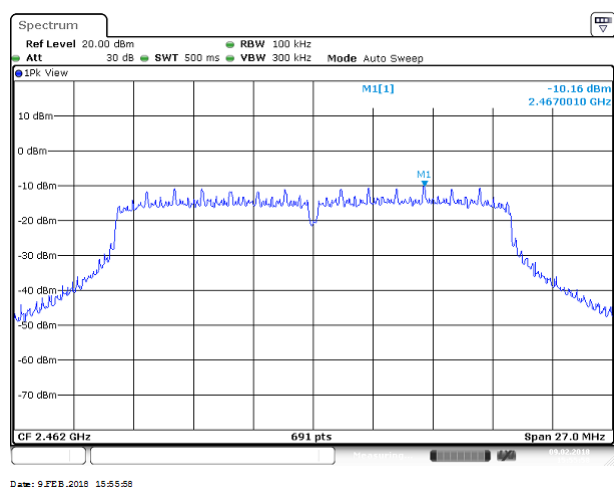
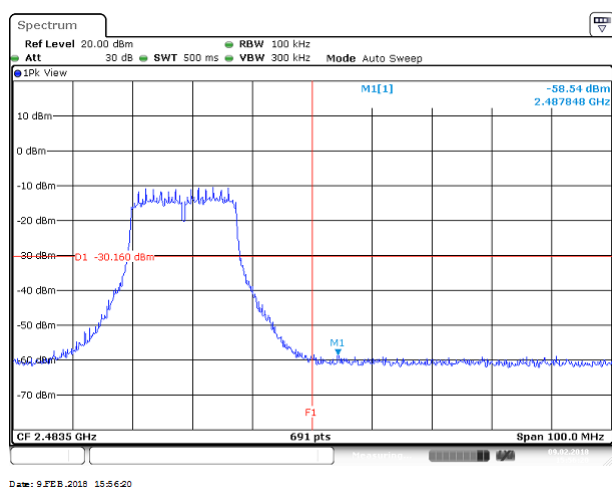


