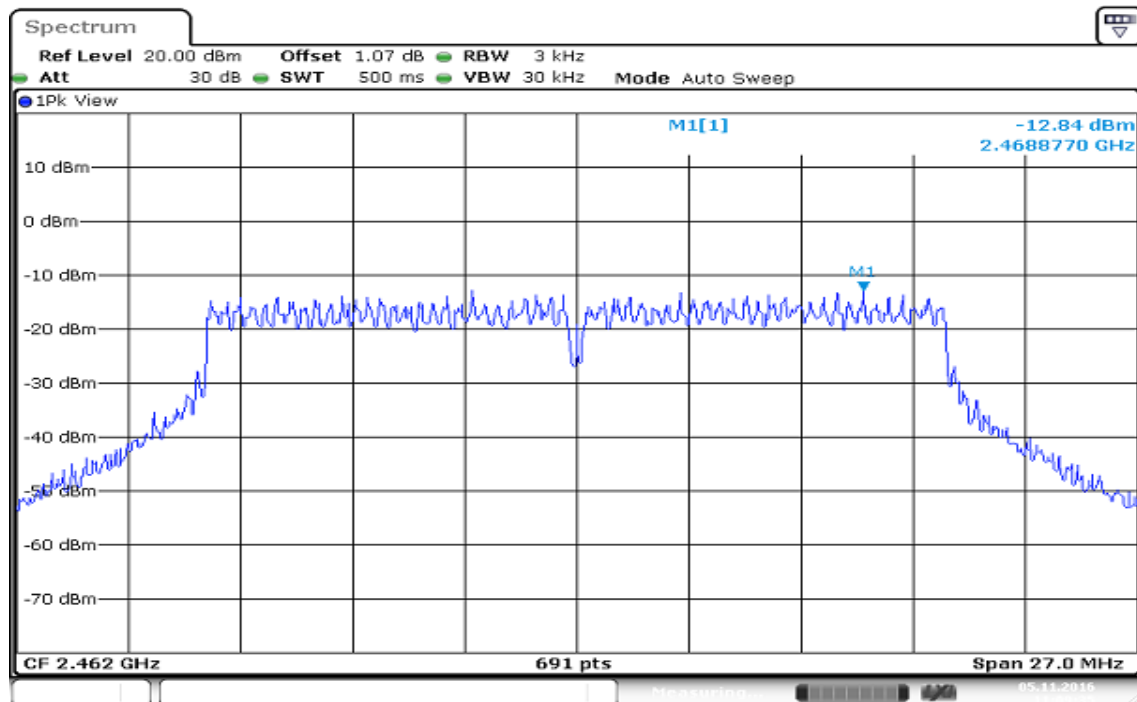
Date: 5 NOV 2016 11:00:54

功率密度量測值 IEEE 802.11n HT 20 MHz mode / CH Mid / Chain 1



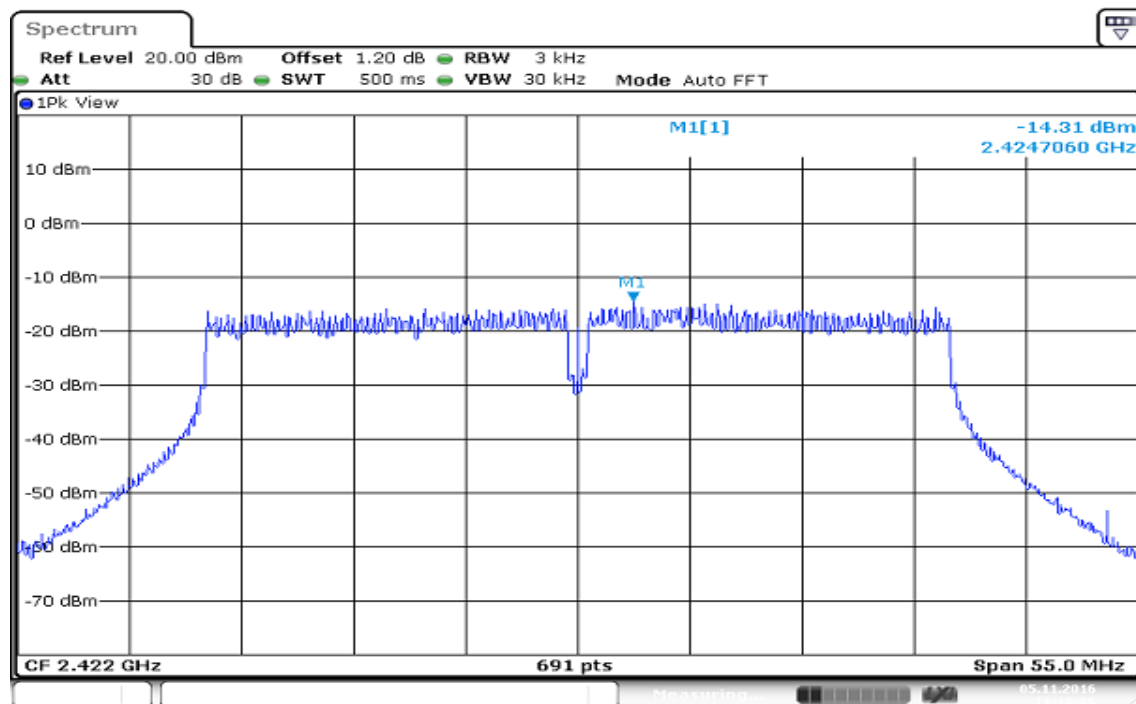
