Figure Channel 149 (Chain A)

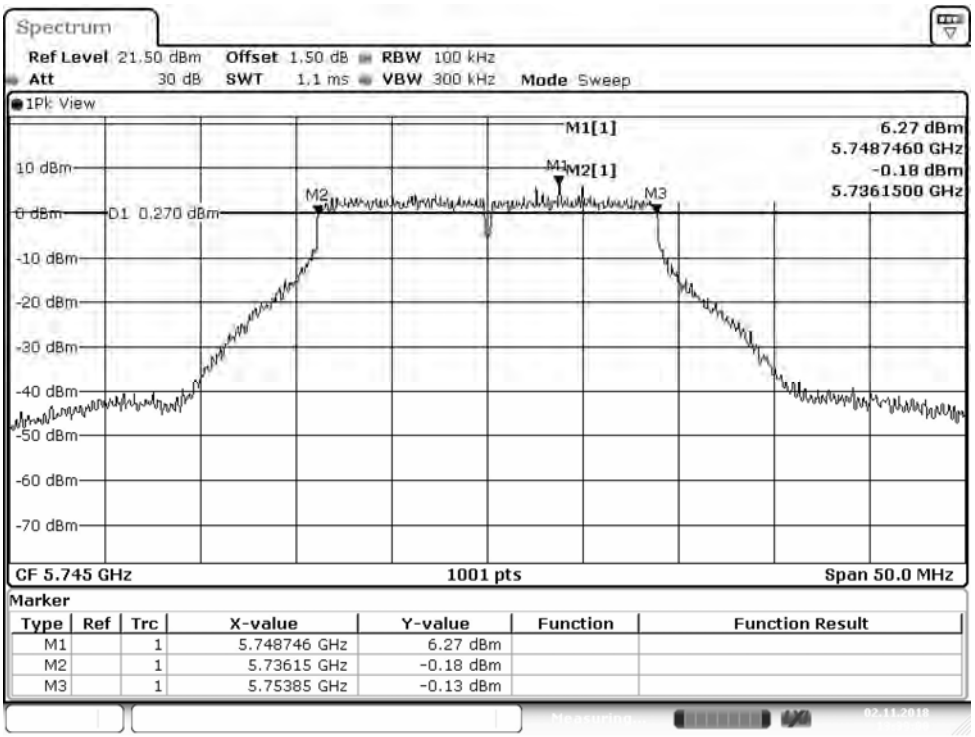
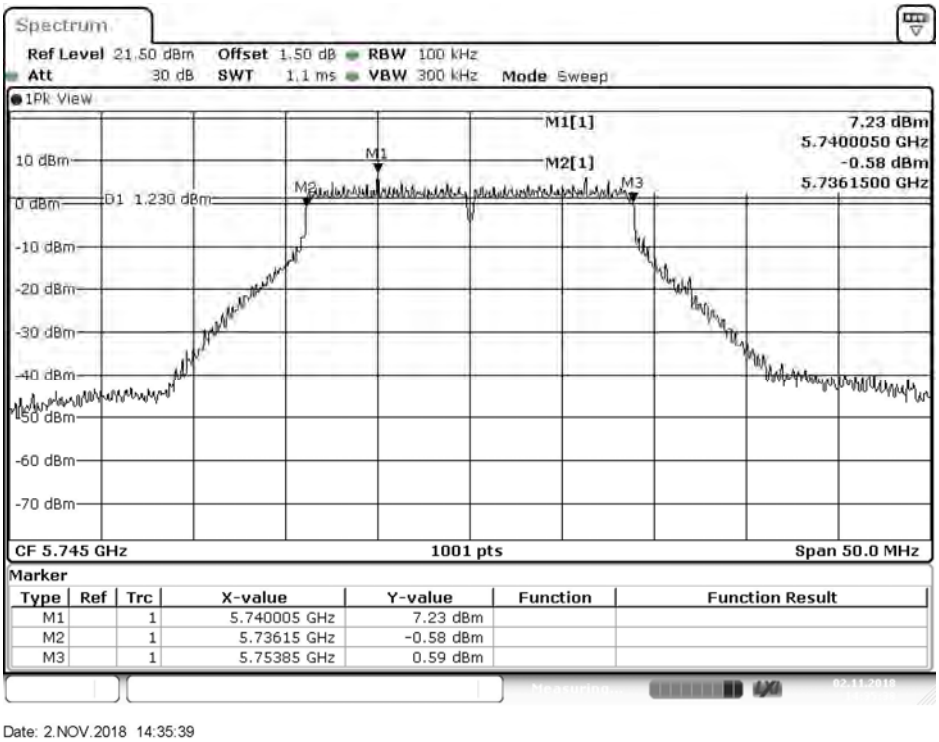


Figure Channel 149 (Chain B)



Date: 2.NOV.2018 14:35:39

Figure Channel 157 (Chain A)

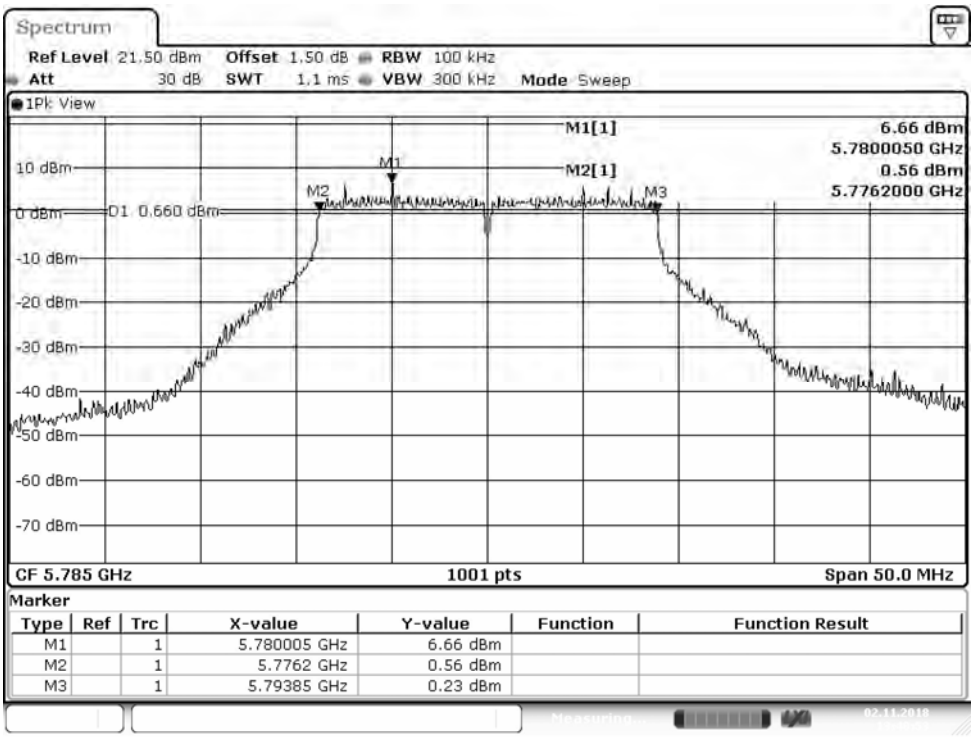
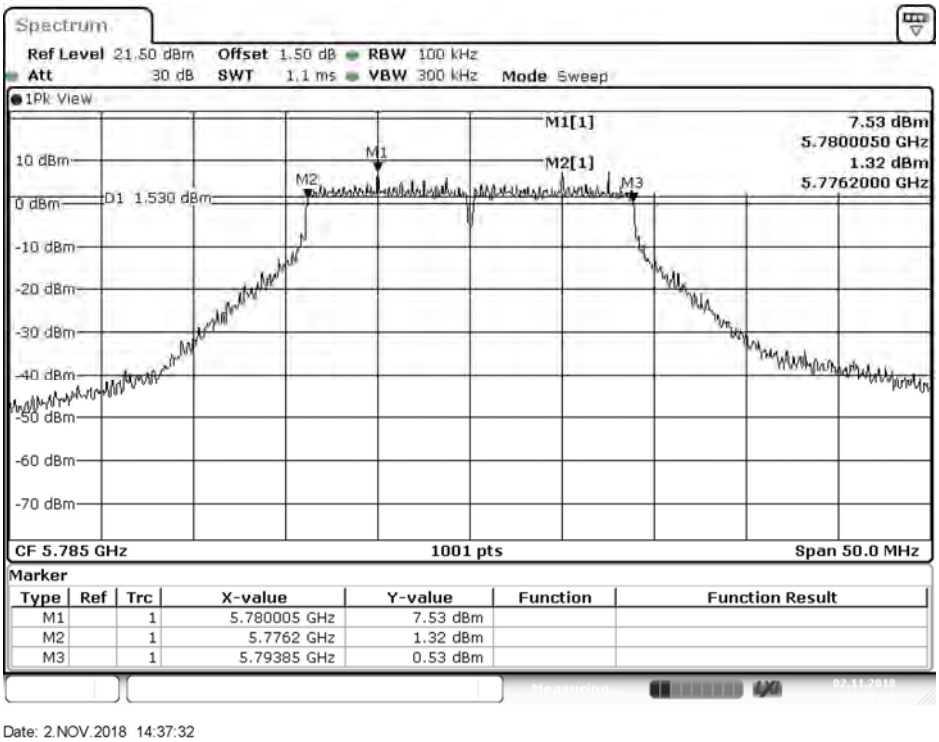


Figure Channel 157 (Chain B)



Date: 2.NOV.2018 14:37:32

Figure Channel 165 (Chain A)

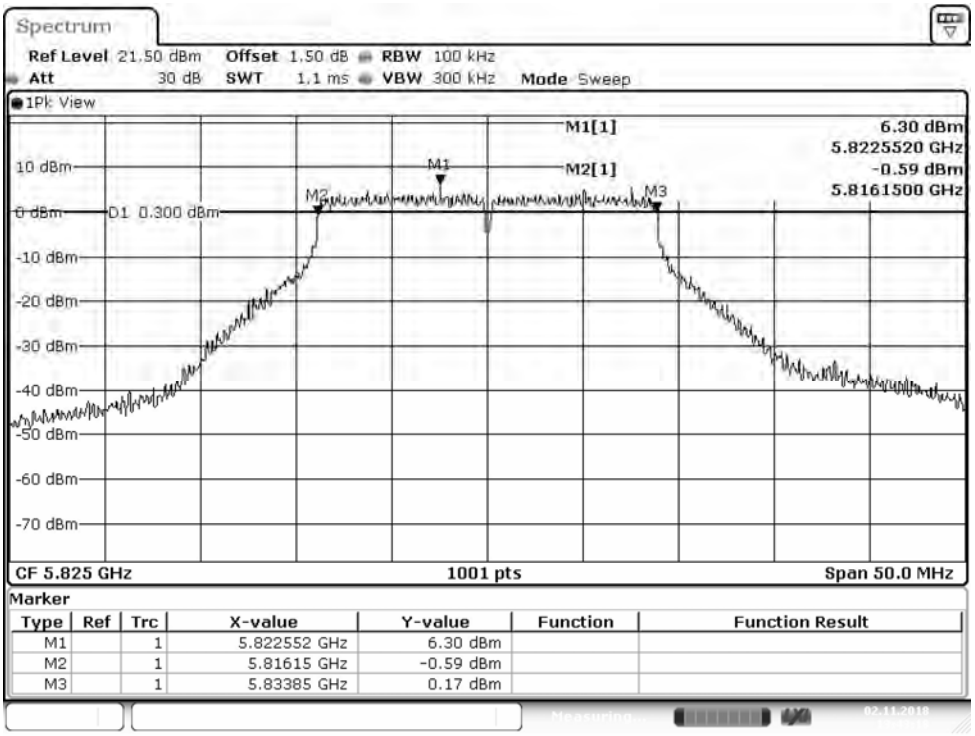
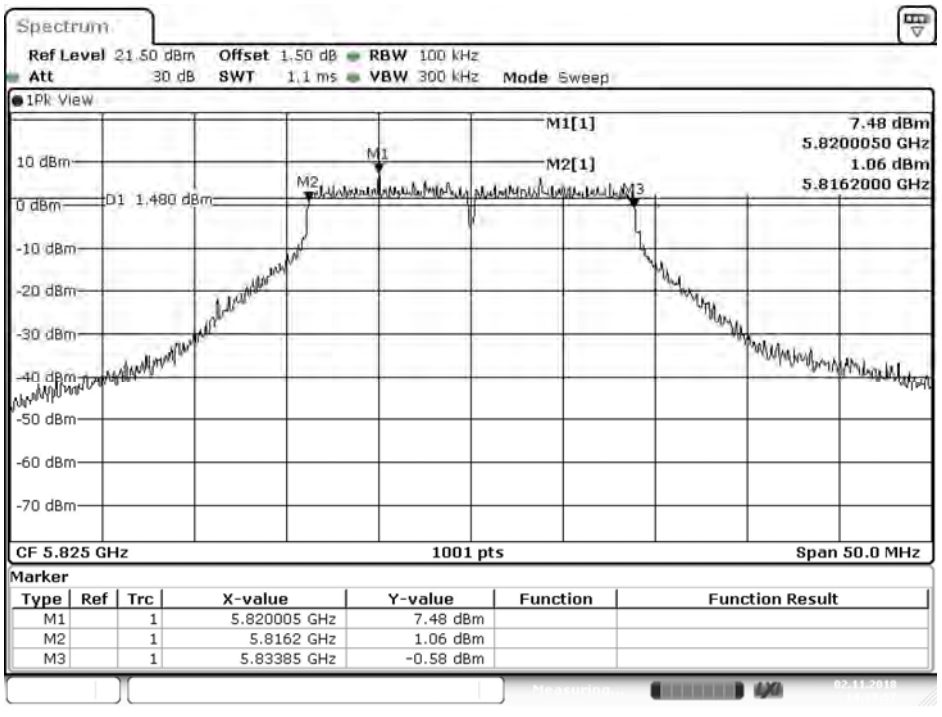


Figure Channel 165 (Chain B)



Date: 2.NOV.2018 14:39:57

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 11 月 02 日

測試項目：佔用頻帶寬度
測試模式：Mode 3: MIMO: 發射器 802.11n-40BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	A	36500	>500	Pass
159	5795	A	36500	>500	Pass
151	5755	B	36500	>500	Pass
159	5795	B	36600	>500	Pass

Figure Channel 151 (Chain A)

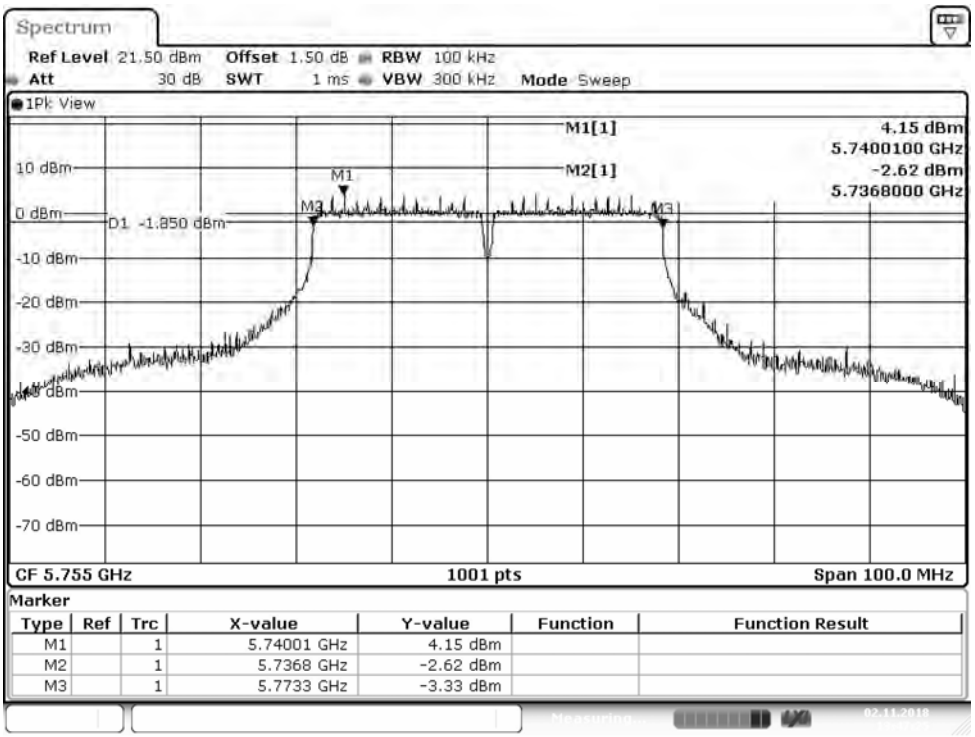
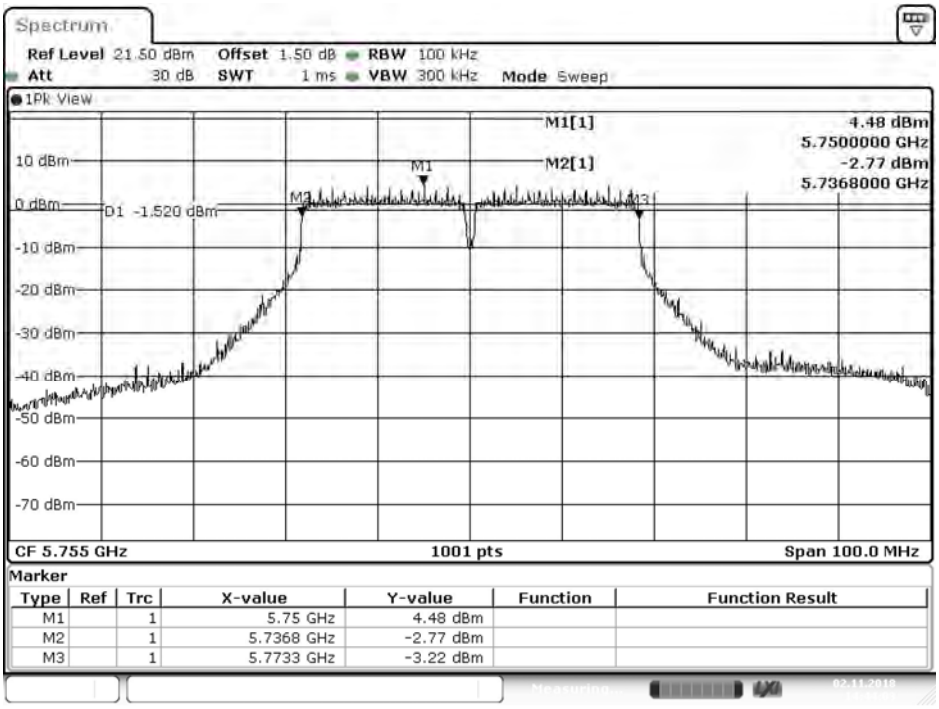