IEEE 802.11n 20MHz mode High CH chain 1

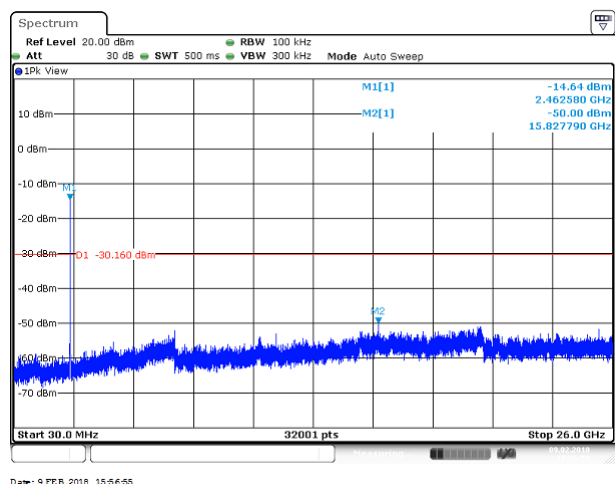
Reference Level of PSD in 100kHz



Band Edge

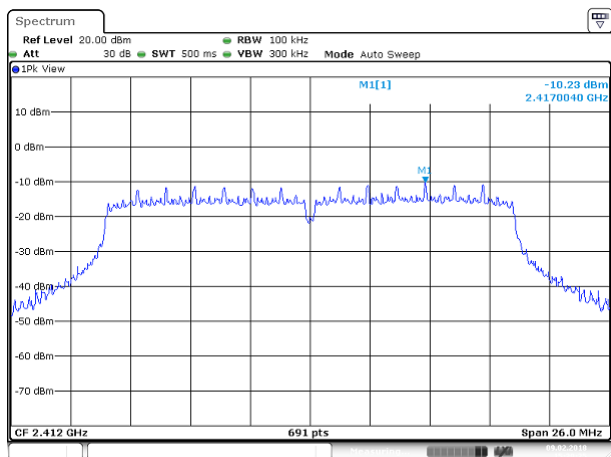


Spurious Emission 30MHz-25GHz

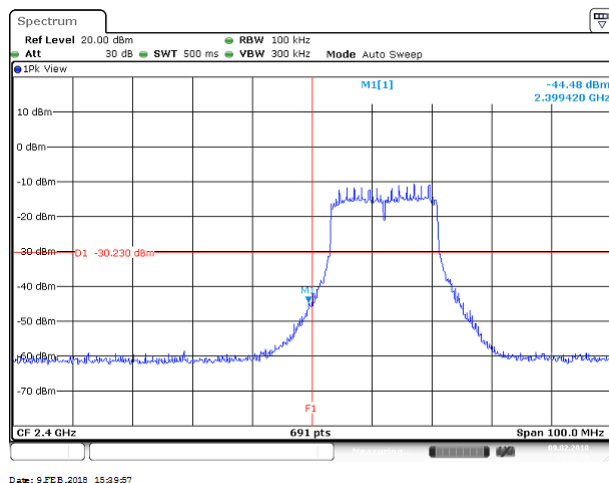


IEEE 802.11n 20MHz mode Low CH chain 2

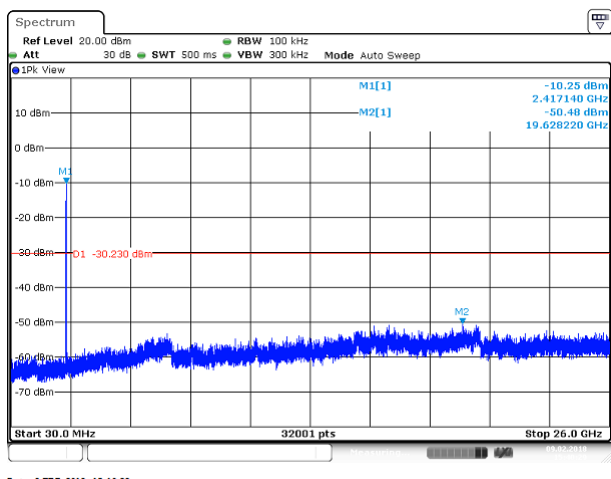
Reference Level of PSD in 100kHz

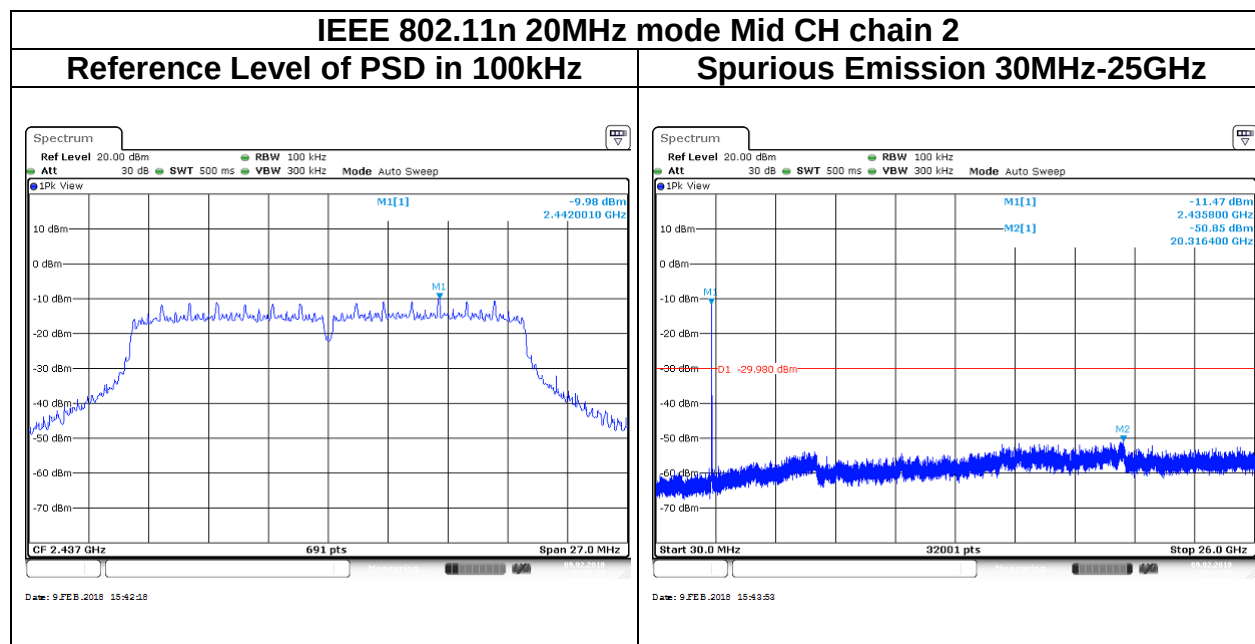


Band Edge



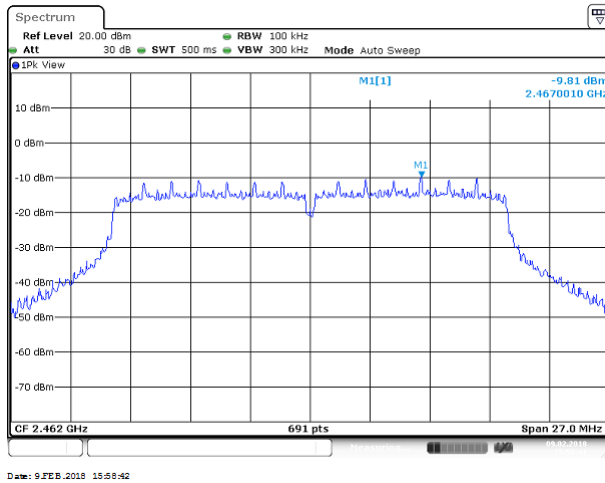
Spurious Emission 30MHz-25GHz



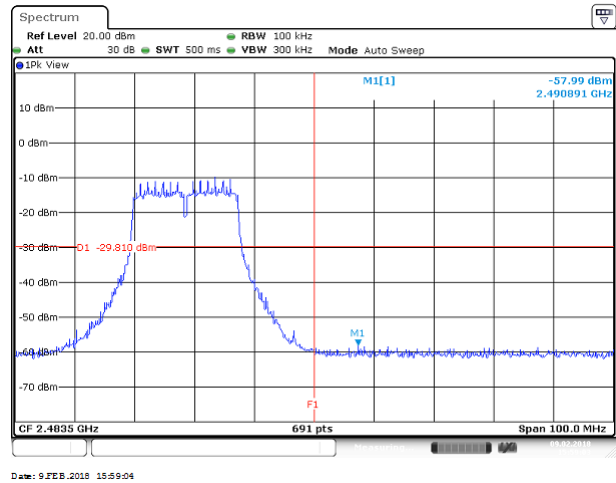


IEEE 802.11n 20MHz mode High CH chain 2

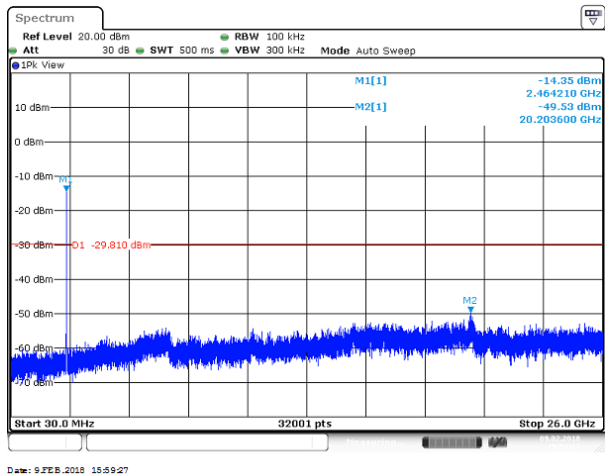
Reference Level of PSD in 100kHz



Band Edge

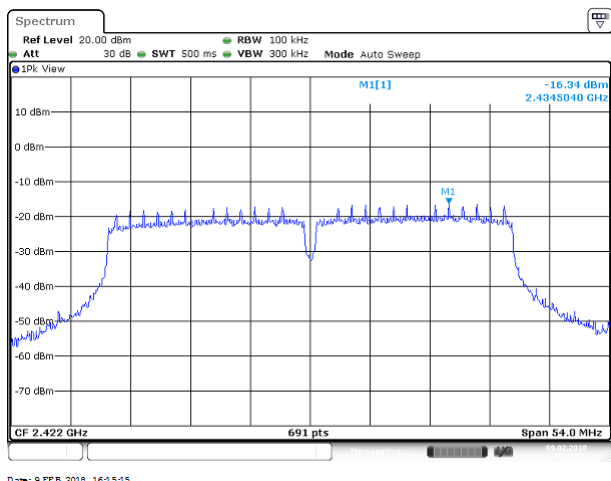


Spurious Emission 30MHz-25GHz

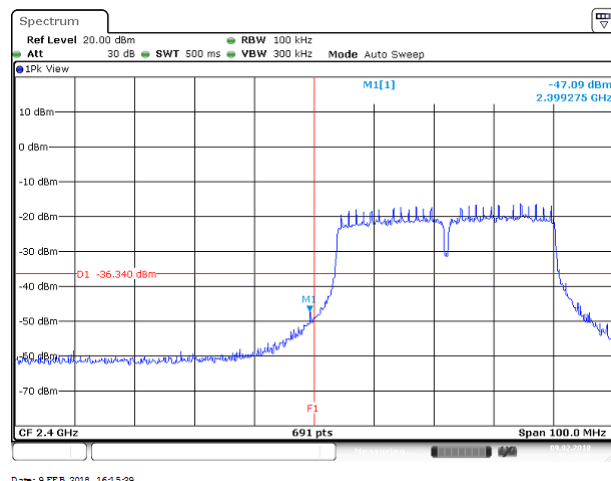


IEEE 802.11n 40MHz mode Low CH chain 0

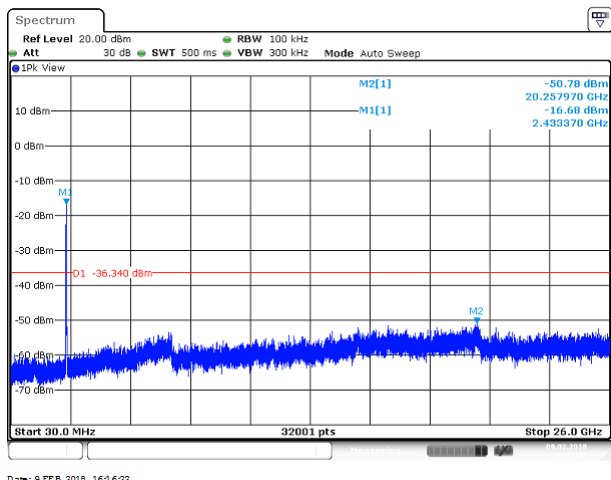
Reference Level of PSD in 100kHz

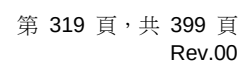


Band Edge



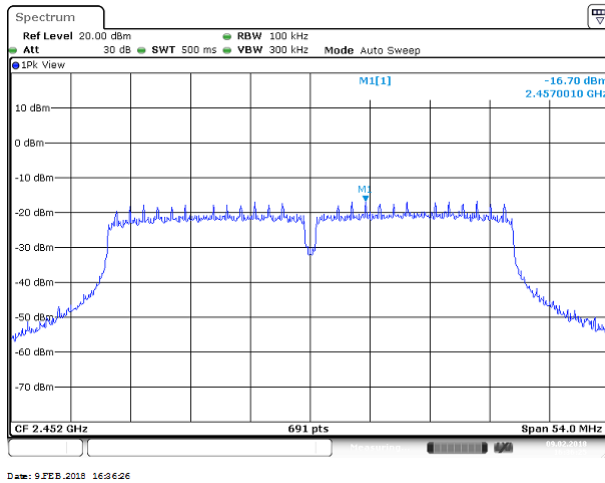
Spurious Emission 30MHz-25GHz



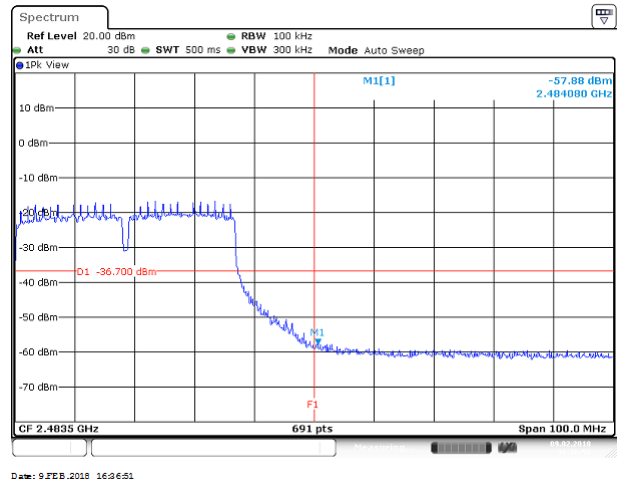


IEEE 802.11n 40MHz mode High CH chain 0

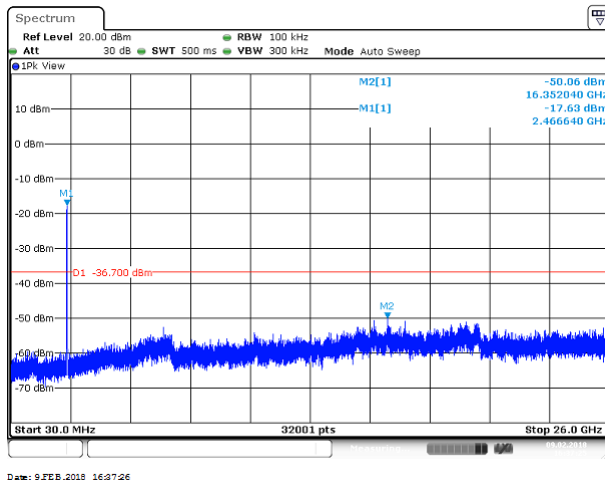
Reference Level of PSD in 100kHz



Band Edge

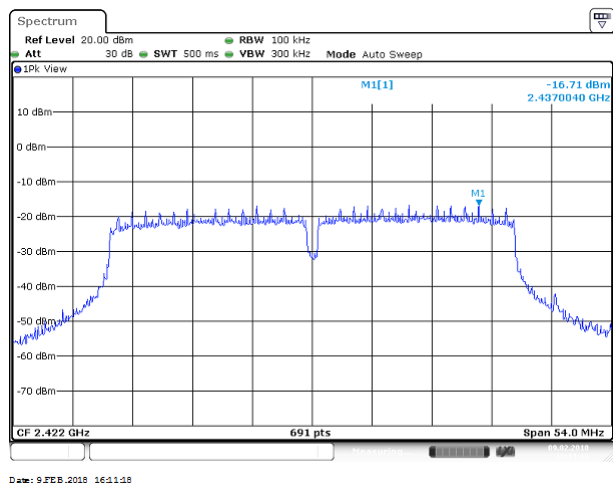


Spurious Emission 30MHz-25GHz

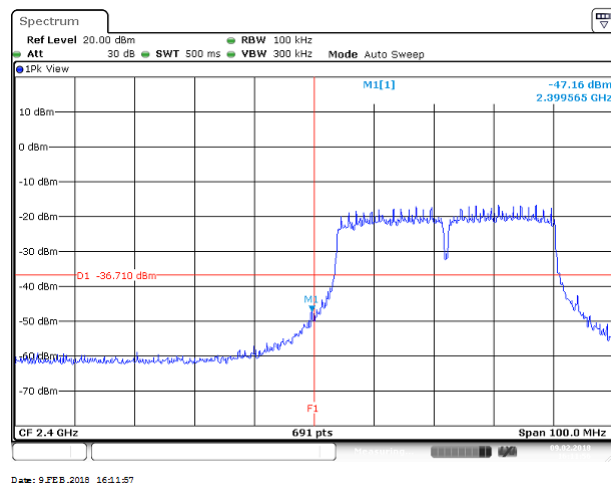


IEEE 802.11n 40MHz mode Low CH chain 1

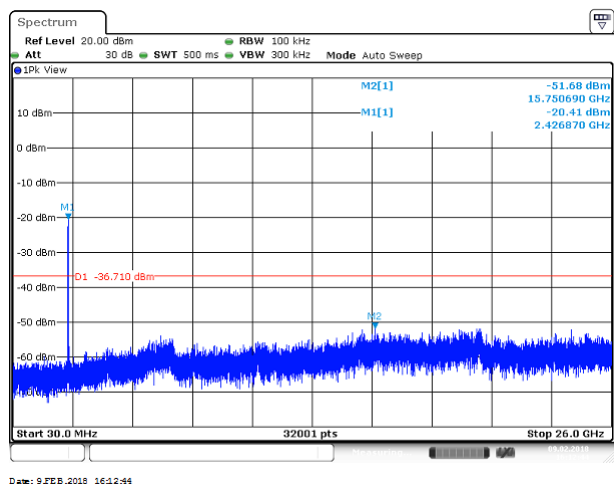
Reference Level of PSD in 100kHz

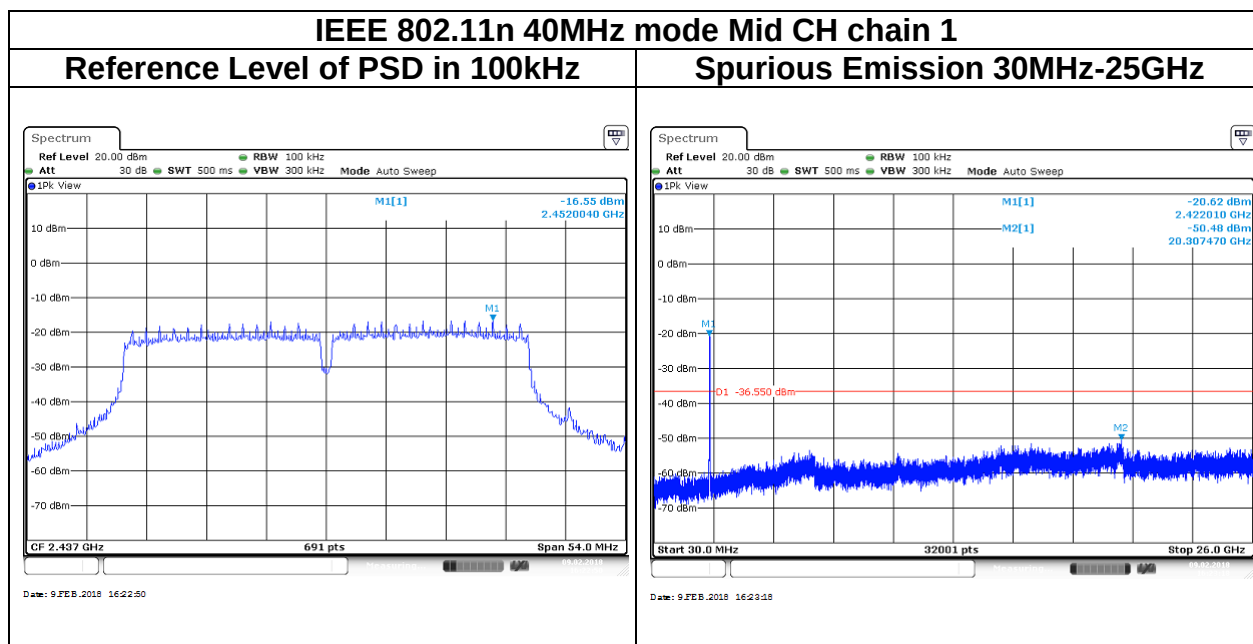


Band Edge



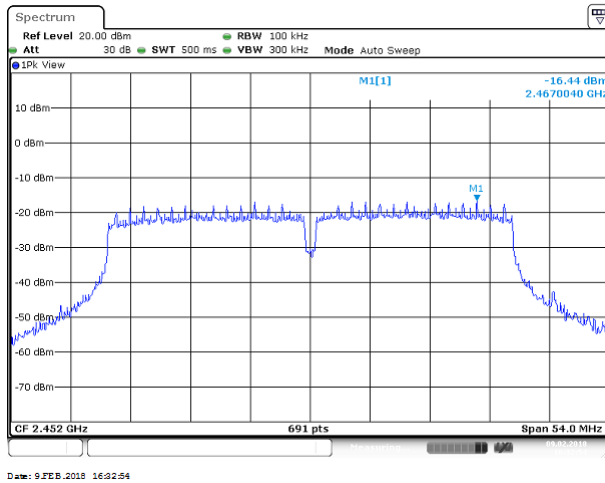
Spurious Emission 30MHz-25GHz



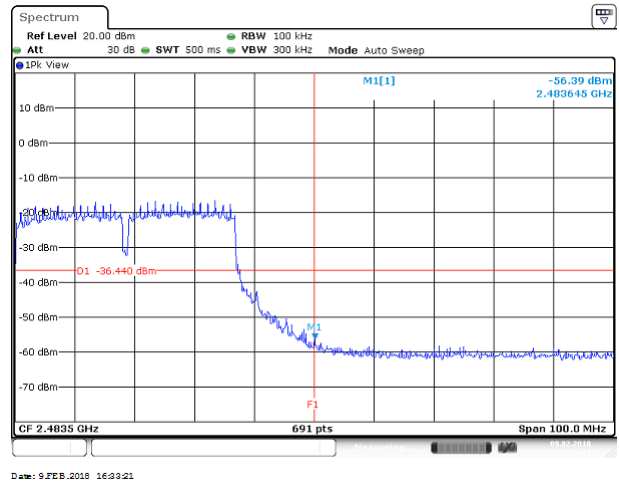


IEEE 802.11n 40MHz mode High CH chain 1

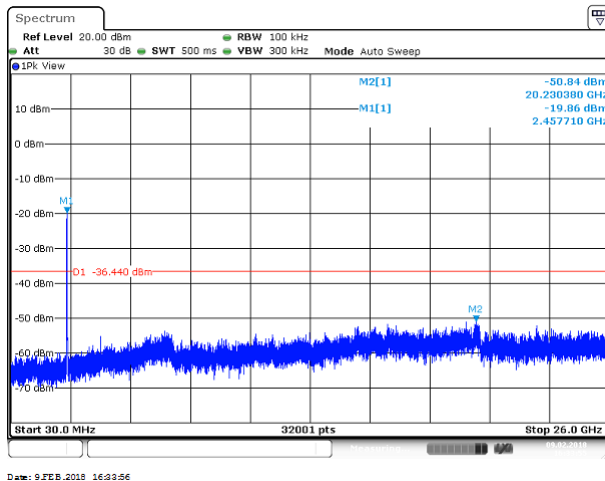
Reference Level of PSD in 100kHz



Band Edge

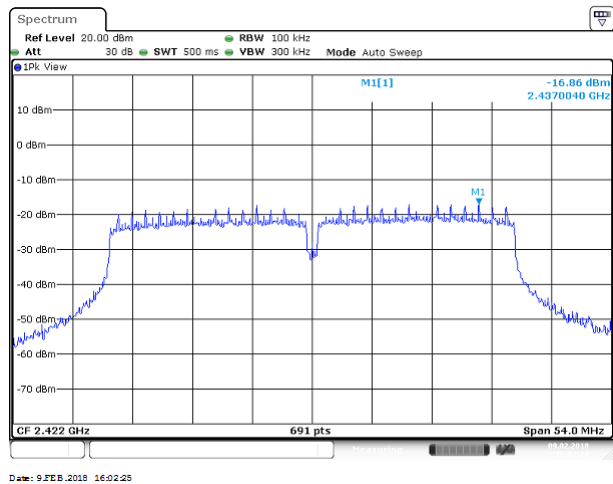


Spurious Emission 30MHz-25GHz

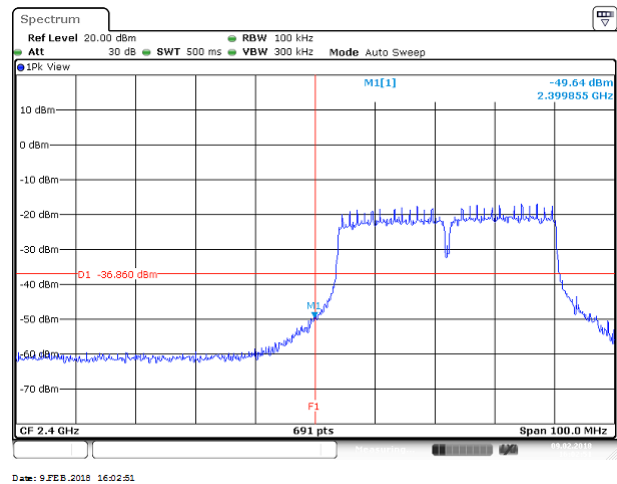


IEEE 802.11n 40MHz mode Low CH chain 2

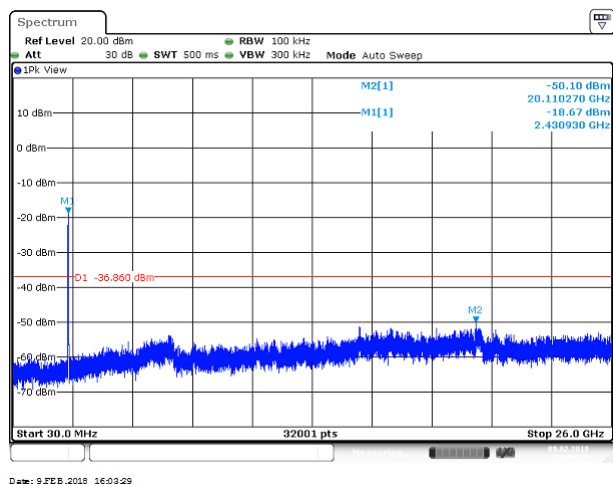
Reference Level of PSD in 100kHz

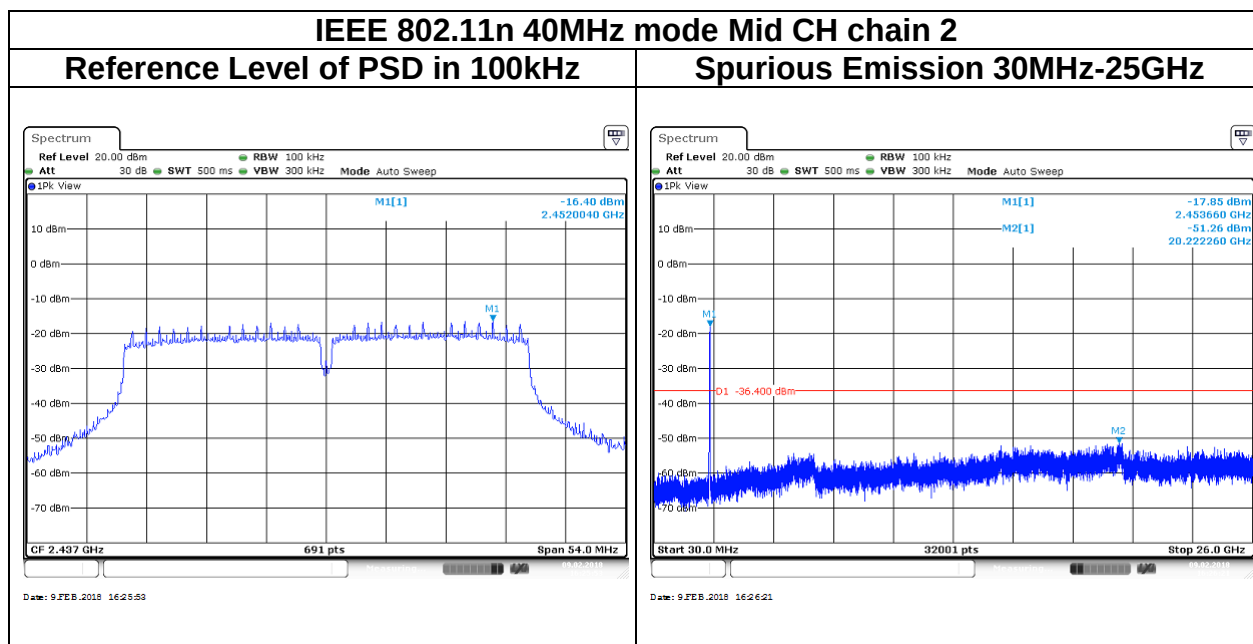


Band Edge



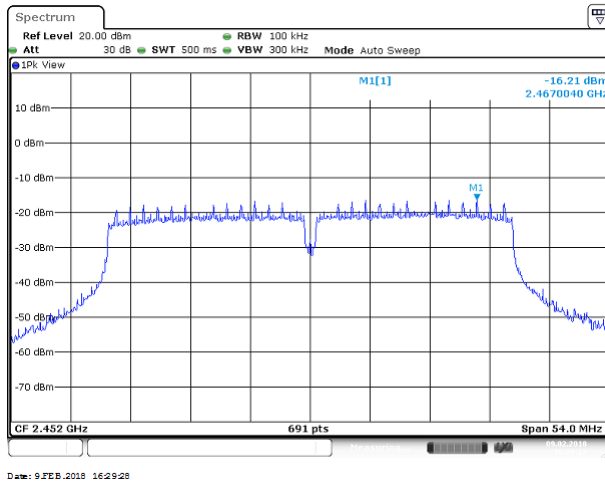
Spurious Emission 30MHz-25GHz



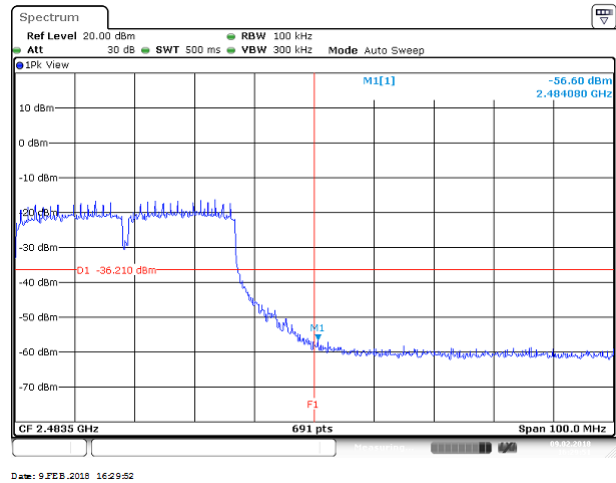


IEEE 802.11n 40MHz mode High CH chain 2

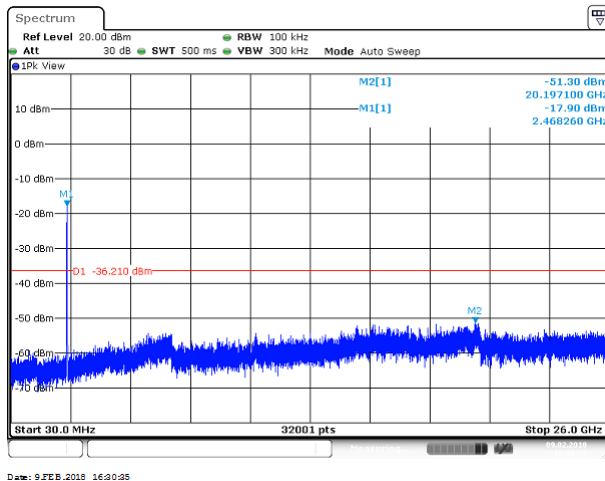
Reference Level of PSD in 100kHz



Band Edge



Spurious Emission 30MHz-25GHz



11 功率密度之量測

11.1 適用標準

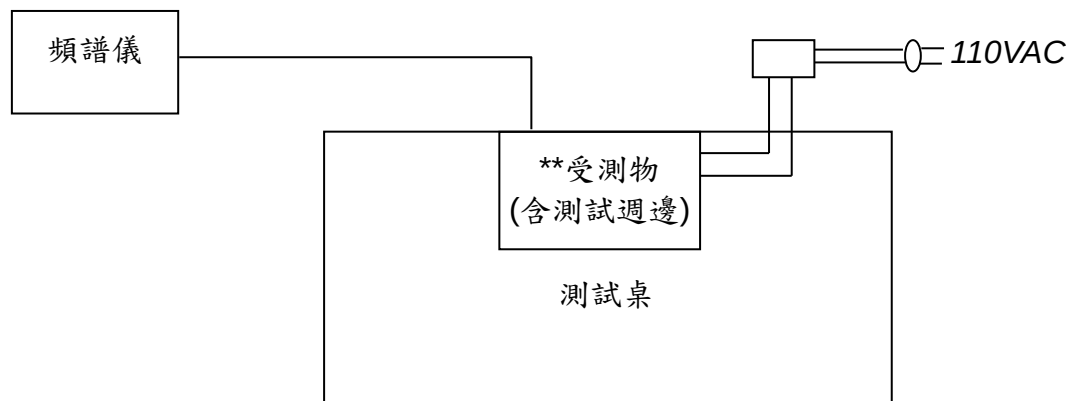
依據國家通訊傳播委員會低功率射頻電機技術規範 3.10.1.6(2)(B)條規定，對數位調變之系統，在使用頻率範圍之任意 3kHz 頻寬內，由發射機傳導至天線之峰值發射電功率密度在任意期間內，皆不得大於 8dBm。

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 v04

11.3 測試配置



註：**請參照 3.2 節

11.4 功率密度之量測結果**For 1TX****IEEE 802.11b mode**

Duty Cycle = 100.00% Duty Factor = 0.00

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Limit (dBm)	Result
Low	2412	-5.94	-6.75	-4.62	8	PASS
Mid	2437	-5.98	-5.02	-5.85		PASS
High	2462	-5.89	-5.73	-4.76		PASS

IEEE 802.11g mode

Duty Cycle = 97.95% Duty Factor = 0.09

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Limit (dBm)	Result
Low	2412	-7.85	-9.91	-9.55	8	PASS
Mid	2437	-7.84	-8.81	-9.30		PASS
High	2462	-9.35	-8.29	-9.28		PASS

IEEE 802.11n 20MHz mode

Duty Cycle = 96.08% Duty Factor = 0.17

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Limit (dBm)	Result
Low	2412	-10.17	-8.86	-10.31	8	PASS
Mid	2437	-8.25	-9.23	-9.40		PASS
High	2462	-11.26	-9.97	-10.80		PASS

IEEE 802.11n 40MHz mode

Duty Cycle = 89.65% Duty Factor = 0.47

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Limit (dBm)	Result
Low	2422	-14.82	-13.65	-14.71	8	PASS
Mid	2437	-12.63	-13.71	-14.07		PASS
High	2452	-14.91	-13.71	-14.10		PASS

For 2TX**IEEE 802.11b mode**

Duty Cycle = 100.00% Duty Factor = 0.00

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2412	-9.05	-10.03	-6.50	8	PASS
Mid	2437	-8.77	-8.41	-5.58		PASS
High	2462	-7.81	-8.94	-5.33		PASS

IEEE 802.11g mode

Duty Cycle = 97.95% Duty Factor = 0.09

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.09	-4.04	-3.53	8	PASS
Mid	2437	-10.64	-12.00	-8.26		PASS
High	2462	-12.70	-11.42	-9.00		PASS

IEEE 802.11n 20MHz mode

Duty Cycle = 96.08% Duty Factor = 0.17

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.28	-12.66	-9.95	8	PASS
Mid	2437	-12.28	-12.44	-9.35		PASS
High	2462	-12.74	-13.93	-10.28		PASS

IEEE 802.11n 40MHz mode

Duty Cycle = 89.65% Duty Factor = 0.47

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2422	-16.56	-17.61	-14.04	8	PASS
Mid	2437	-16.86	-16.63	-13.73		PASS
High	2452	-18.90	-19.53	-16.19		PASS

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

For 3TX**IEEE 802.11b mode**

Duty Cycle = 100.00% Duty Factor = 0.00

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2412	-9.44	-9.81	-8.66	-4.51	8	PASS
Mid	2437	-10.24	-10.04	-9.98	-5.31		PASS
High	2462	-10.20	-10.74	-9.33	-5.28		PASS

IEEE 802.11g mode

Duty Cycle = 97.95% Duty Factor = 0.09

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.91	-14.08	-13.71	-9.13	8	PASS
Mid	2437	-13.42	-13.98	-12.77	-8.59		PASS
High	2462	-14.84	-13.74	-13.94	-9.38		PASS

IEEE 802.11n 20MHz mode

Duty Cycle = 96.08% Duty Factor = 0.17

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.65	-13.68	-13.38	-8.80	8	PASS
Mid	2437	-14.64	-14.70	-13.01	-9.27		PASS
High	2462	-14.25	-14.56	-14.02	-9.50		PASS