Date: 5 NOV 2016 11:02:42

功率密度量測值 IEEE 802.11n HT 20 MHz mode / CH High / Chain 1

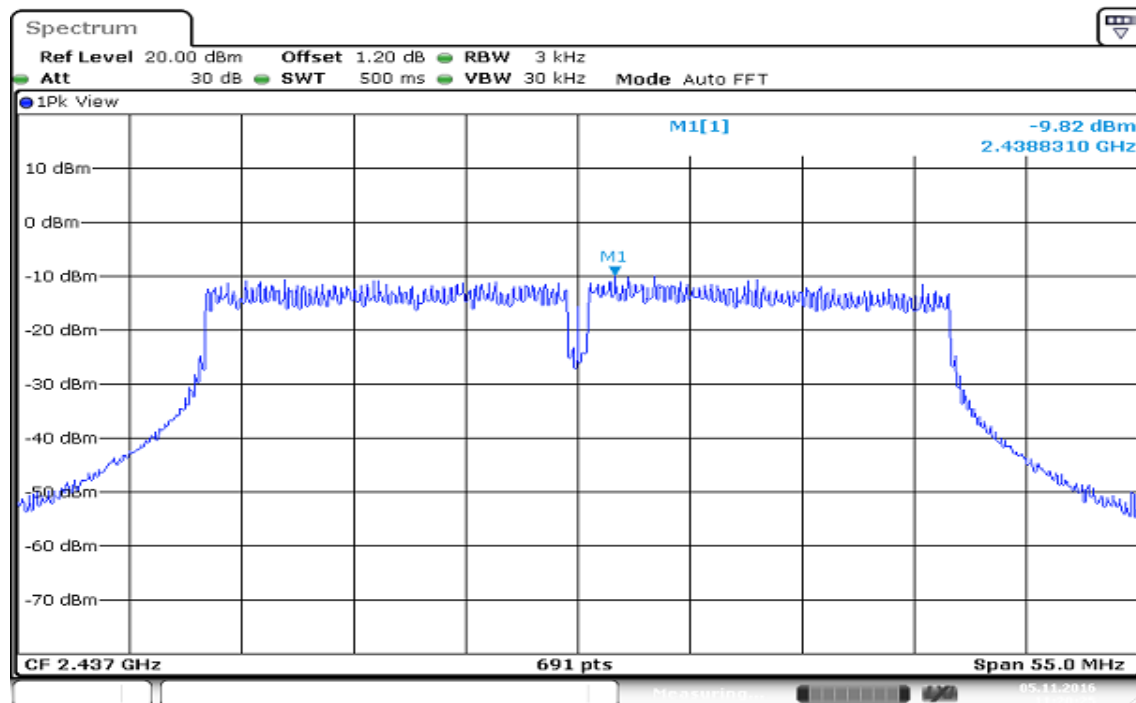


Date: 5 NOV 2016 11:09:25

