

待測物名稱：Wireless Access Point

待測物型號：AP305C、AP305CX

測試頻道：--

6 dB 頻寬：100kHz

量測天線：--

檢測器：峰值

測試日期：108 年 11 月 23 日

測試項目：佔用頻帶寬度

測試模式：Mode 70: Radio 1_Beamforming: 發射器
802.11ax-80BW

視頻頻寬：300kHz

測試距離：Conducted

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	76600	>500	Pass
155	5775	B	77800	>500	Pass

Figure Channel 155 (Chain A)

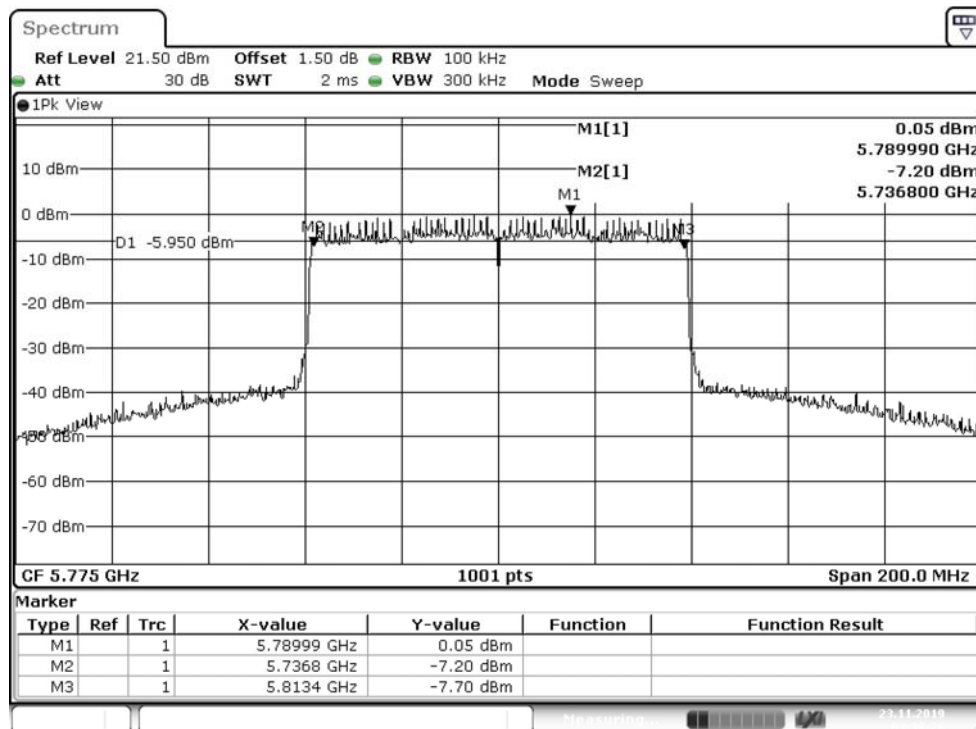
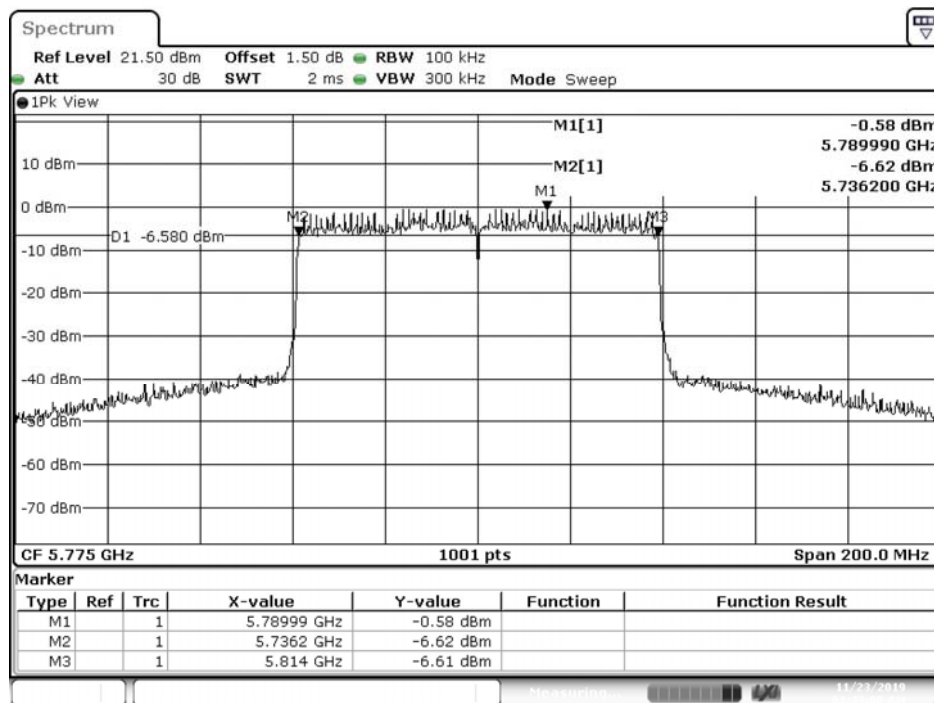


Figure Channel 155 (Chain B)



Date: 23.NOV.2019 01:43:01

佔用頻帶寬度測試結果:

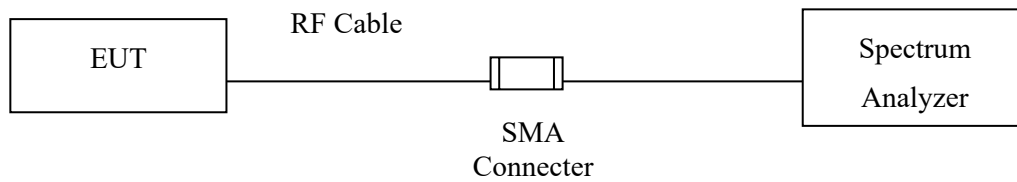
PASS

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 $\pm 2.31\text{msec}$

12.4. Duty Cycle 測試結果

待測物名稱：Wireless Access Point

待測物型號：AP305C、AP305CX

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108 年 11 月 01 日

測試項目：Duty Cycle

測試模式：--

測試距離：Conducted

Duty Cycle Formula:

$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$

$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$

Results:

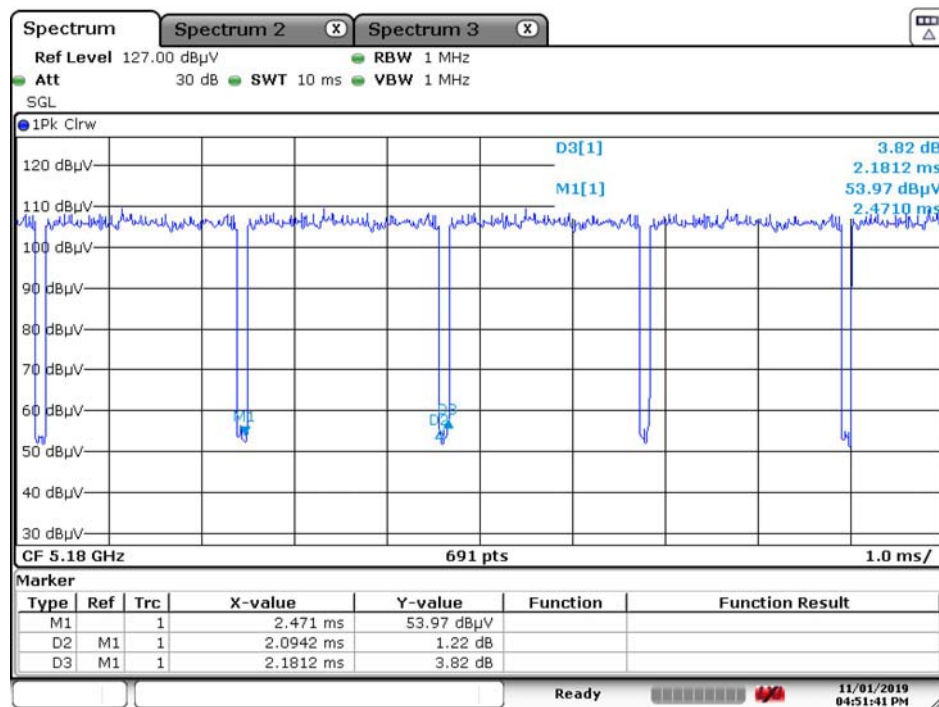
SISO A-Radio 0

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0942	2.1812	96.01	0.18
802.11 n20	1.9638	2.0362	96.44	0.16
802.11 n40	0.9637	1.0507	91.72	0.38
802.11 ac20	1.9492	1.9637	99.26	0.03
802.11 ac40	0.9681	0.9840	98.38	0.07
802.11 ac80	0.4666	0.4898	95.26	0.21
802.11 ax20	1.4956	1.5188	98.47	0.07
802.11 ax40	0.7927	0.8159	97.16	0.13
802.11 ax80	0.4217	0.4449	94.79	0.23

SISO A-Radio 1

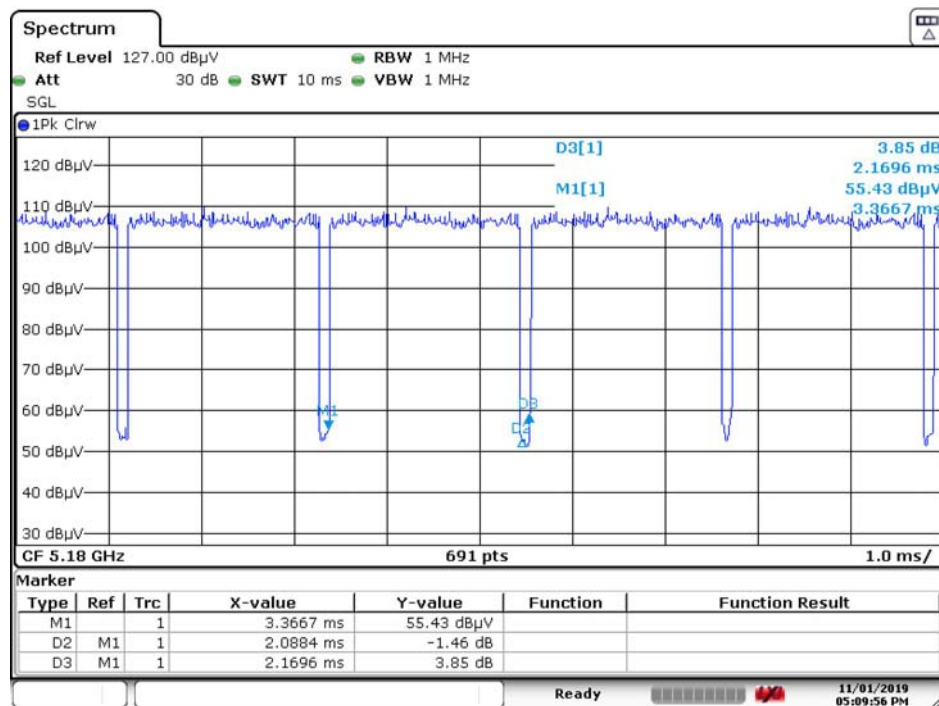
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0884	2.1696	96.26	0.17
802.11 n20	1.9580	2.0246	96.71	0.15
802.11 n40	0.9666	1.0463	92.38	0.34
802.11 ac20	1.9449	1.9594	99.26	0.03
802.11 ac40	0.9681	0.9840	98.38	0.07
802.11 ac80	0.4695	0.4898	95.86	0.18
802.11 ax20	1.5058	1.5188	99.14	0.04
802.11 ax40	0.7899	0.8130	97.15	0.13
802.11 ax80	0.4246	0.4478	94.82	0.23

802.11a (Radio 0_Chain A)