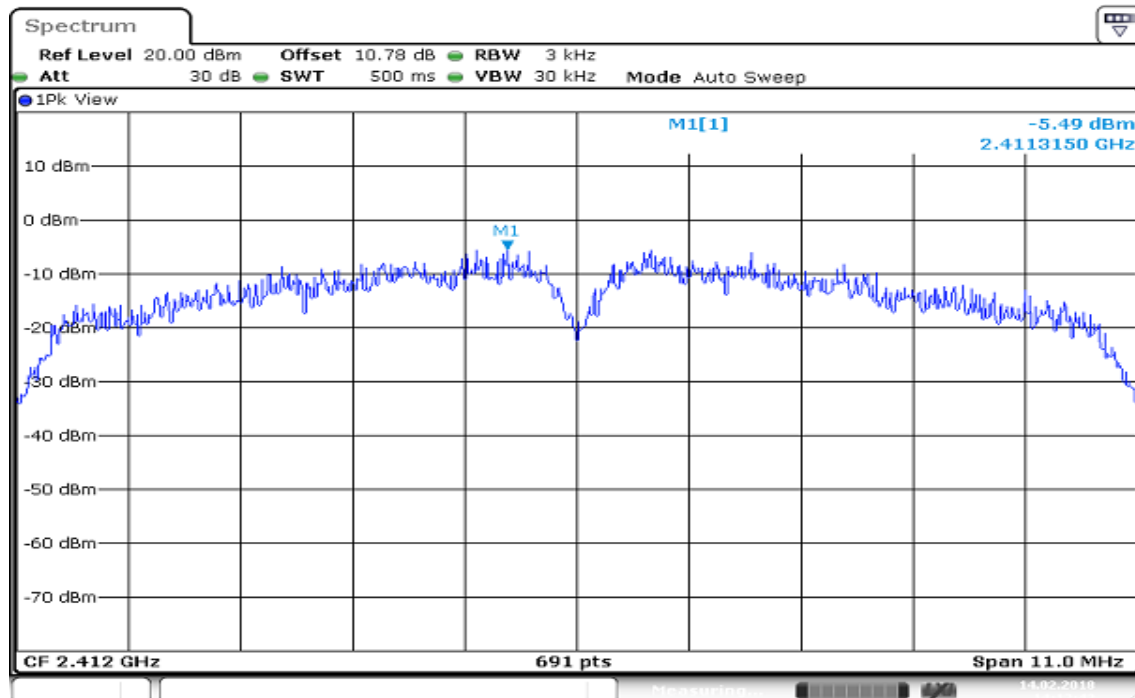
IEEE 802.11n 40MHz mode

Duty Cycle = 89.65% Duty Factor = 0.47

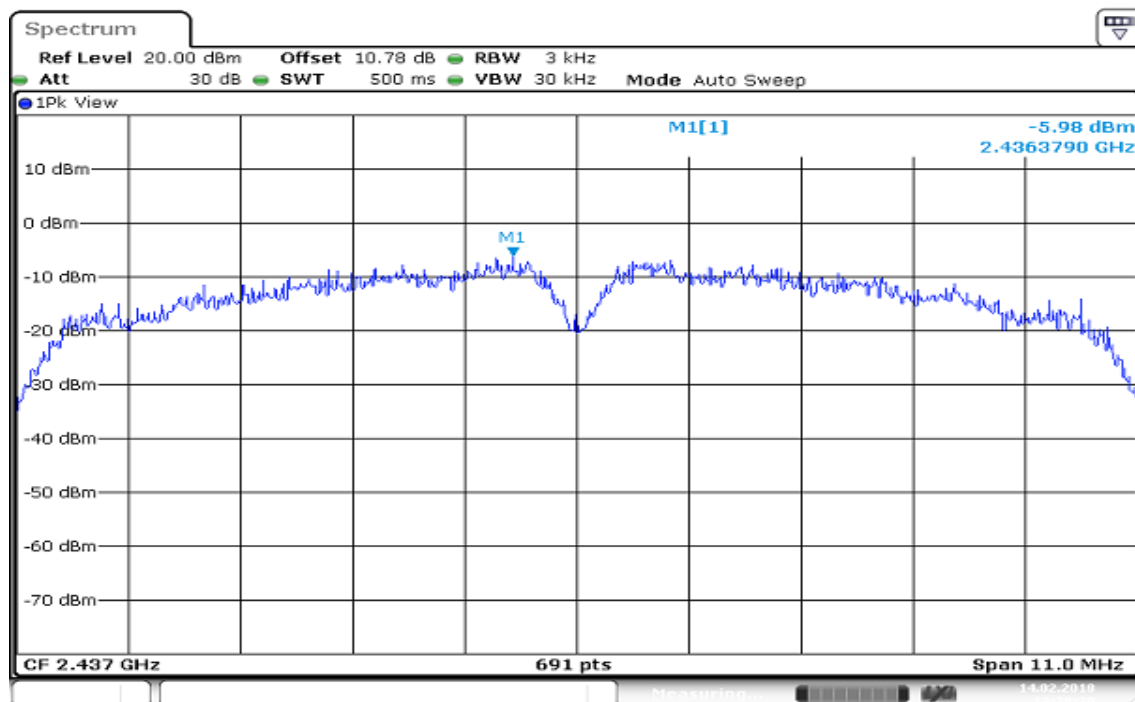
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	Chain 2 PPSD (dBm)	Total PPSD (dBm)	Limit (dBm)	Result
Low	2422	-18.60	-7.06	-19.16	-6.52	8	PASS
Mid	2437	-18.27	-19.13	-17.92	-13.64		PASS
High	2452	-18.87	-19.12	-18.45	-14.03		PASS

Remark:

1. Total PPSD (dBm) = $10 \cdot \log(10^{(\text{Chain 0 PPSD} / 10)} + 10^{(\text{Chain 1 PPSD} / 10)} + 10^{(\text{Chain 2 PPSD} / 10)})$

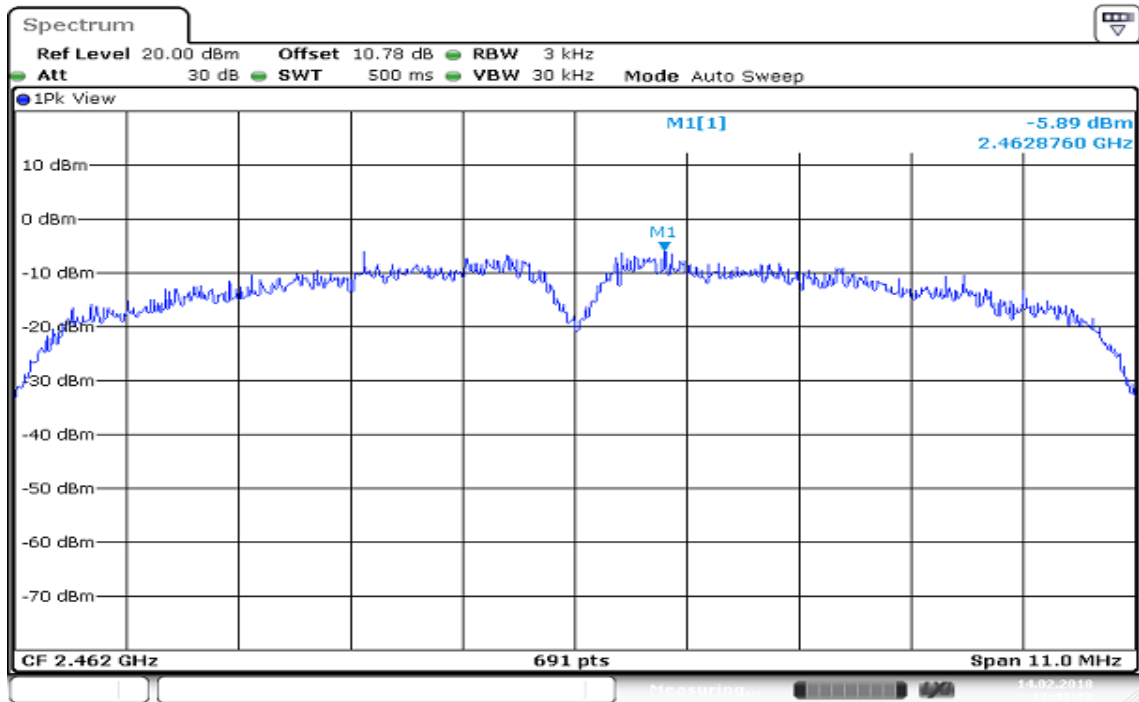
For 1TX**IEEE 802.11b mode / Chain 0****PPSD (CH Low)**

Date: 14.FEB 2018 14:12:44

PPSD (CH Mid)

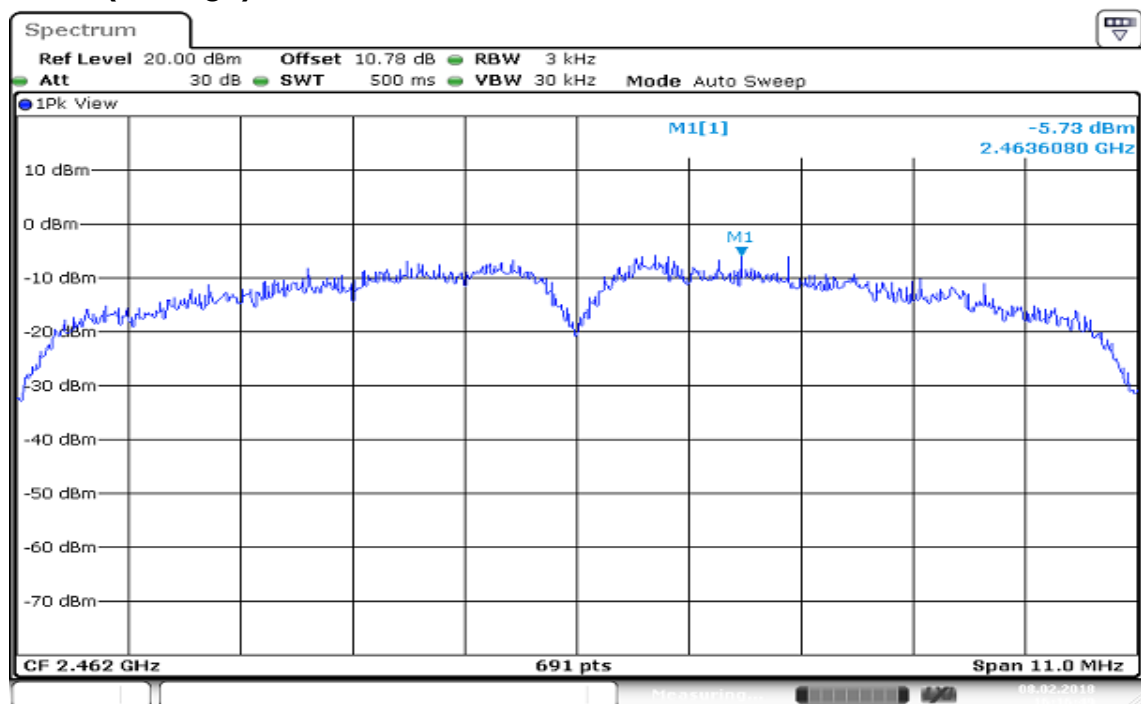
Date: 14.FEB 2018 13:29:21

PPSD (CH High)



Date: 14 FEB 2018 13:41:38

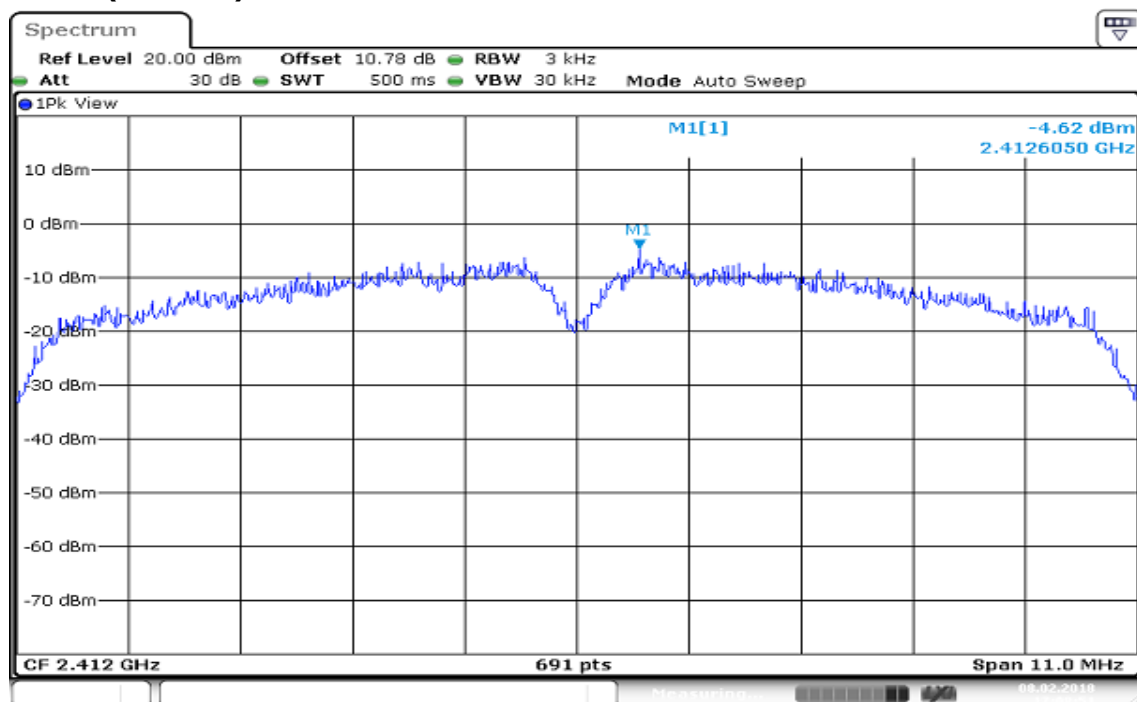
PPSD (CH High)



Date: 8 FEB 2018 16:16:50

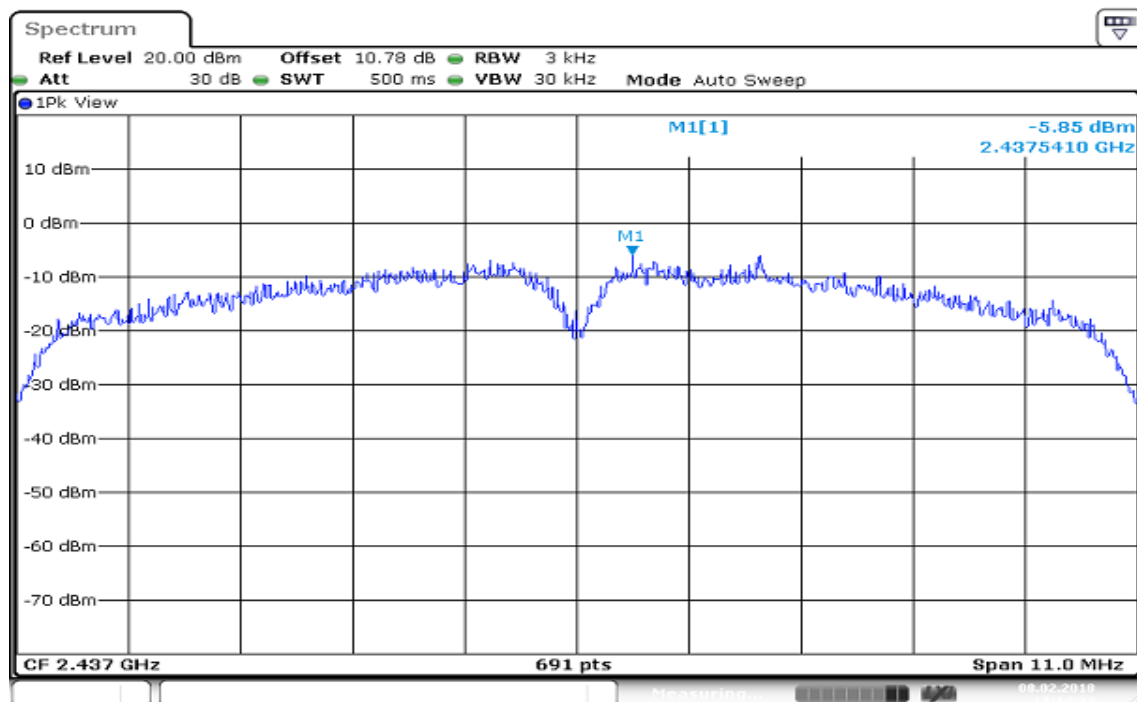
IEEE 802.11b mode / Chain 2

PPSD (CH Low)



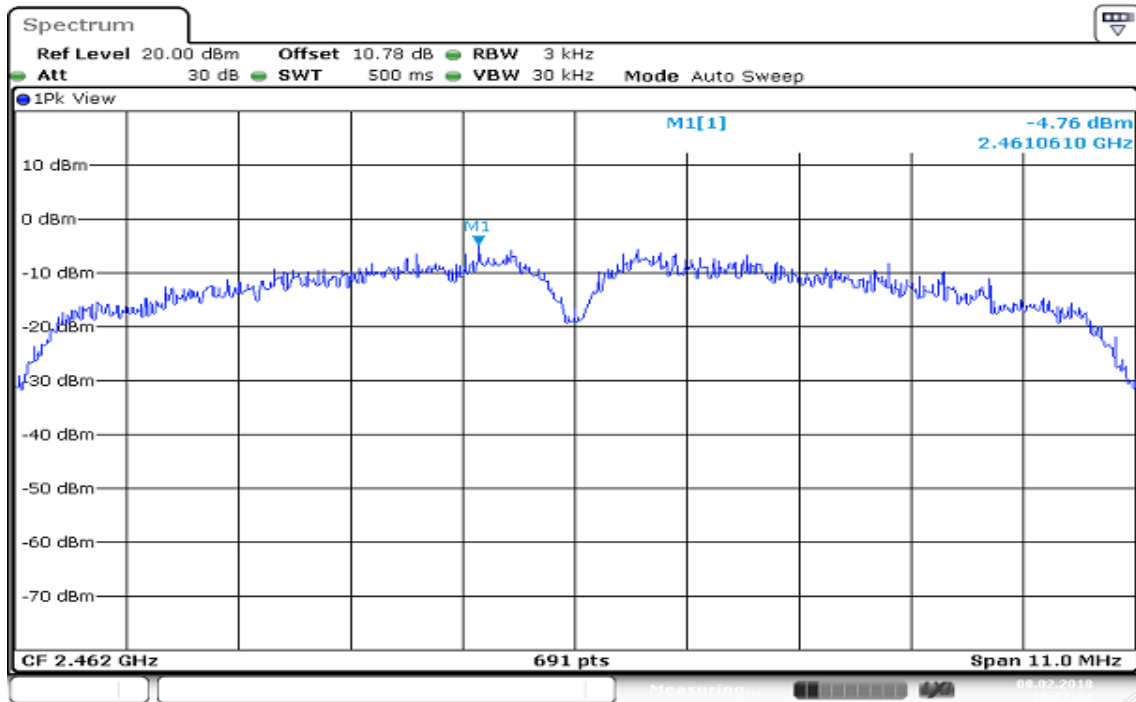
Date: 8.FEB.2018 17:08:51

PPSD (CH Mid)



Date: 8.FEB.2018 17:14:32

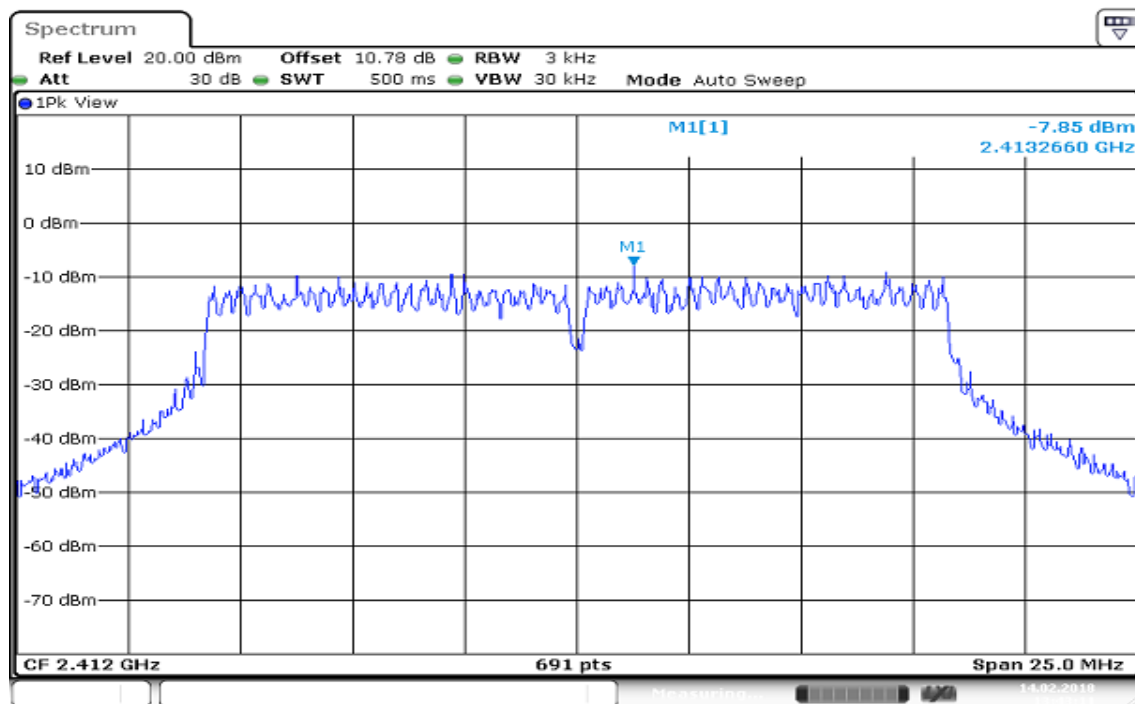
PPSD (CH High)