Figure Channel 151 (Chain B)



Date: 2.NOV.2018 14:44:04

Figure Channel 159 (Chain A)

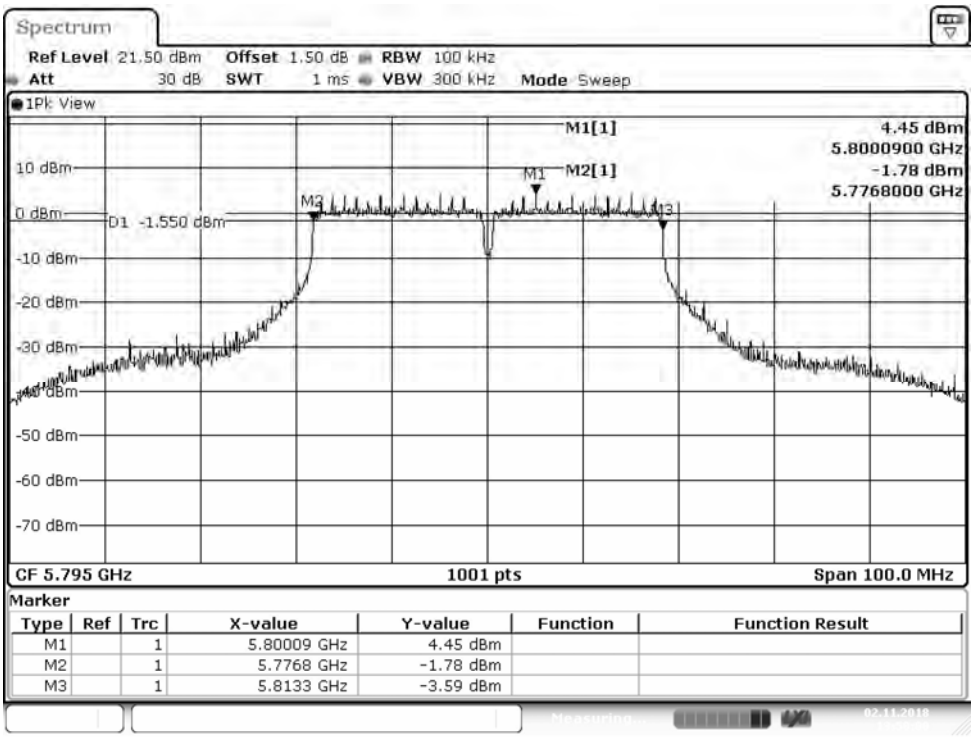
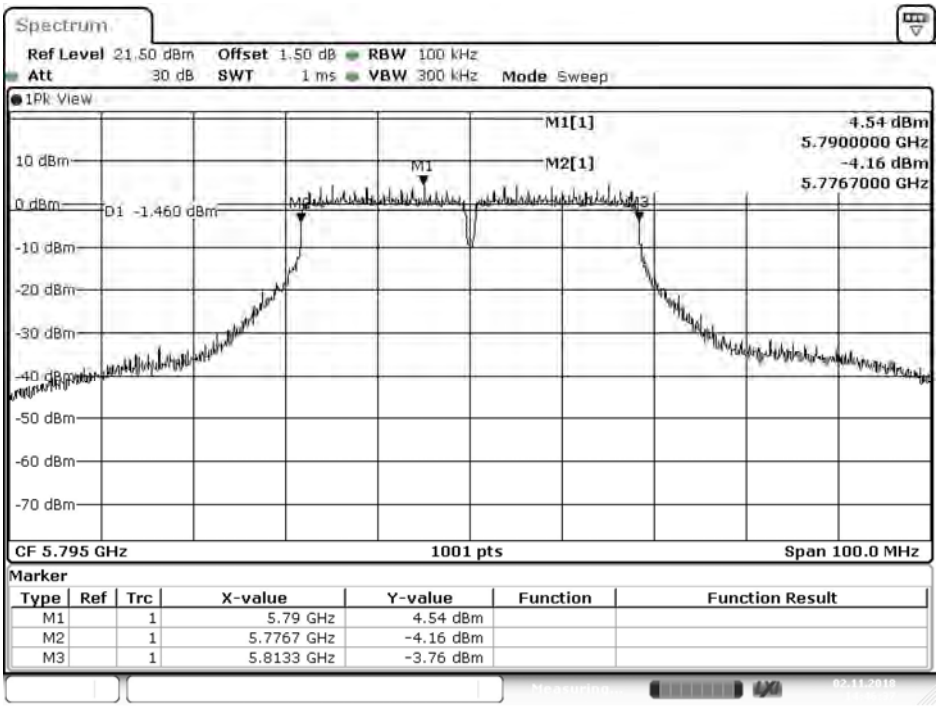


Figure Channel 159 (Chain B)



Date: 2.NOV.2018 14:46:38

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 11 月 02 日
測試項目：佔用頻帶寬度
測試模式：Mode 3: MIMO: 發射器 802.11ac-80BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	75600	>500	Pass
155	5775	B	75400	>500	Pass

Figure Channel 155 (Chain A)

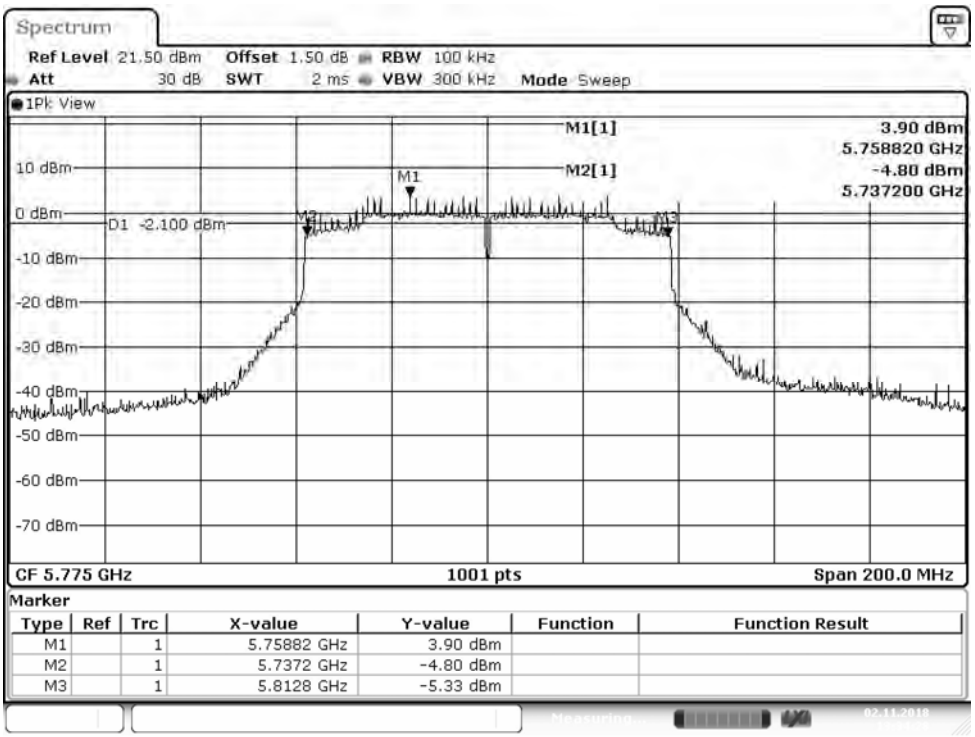
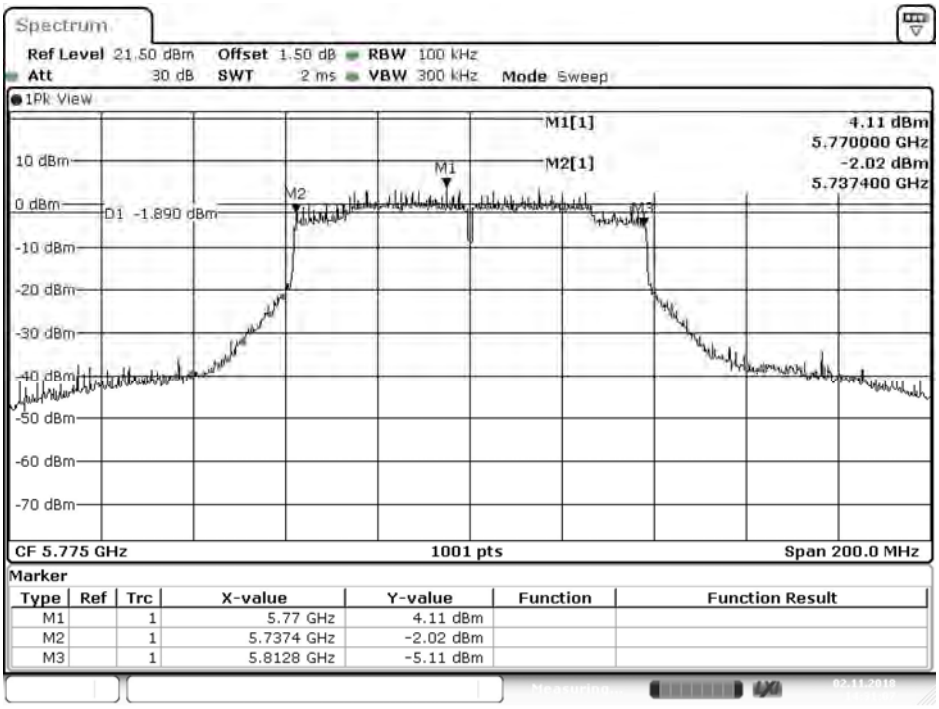


Figure Channel 155 (Chain B)

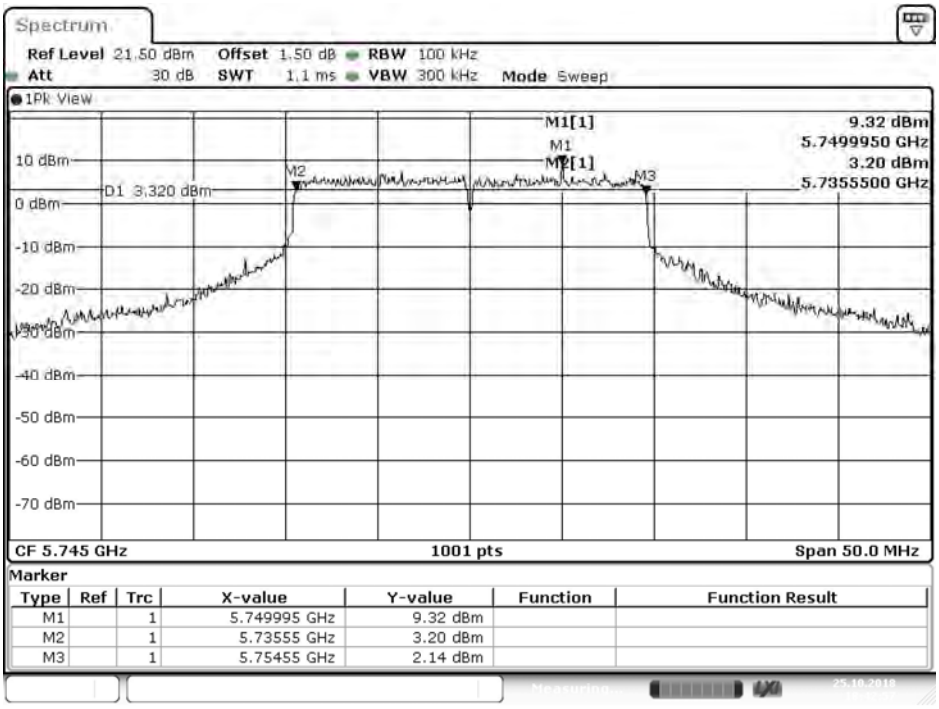


Date: 2.NOV.2018 14:31:07

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 25 日
測試項目：佔用頻帶寬度
測試模式：Mode 1: SISO A: 發射器 802.11ax-20BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

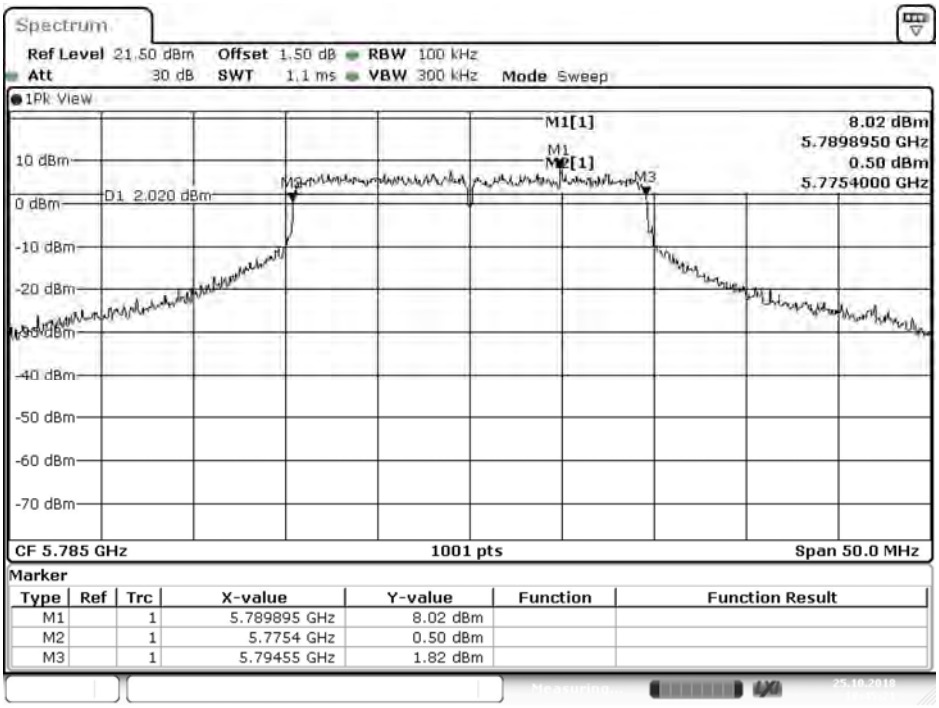
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	19000	>500	Pass
157	5785	19150	>500	Pass
165	5825	19000	>500	Pass

Figure Channel 149



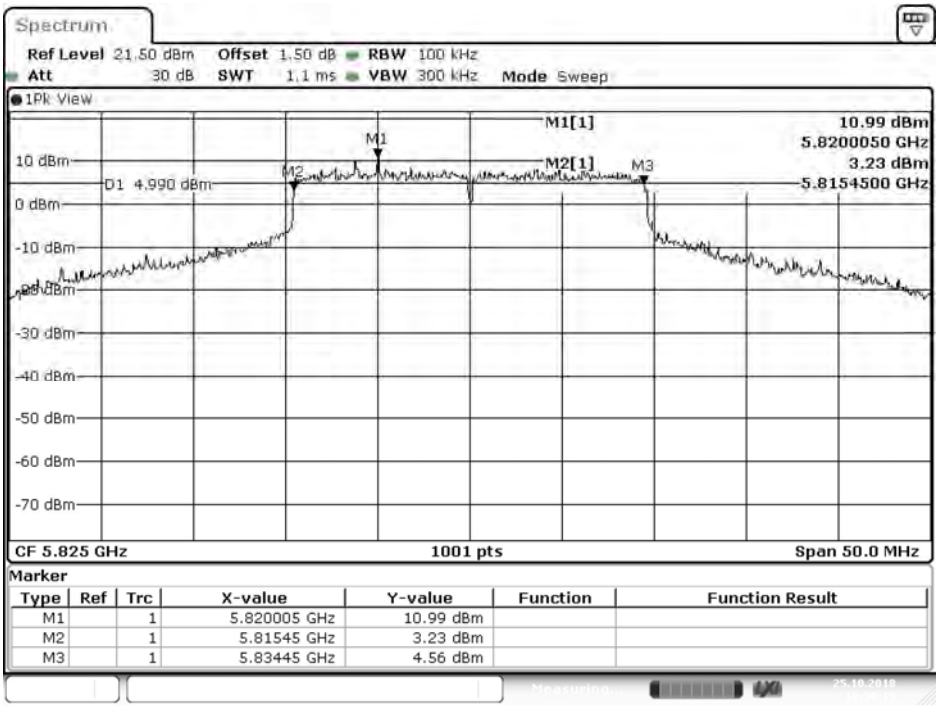
Date: 25.OCT.2018 18:42:57

Figure Channel 157



Date: 25.OCT.2018 18:45:21

Figure Channel 165



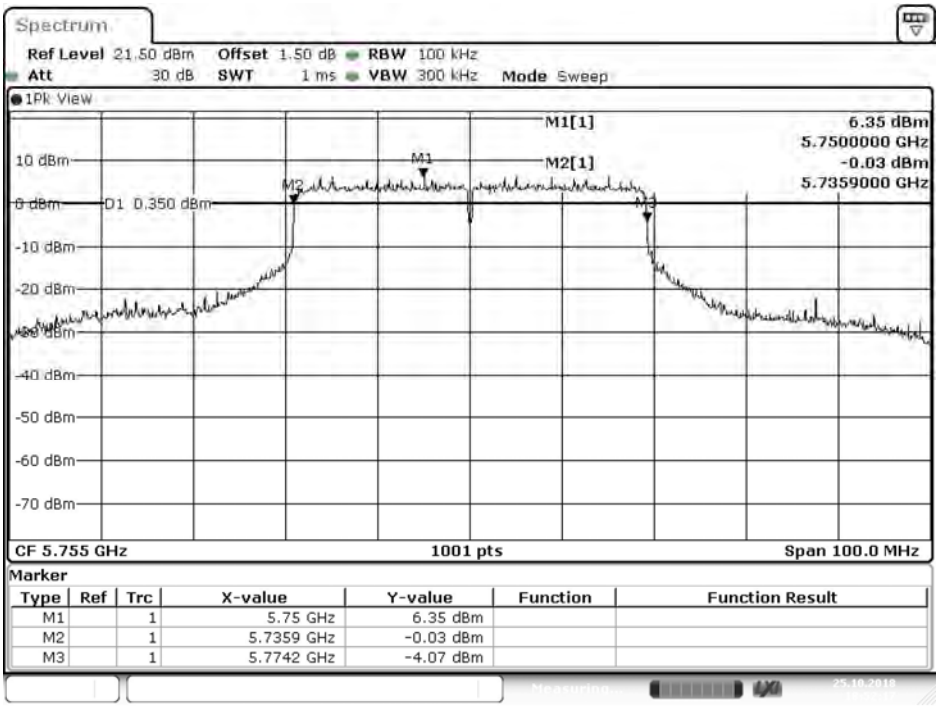
Date: 25.OCT.2018 18:50:20

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 25 日

測試項目：佔用頻帶寬度
測試模式：Mode 1: SISO A: 發射器 802.11ax-40BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