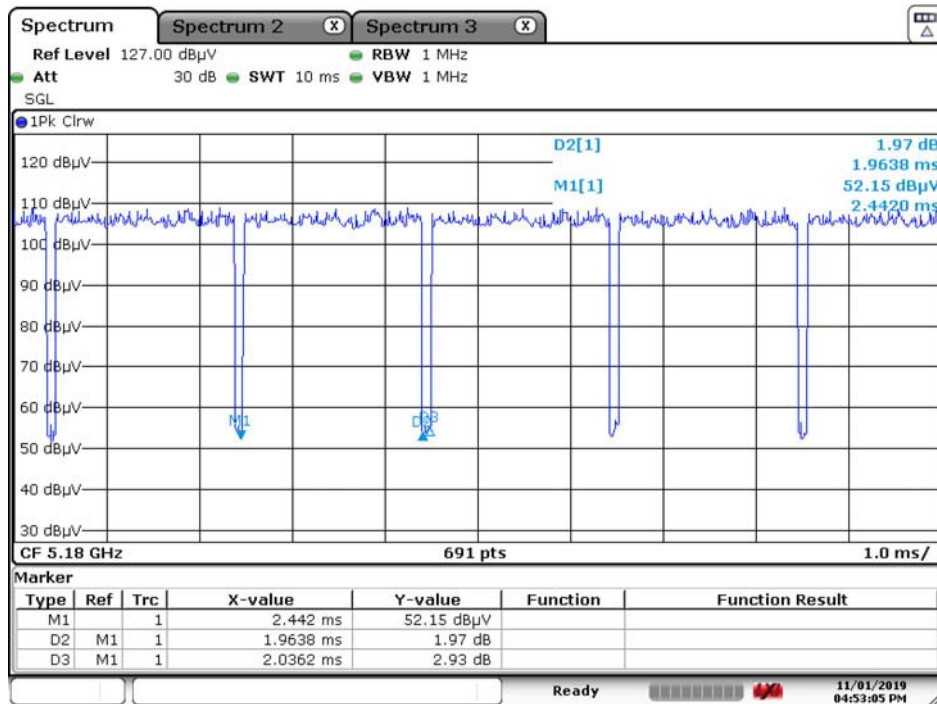
Date: 1.NOV.2019 16:51:41

802.11a (Radio 1_Chain A)



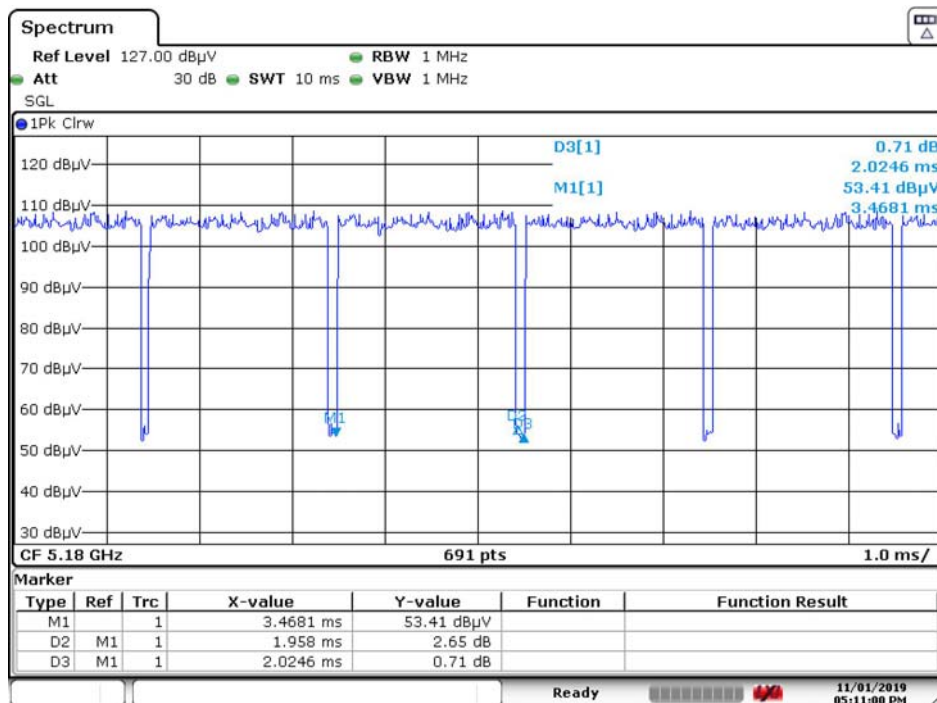
Date: 1.NOV.2019 17:09:56

802.11n20 (Radio 0_Chain A)



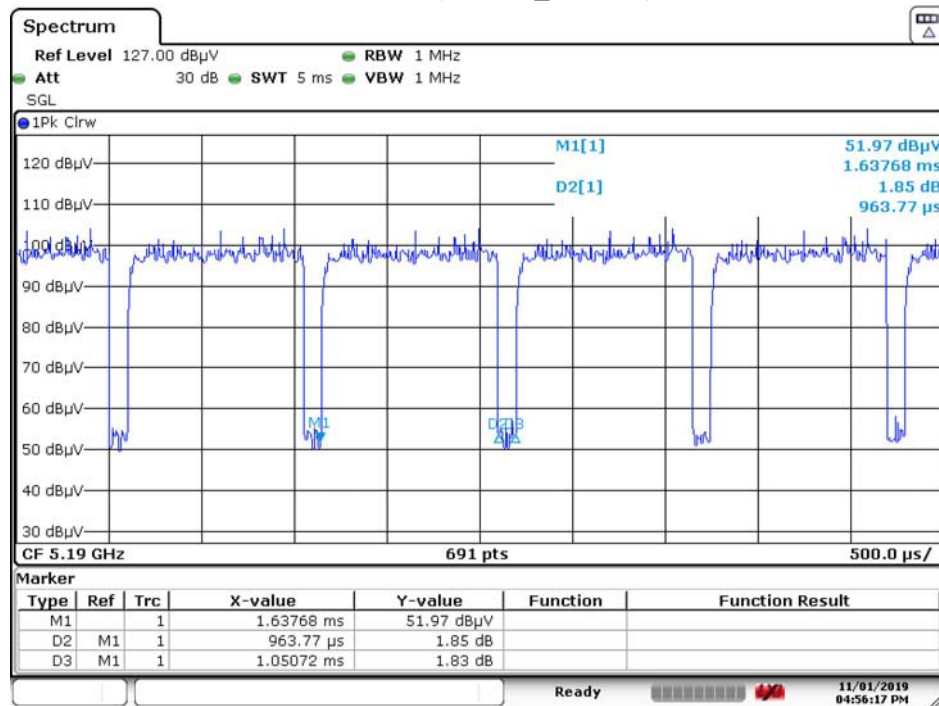
Date: 1.NOV.2019 16:53:05

802.11n20 (Radio 1_Chain A)



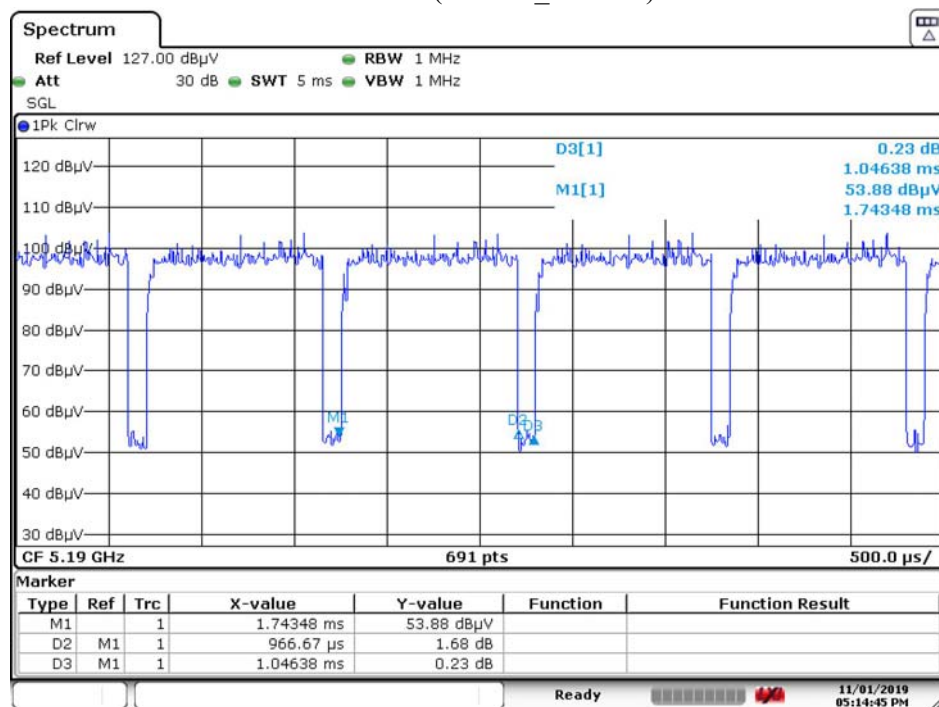
Date: 1.NOV.2019 17:11:00

802.11n40 (Radio 0_Chain A)



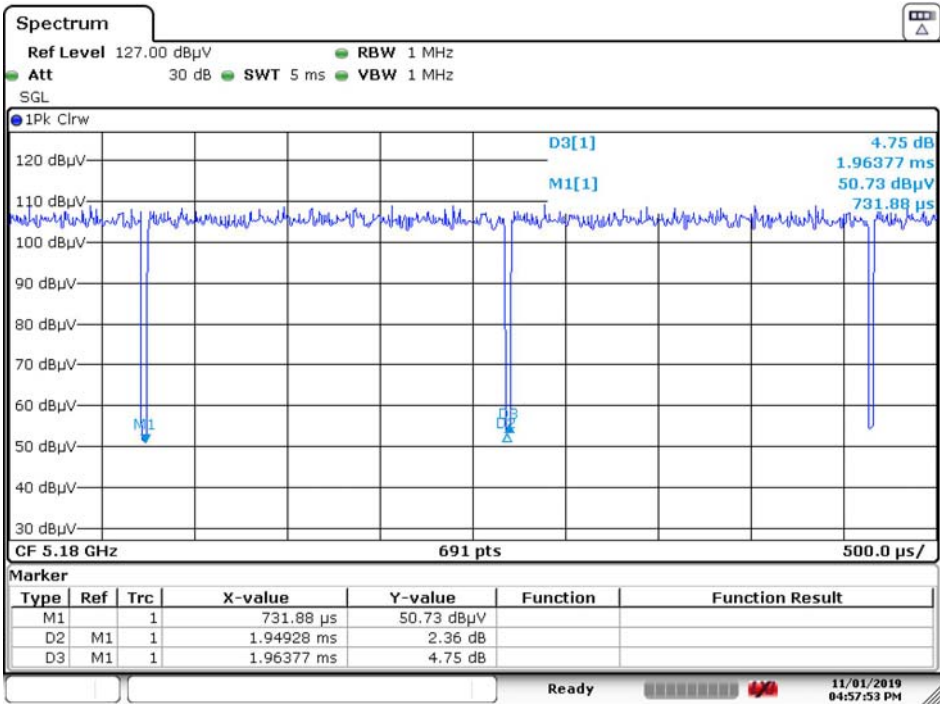
Date: 1.NOV.2019 16:56:18

802.11n40 (Radio 1_Chain A)



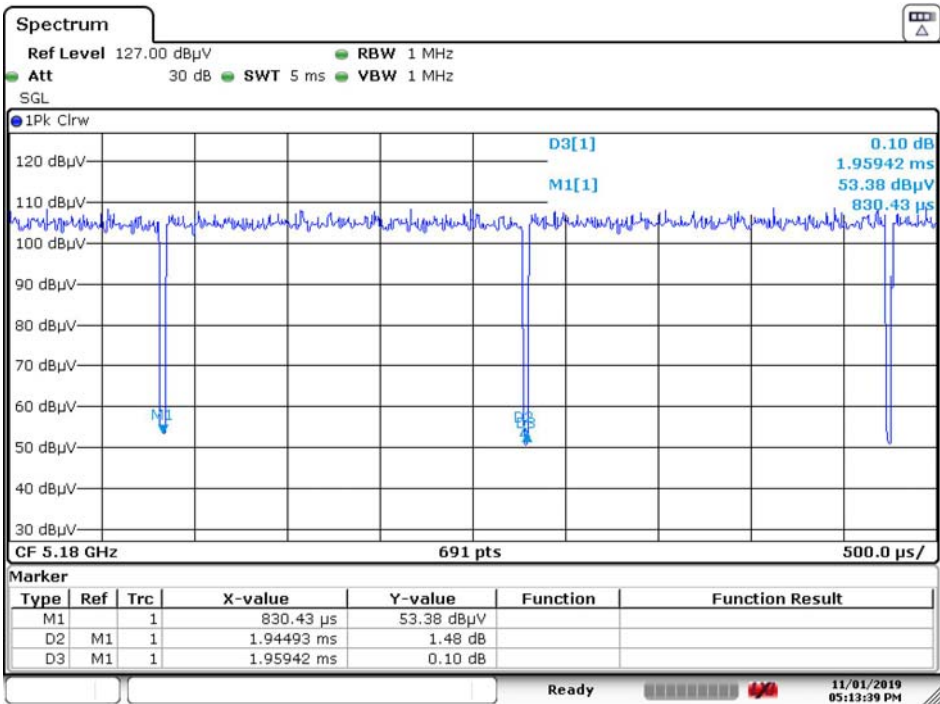
Date: 1.NOV.2019 17:14:45

802.11ac20 (Radio 0_Chain A)