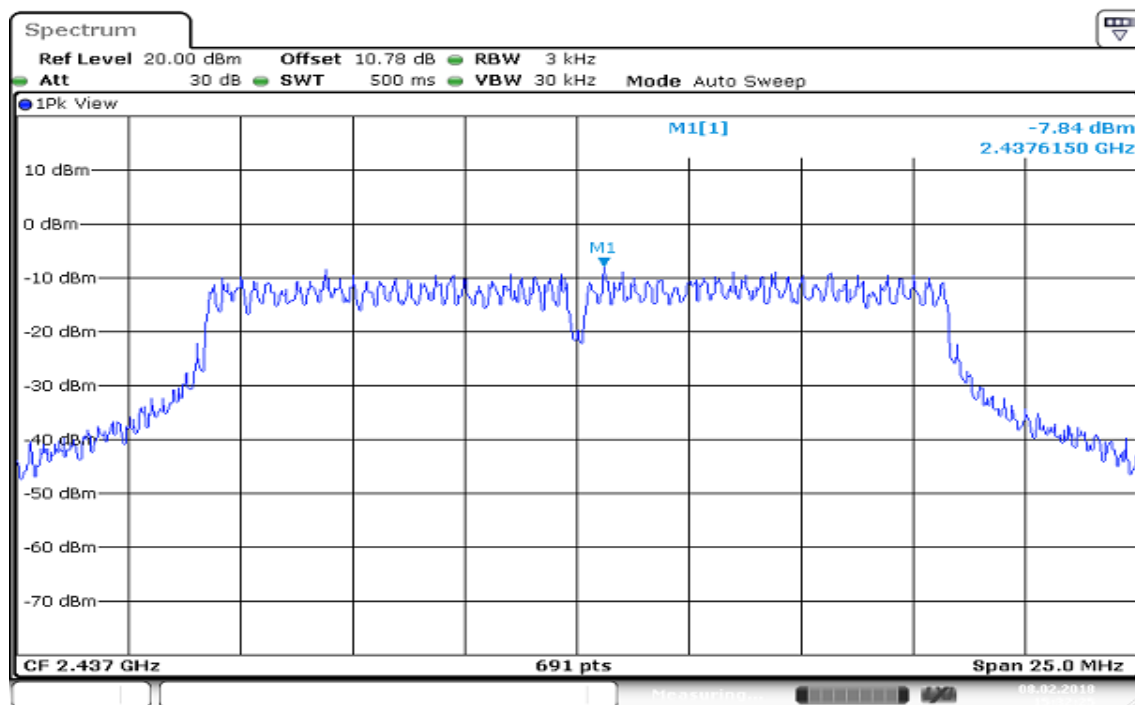
Date: 8.FEB.2018 17:17:21

IEEE 802.11g mode / Chain 0

PPSD (CH Low)

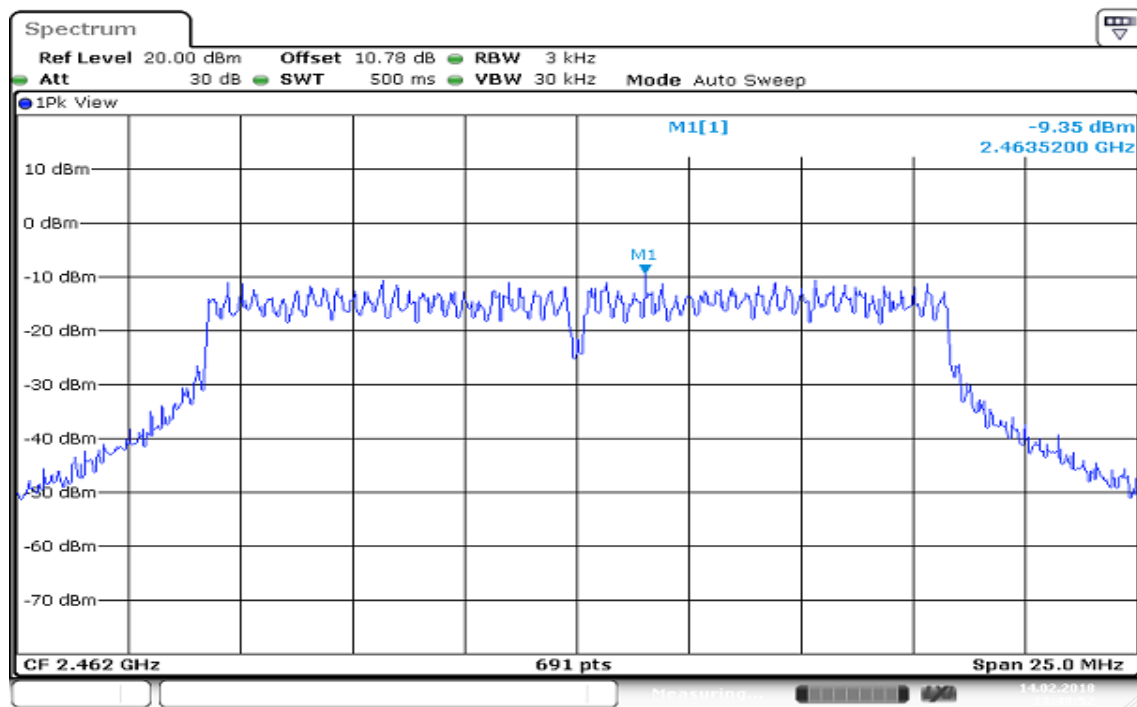


PPSD (CH Mid)



Date: 8.FEB.2018 15:22:26

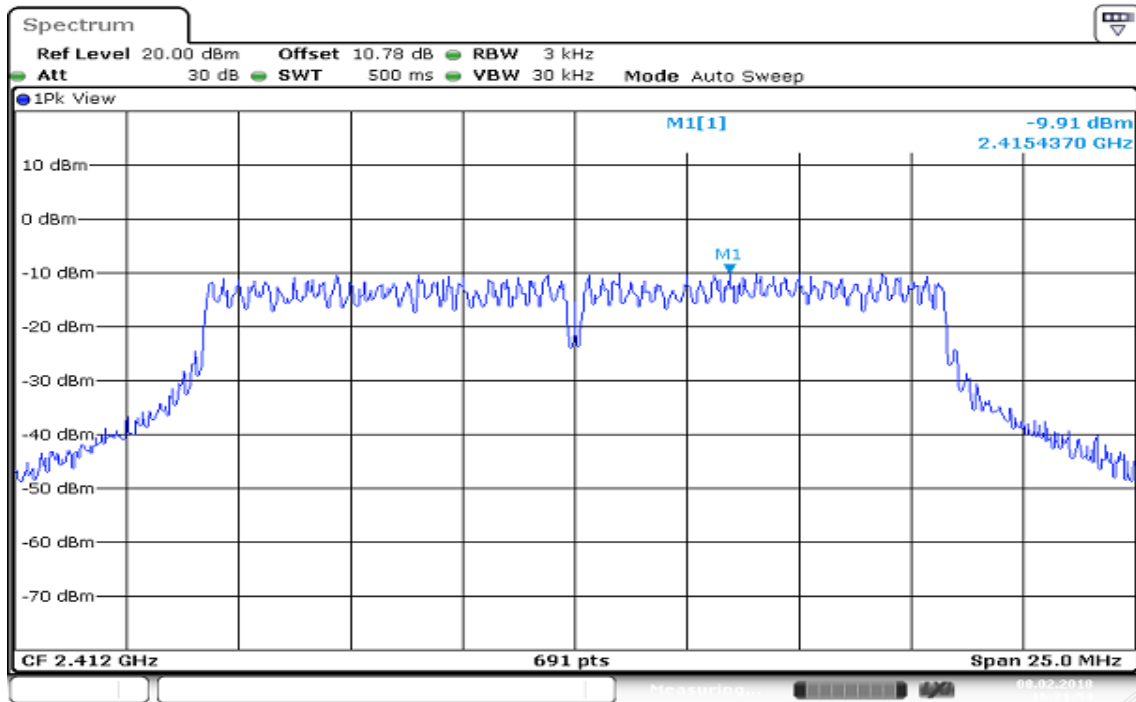
PPSD (CH High)



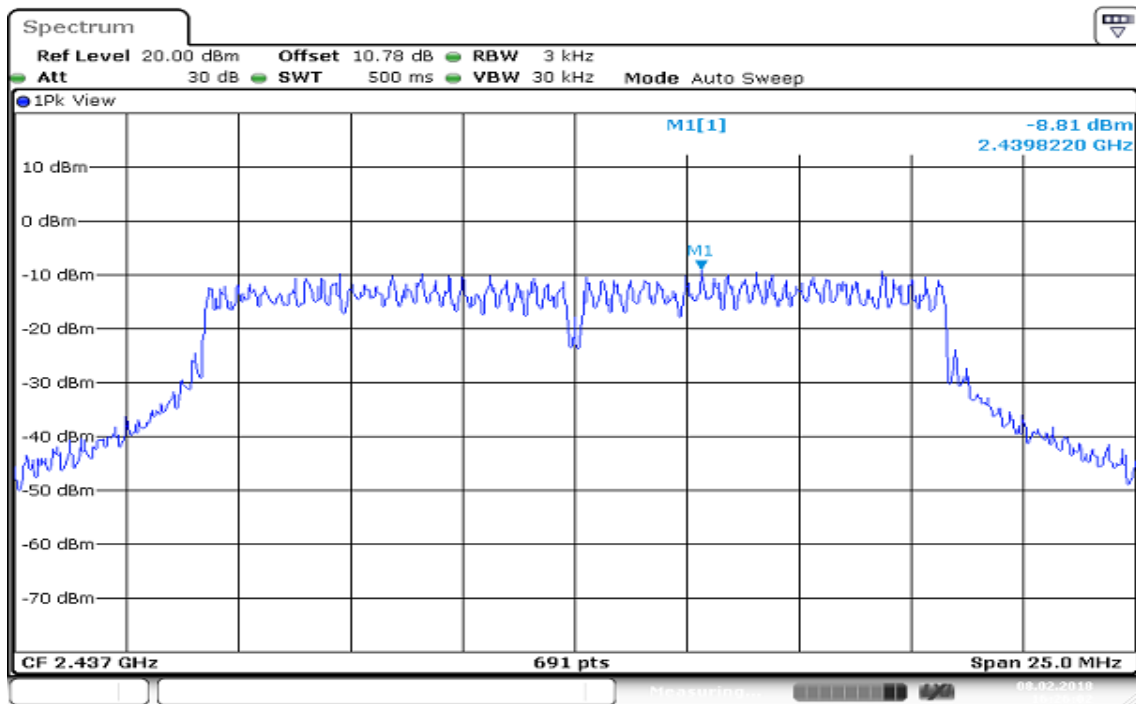
Date: 14 FEB 2018 13:49:52

IEEE 802.11g mode / Chain 1

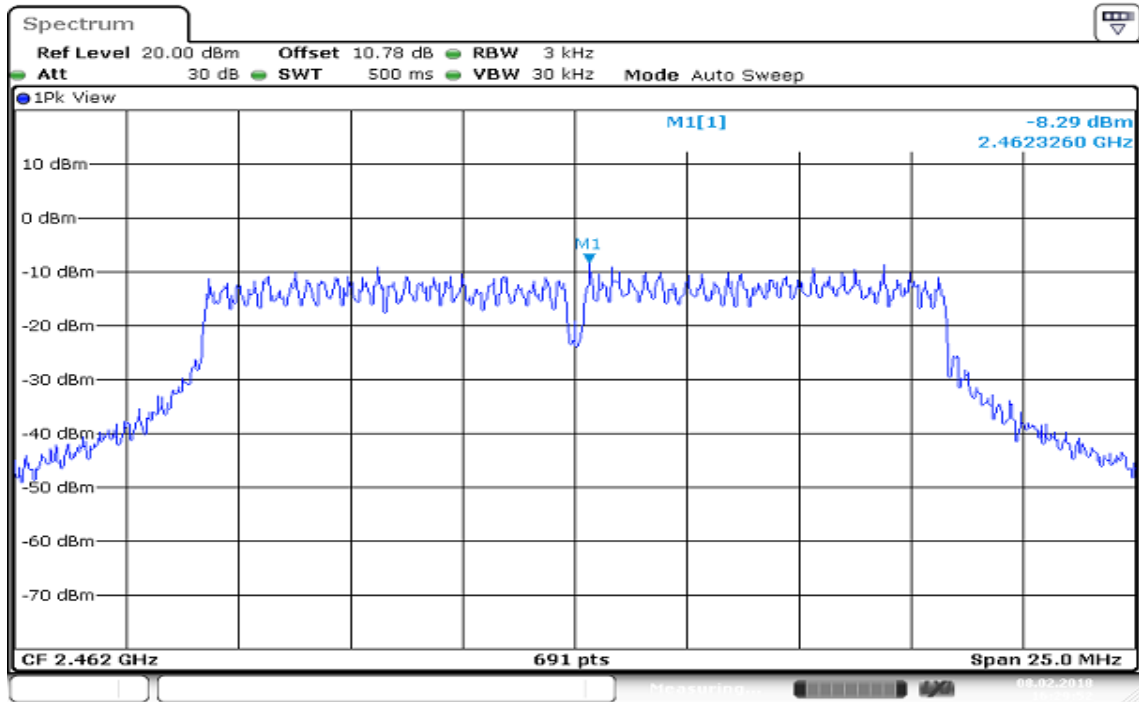
PPSD (CH Low)



PPSD (CH Mid)



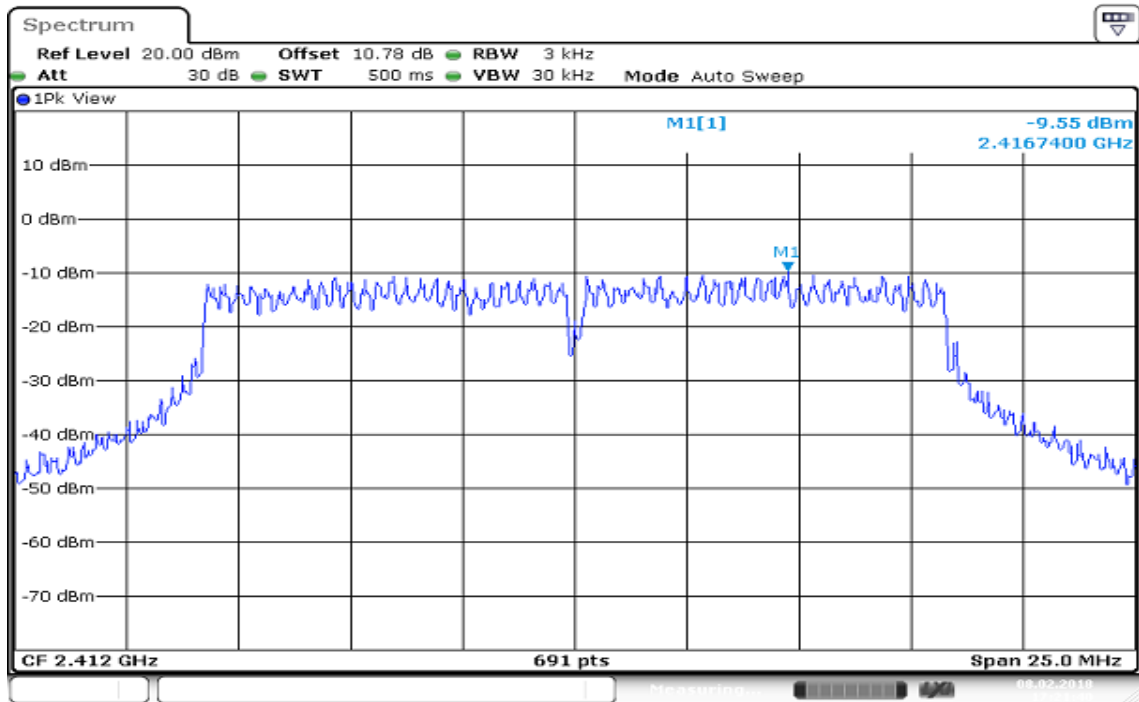
PPSD (CH High)



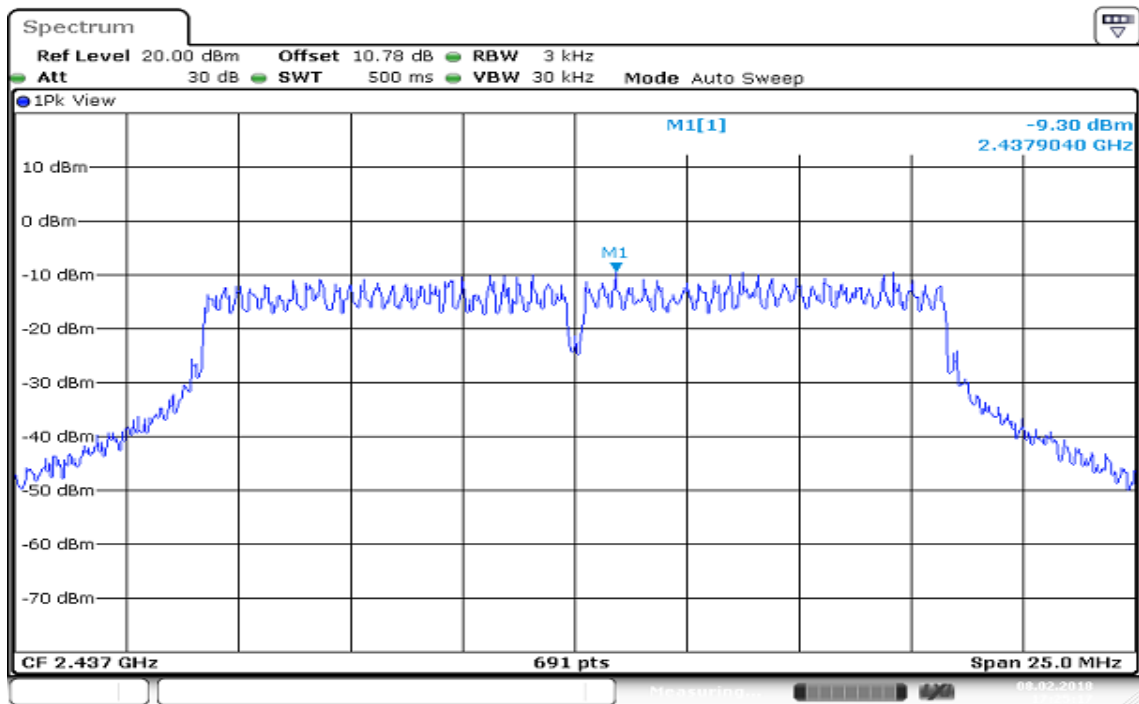
Date: 8 FEB. 2018 16:29:53

IEEE 802.11g mode / Chain 2

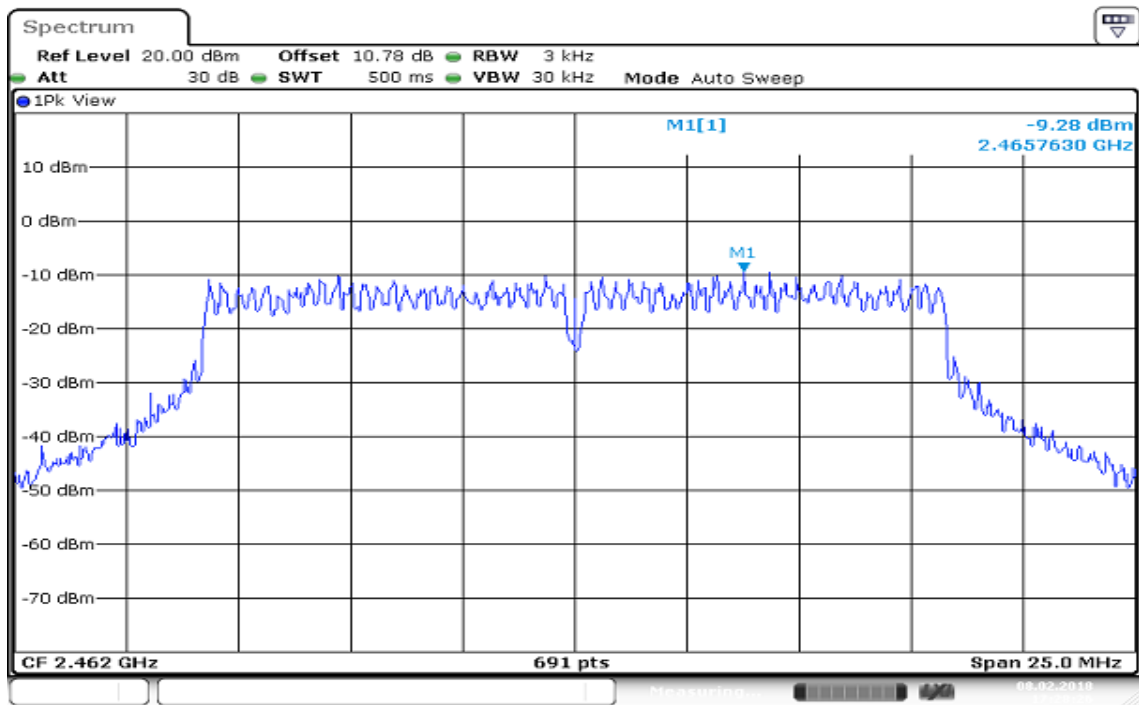
PPSD (CH Low)