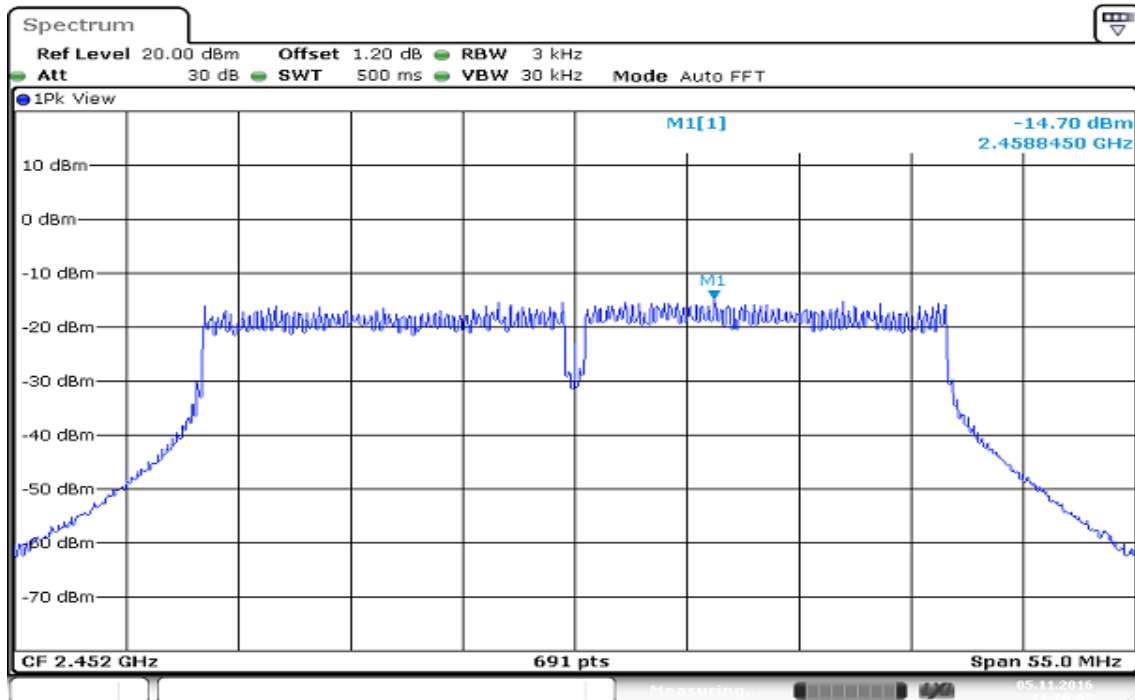
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功率密度量測值 IEEE 802.11n HT 40 MHz mode / CH Mid / Chain 0