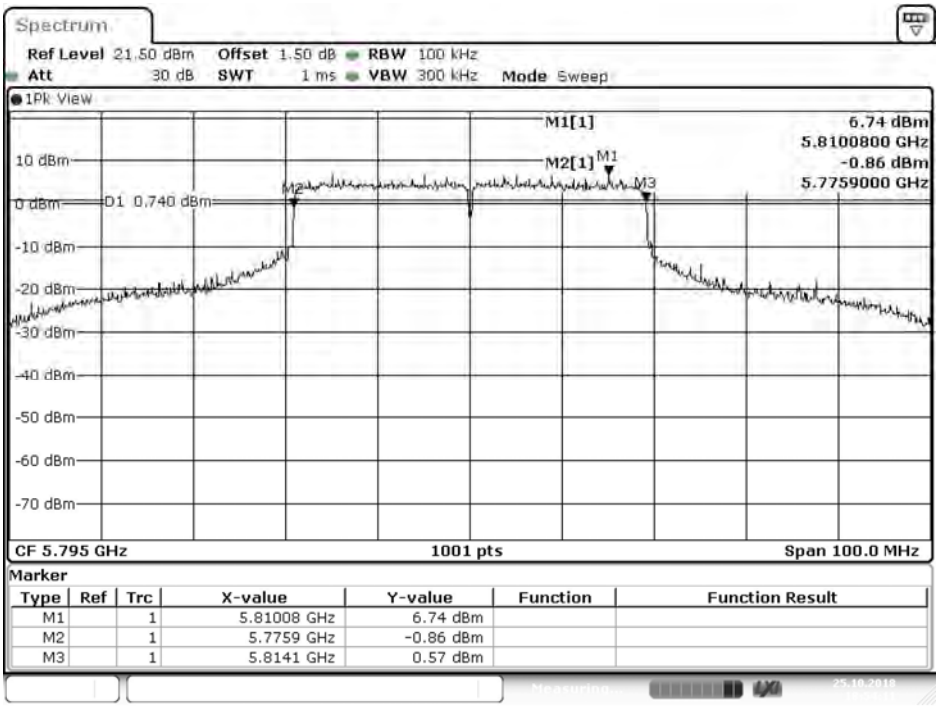
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	38300	>500	Pass
159	5795	38200	>500	Pass

Figure Channel 151



Date: 25.OCT.2018 18:52:17

Figure Channel 159



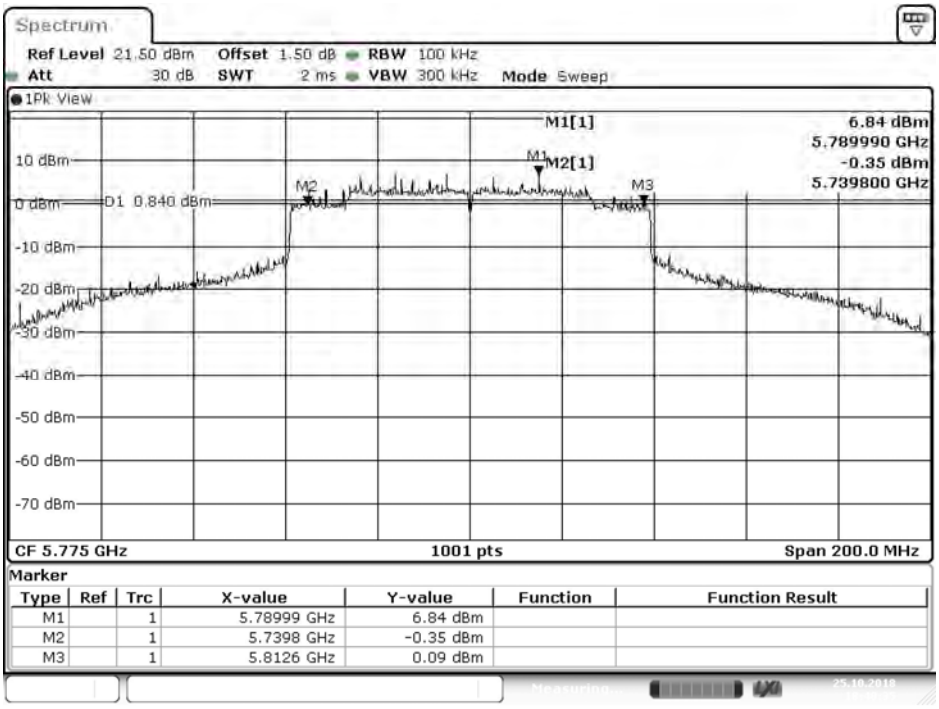
Date: 25.OCT.2018 18:54:11

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 25 日

測試項目：佔用頻帶寬度
測試模式：Mode 1: SISO A: 發射器 802.11ax-80BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	72800	>500	Pass

Figure Channel 155

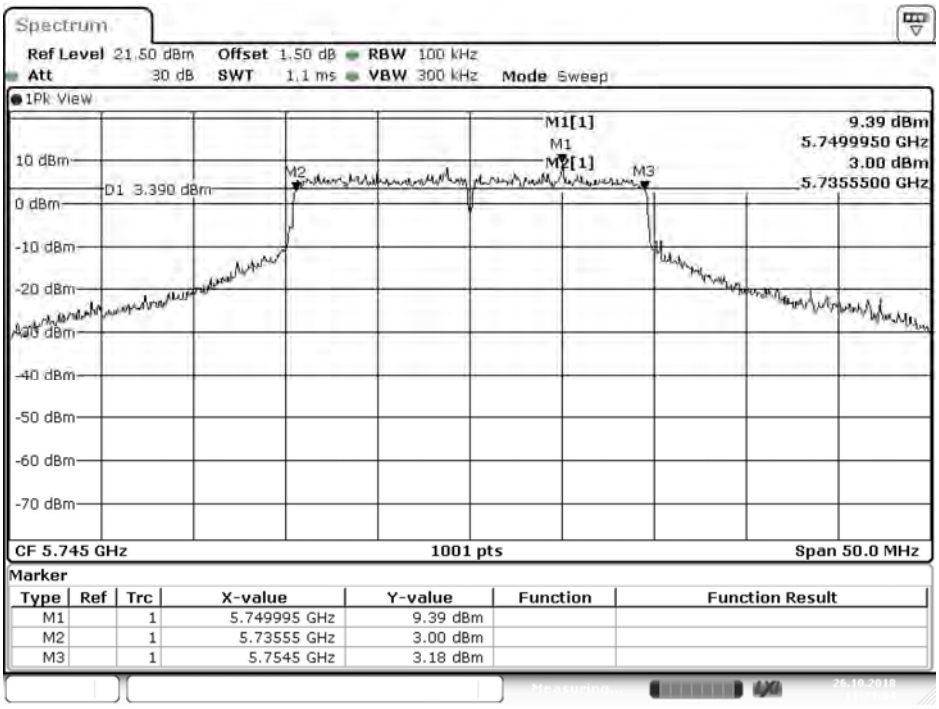


Date: 25.OCT.2018 18:40:35

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 26 日
測試項目：佔用頻帶寬度
測試模式：Mode 2: SISO B: 發射器 802.11ax-20BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

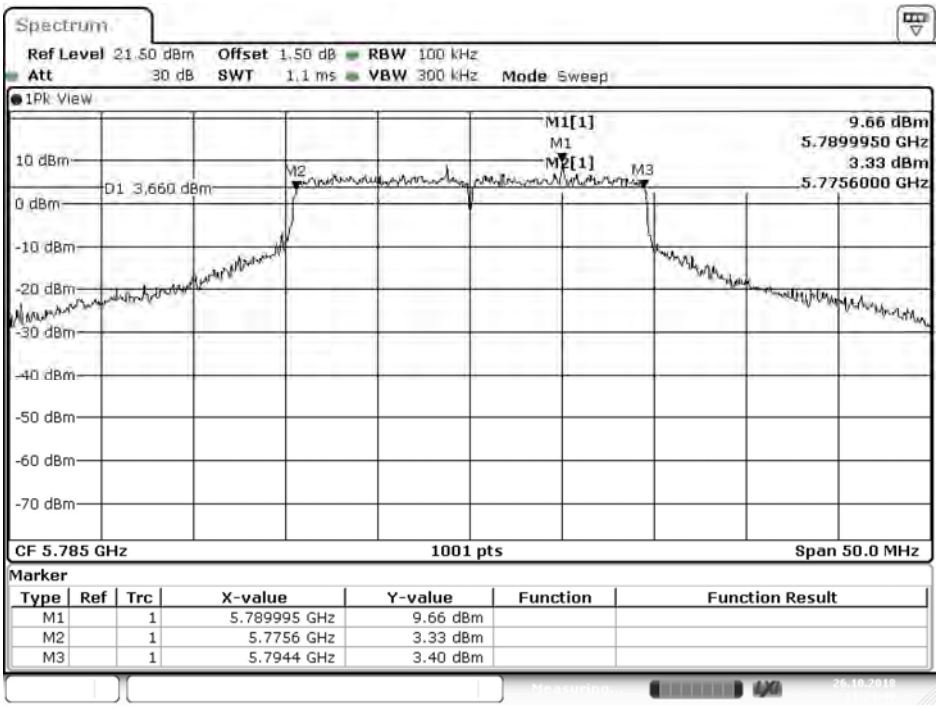
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	18950	>500	Pass
157	5785	18800	>500	Pass
165	5825	19050	>500	Pass

Figure Channel 149



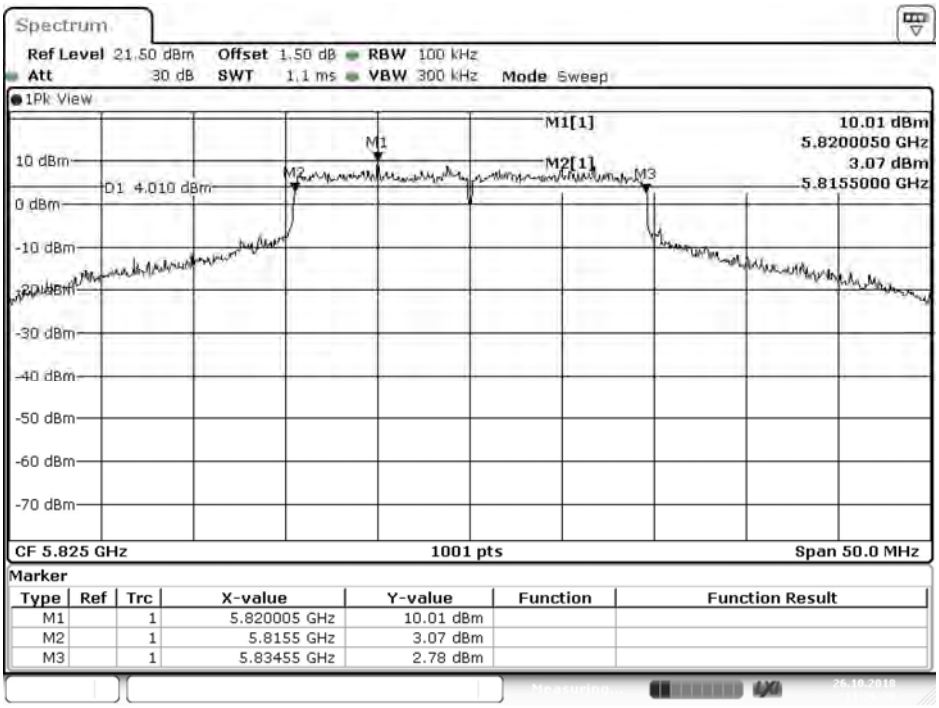
Date: 26.OCT.2018 11:23:04

Figure Channel 157



Date: 26.OCT.2018 11:24:40

Figure Channel 165

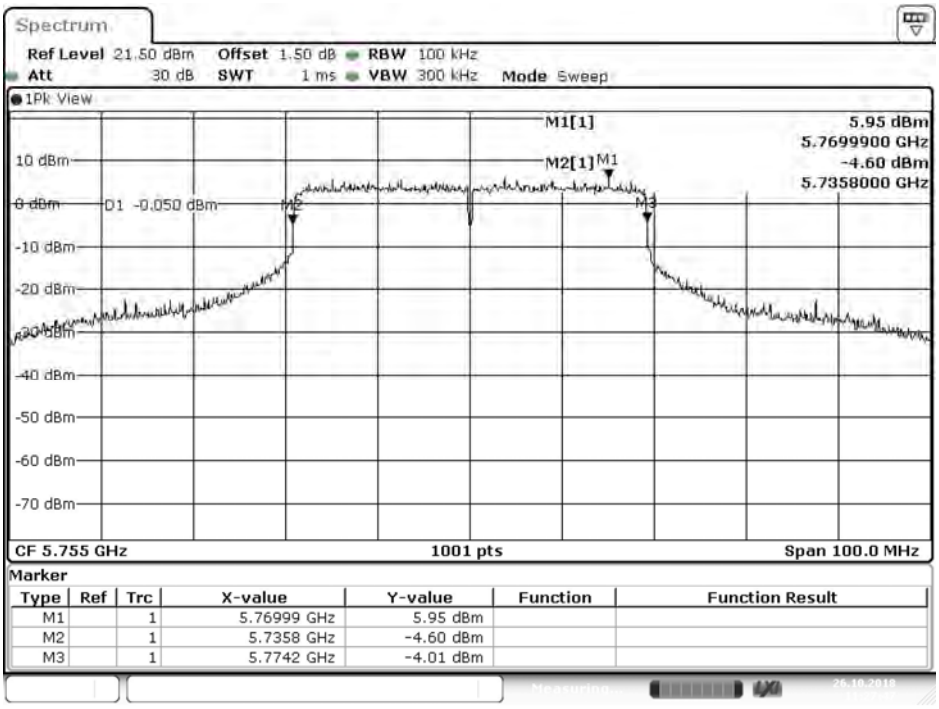


待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 26 日

測試項目：佔用頻帶寬度
測試模式：Mode 2: SISO B: 發射器 802.11ax-40BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

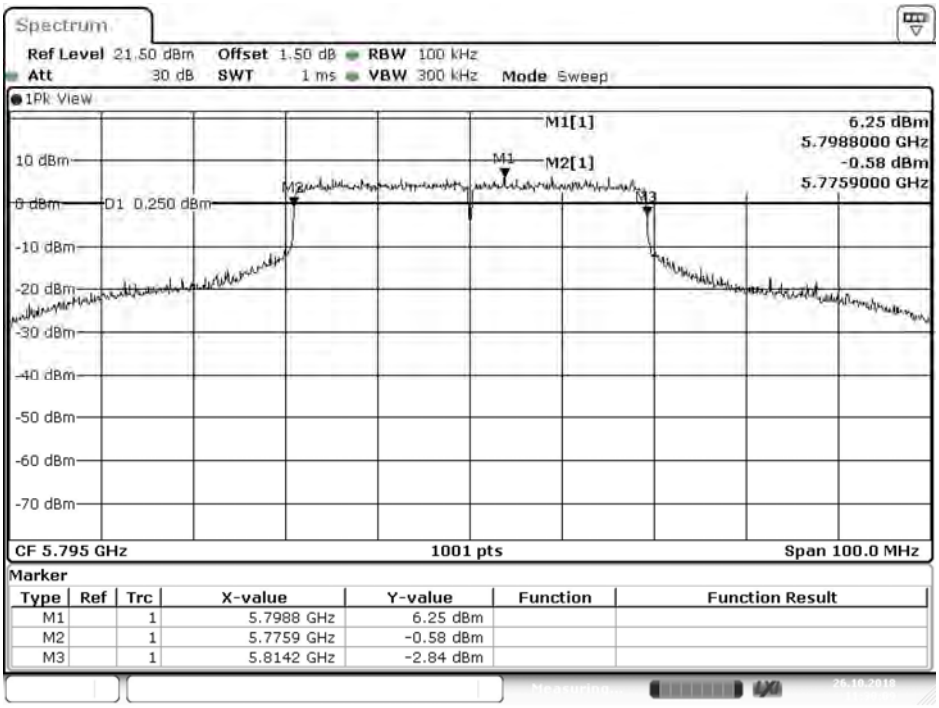
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	38400	>500	Pass
159	5795	38300	>500	Pass