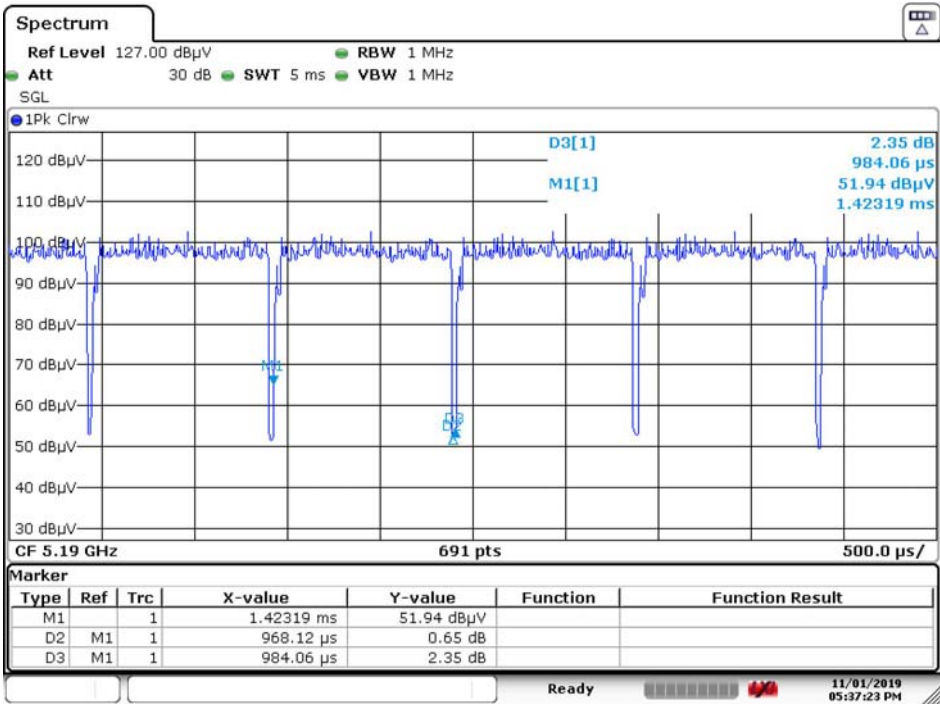
Date: 1.NOV.2019 16:57:53

802.11ac20 (Radio 1_Chain A)



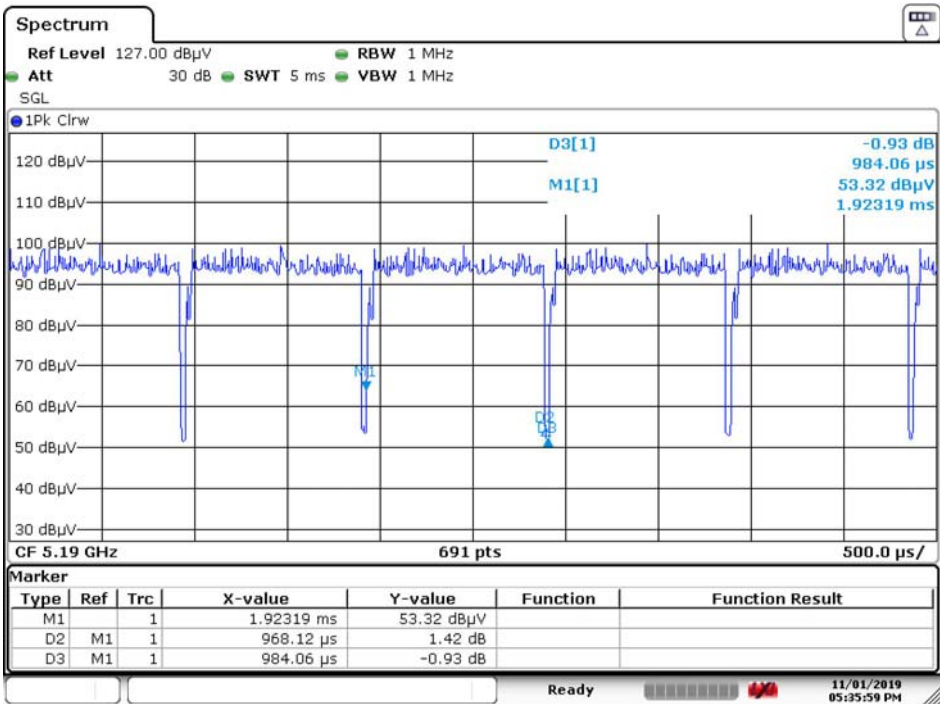
Date: 1.NOV.2019 17:13:39

802.11ac40 (Radio 0_Chain A)



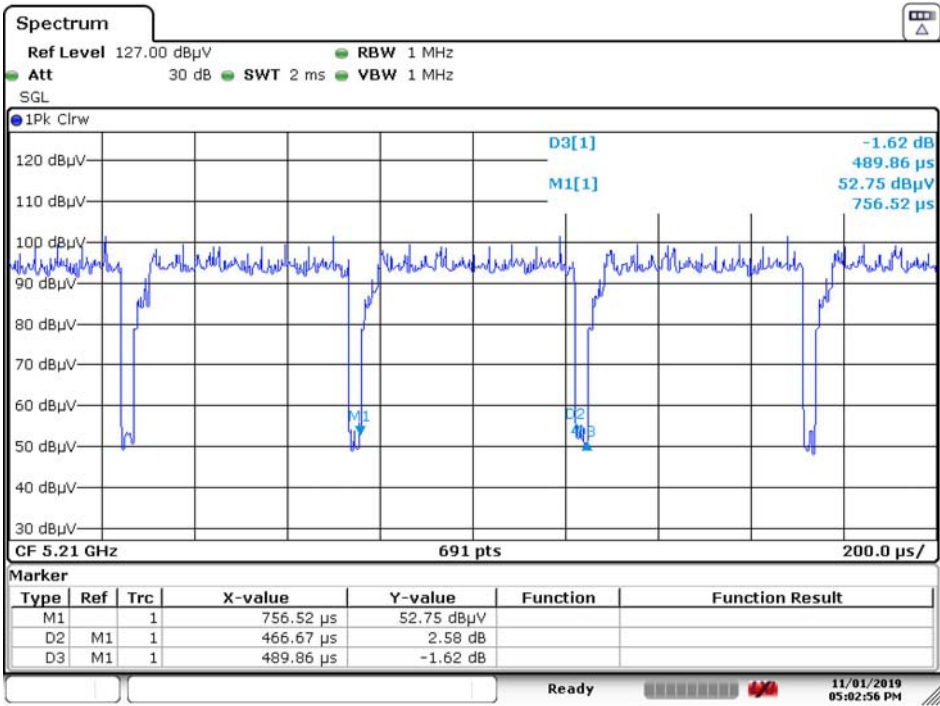
Date: 1.NOV.2019 17:37:24

802.11ac40 (Radio 1_Chain A)



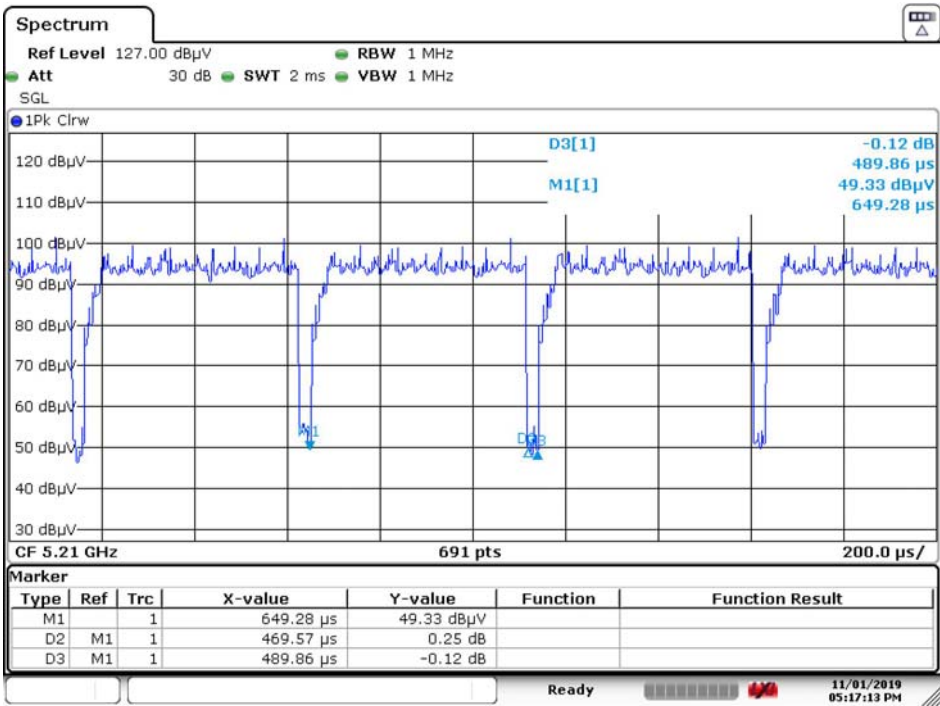
Date: 1.NOV.2019 17:35:59

802.11ac80 (Radio 0_Chain A)



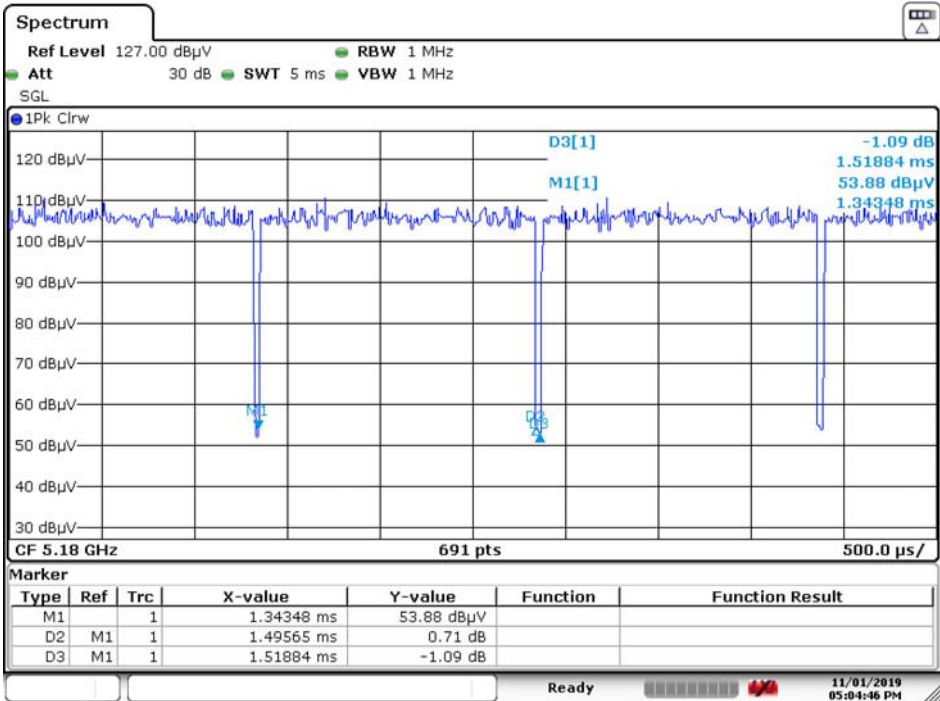
Date: 1.NOV.2019 17:02:56

802.11ac80 (Radio 1_Chain A)