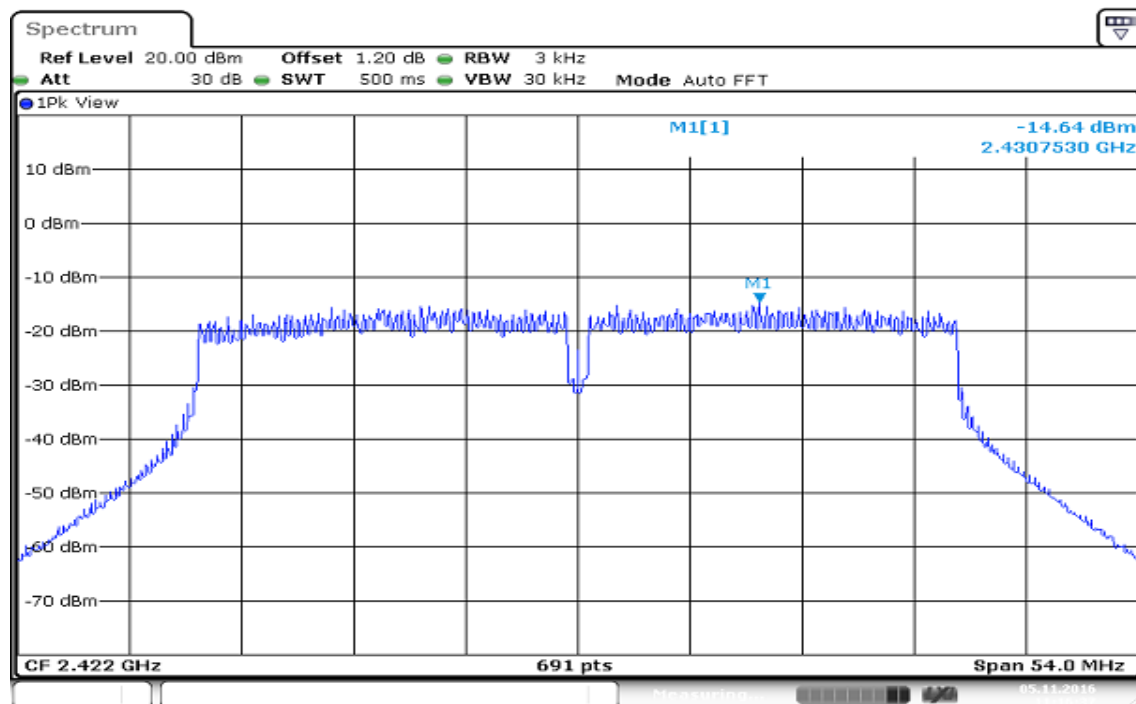


功率密度量測值 IEEE 802.11n HT 40 MHz mode / CH High / Chain 0

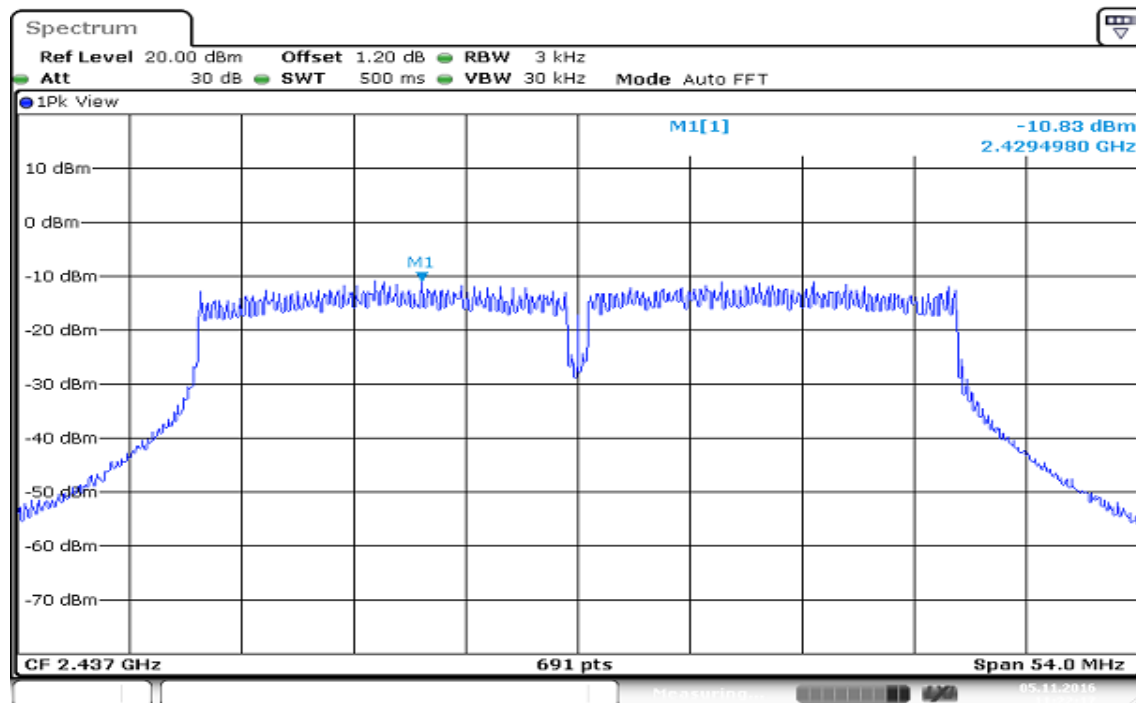


Date: 5 NOV 2016 11:26:03

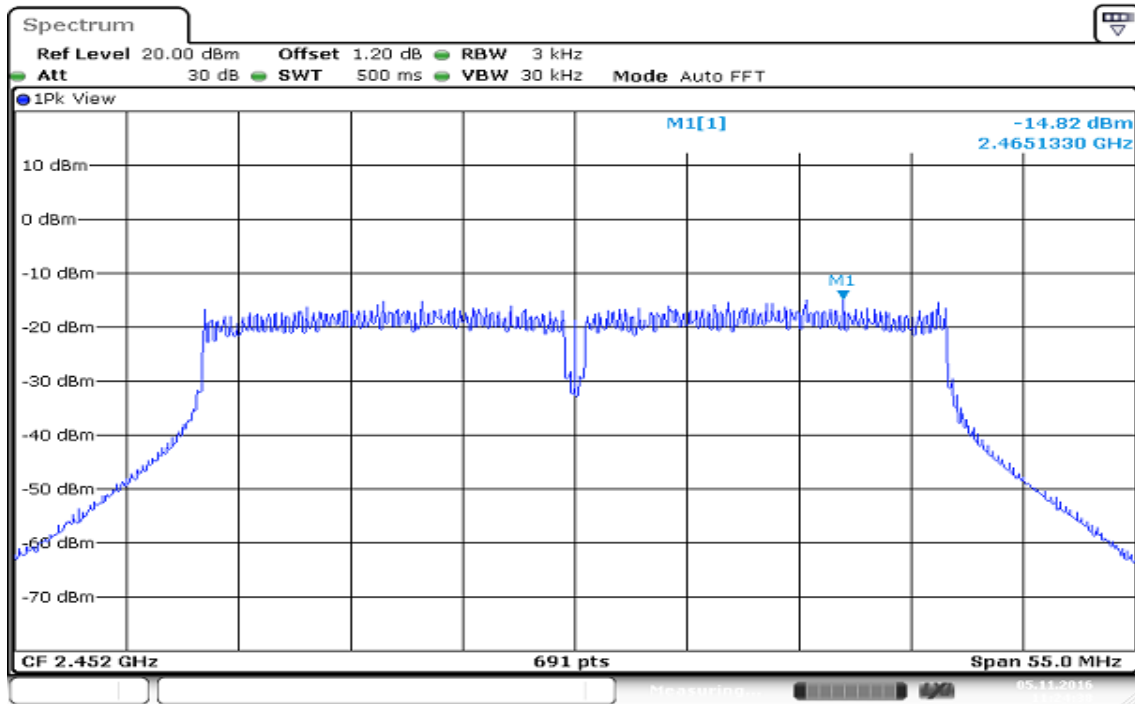
功率密度量測值 IEEE 802.11n HT 40 MHz mode / CH Low / Chain 1



功率密度量測值 IEEE 802.11n HT 40 MHz mode / CH Mid / Chain 1



功率密度量測值 IEEE 802.11n HT 40 MHz mode / CH High / Chain 1



Date: 5 NOV 2016 11:24:28