Figure Channel 151



Date: 26.OCT.2018 11:27:48

Figure Channel 159



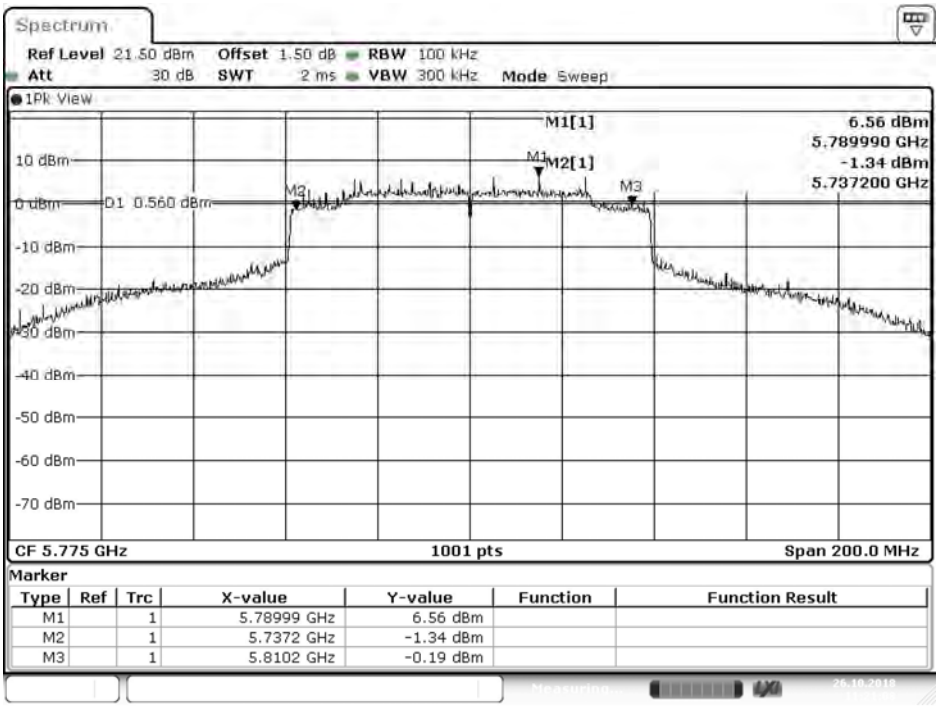
Date: 26.OCT.2018 11:30:09

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 26 日

測試項目：佔用頻帶寬度
測試模式：Mode 2: SISO B: 發射器 802.11ax-80BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	73000	>500	Pass

Figure Channel 155



Date: 26.OCT.2018 11:21:08

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 11 月 02 日

測試項目：佔用頻帶寬度
測試模式：Mode 3: MIMO: 發射器 802.11ax-20BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	19050	>500	Pass
157	5785	A	19050	>500	Pass
165	5825	A	19050	>500	Pass
149	5745	B	19000	>500	Pass
157	5785	B	19050	>500	Pass
165	5825	B	19050	>500	Pass

Figure Channel 149 (Chain A)

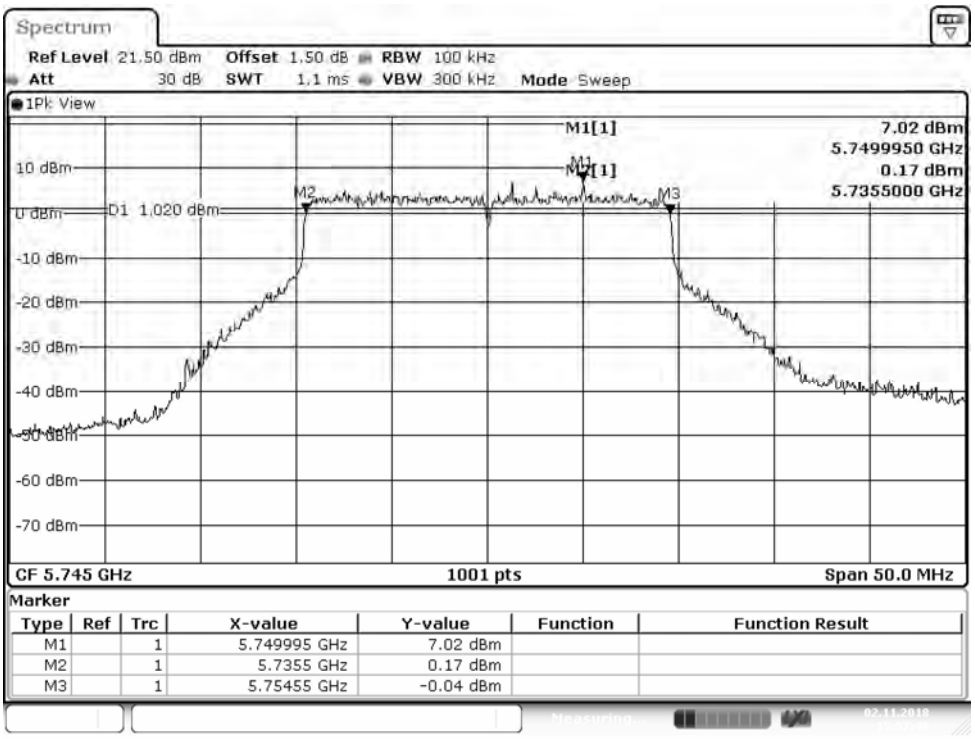


Figure Channel 149 (Chain B)

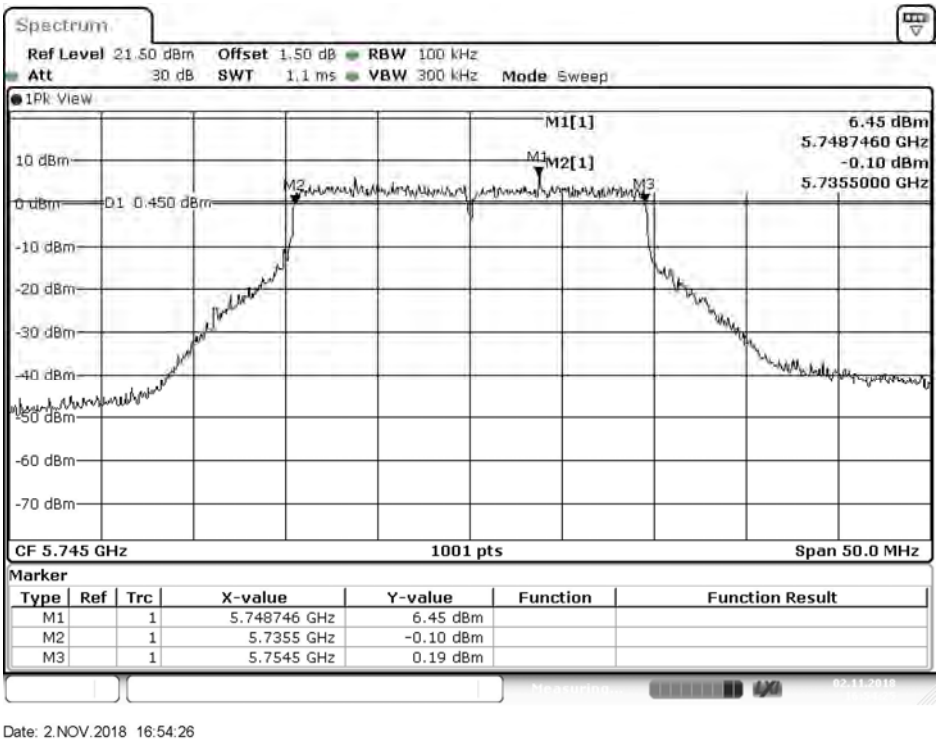


Figure Channel 157 (Chain A)

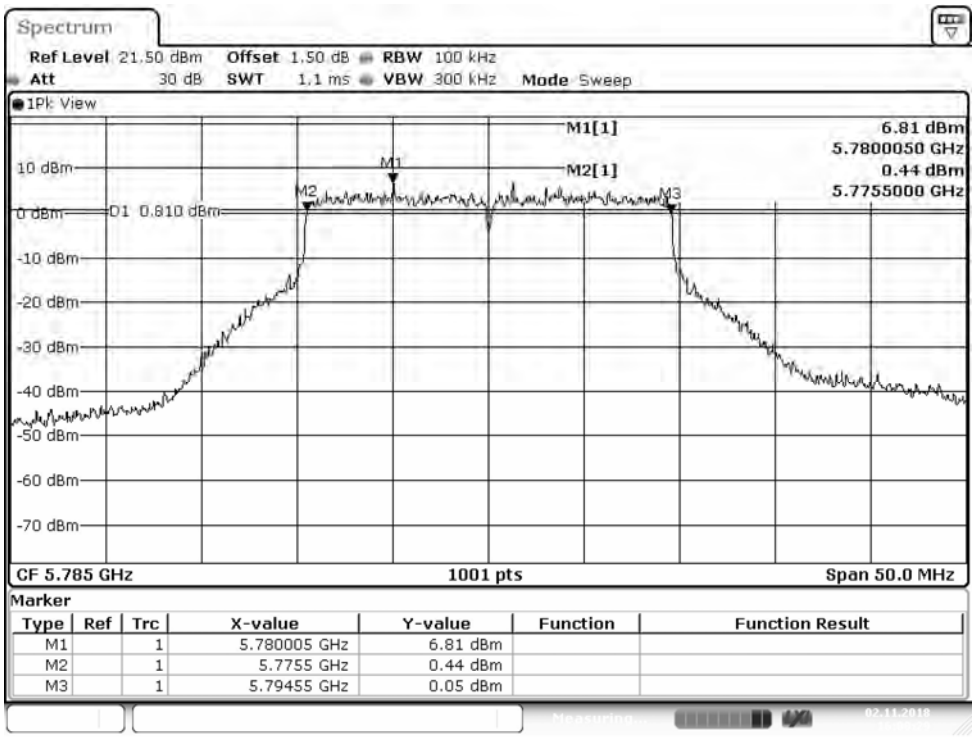


Figure Channel 157 (Chain B)

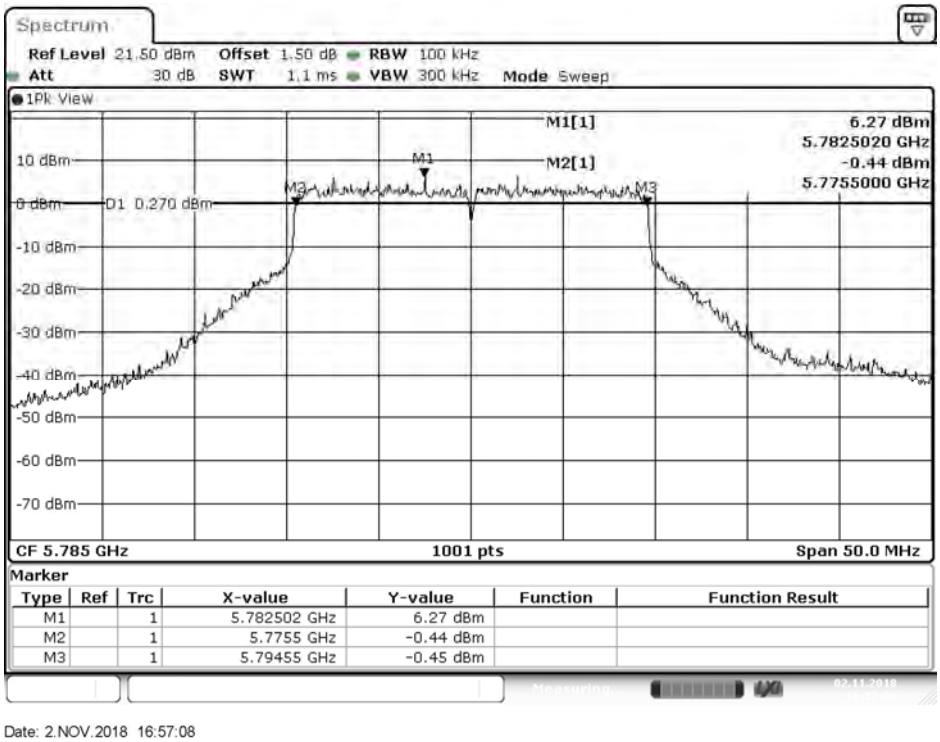


Figure Channel 165 (Chain A)

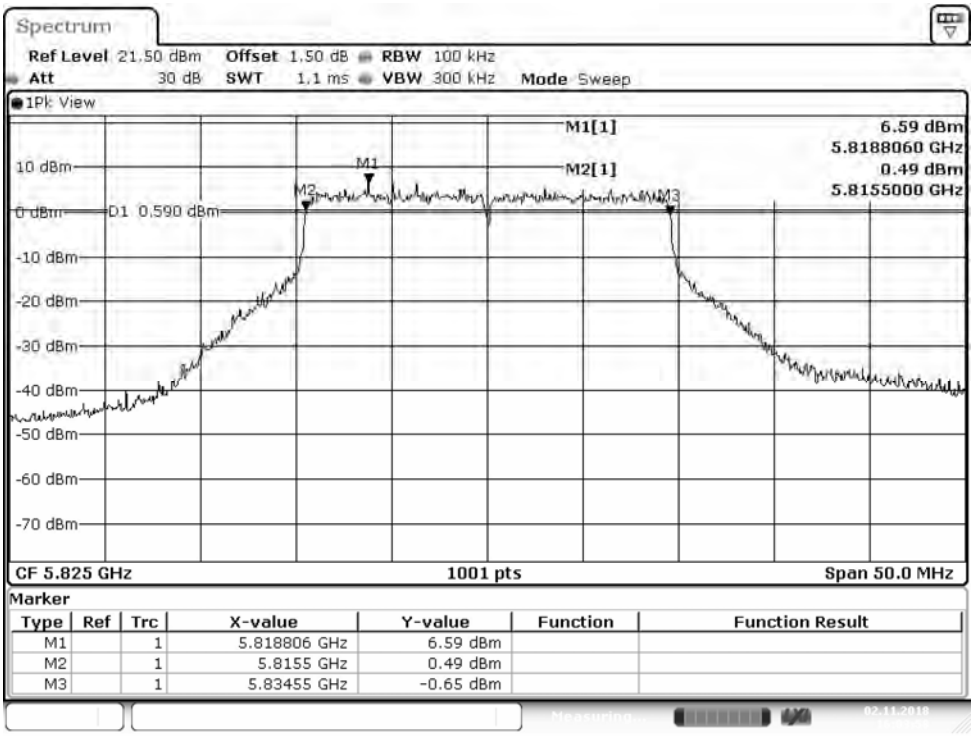
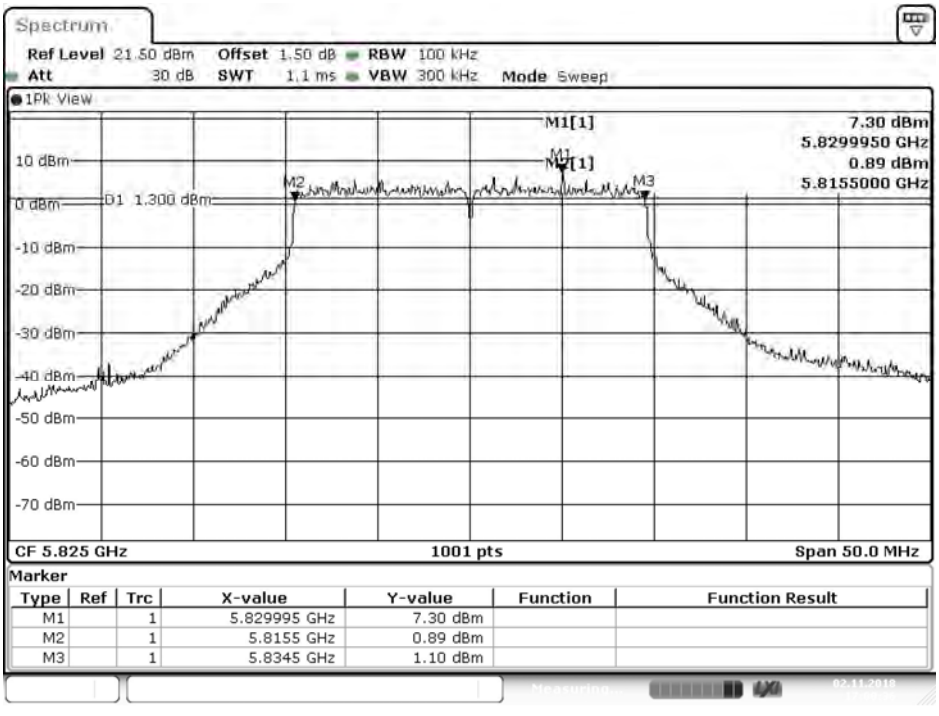


Figure Channel 165 (Chain B)



Date: 2.NOV.2018 17:00:37

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 11 月 02 日

測試項目：佔用頻帶寬度
測試模式：Mode 3: MIMO: 發射器 802.11ax-40BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	A	38300	>500	Pass
159	5795	A	38300	>500	Pass
151	5755	B	38300	>500	Pass
159	5795	B	38300	>500	Pass

Figure Channel 151 (Chain A)