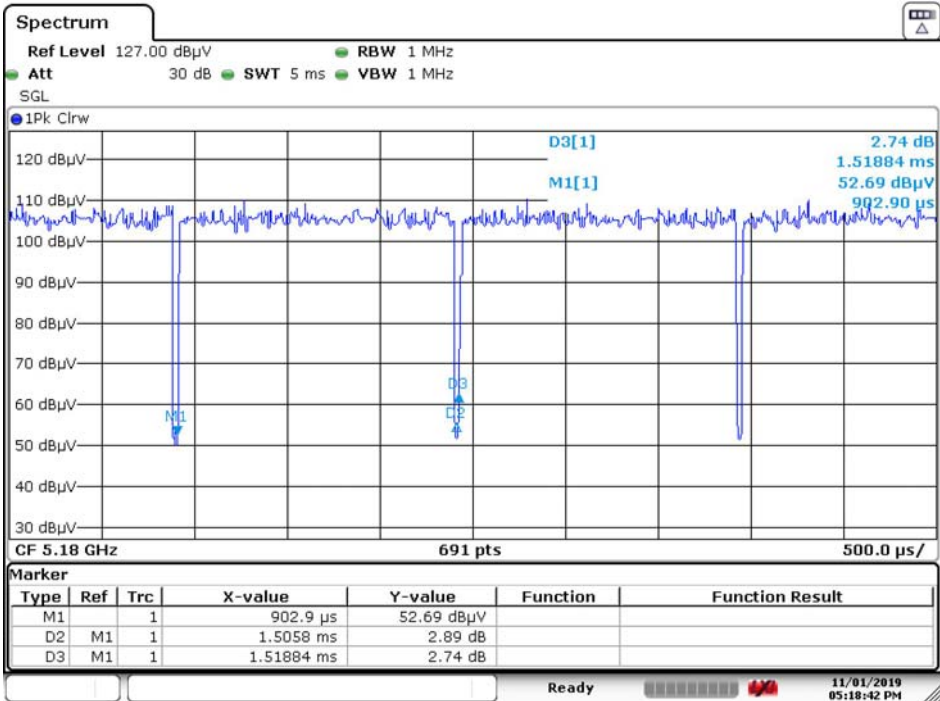
Date: 1.NOV.2019 17:17:13

802.11ax20 (Radio 0_Chain A)



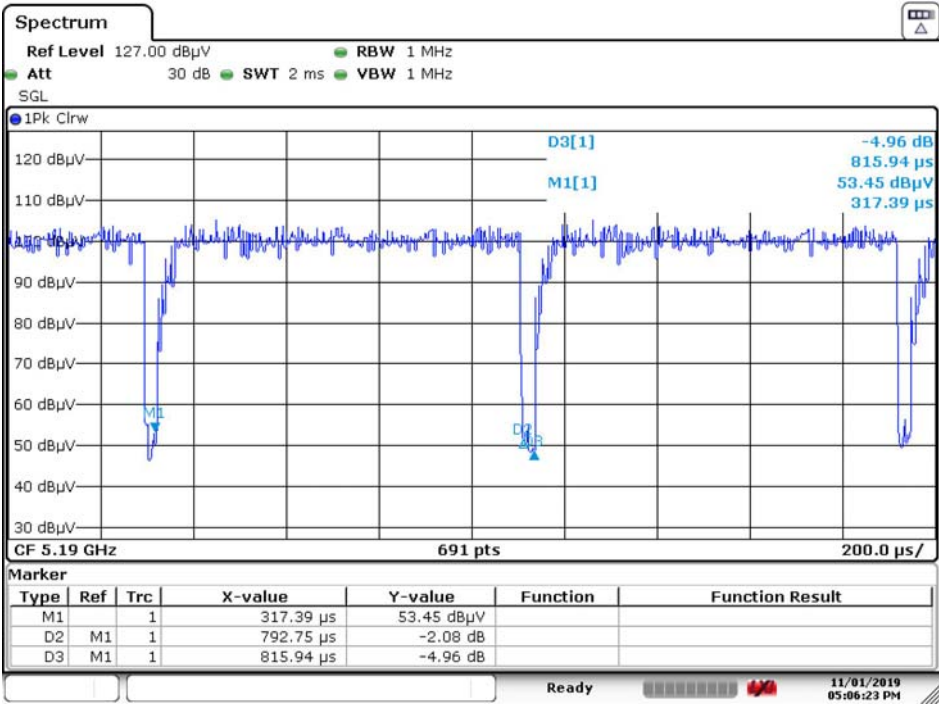
Date: 1.NOV.2019 17:04:47

802.11ax20 (Radio 1_Chain A)



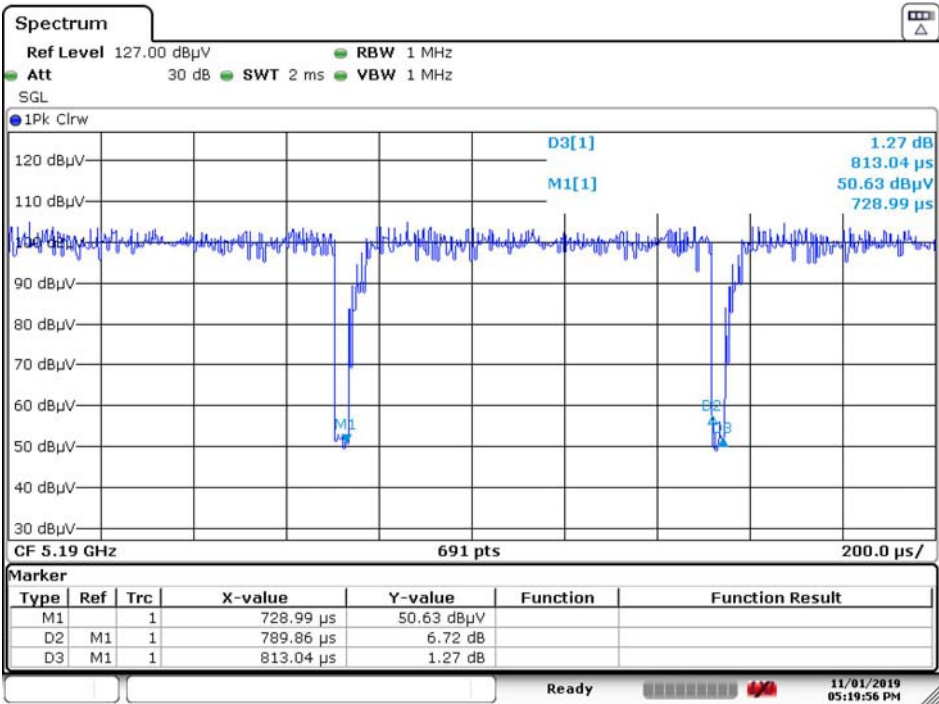
Date: 1.NOV.2019 17:18:42

802.11ax40 (Radio 0_Chain A)



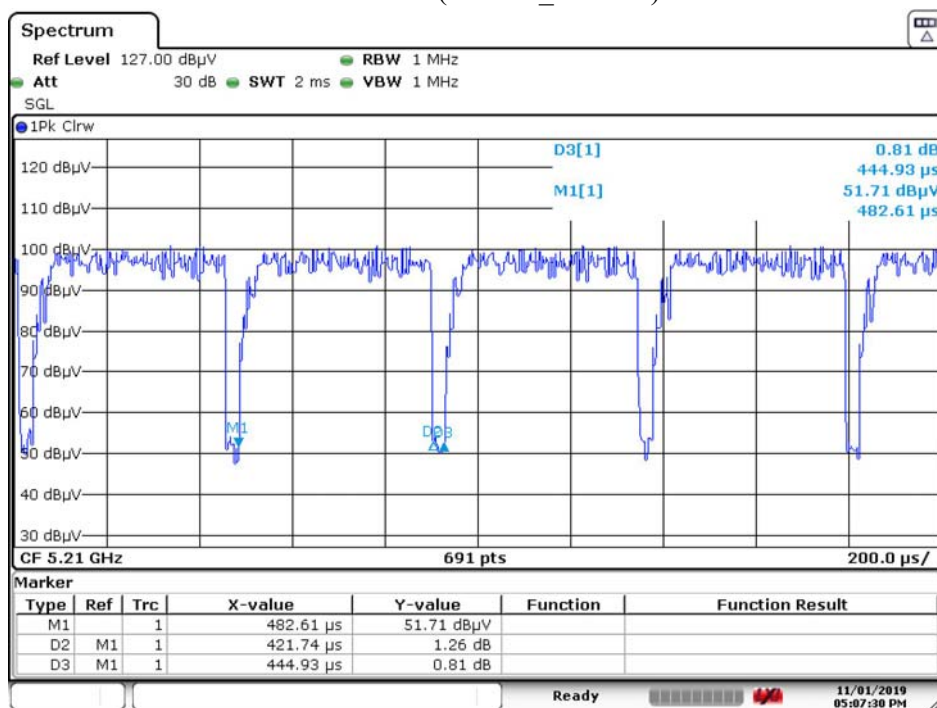
Date: 1.NOV.2019 17:06:23

802.11ax40 (Radio 1_Chain A)



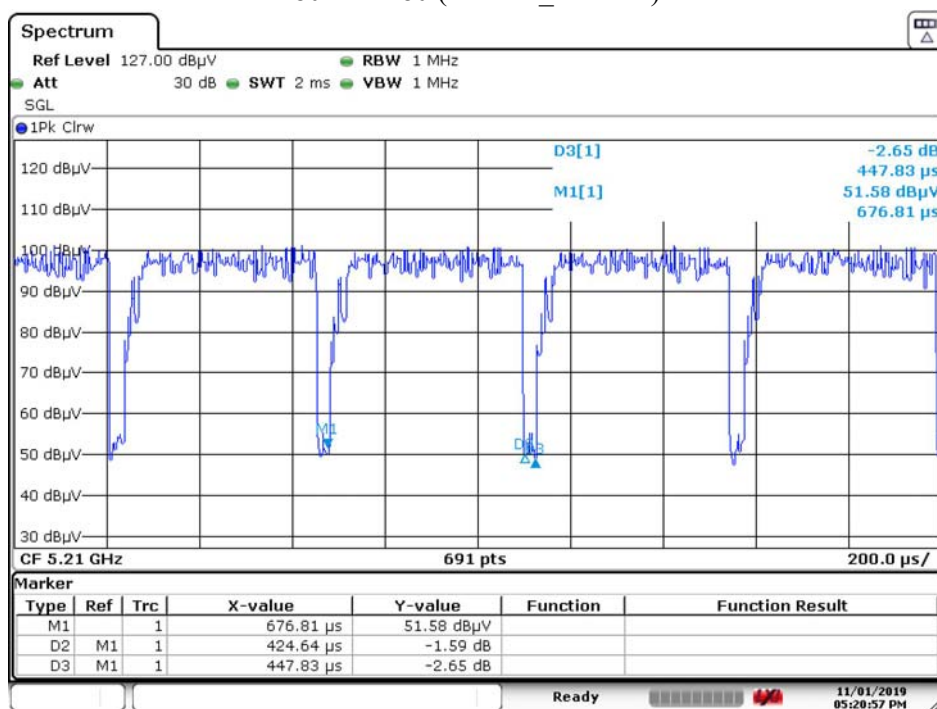
Date: 1.NOV.2019 17:19:57

802.11ax80 (Radio 0_Chain A)



Date: 1.NOV.2019 17:07:30

802.11ax80 (Radio 1_Chain A)



Date: 1.NOV.2019 17:20:57

待測物名稱：Wireless Access Point

待測物型號：AP305C、AP305CX

測試項目：Duty Cycle

測試頻道：--

測試模式：--

量測天線：--

測試距離：Conducted

檢測器：峰值

測試日期：108年11月01日

Duty Cycle Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$
$$\text{Duty Factor} = 10 \text{ Log} (1/\text{Duty Cycle})$$

Results:

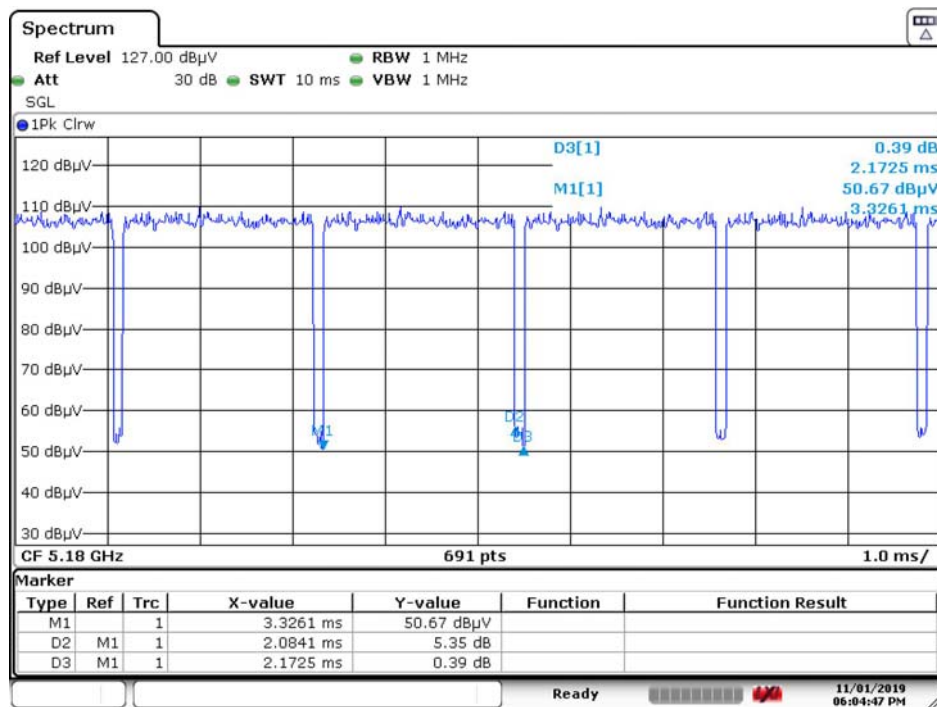
SISO B-Radio 0

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0841	2.1725	95.93	0.18
802.11 n20	1.9536	2.0275	96.36	0.16
802.11 n40	0.9608	1.0492	91.57	0.38
802.11 ac20	1.9463	1.9623	99.18	0.04
802.11 ac40	0.9681	0.9840	98.38	0.07
802.11 ac80	0.4666	0.4898	95.26	0.21
802.11 ax20	1.5029	1.5188	98.95	0.05
802.11 ax40	0.7898	0.8130	97.15	0.13
802.11 ax80	0.4217	0.4449	94.79	0.23

SISO B-Radio 1

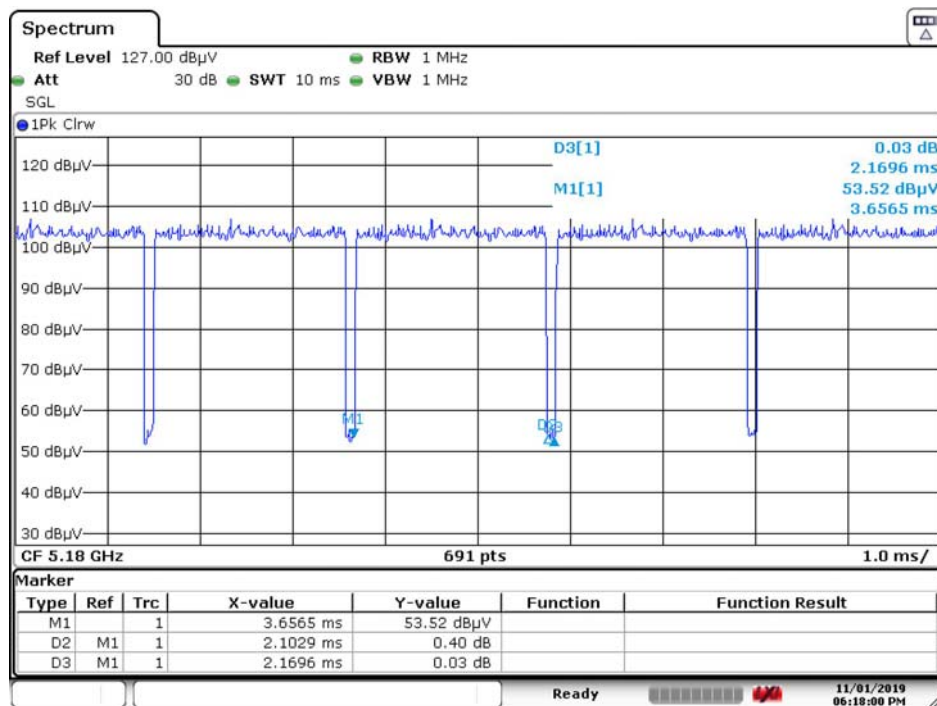
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.1029	2.1696	96.93	0.14
802.11 n20	1.9580	2.0246	96.71	0.15
802.11 n40	0.9652	1.0463	92.25	0.35
802.11 ac20	1.9434	1.9594	99.18	0.04
802.11 ac40	0.9724	0.9884	98.38	0.07
802.11 ac80	0.4666	0.4898	95.26	0.21
802.11 ax20	1.5101	1.5260	98.96	0.05
802.11 ax40	0.7884	0.8115	97.15	0.13
802.11 ax80	0.4202	0.4463	94.15	0.26

802.11a (Radio 0_Chain B)



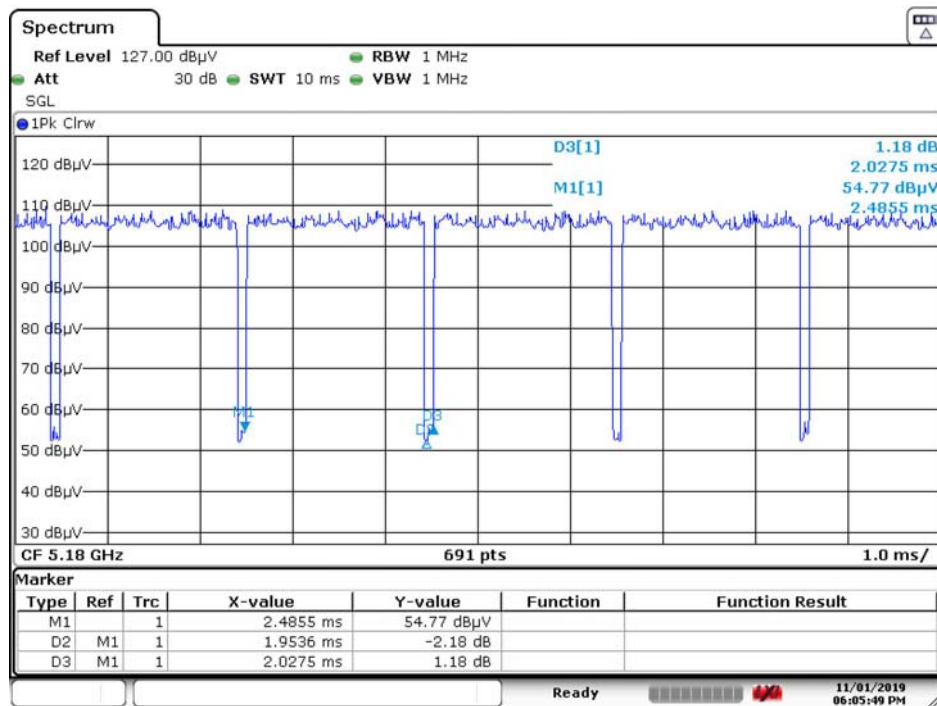
Date: 1.NOV.2019 18:04:48

802.11a (Radio 1_Chain B)



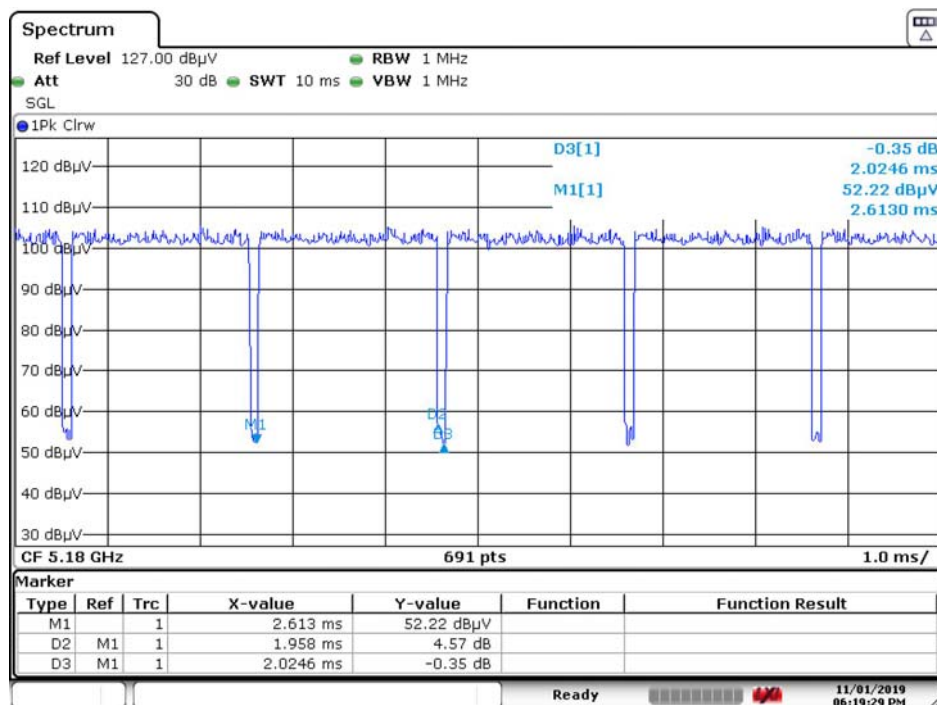
Date: 1.NOV.2019 18:18:01

802.11n20 (Radio 0_Chain B)



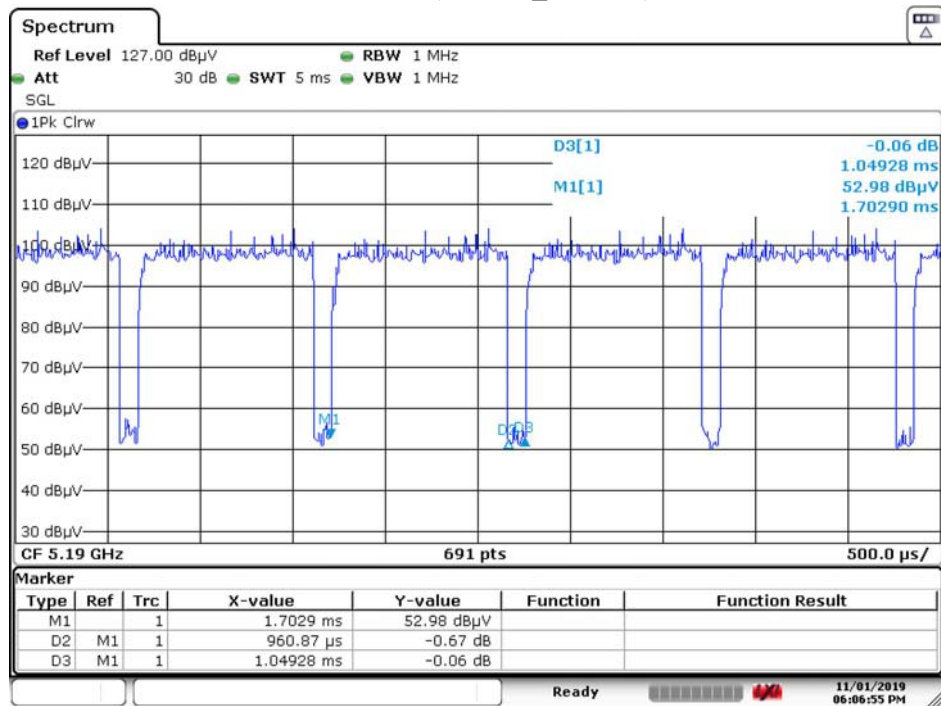
Date: 1.NOV.2019 18:05:50

802.11n20 (Radio 1_Chain B)