PPSD (CH Mid)



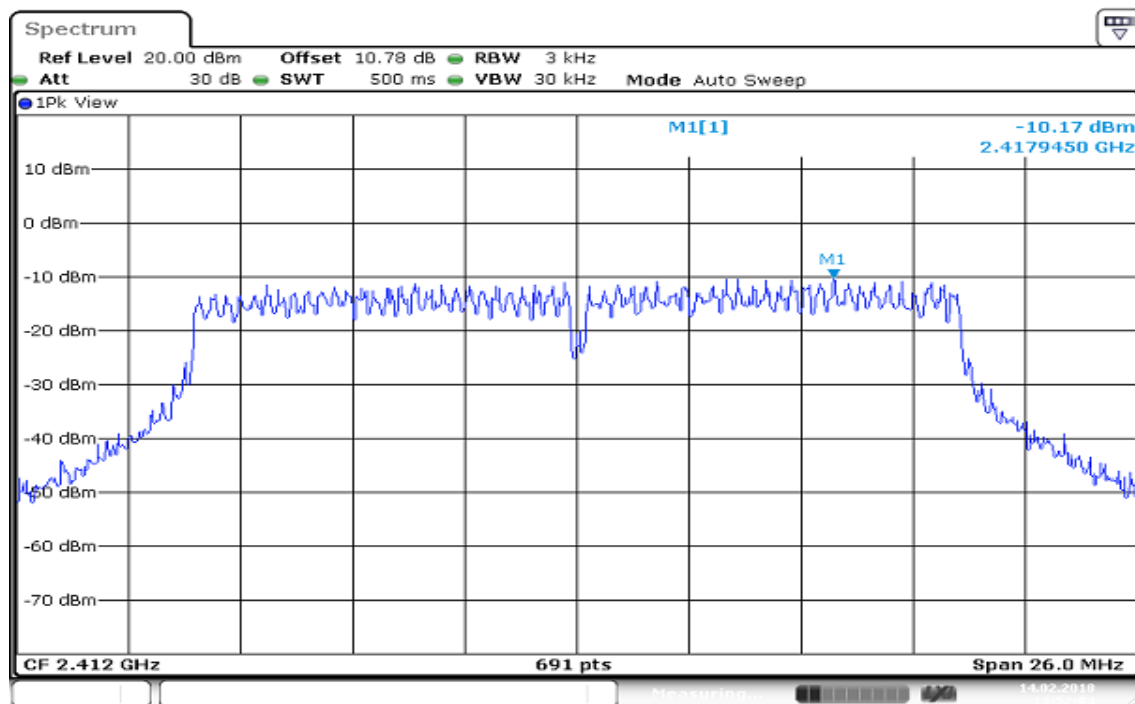
PPSD (CH High)



Date: 6 FEB 2018 17:28:26

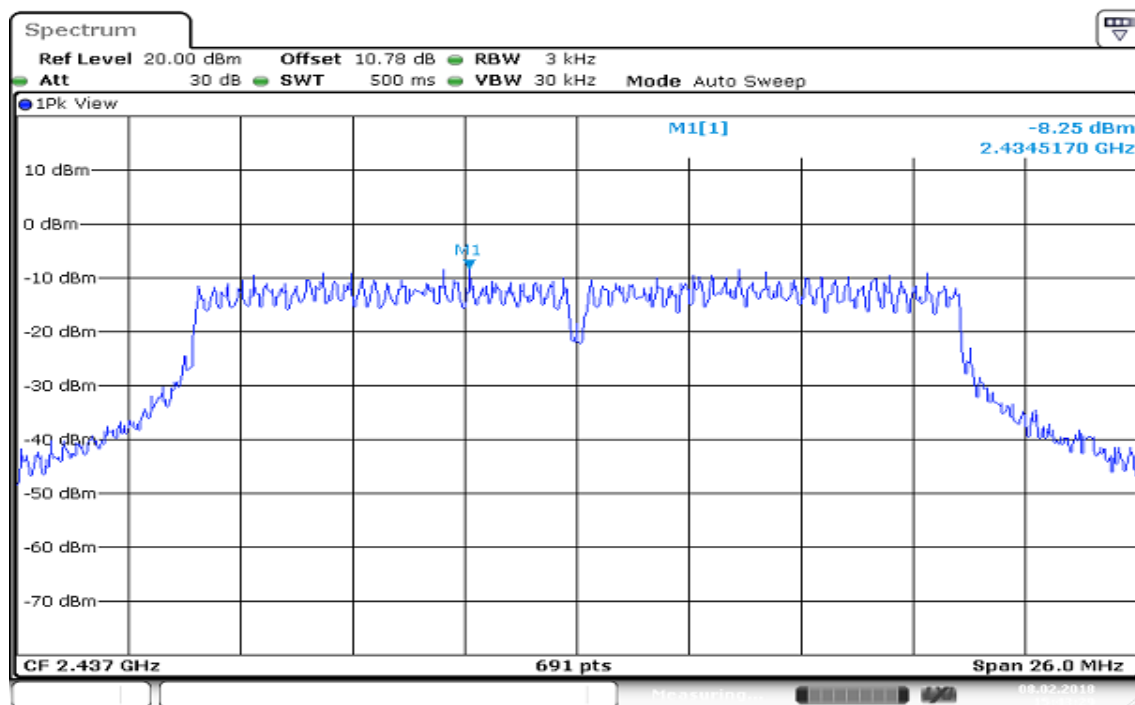
IEEE 802.11n 20MHz mode / Chain 0

PPSD (CH Low)



Date: 14.FEB.2018 13:52:05

PPSD (CH Mid)



Date: 8.FEB.2018 15:43:29

Spectrum

Ref Level 20.00 dBm Offset 10.78 dB RBW 3 kHz
 Att 30 dB SWT 500 ms VBW 30 kHz Mode Auto Sweep

1Pk View

M1[1] -11.26 dBm
 2.4654620 GHz

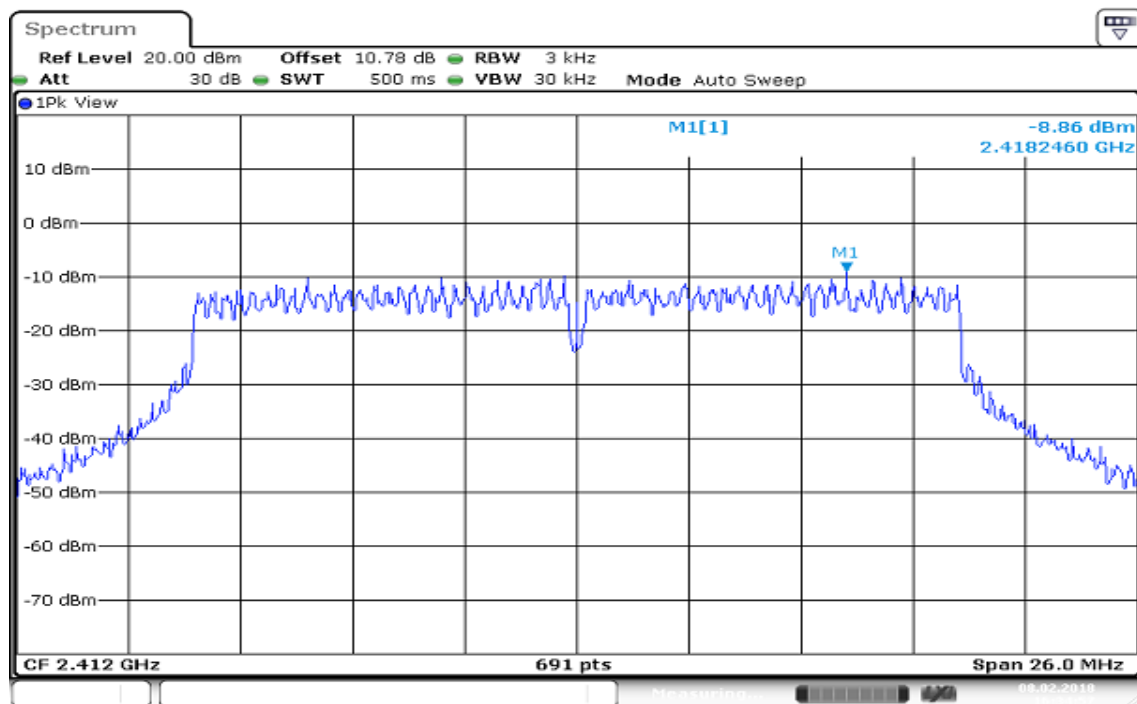
10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm
 -70 dBm

CF 2.462 GHz 691 pts Span 26.0 MHz

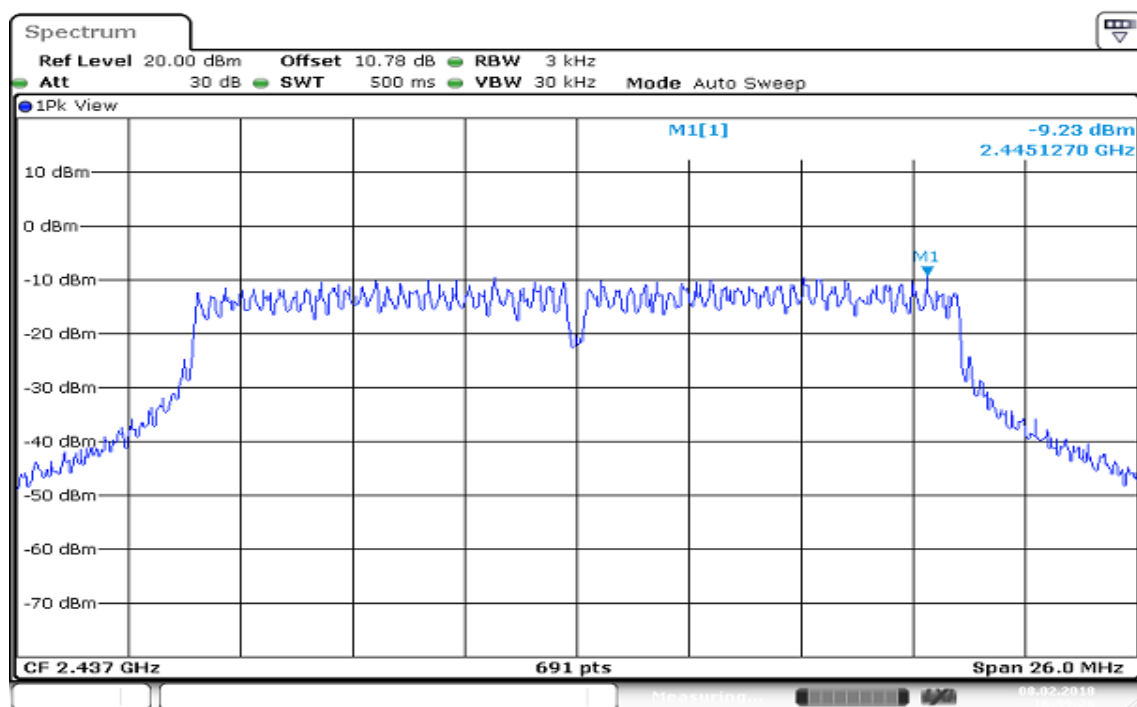
Date: 14 FEB 2018 13:53:15

IEEE 802.11n 20MHz mode / Chain 1

PPSD (CH Low)



PPSD (CH Mid)



Spectrum

Ref Level 20.00 dBm Offset 10.78 dB RBW 3 kHz
Att 30 dB SWT 500 ms VBW 30 kHz Mode Auto Sweep

1Pk View

M1[1] -9.97 dBm
2.4663650 GHz

M1

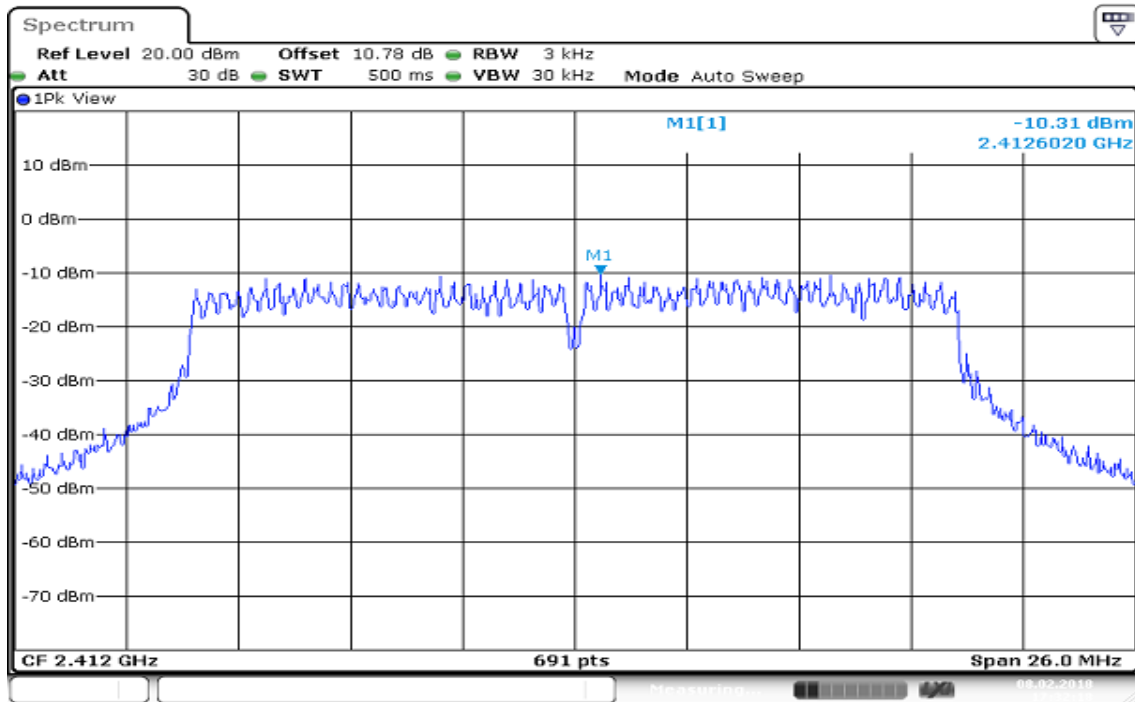
CF 2.462 GHz 691 pts Span 26.0 MHz

The image shows a spectrum analyzer interface. At the top, the title 'Spectrum' is in a box. Below it, measurement parameters are listed: 'Ref Level 20.00 dBm', 'Offset 10.78 dB', 'RBW 3 kHz', 'Att 30 dB', 'SWT 500 ms', 'VBW 30 kHz', and 'Mode Auto Sweep'. The main display area is titled '1Pk View' and shows a blue trace on a grid. The vertical axis is labeled from -70 dBm to 10 dBm in 10 dB increments. The horizontal axis is labeled with 'CF 2.462 GHz', '691 pts', and 'Span 26.0 MHz'. A peak is identified with a blue arrow and the label 'M1'. Above the peak, the text 'M1[1] -9.97 dBm' and '2.4663650 GHz' is displayed. The trace shows a signal that rises from a noise floor of about -40 dBm to a peak of -9.97 dBm and then falls back to the noise floor.

Date: 8 FEB.2018 16:42:23

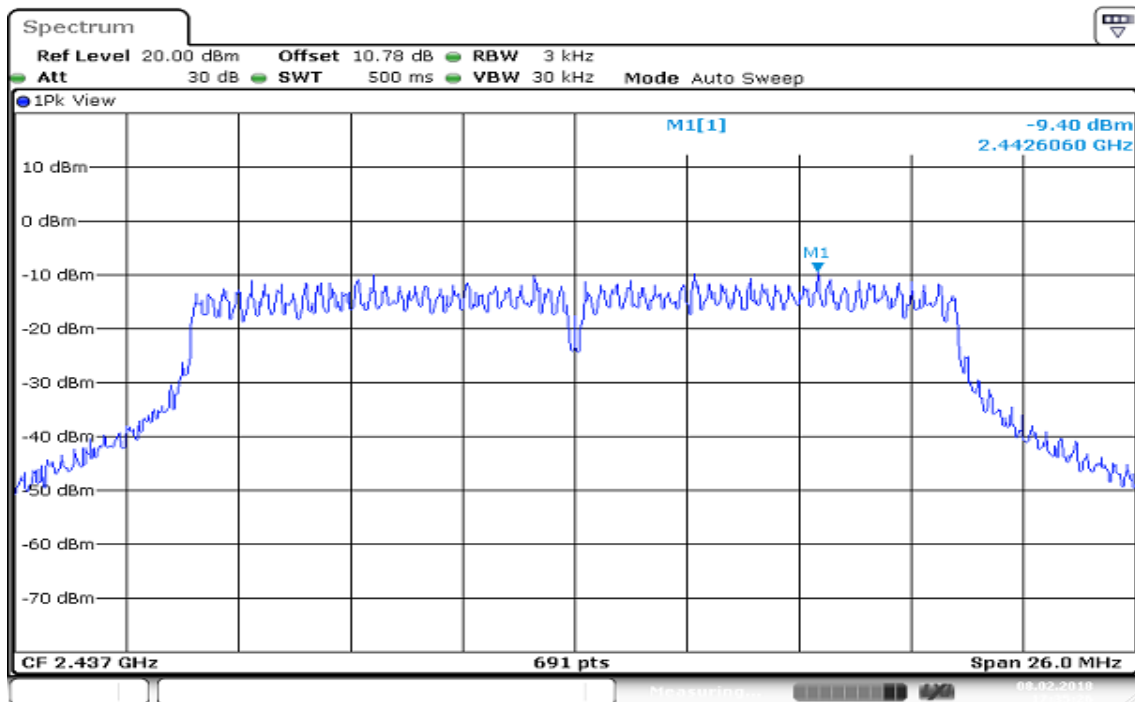
IEEE 802.11n 20MHz mode / Chain 2

PPSD (CH Low)



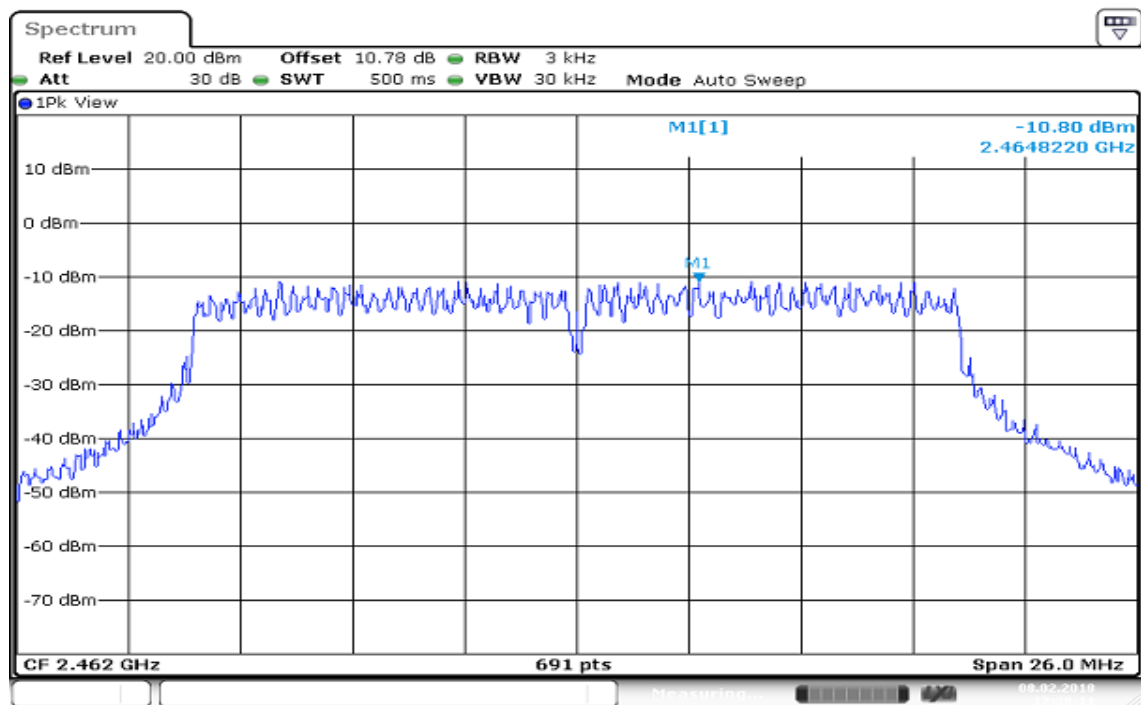
Date: 8.FEB.2018 17:32:18

PPSD (CH Mid)