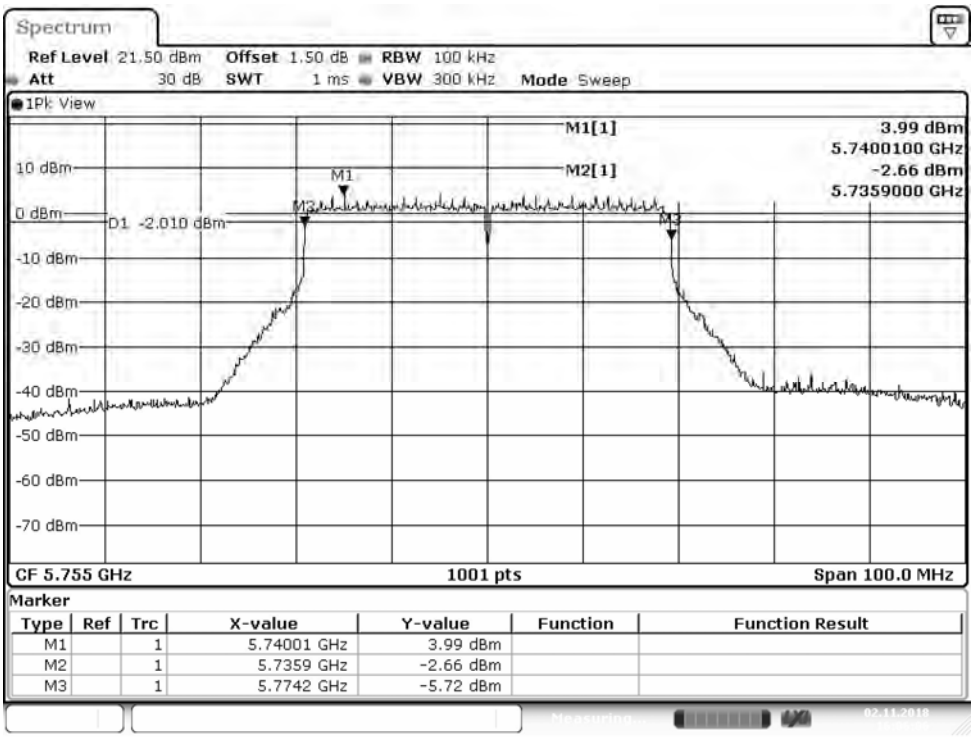
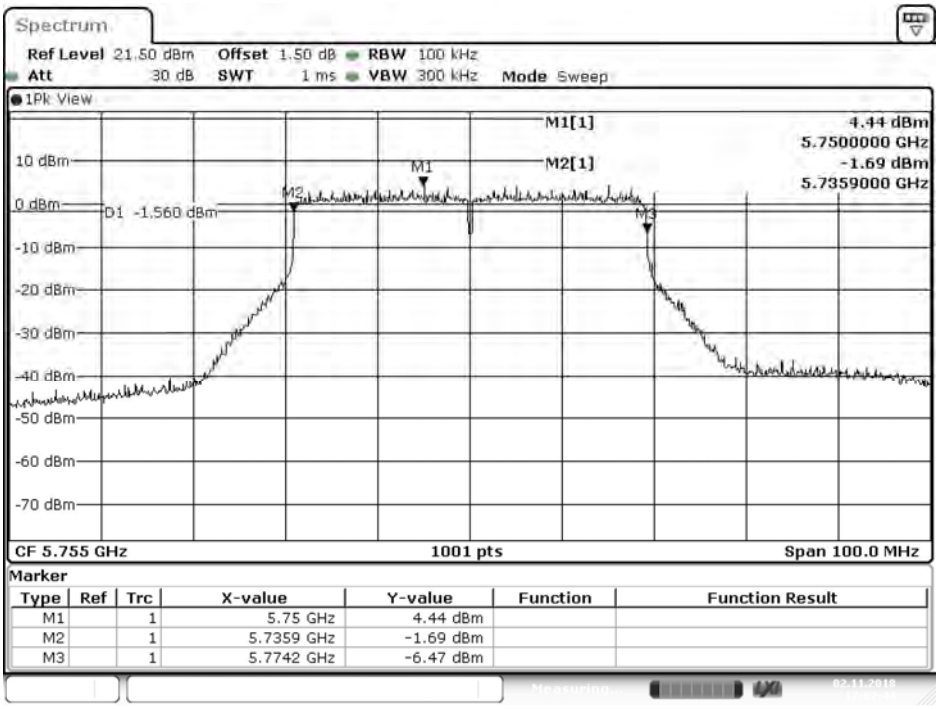


Figure Channel 151 (Chain B)



Date: 2.NOV.2018 17:02:44

Figure Channel 159 (Chain A)

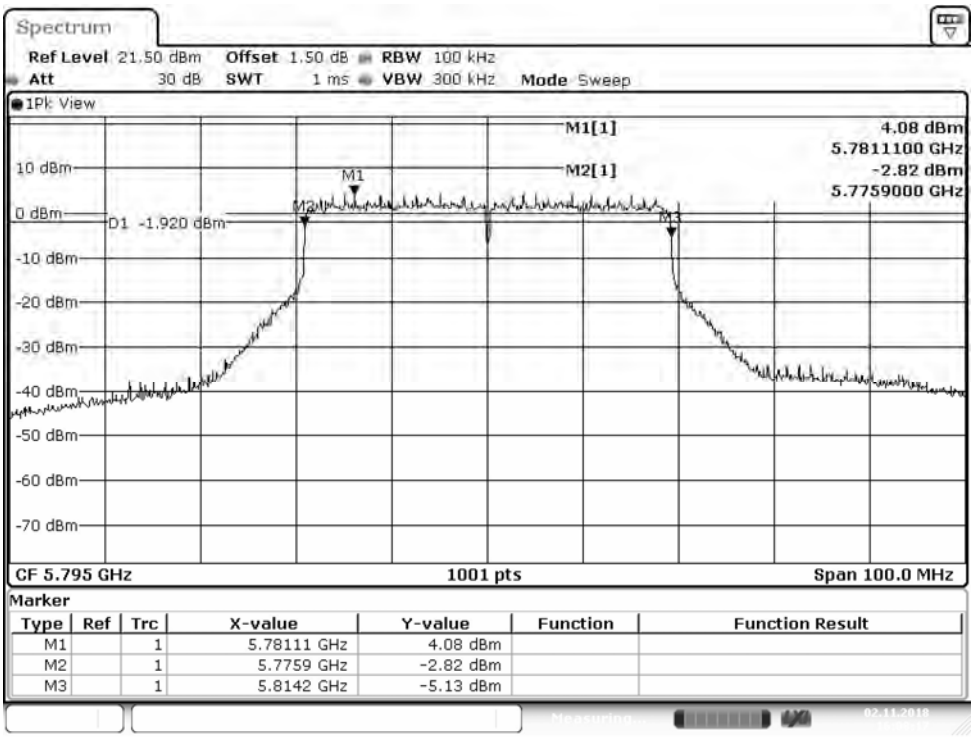
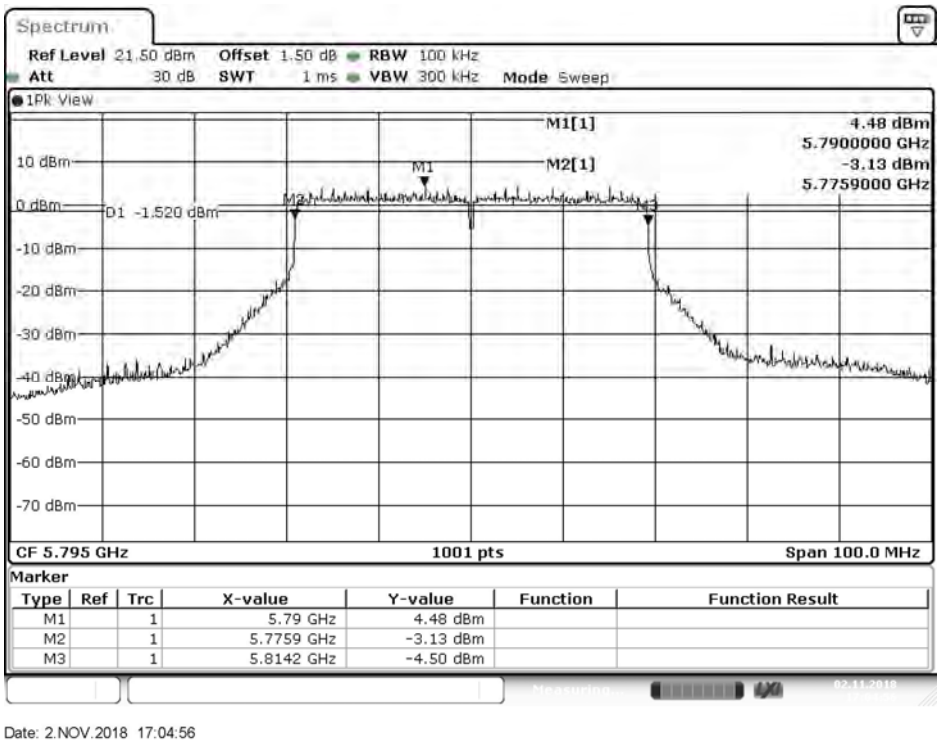


Figure Channel 159 (Chain B)



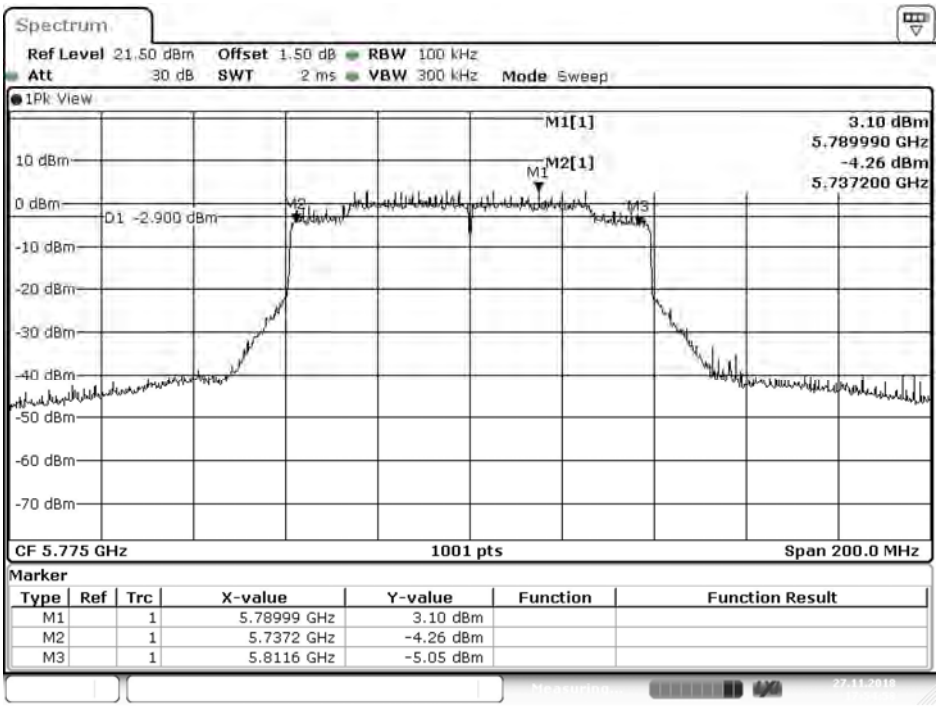
Date: 2.NOV.2018 17:04:56

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
6 dB 頻寬：100kHz
量測天線：--
檢測器：峰值
測試日期：107 年 11 月 27 日

測試項目：佔用頻帶寬度
測試模式：Mode 3: MIMO: 發射器 802.11ax-80BW
視頻頻寬：300kHz
測試距離：Conducted
環境溫度：20 ℃
環境濕度：48 %

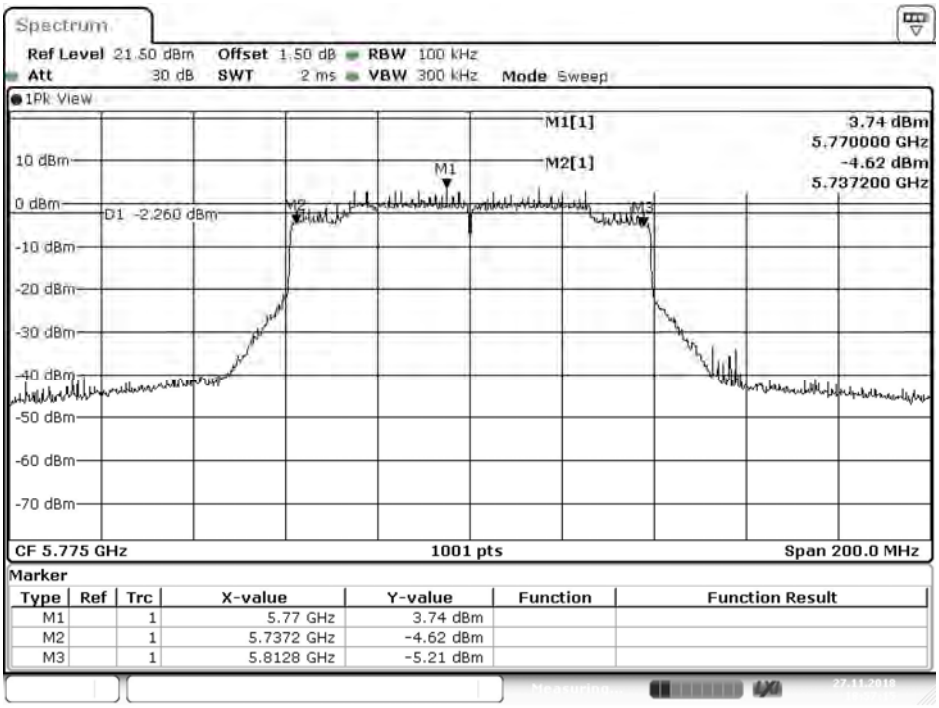
Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	74400	>500	Pass
155	5775	B	75600	>500	Pass

Figure Channel 155 (Chain A)



Date: 27.NOV.2018 17:54:58

Figure Channel 155 (Chain B)



Date: 27.NOV.2018 18:57:15

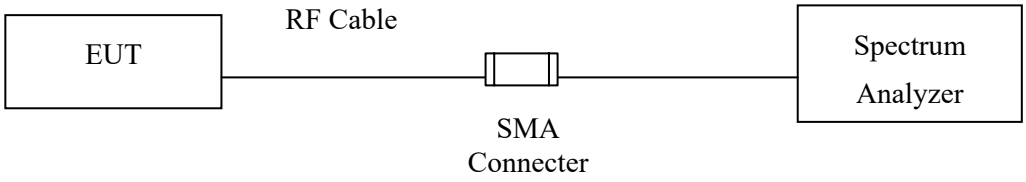
佔用頻帶寬度測試結果:	**PASS**

12. Duty Cycle

12.1. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀RF輸入端，
待測物應在正常發射狀態下量測。

12.2. 測試架構圖



12.3. 量測不確定度

此項測試之量測不確定度為± 2.31msec

12.4. Duty Cycle 測試結果

待測物名稱：Intel® Wi-Fi 6 AX201
待測物型號：AX201D2WL
測試頻道：--
量測天線：--
檢測器：峰值
測試日期：107 年 10 月 23 日

測試項目：Duty Cycle
測試模式：--
測試距離：Conducted
環境溫度：20 ℃
環境濕度：50 %

Duty Cycle Formula:
Duty Cycle = Ton / (Ton + Toff)
Duty Factor = 10 Log (1/Duty Cycle)
Results:

SISO A

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0800	2.3450	88.70	0.52
802.11 n20	24.7800	25.0450	98.94	0.05
802.11 n40	17.8800	18.1200	98.68	0.06
802.11 ac80	10.9800	11.2800	97.34	0.12
802.11 ac160	5.5200	5.7800	95.50	0.20
802.11 ax20	24.7700	25.0300	98.96	0.05
802.11 ax40	18.6700	18.9800	98.37	0.07
802.11 ax80	8.9400	9.2200	96.96	0.13
802.11 ax160	4.5200	4.7800	94.56	0.24

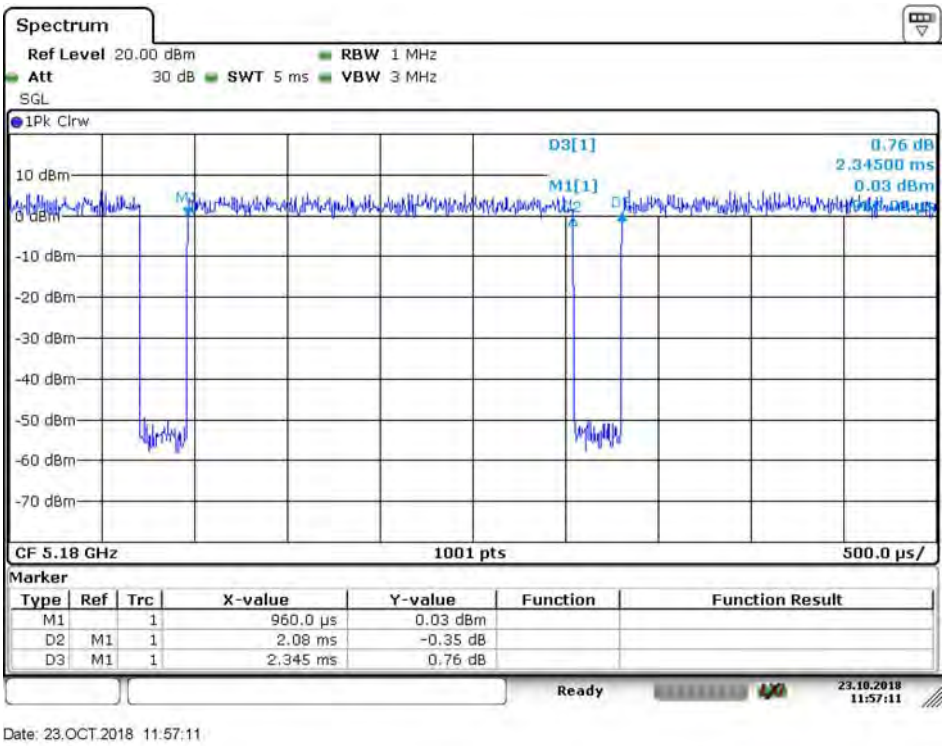
SISO B

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0800	2.3400	88.89	0.51
802.11 n20	24.7800	25.0400	98.96	0.05
802.11 n40	17.8300	18.0900	98.56	0.06
802.11 ac80	10.9800	11.2800	97.34	0.12
802.11 ac160	5.5000	5.7800	95.16	0.22
802.11 ax20	24.7000	24.9800	98.88	0.05
802.11 ax40	19.7500	20.0800	98.36	0.07
802.11 ax80	9.4400	9.7400	96.92	0.14
802.11 ax160	4.7600	5.0400	94.44	0.25

MIMO

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 n20	18.5000	18.8000	98.40	0.07
802.11 n40	8.9100	9.2300	96.53	0.15
802.11 ac80	5.4900	5.7900	94.82	0.23
802.11 ac160	2.7800	3.0400	91.45	0.39
802.11 ax20	18.6500	19.0000	98.16	0.08
802.11 ax40	9.3600	9.6600	96.89	0.14
802.11 ax80	4.4800	4.7800	93.72	0.28
802.11 ax160	2.2800	2.5600	89.06	0.50

802.11a (SISO A)