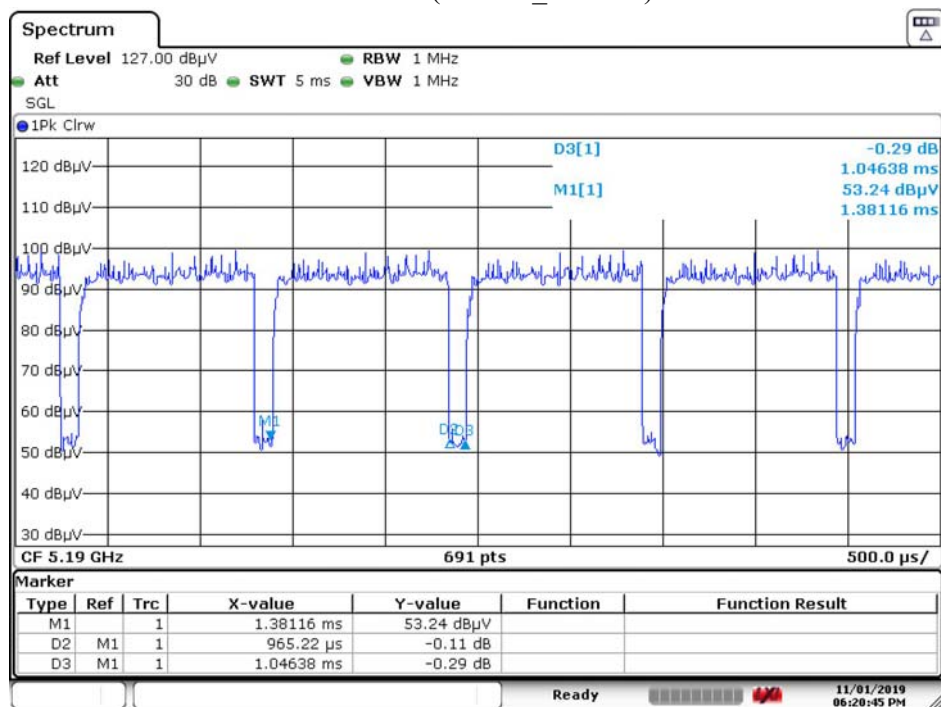
Date: 1.NOV.2019 18:19:30

802.11n40 (Radio 0_Chain B)



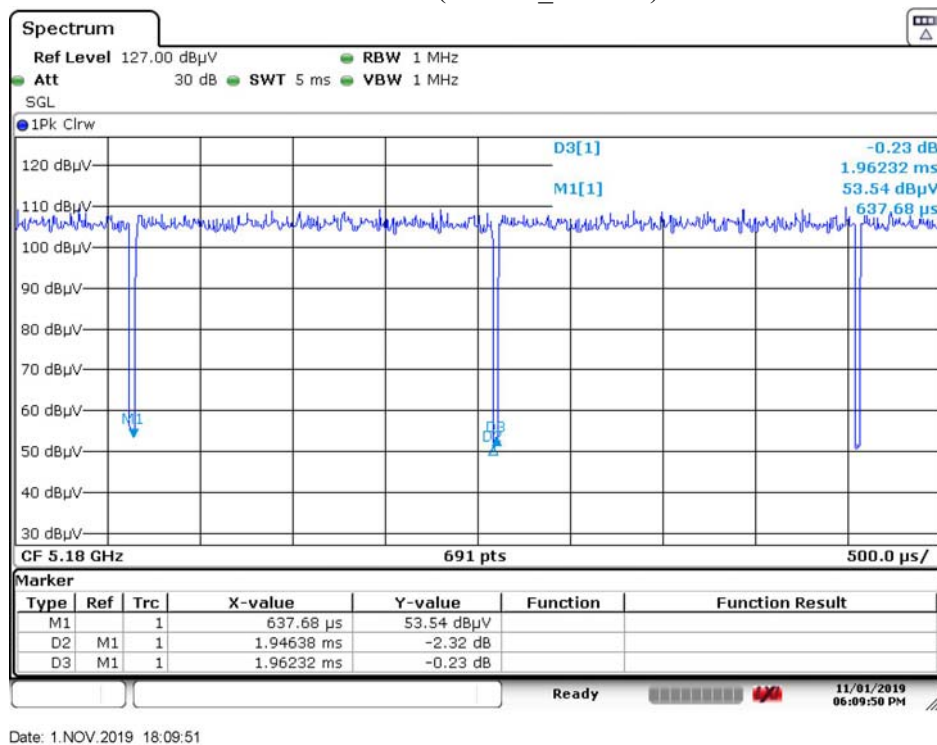
Date: 1.NOV.2019 18:06:55

802.11n40 (Radio 1_Chain B)

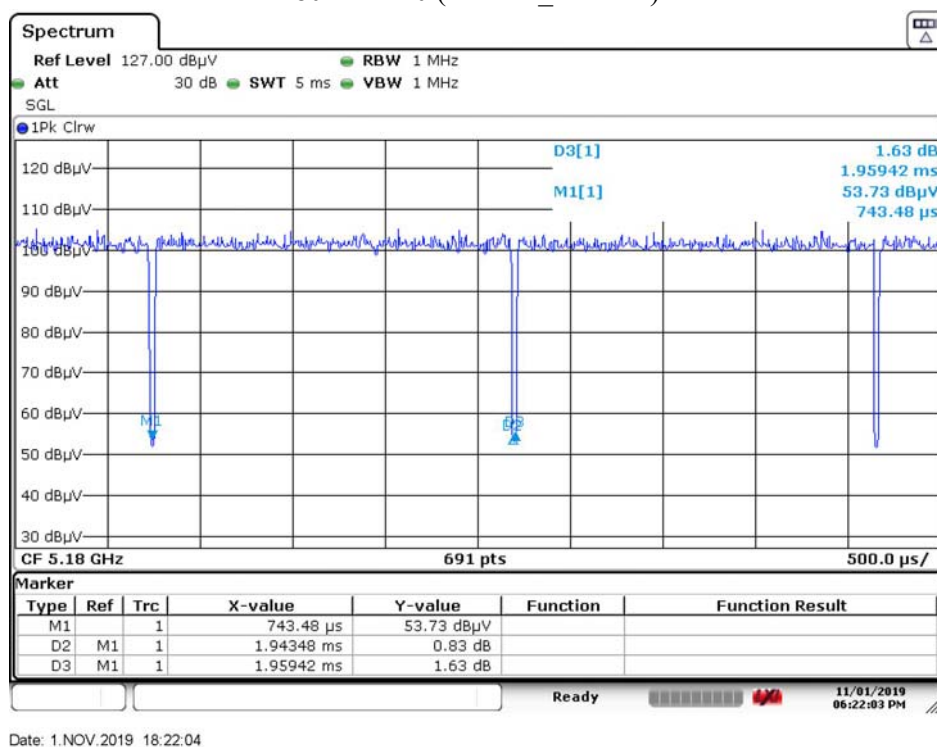


Date: 1.NOV.2019 18:20:45

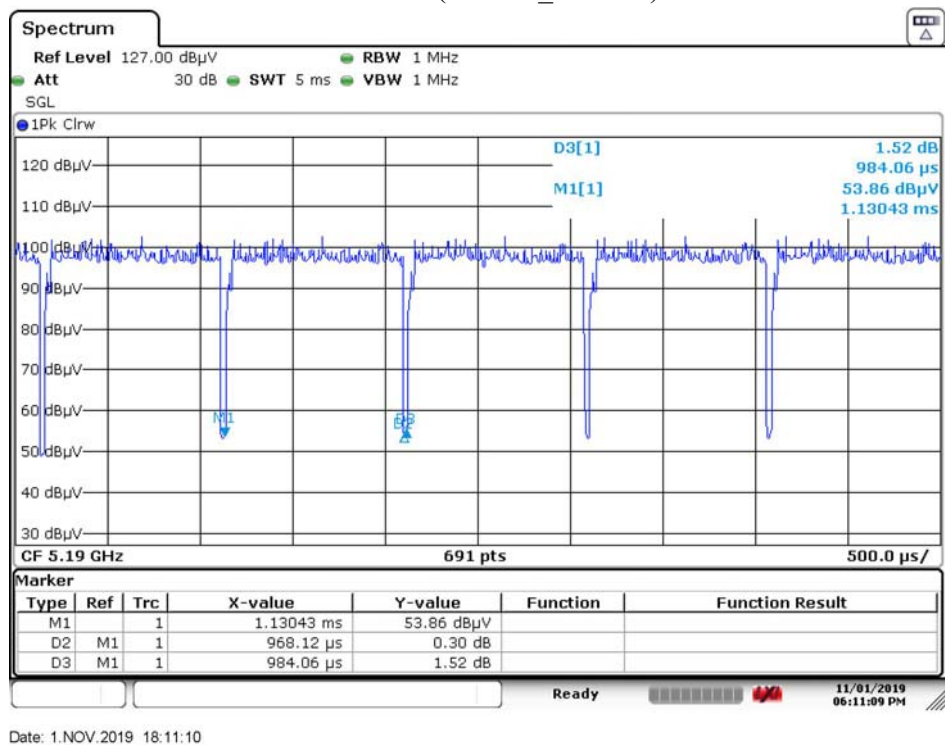
802.11ac20 (Radio 0_Chain B)



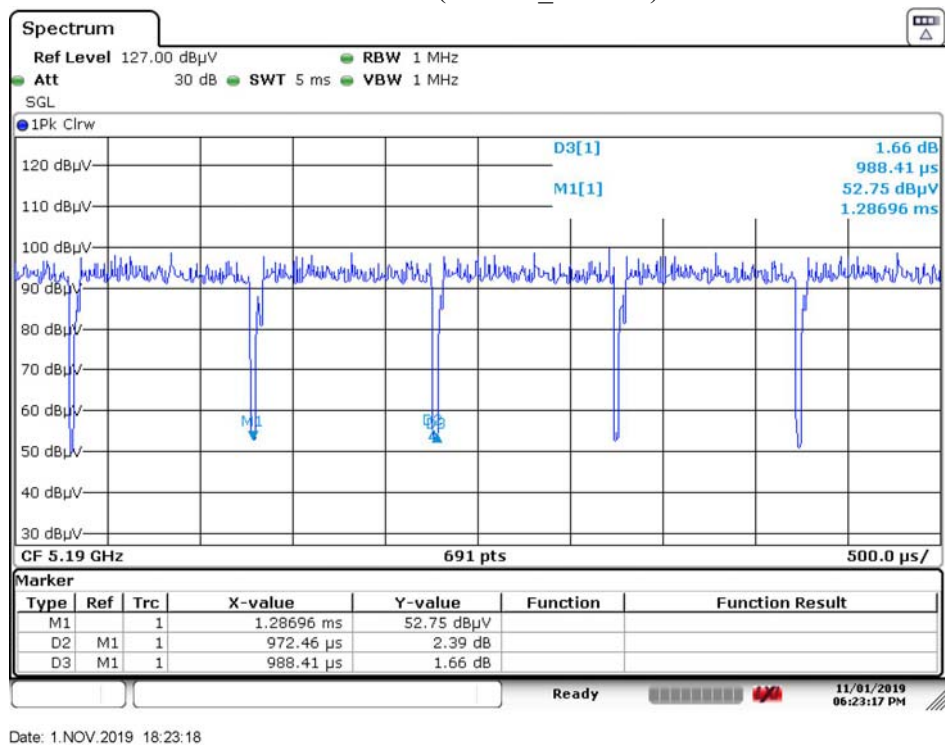
802.11ac20 (Radio 1_Chain B)



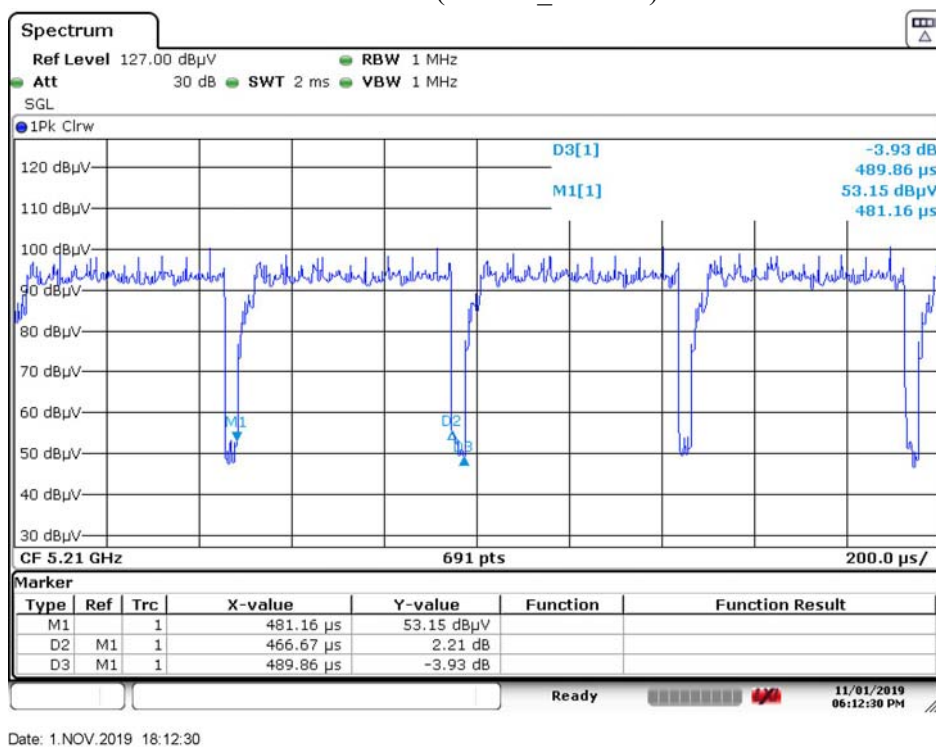
802.11ac40 (Radio 0_Chain B)