Date: 8.FEB.2018 17:35:27

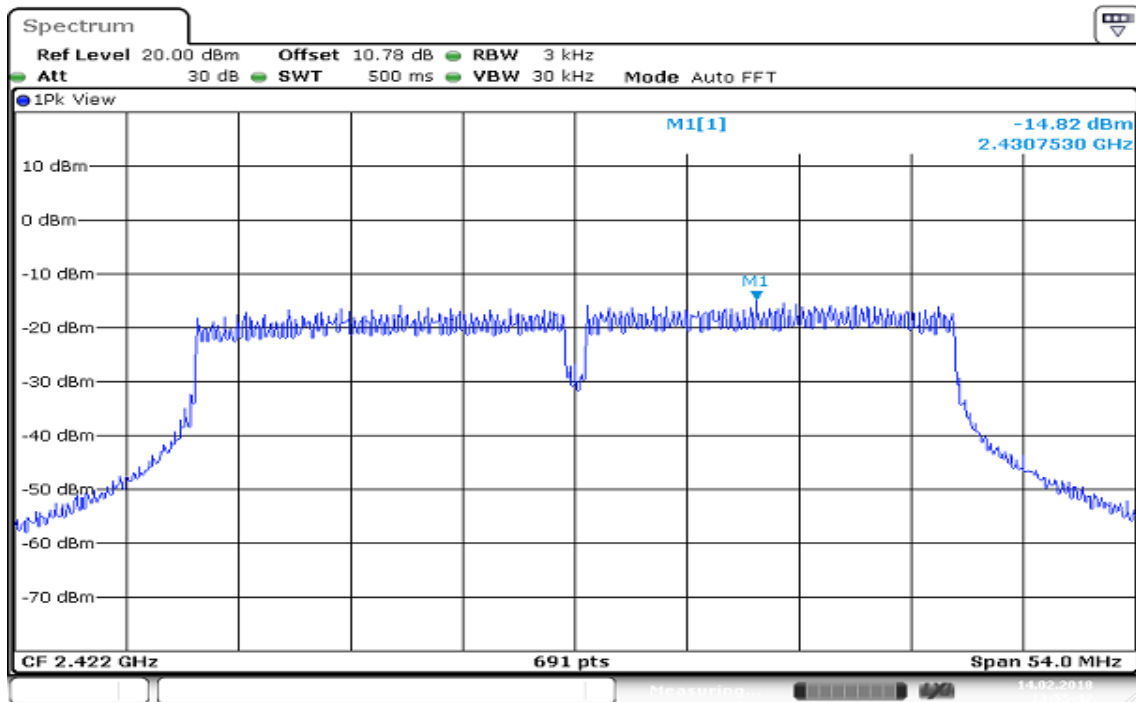
PPSD (CH High)



Date: 6 FEB 2018 17:38:11

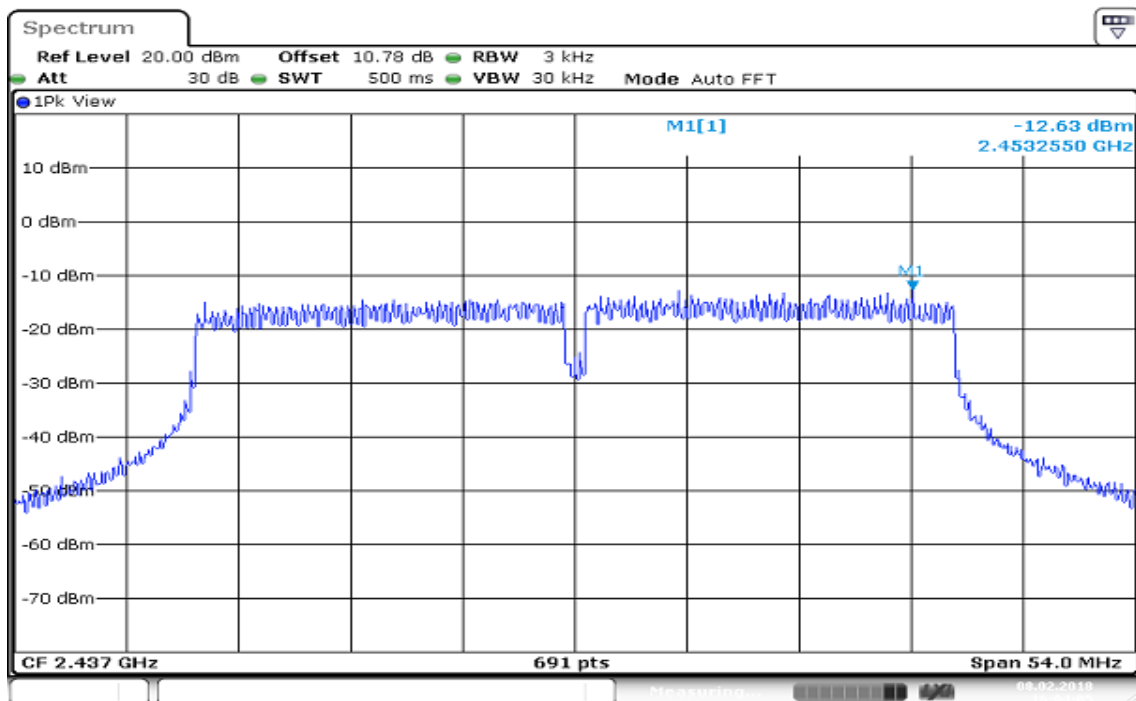
IEEE 802.11n 40MHz mode / Chain 0

PPSD (CH Low)



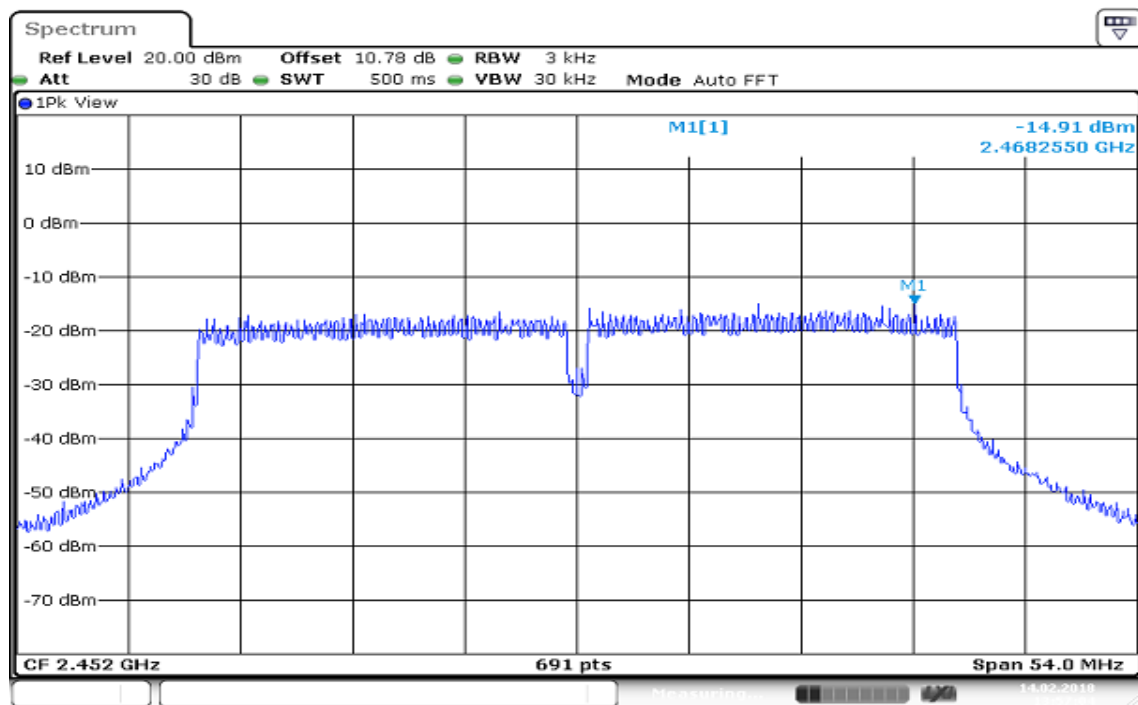
Date: 14.FEB.2018 13:55:42

PPSD (CH Mid)



Date: 8.FEB.2018 16:04:05

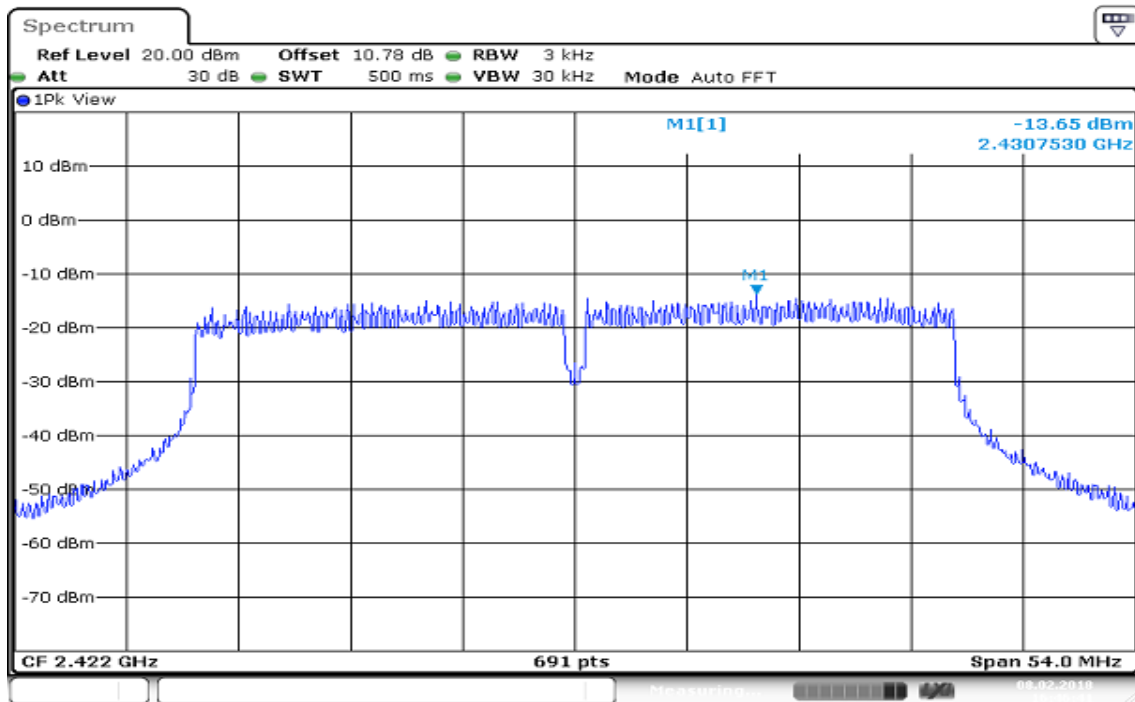
PPSD (CH High)



Date: 14 FEB 2018 13:57:04

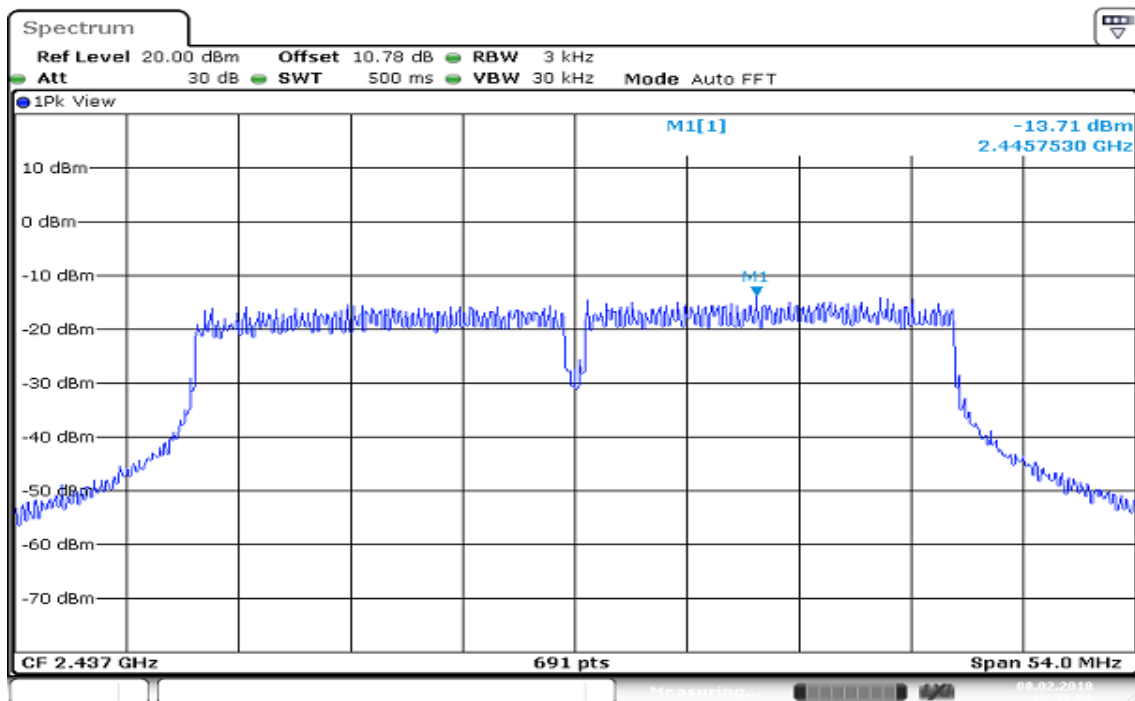
IEEE 802.11n 40MHz mode / Chain 1

PPSD (CH Low)



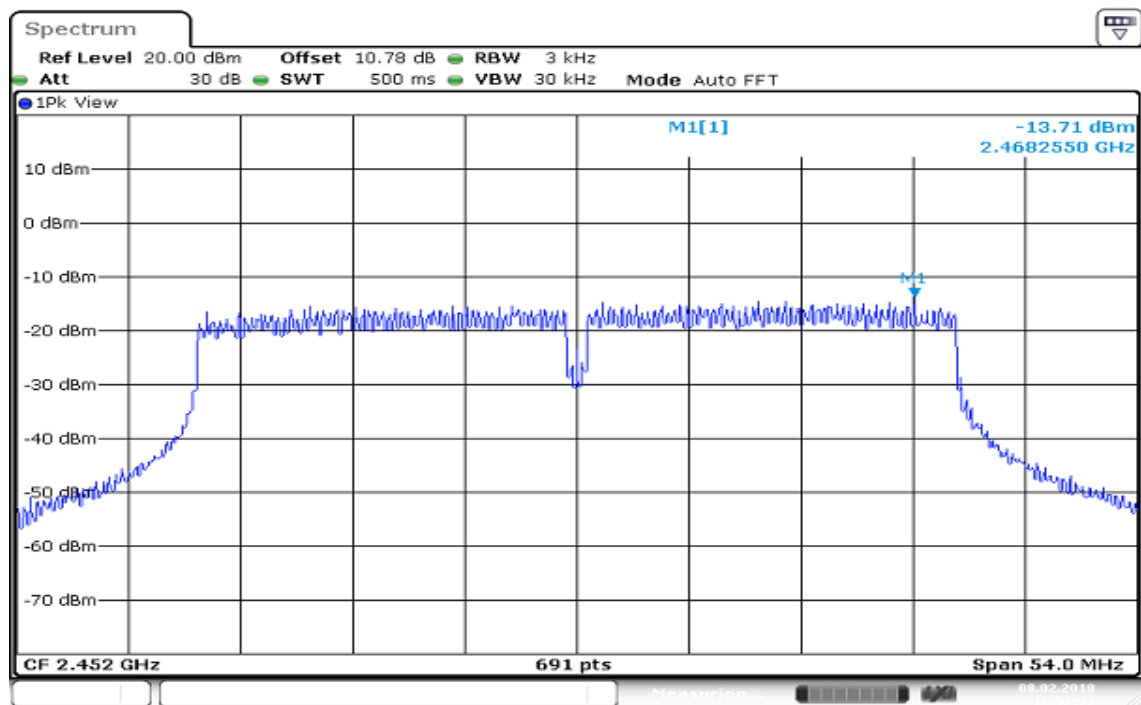
Date: 8.FEB.2018 16:46:41

PPSD (CH Mid)



Date: 8.FEB.2018 16:51:56

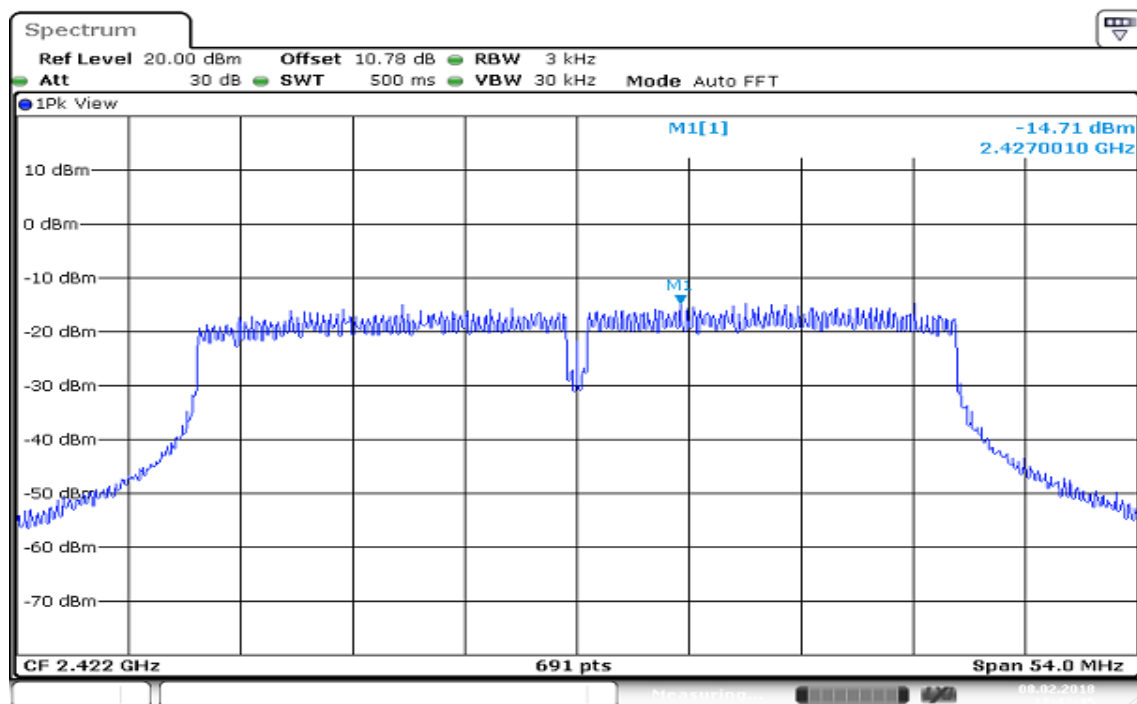
PPSD (CH High)



Date: 8 FEB 2018 16:57:52

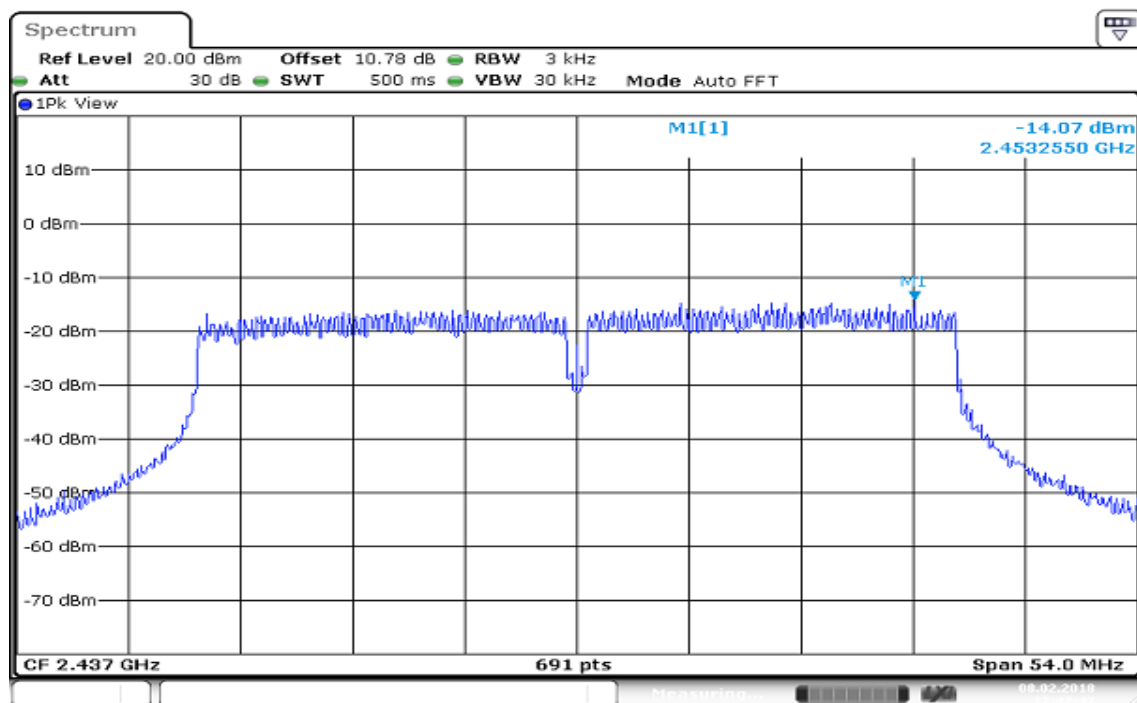
IEEE 802.11n 40MHz mode / Chain 2

PPSD (CH Low)