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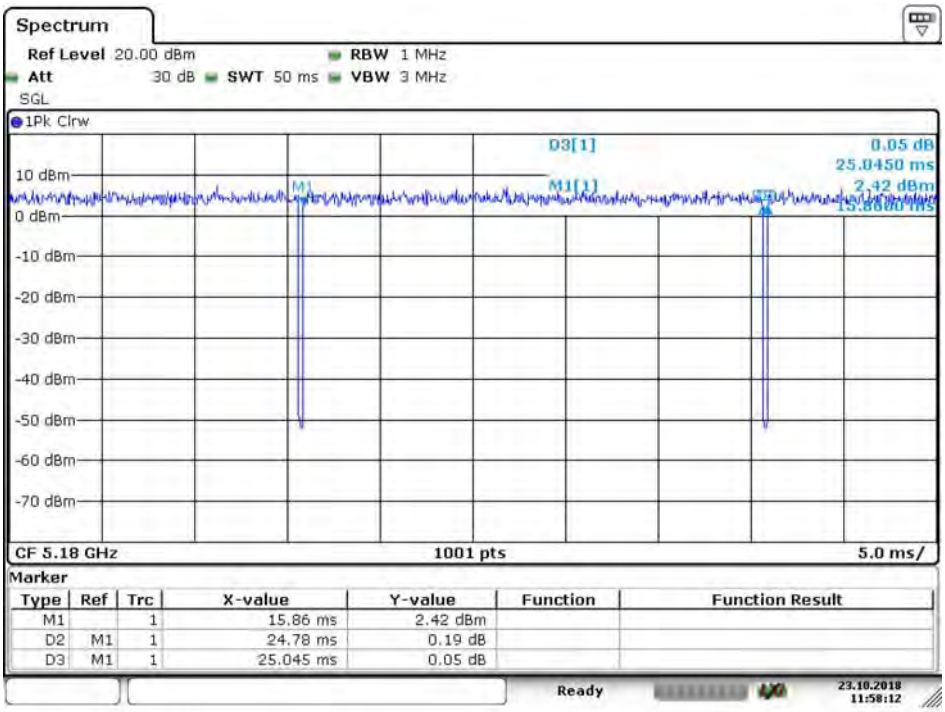
802.11n20 (SISO A)



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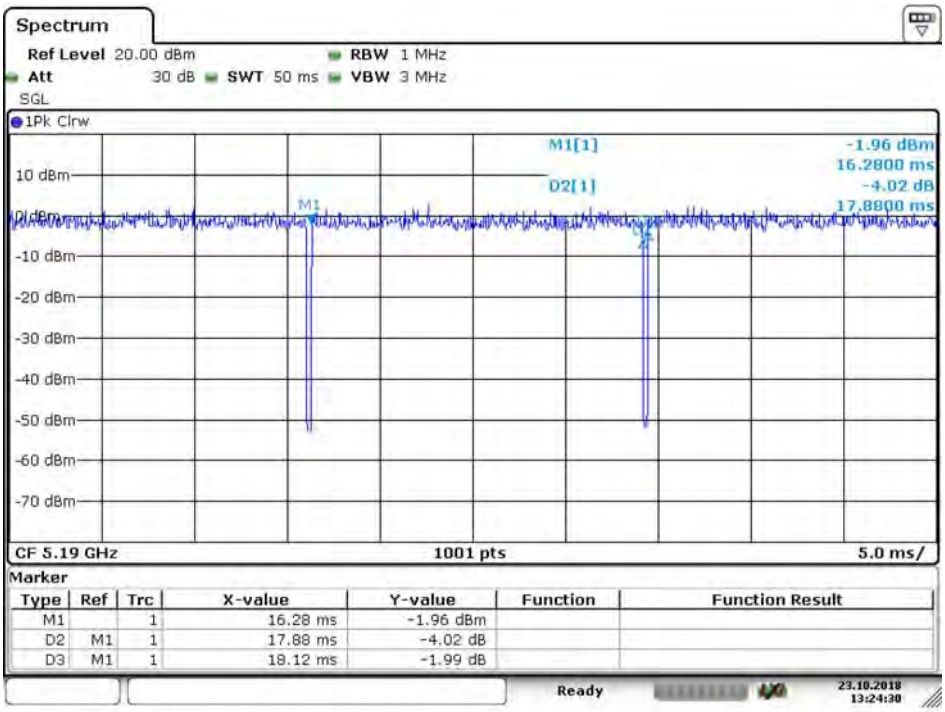
802.11n40 (SISO A)



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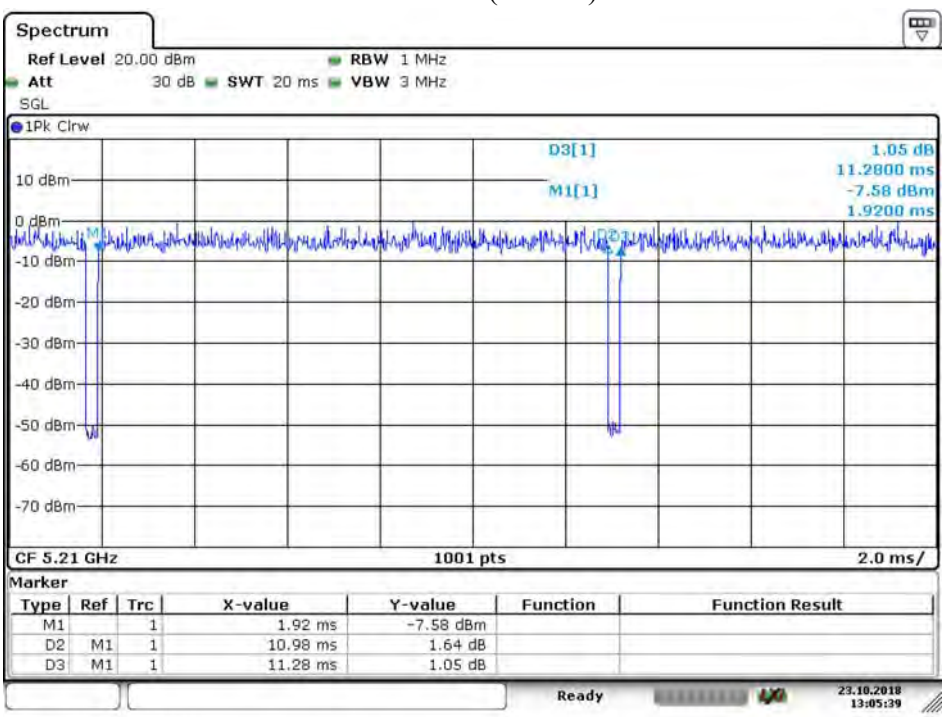
802.11ac80 (SISO A)



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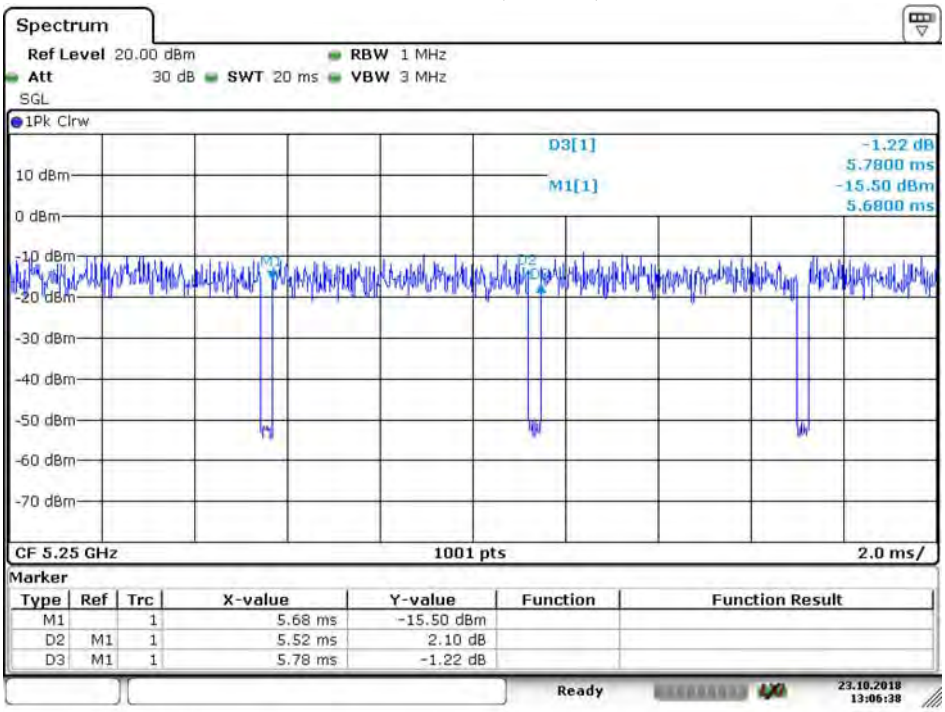
802.11ac160 (SISO A)



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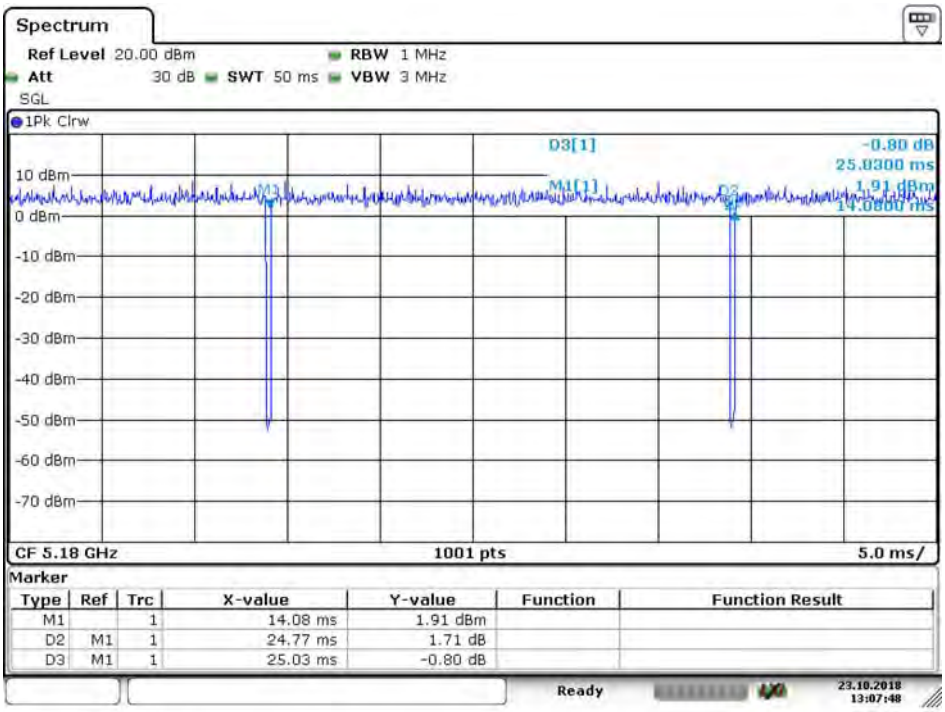
802.11ax20 (SISO A)



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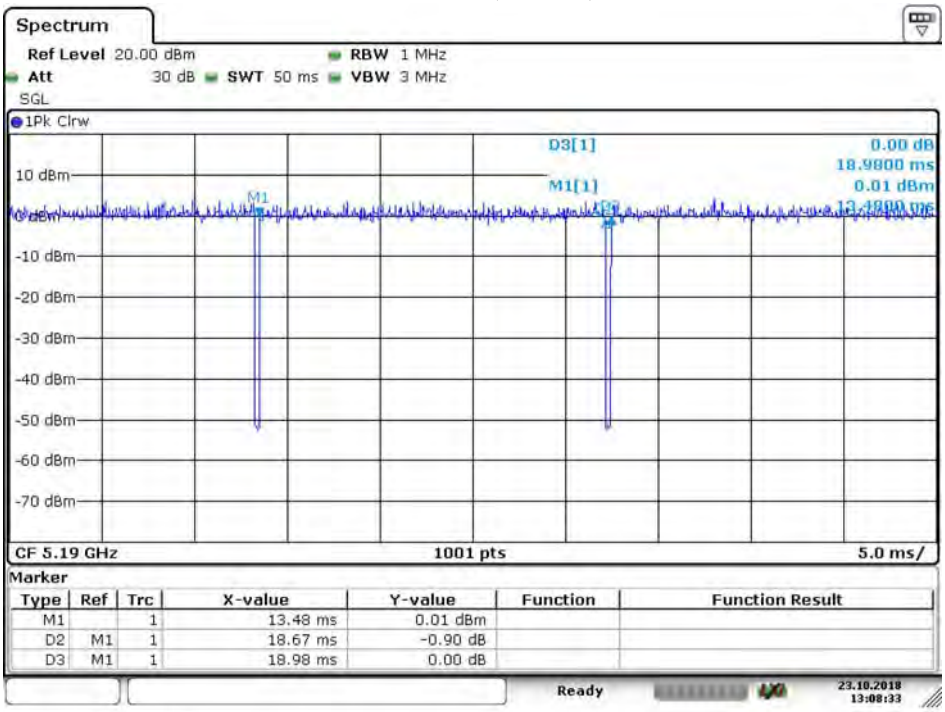
802.11ax40 (SISO A)



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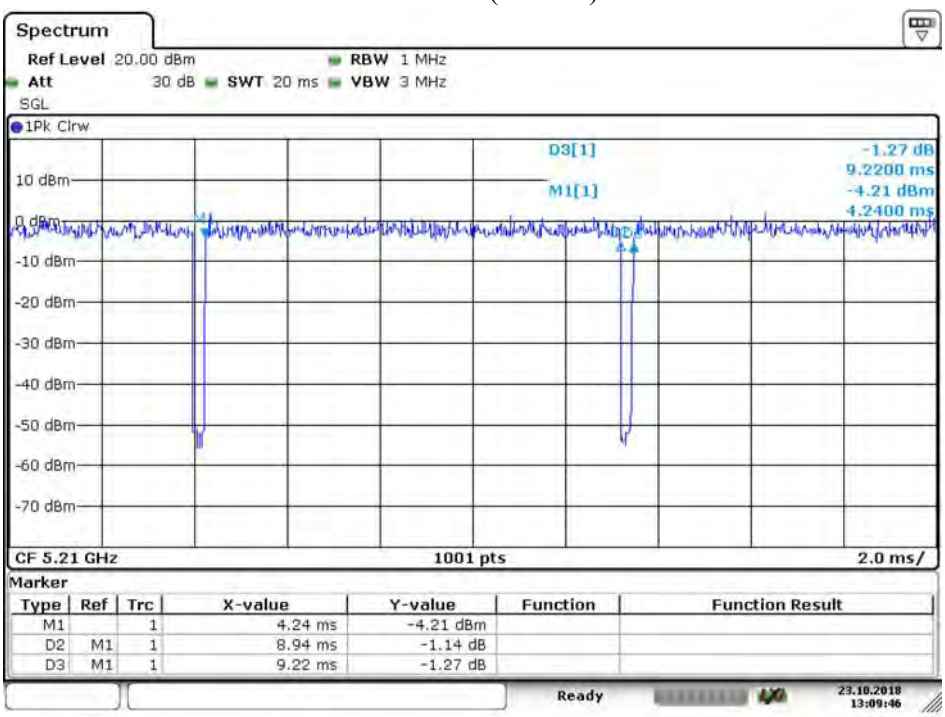
802.11ax80 (SISO A)



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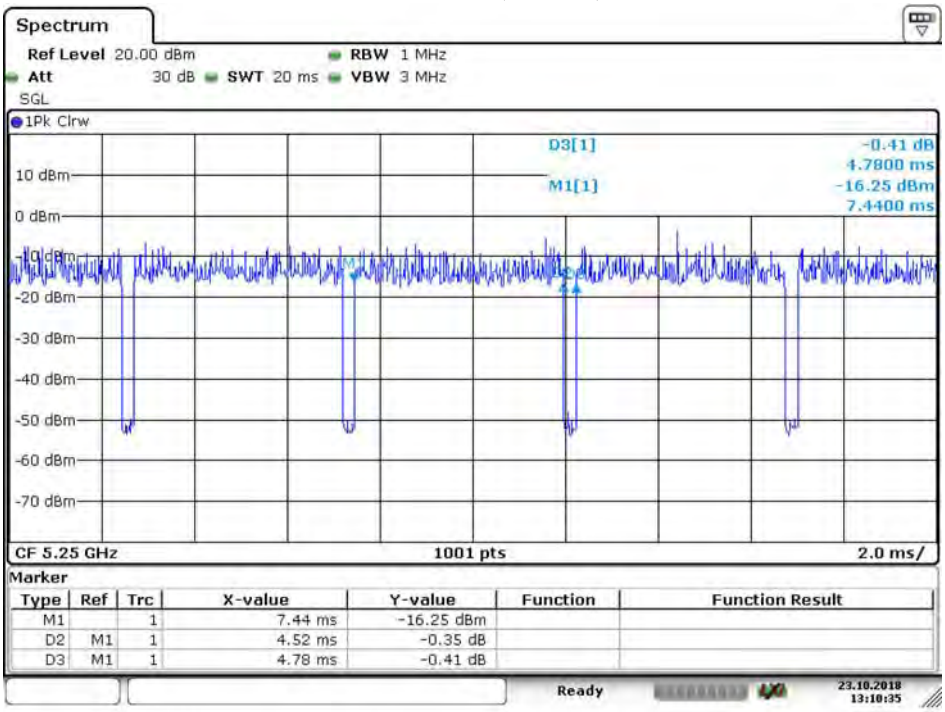
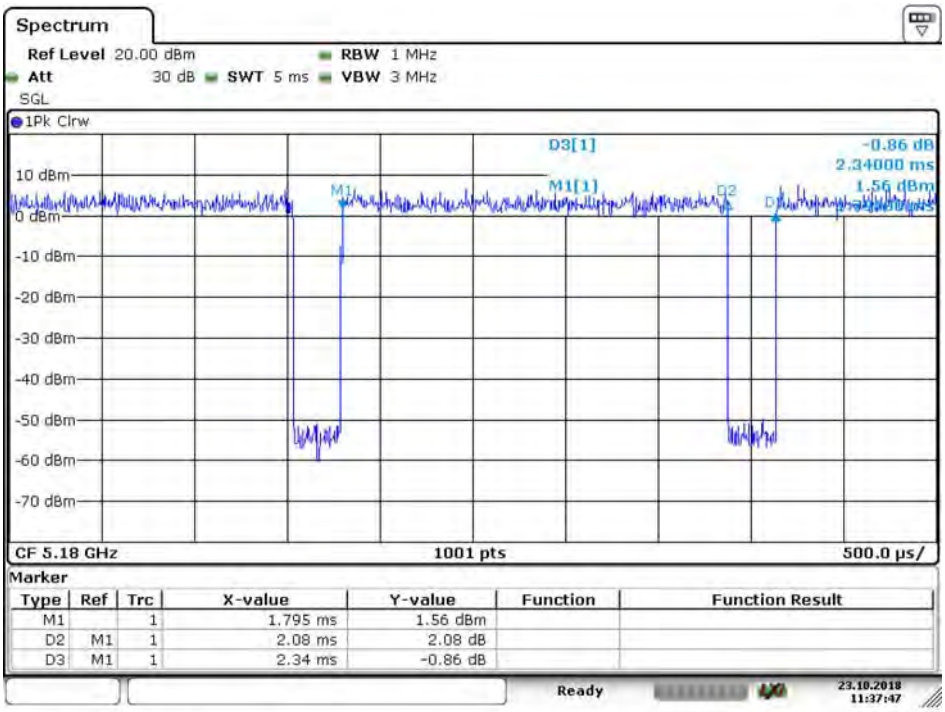
802.11ax160 (SISO A)