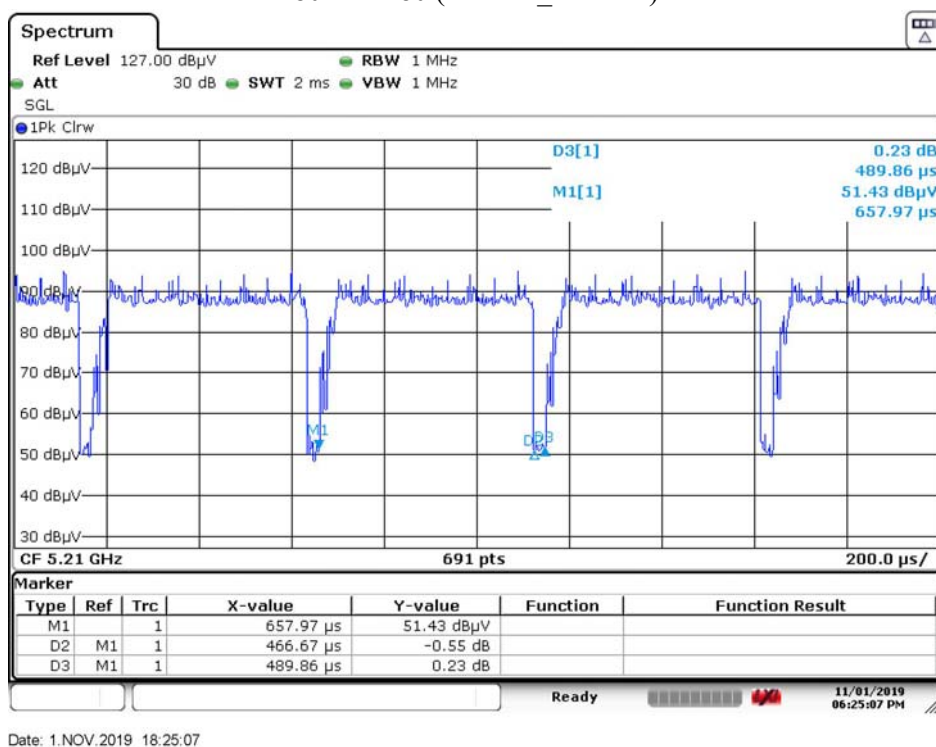
802.11ac40 (Radio 1_Chain B)



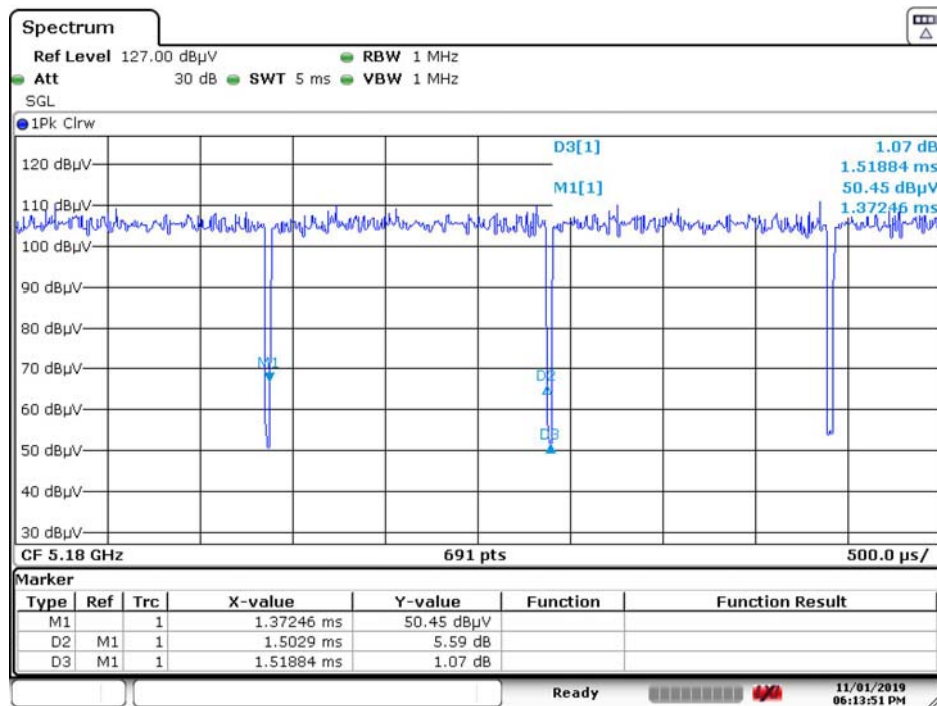
802.11ac80 (Radio 0_Chain B)



802.11ac80 (Radio 1_Chain B)

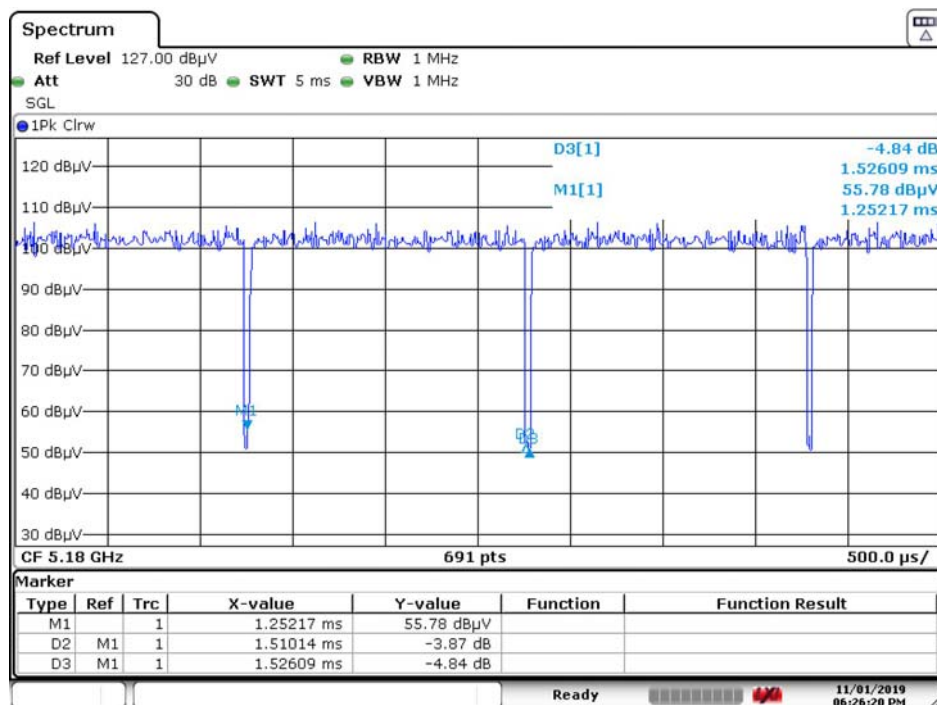


802.11ax20 (Radio 0_Chain B)



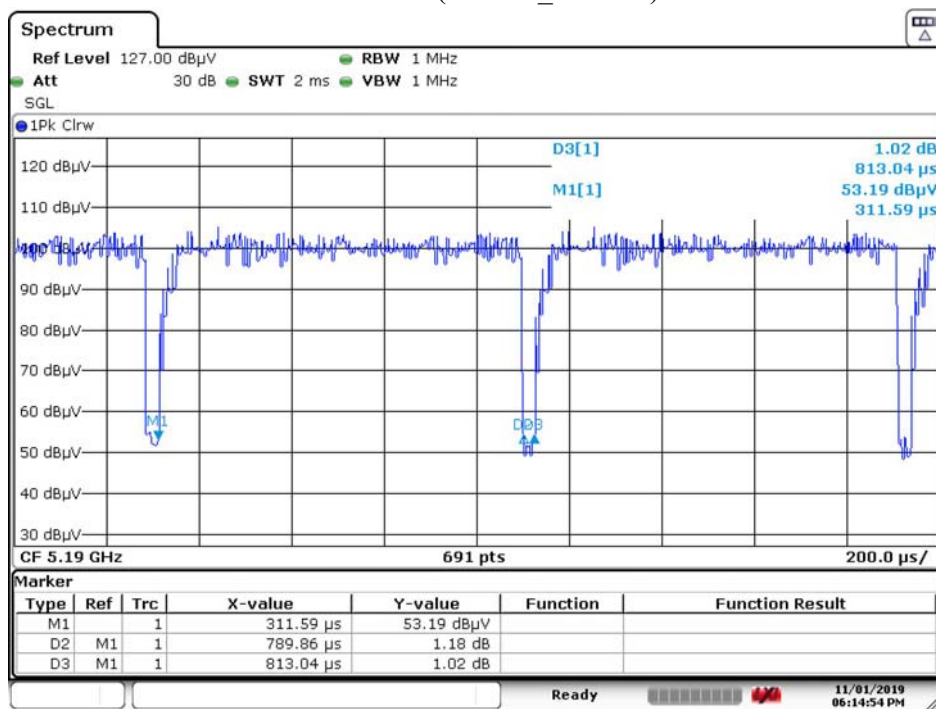
Date: 1.NOV.2019 18:13:51

802.11ax20 (Radio 1_Chain B)



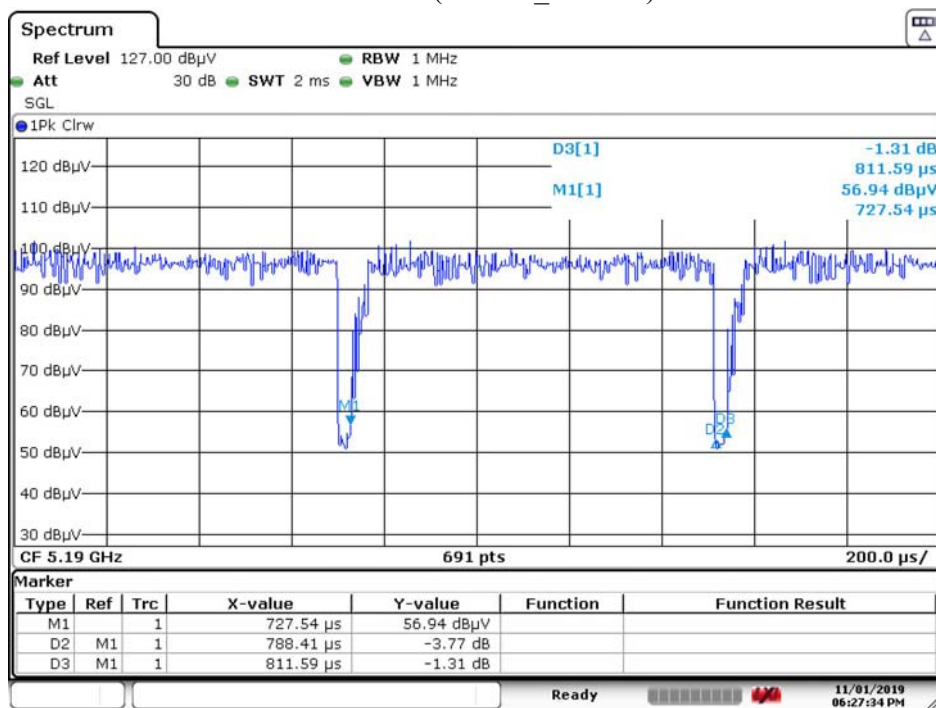
Date: 1.NOV.2019 18:26:20

802.11ax40 (Radio 0_Chain B)