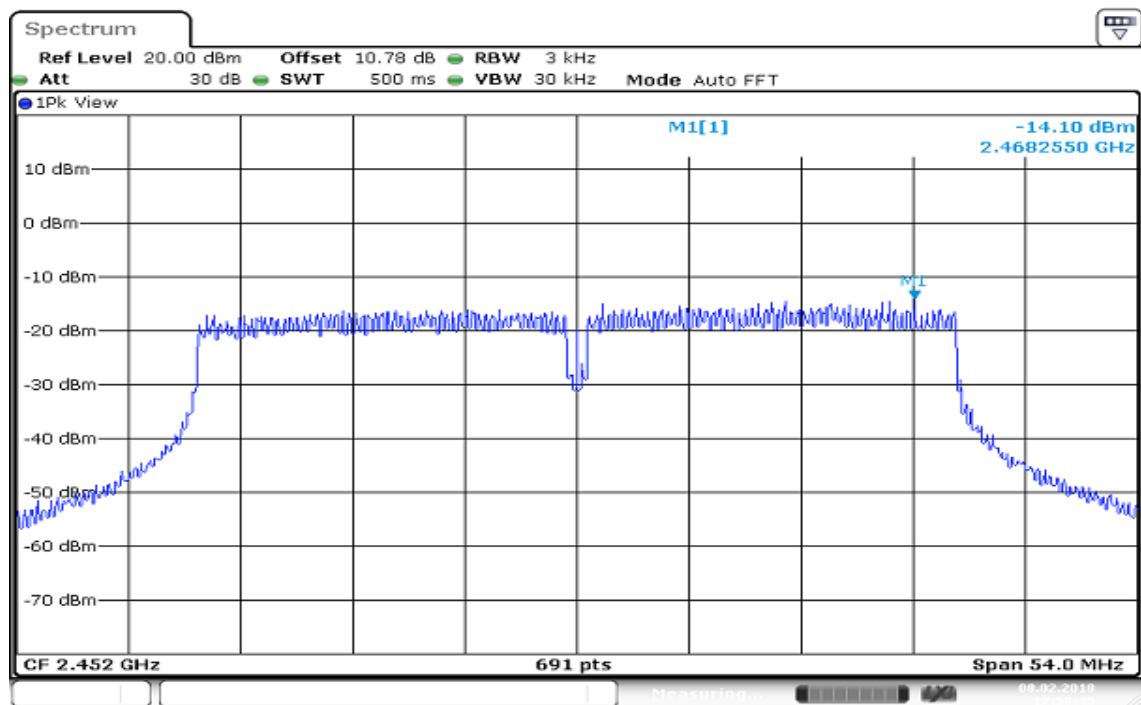
Date: 8.FEB.2018 17:42:46

PPSD (CH Mid)

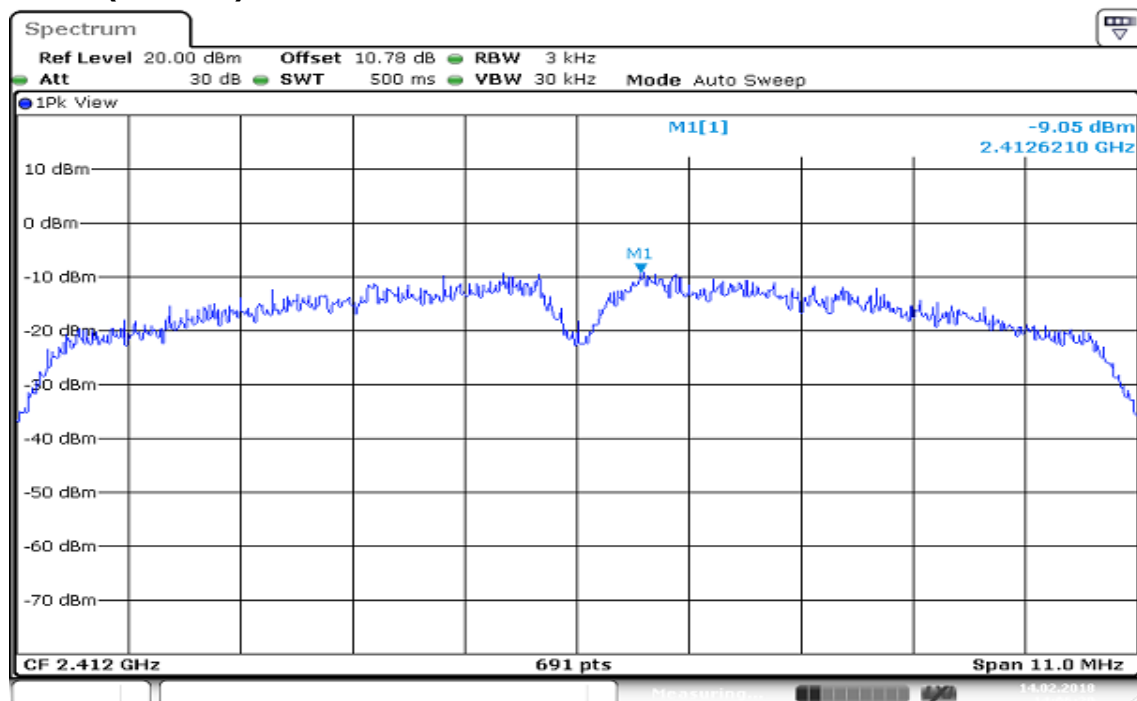


Date: 8.FEB.2018 17:47:47

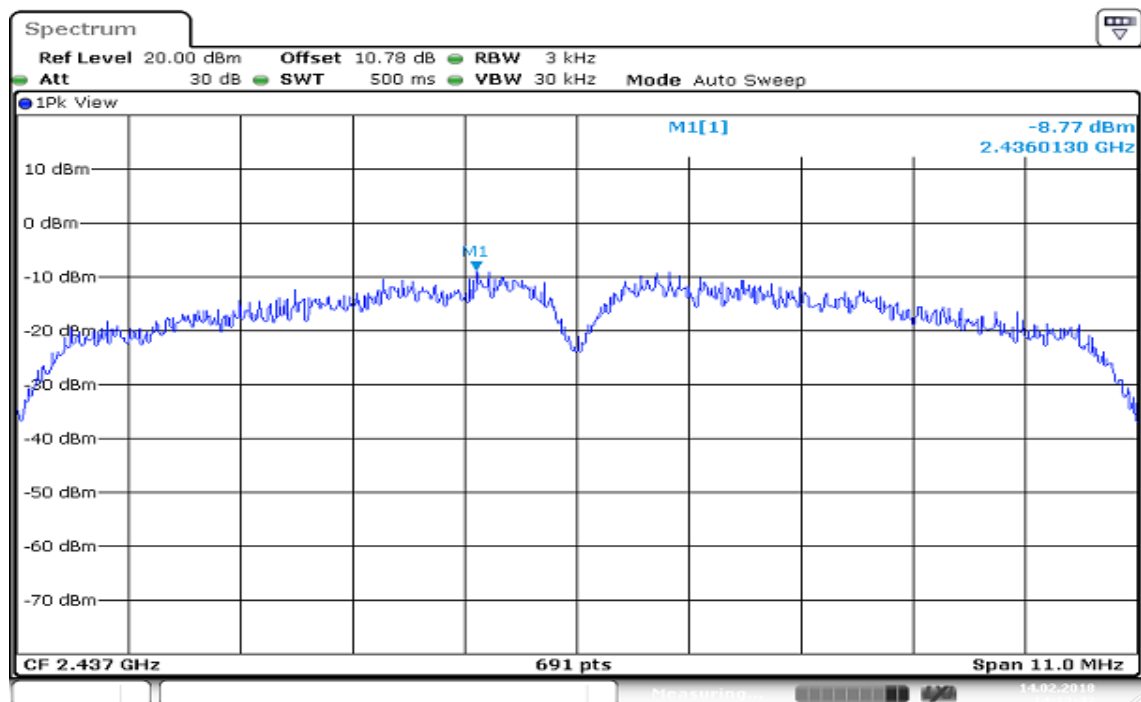
PPSD (CH High)



Date: 8 FEB 2018 17:50:45

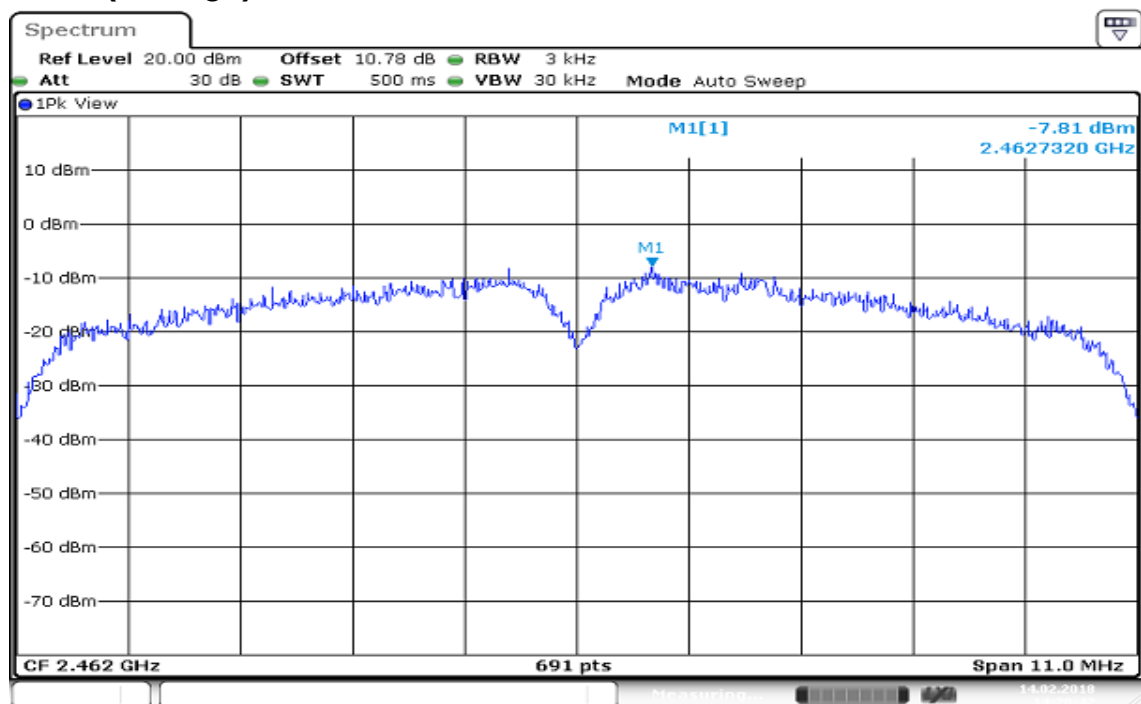
For 2TX**IEEE 802.11b mode / Chain 0****PPSD (CH Low)**

Date: 14.FEB 2018 14:06:29

PPSD (CH Mid)

Date: 14.FEB 2018 14:13:42

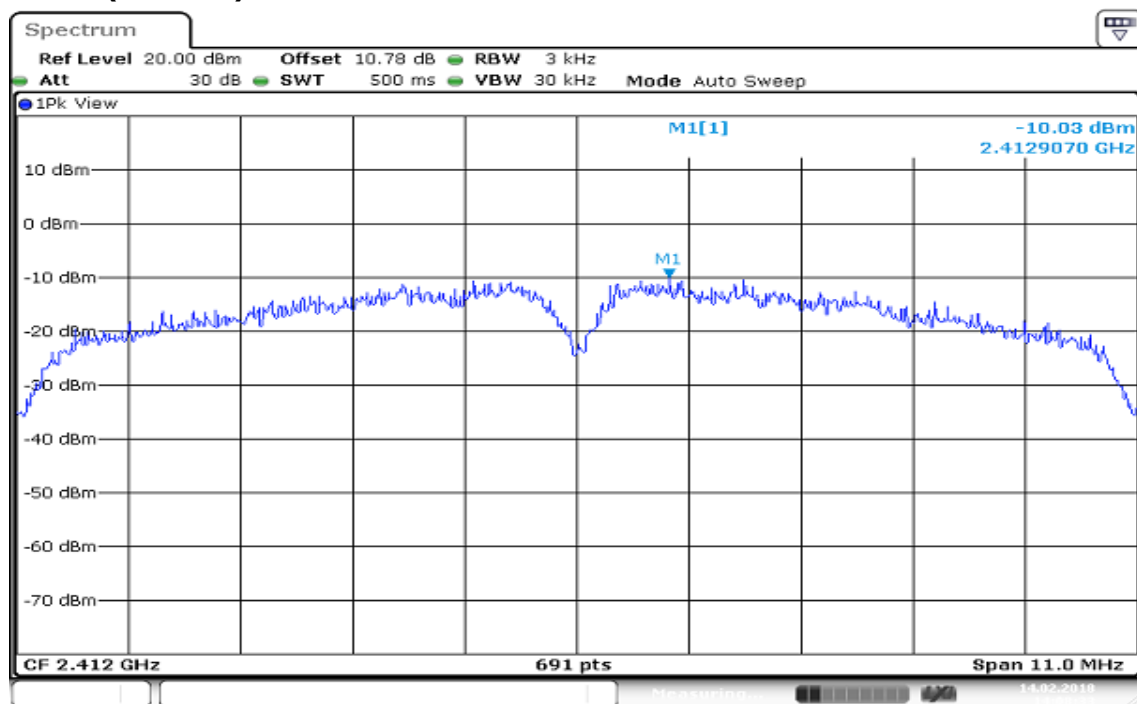
PPSD (CH High)



Date: 14 FEB 2018 14:20:42

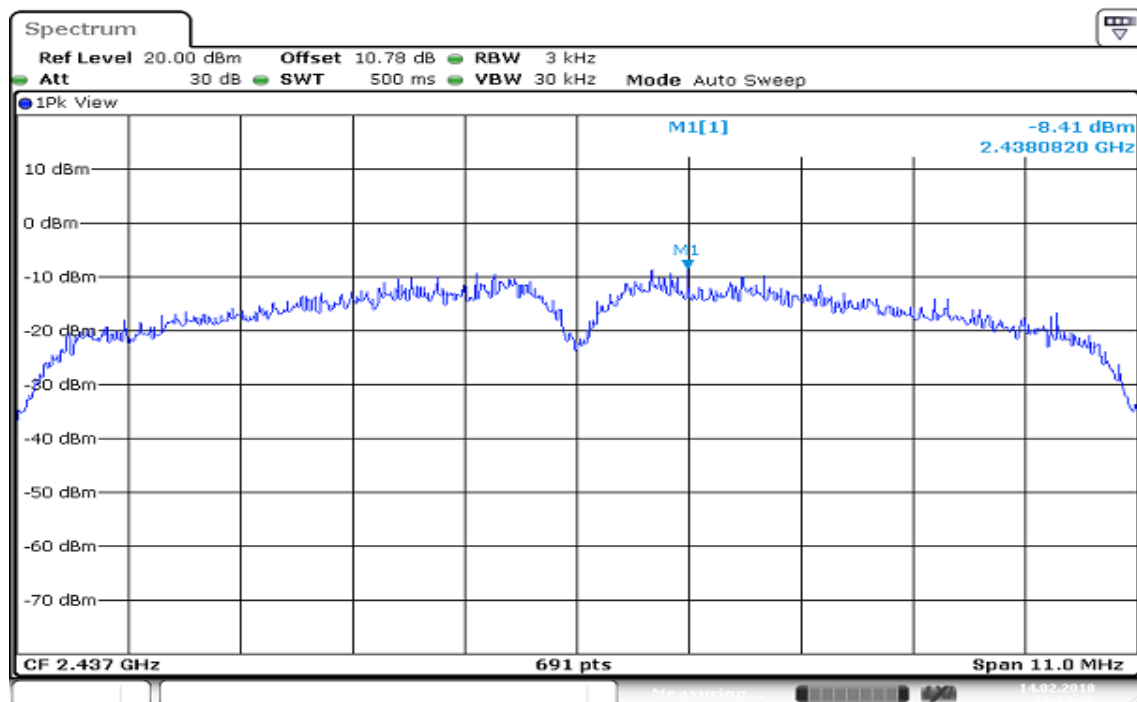
IEEE 802.11b mode / Chain 1

PPSD (CH Low)



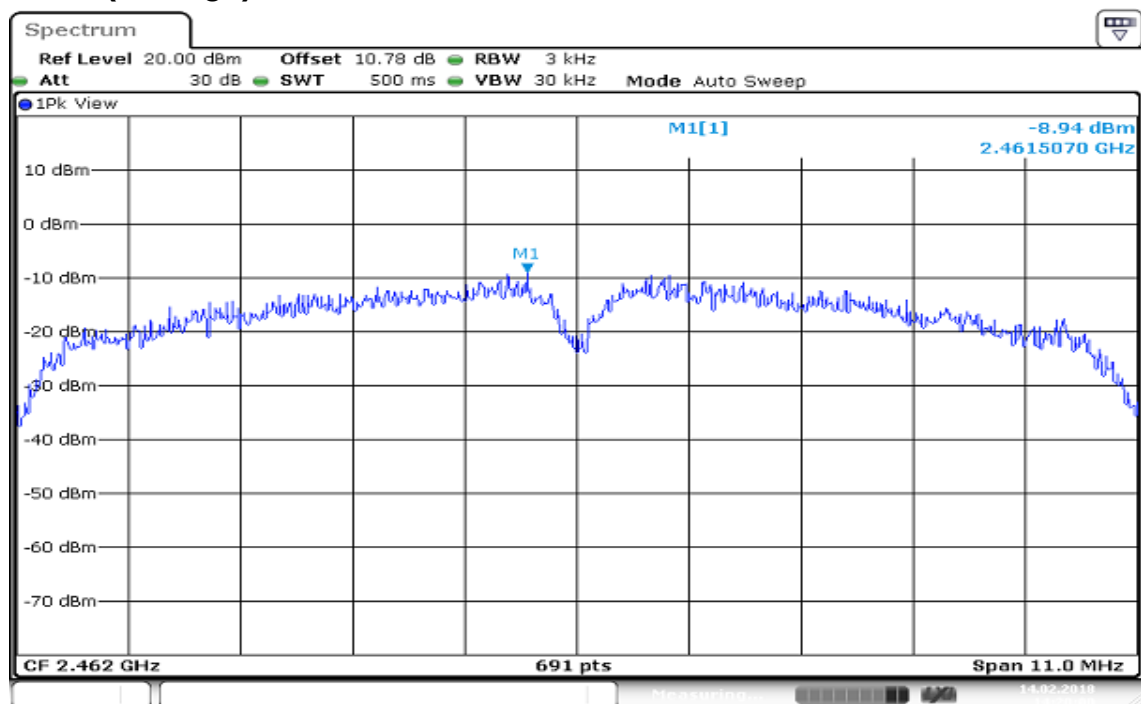
Date: 14.FEB.2018 14:08:24

PPSD (CH Mid)