802.11a (SISO B)



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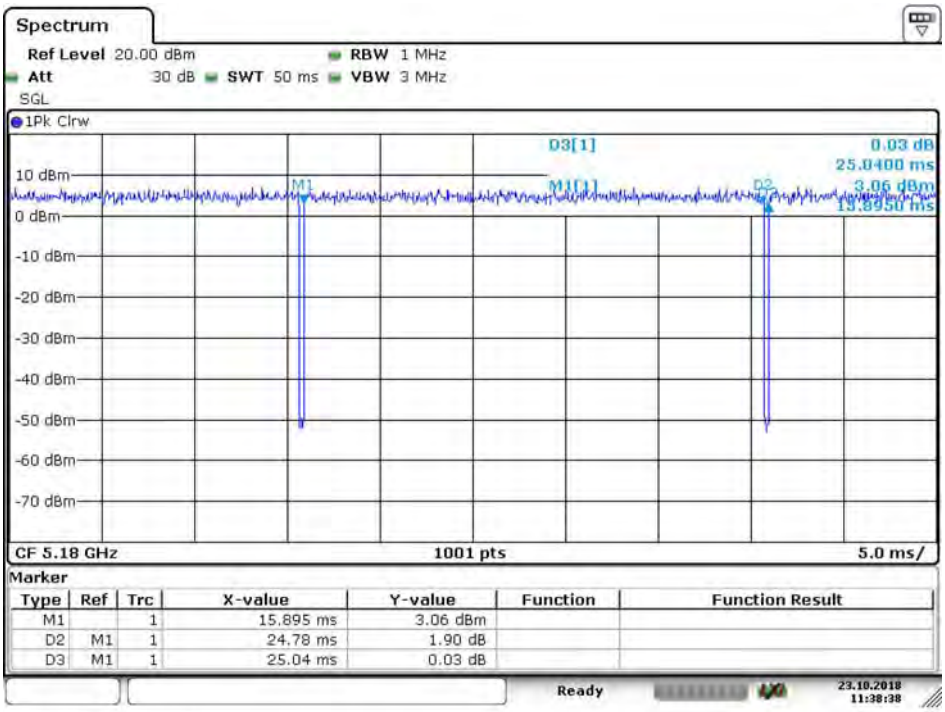
802.11n20 (SISO B)



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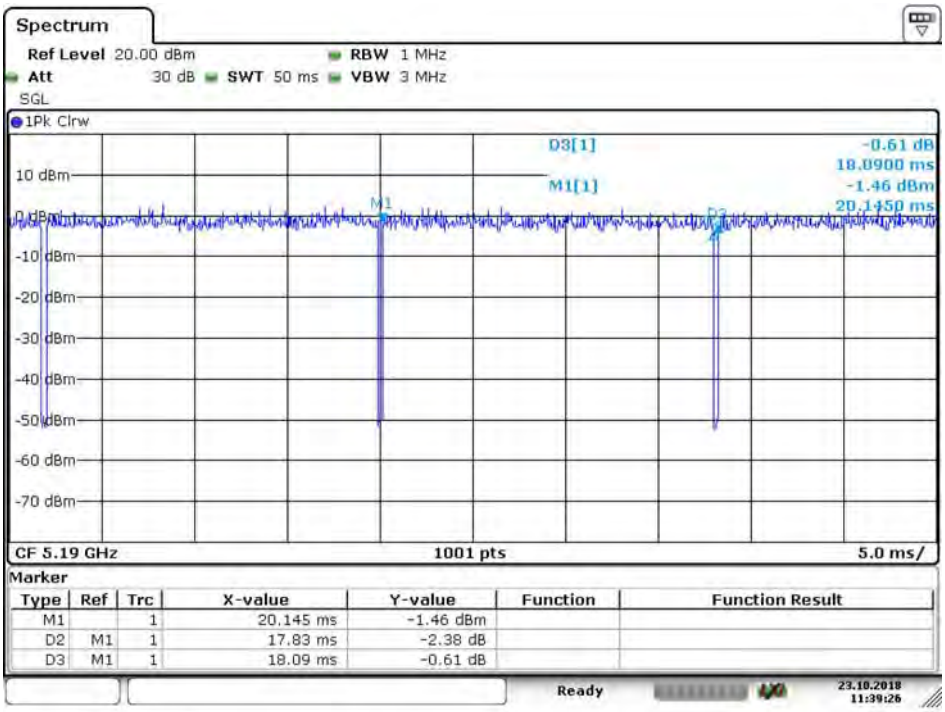

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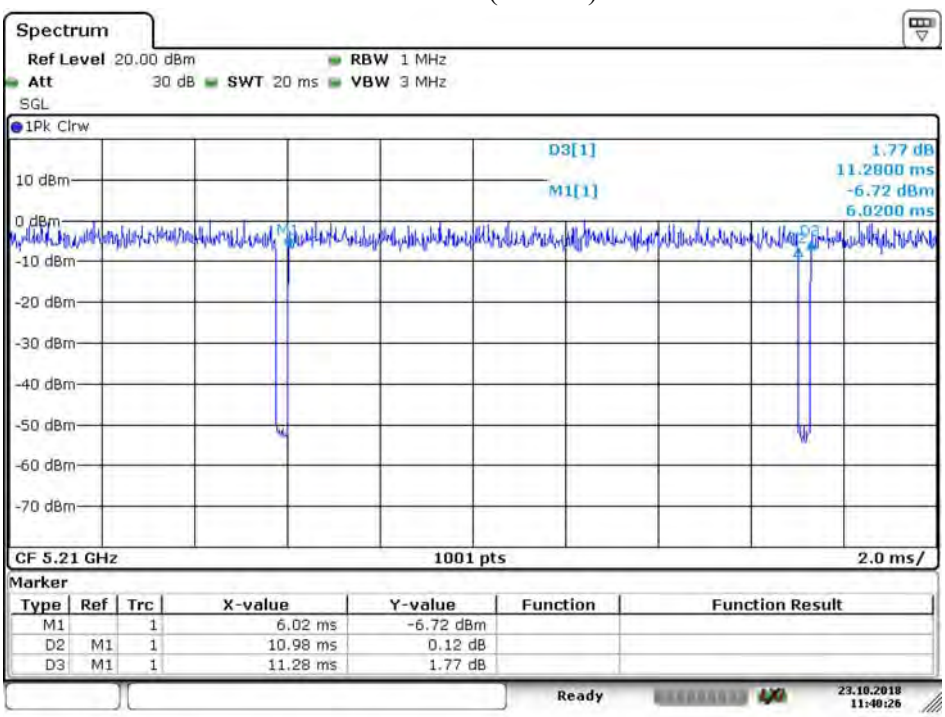

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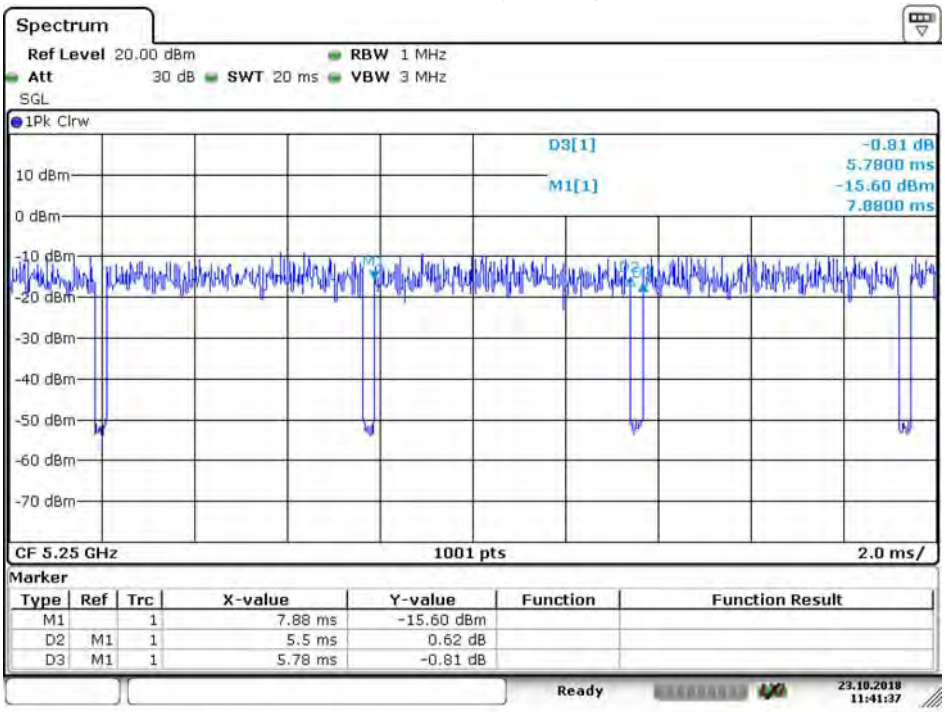
802.11ac160 (SISO B)



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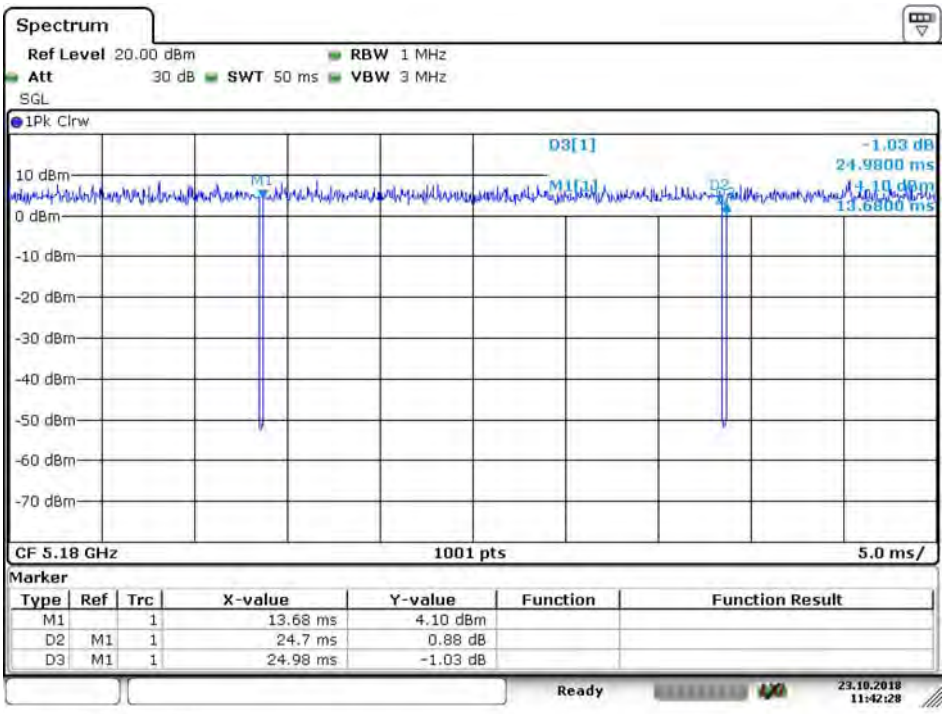
802.11ax20 (SISO B)



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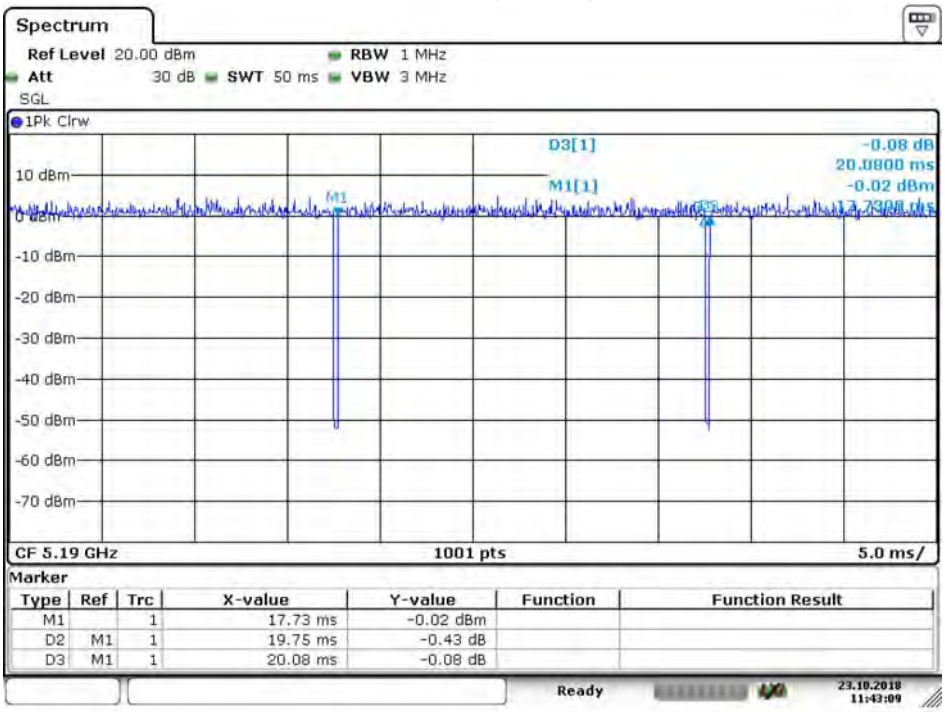

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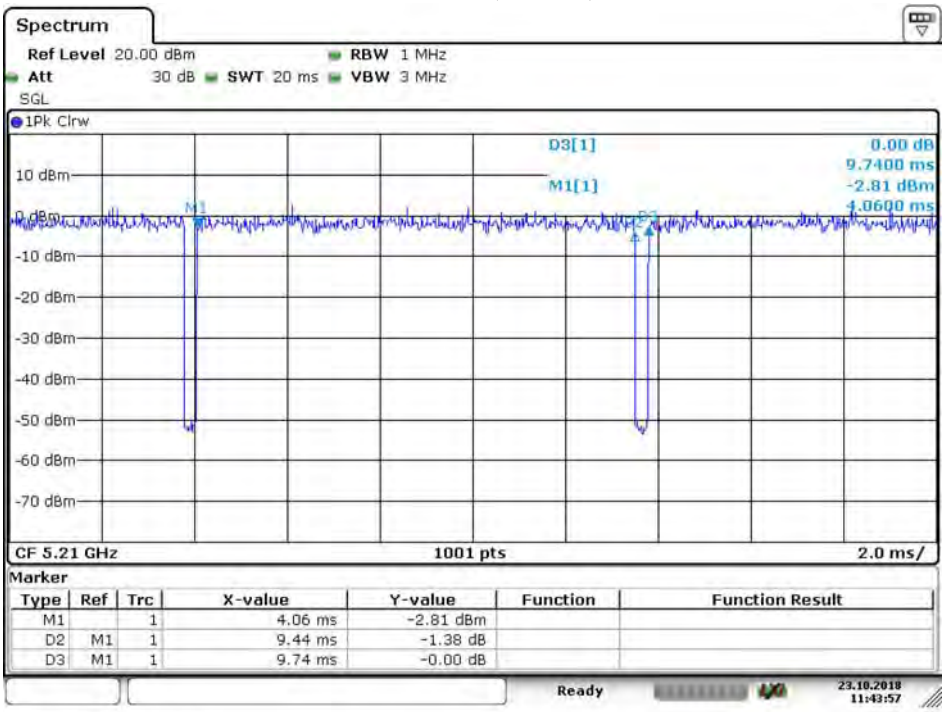
802.11ax80 (SISO B)



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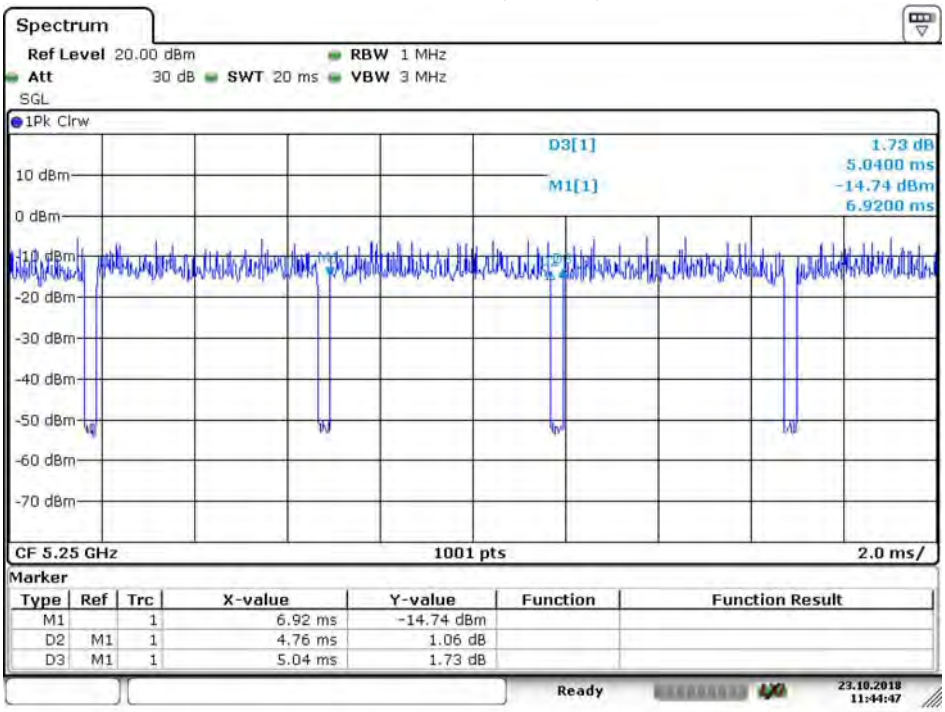
802.11ax160 (SISO B)



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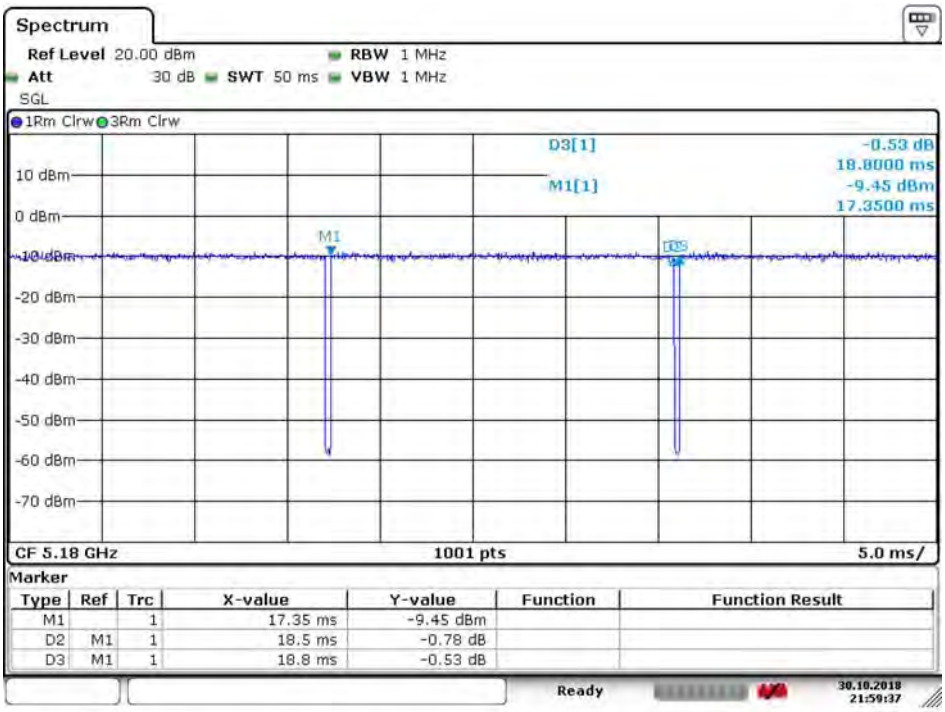
802.11n20 (MIMO)



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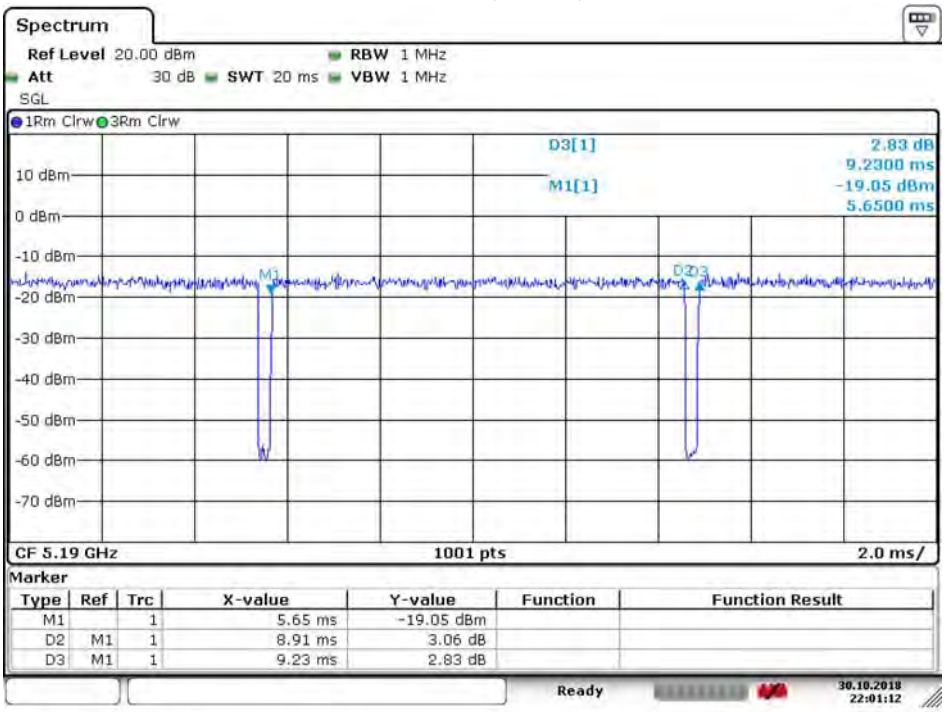
802.11n40 (MIMO)



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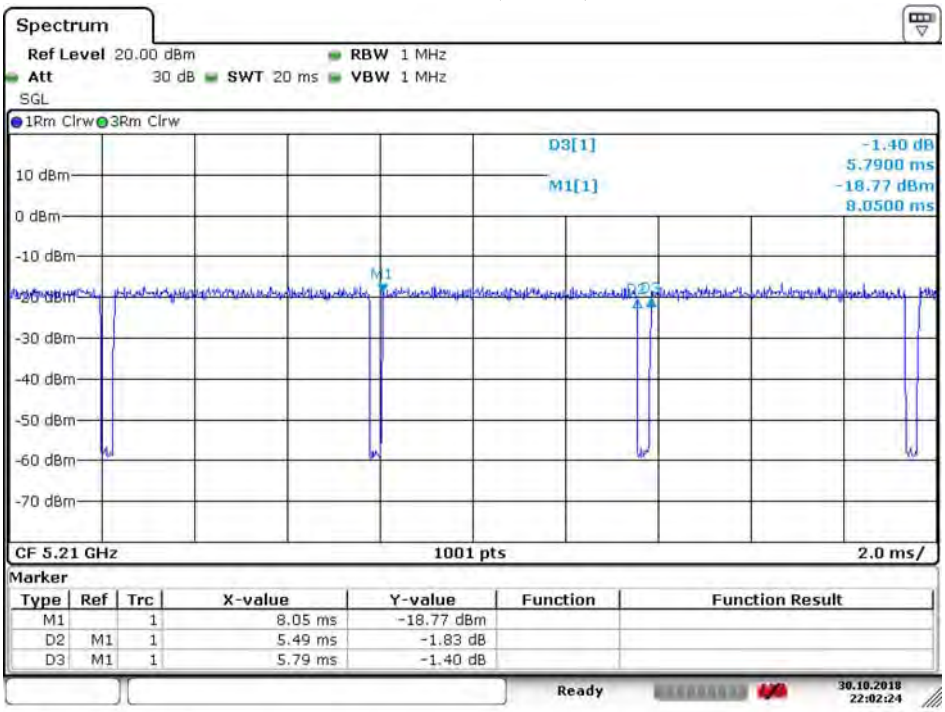

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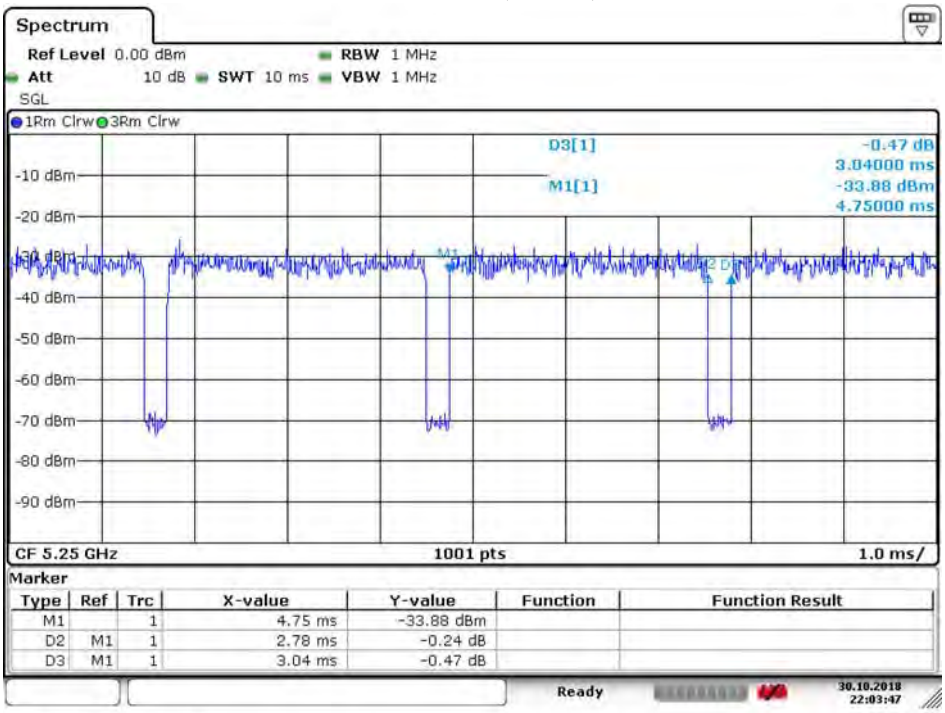

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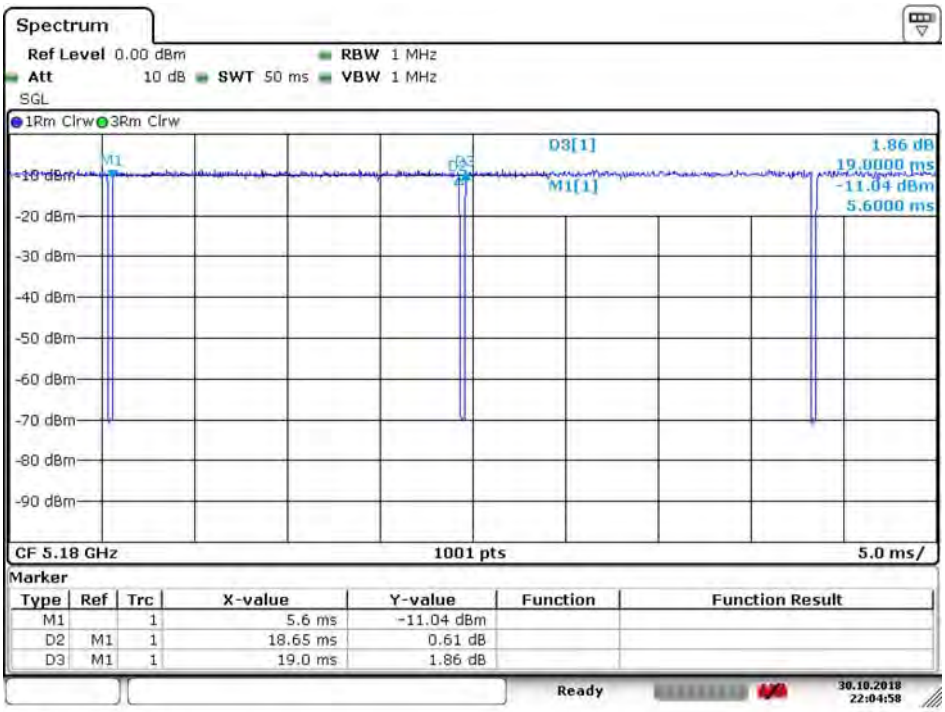
802.11ax20 (MIMO)



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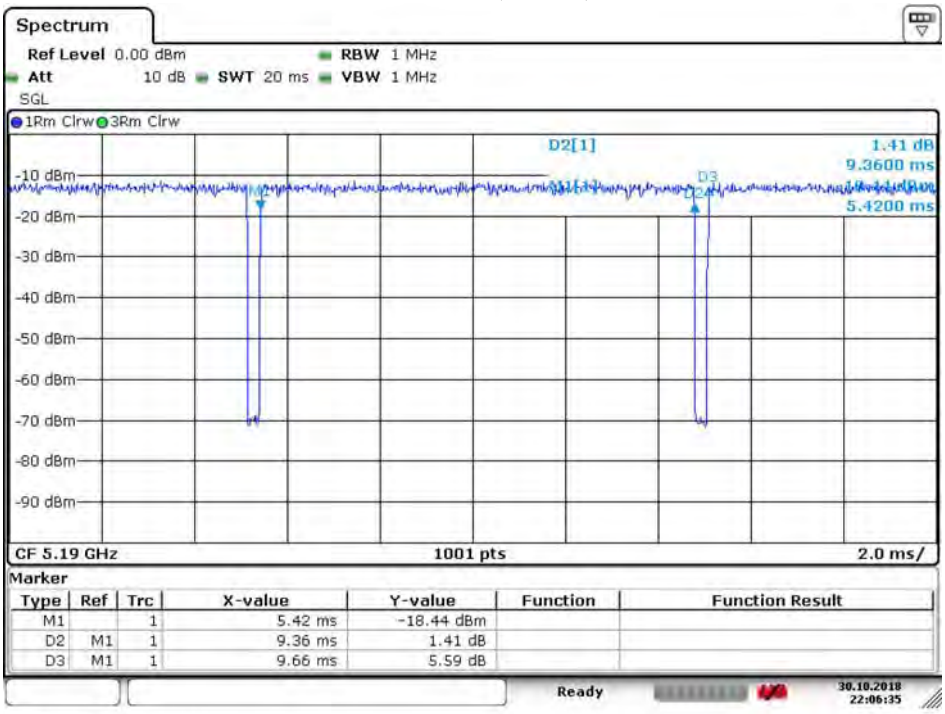
802.11ax40 (MIMO)



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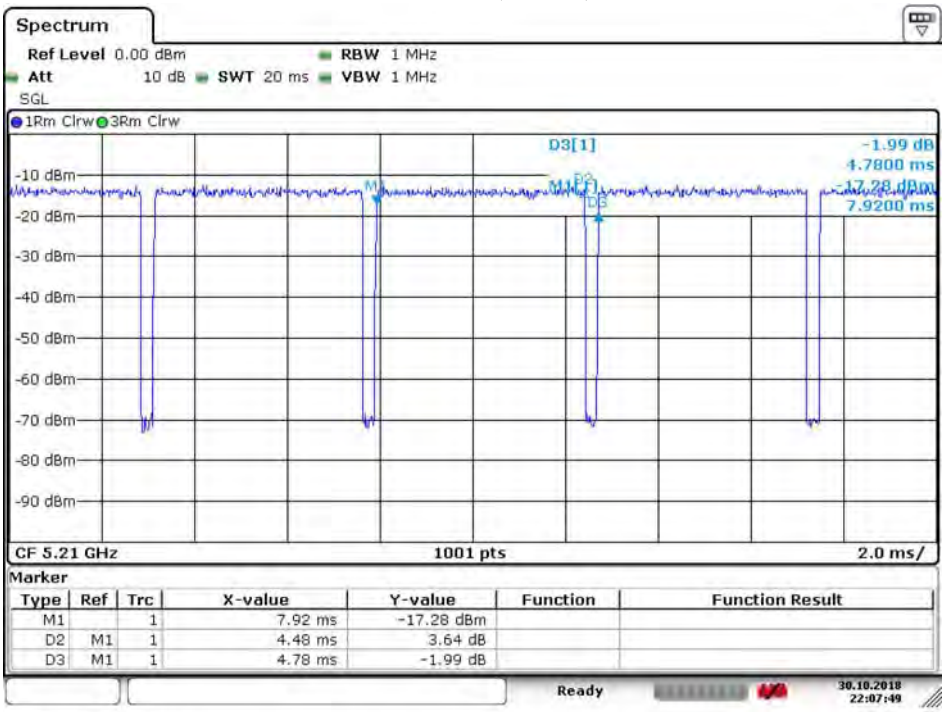
802.11ax80 (MIMO)



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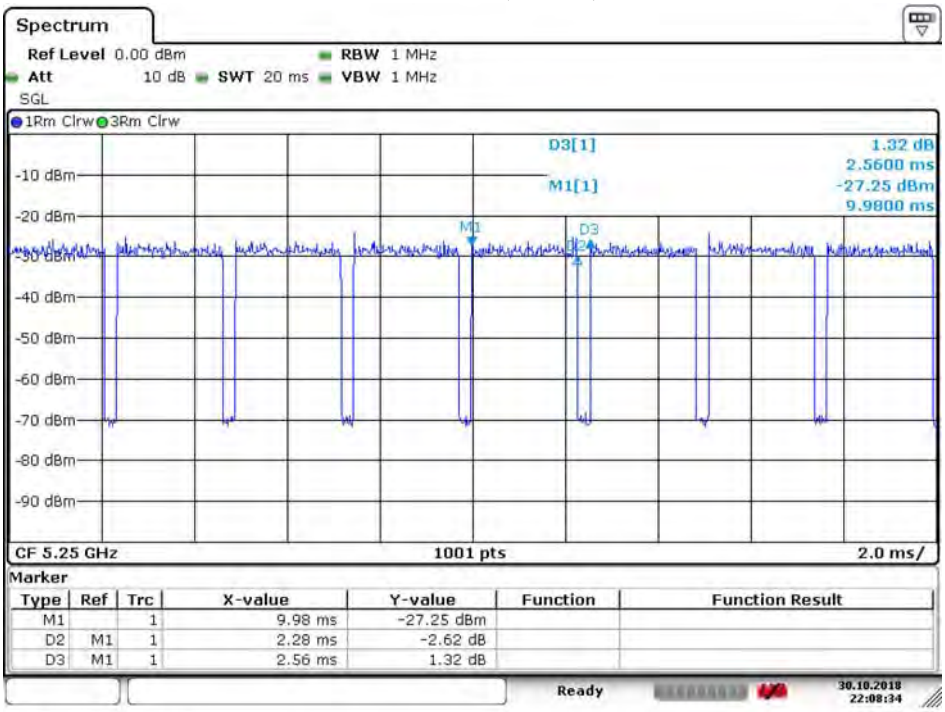
802.11ax160 (MIMO)



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