Date: 14.FEB.2018 14:14:26

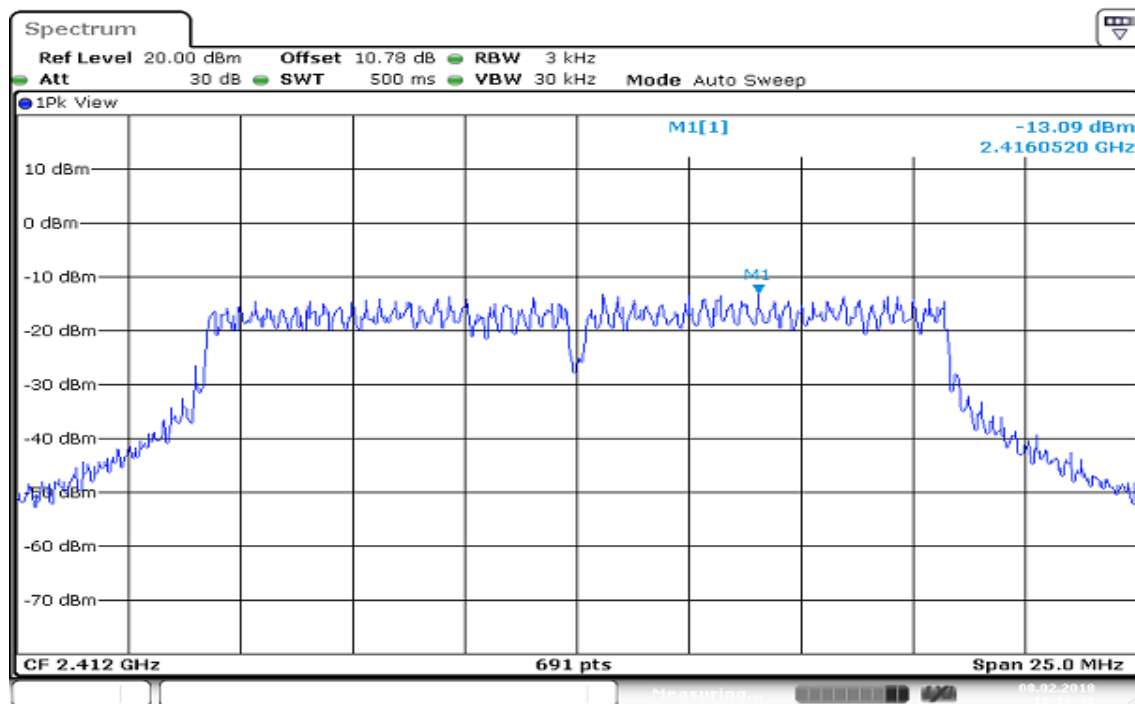
PPSD (CH High)



Date: 14 FEB 2018 14:20:01

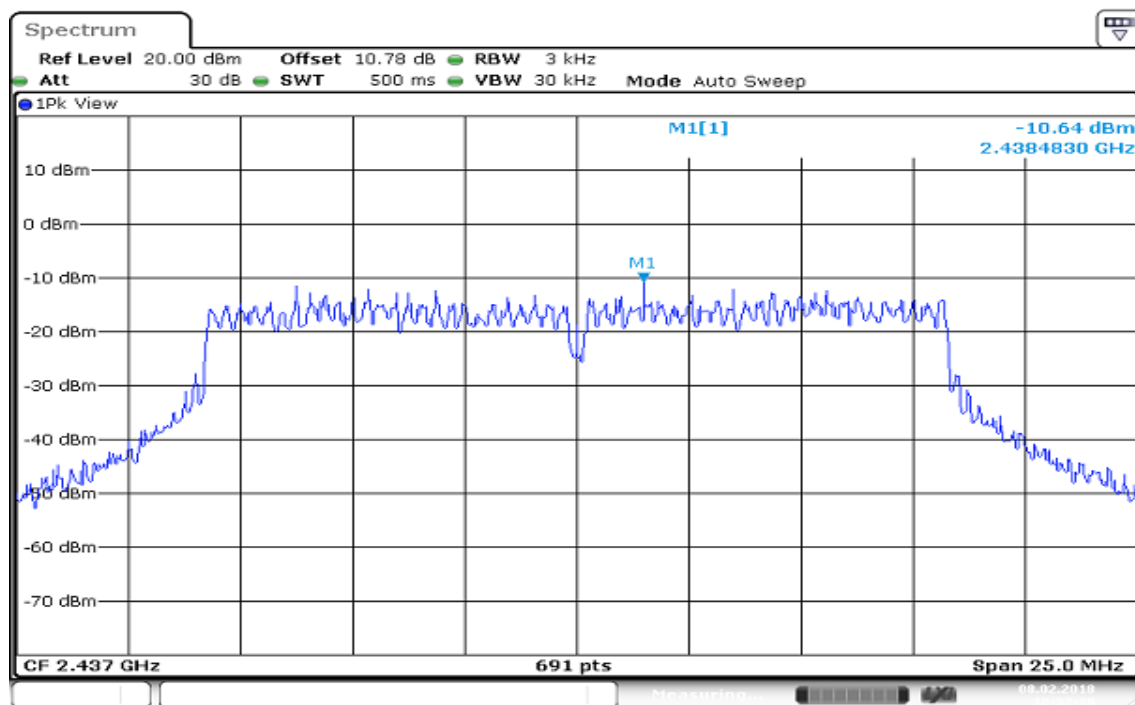
IEEE 802.11g mode / Chain 0

PPSD (CH Low)



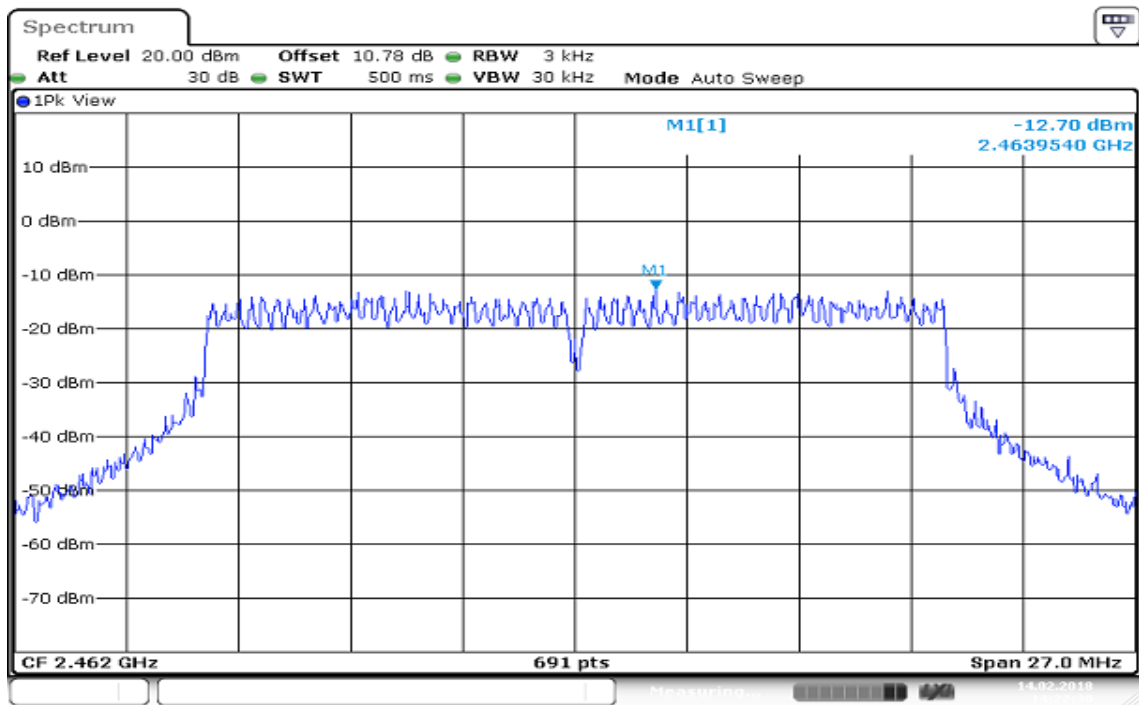
Date: 8.FEB.2018 18:19:32

PPSD (CH Mid)



Date: 8.FEB.2018 18:32:40

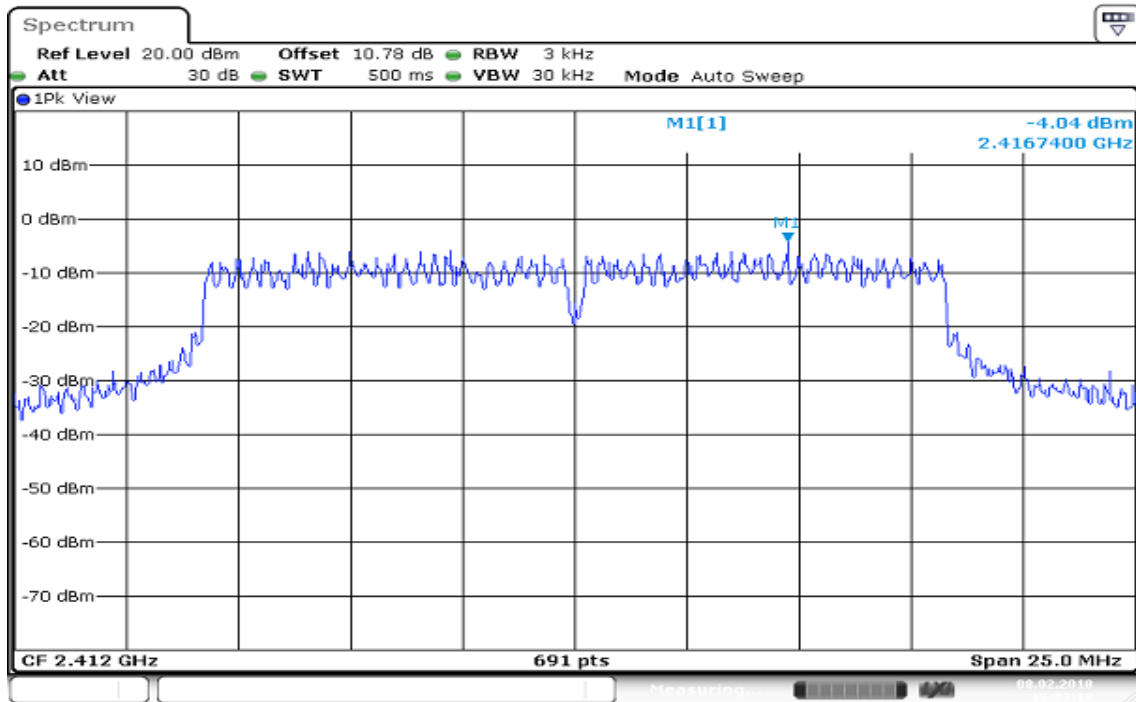
PPSD (CH High)



Date: 14 FEB 2018 14:22:31

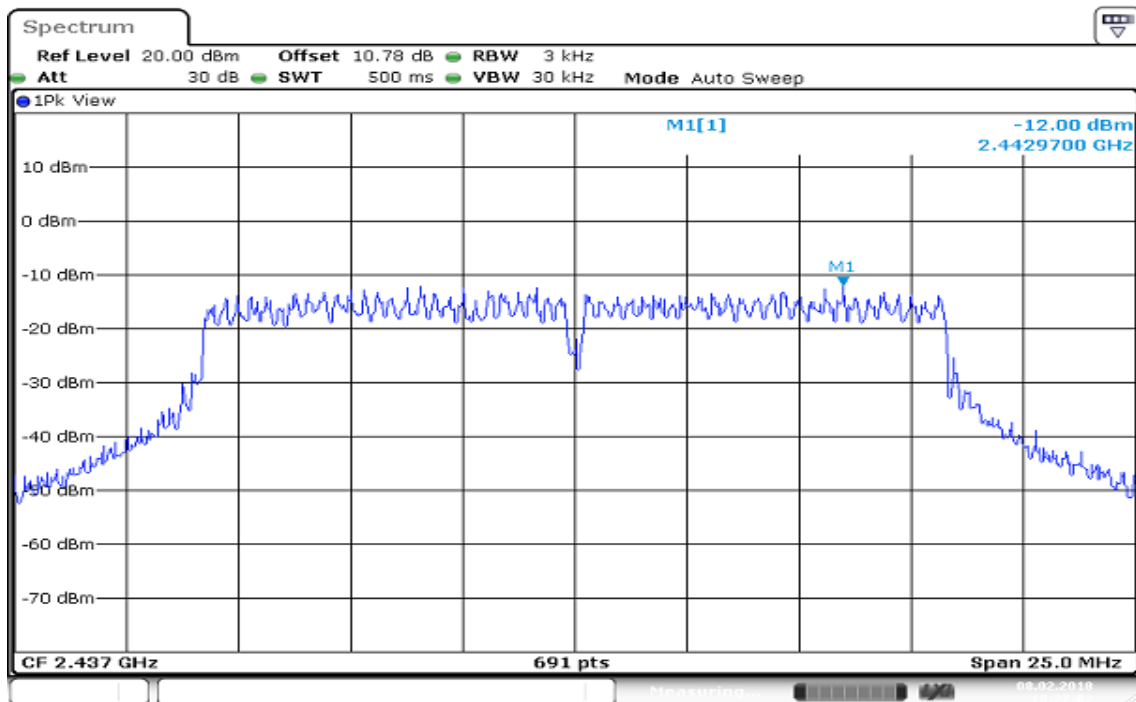
IEEE 802.11g mode / Chain 1

PPSD (CH Low)



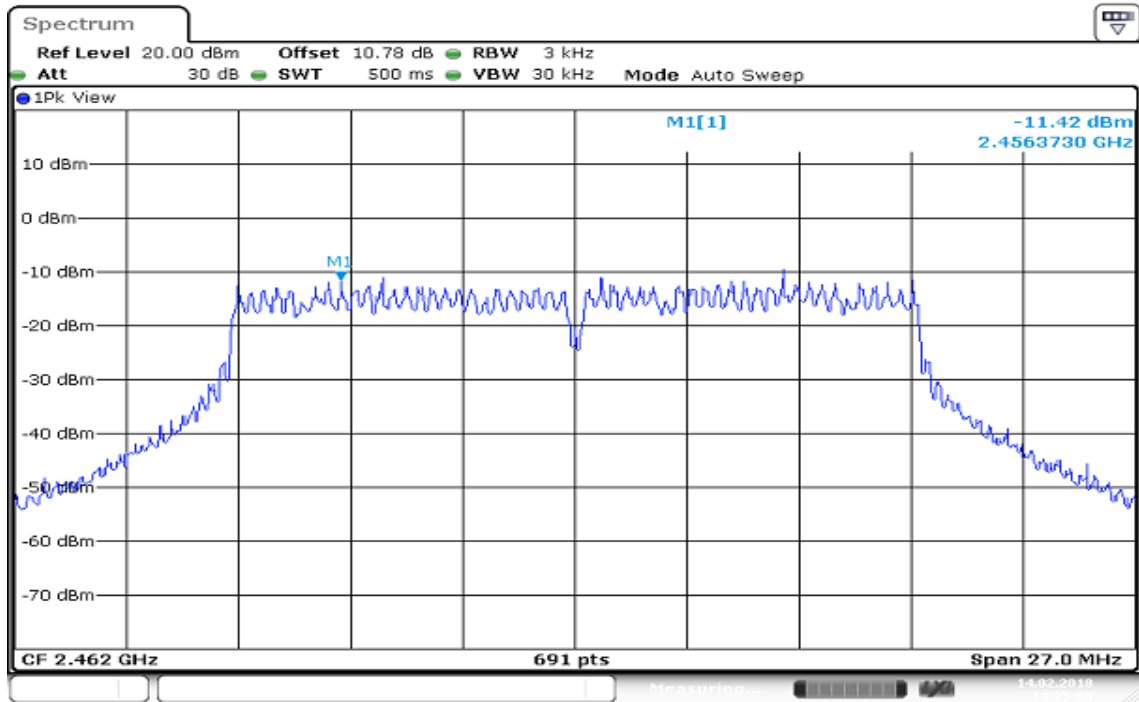
Date: 8.FEB.2018 18:23:18

PPSD (CH Mid)



Date: 8.FEB.2018 18:27:03

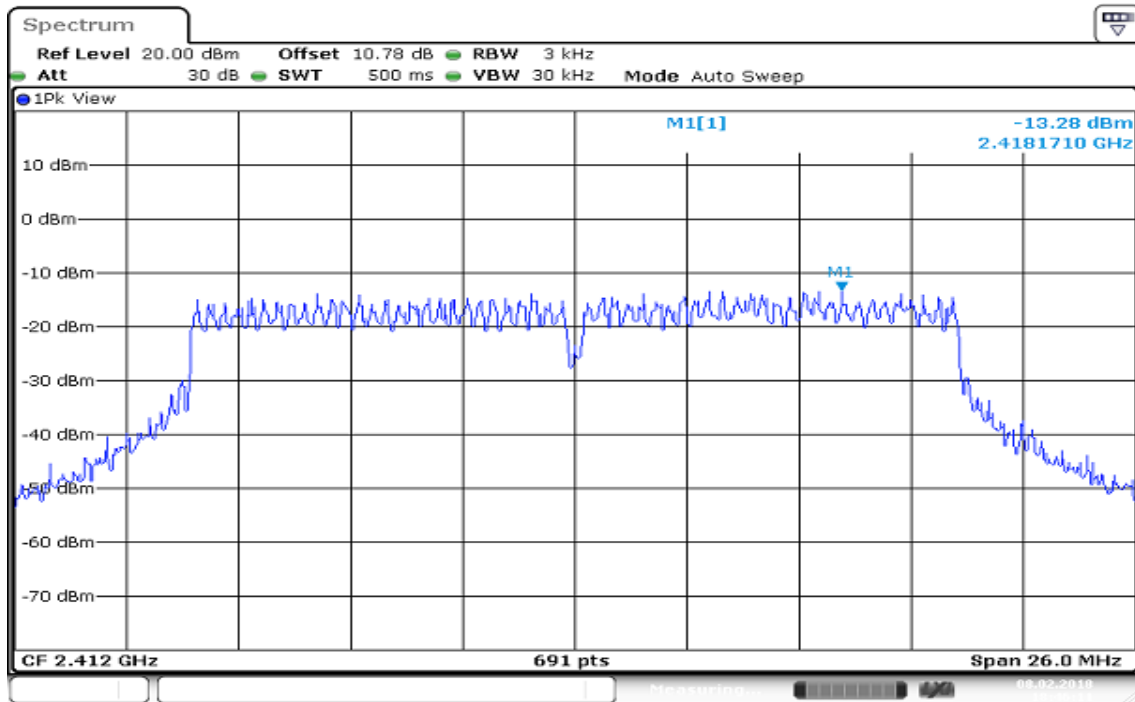
PPSD (CH High)



Date: 14 FEB 2018 14:25:07

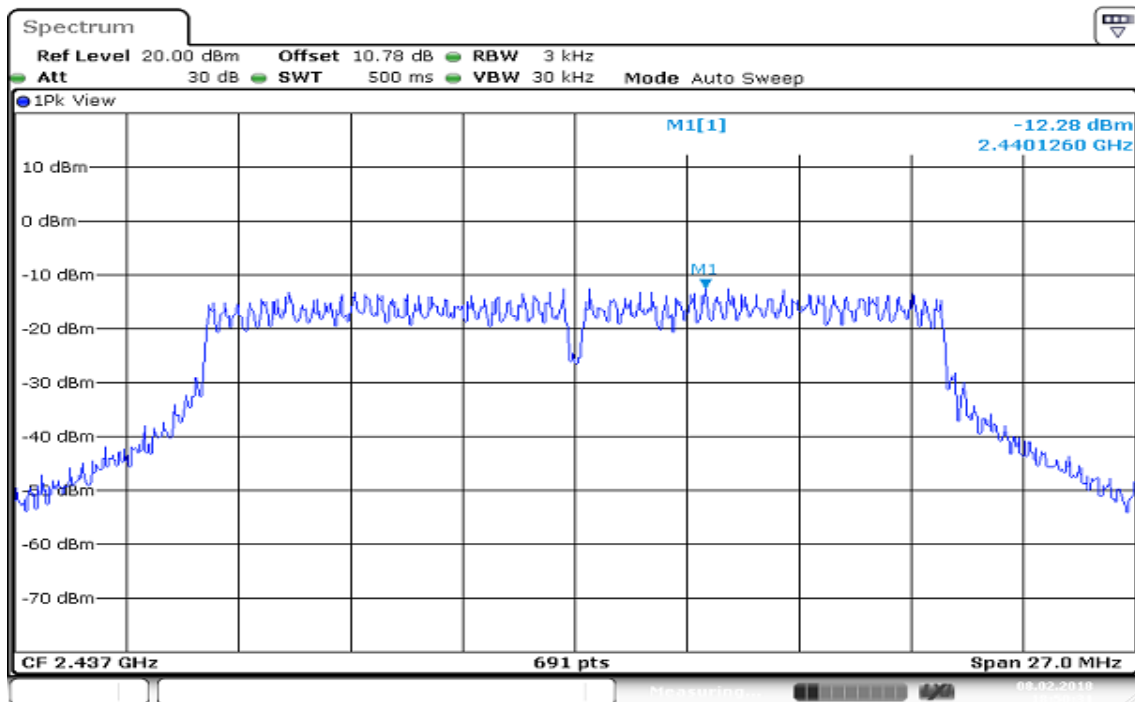
IEEE 802.11n 20MHz mode / Chain 0

PPSD (CH Low)



Date: 8.FEB.2018 18:46:12

PPSD (CH Mid)



Date: 8.FEB.2018 18:50:31