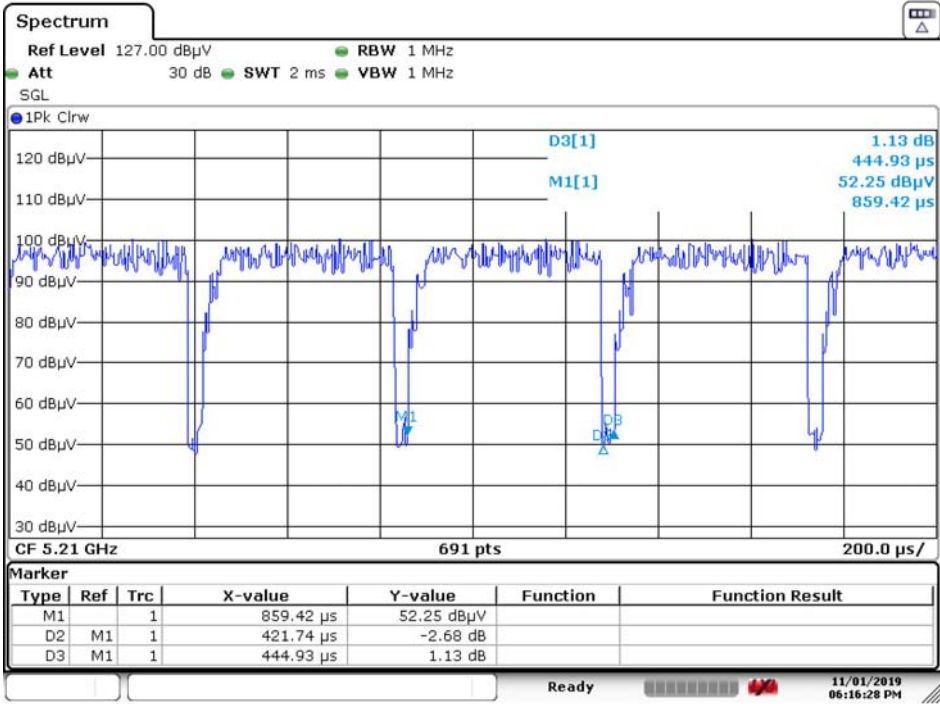
Date: 1.NOV.2019 18:14:54

802.11ax40(Radio 0_Chain B)



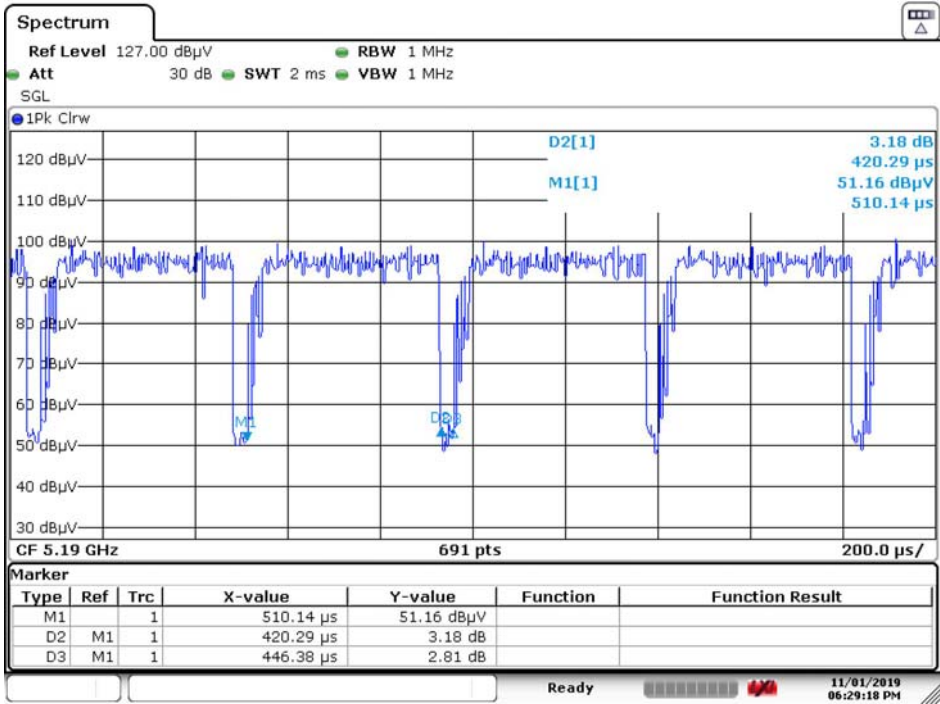
Date: 1.NOV.2019 18:27:34

802.11ax80 (Radio 0_Chain B)



Date: 1.NOV.2019 18:16:28

802.11ax80 (Radio 1_Chain B)



Date: 1.NOV.2019 18:29:19

待測物名稱：Wireless Access Point

待測物型號：AP305C、AP305CX

測試項目：Duty Cycle

測試頻道：--

測試模式：--

量測天線：--

測試距離：Conducted

檢測器：峰值

測試日期：108 年 11 月 01 日

Duty Cycle Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$
$$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$$

Results:

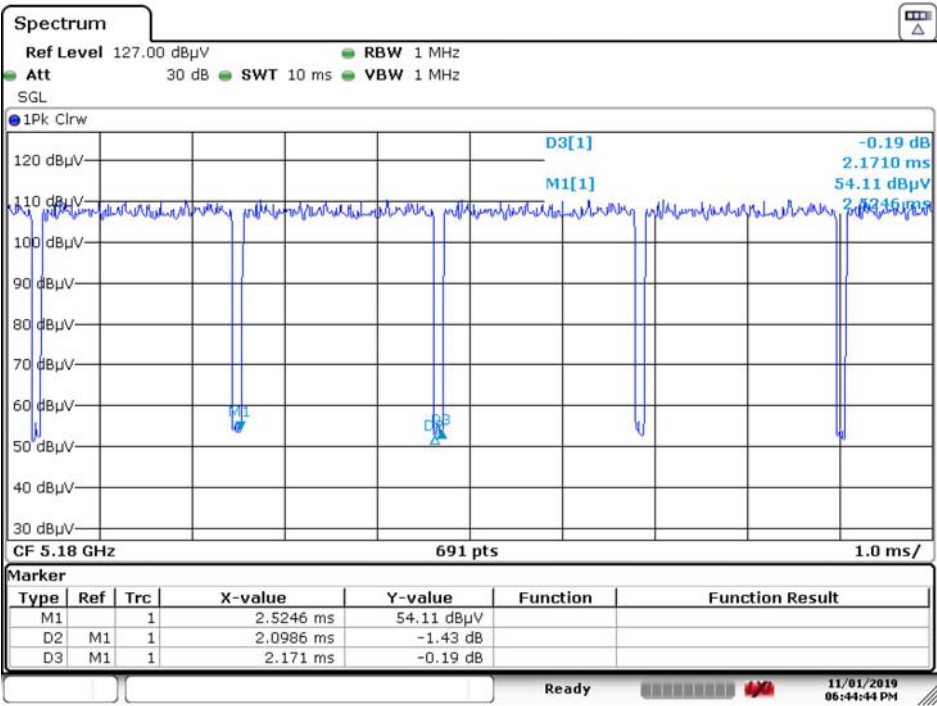
CDD-Radio 0

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.0986	2.1710	96.67	0.15
802.11 n20	1.9536	2.0261	96.42	0.16
802.11 n40	0.9608	1.0405	92.34	0.35
802.11 ac20	1.9536	1.9681	99.26	0.03
802.11 ac40	0.9608	0.9753	98.51	0.07
802.11 ac80	0.4681	0.4884	95.84	0.18
802.11 ax20	1.5115	1.5246	99.14	0.04
802.11 ax40	0.7869	0.8101	97.14	0.13
802.11 ax80	0.4188	0.4449	94.13	0.26

CDD-Radio 1

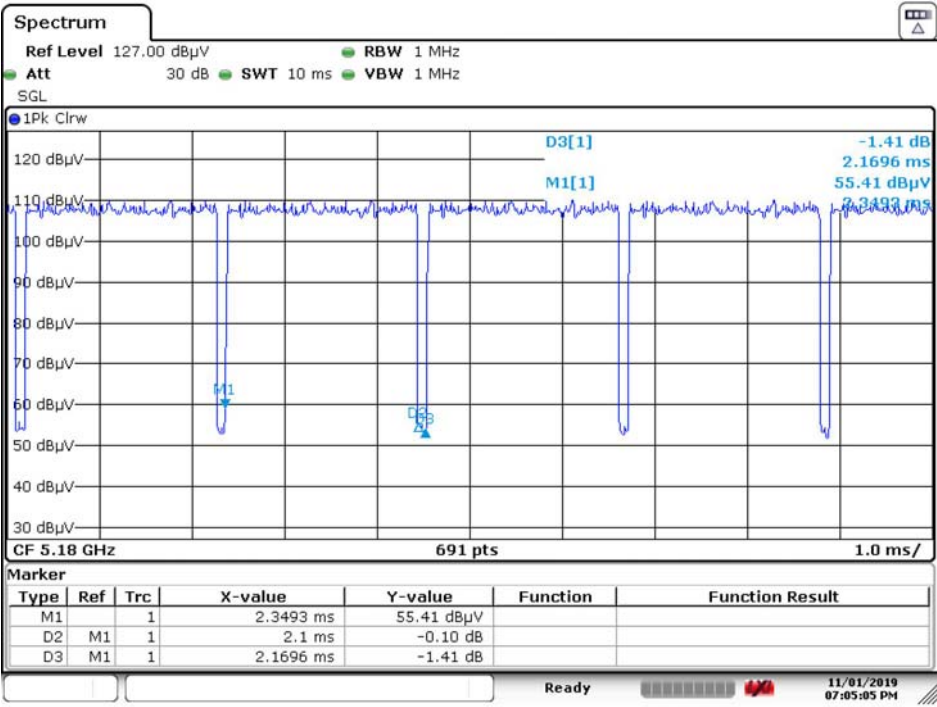
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	2.1000	2.1696	96.79	0.14
802.11 n20	1.9551	2.0246	96.57	0.15
802.11 n40	0.9695	1.0492	92.40	0.34
802.11 ac20	1.9478	1.9623	99.26	0.03
802.11 ac40	0.9695	0.9840	98.53	0.06
802.11 ac80	0.4681	0.4884	95.84	0.18
802.11 ax20	1.5115	1.5246	99.14	0.04
802.11 ax40	0.7898	0.8130	97.15	0.13
802.11 ax80	0.4217	0.4449	94.79	0.23

802.11a (Radio 0_Chain A+Chain B)



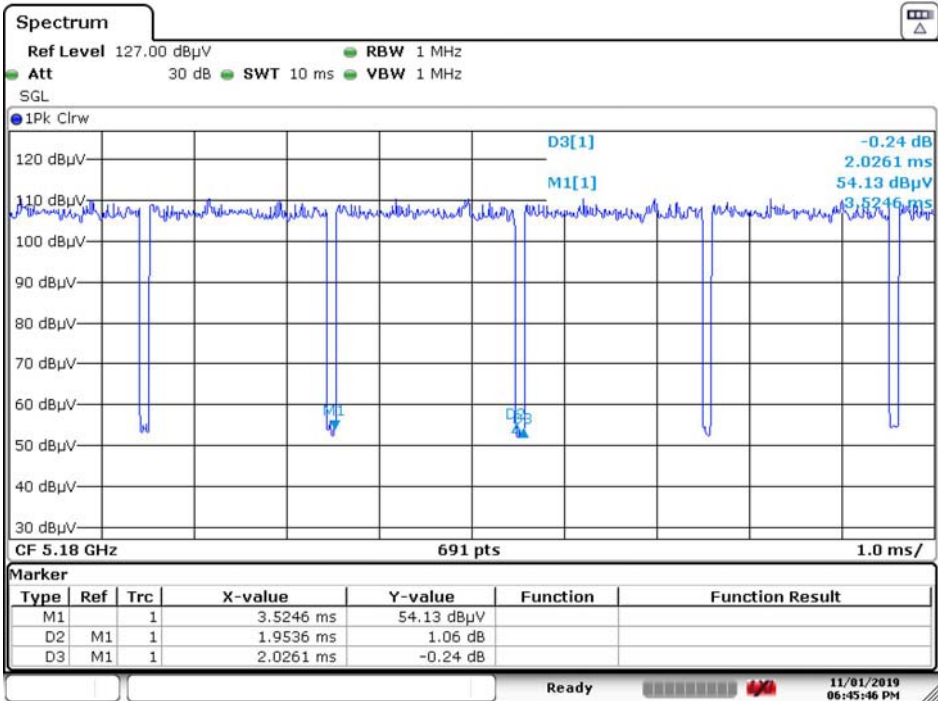
Date: 1.NOV.2019 18:44:45

802.11a (Radio 1_Chain A+Chain B)



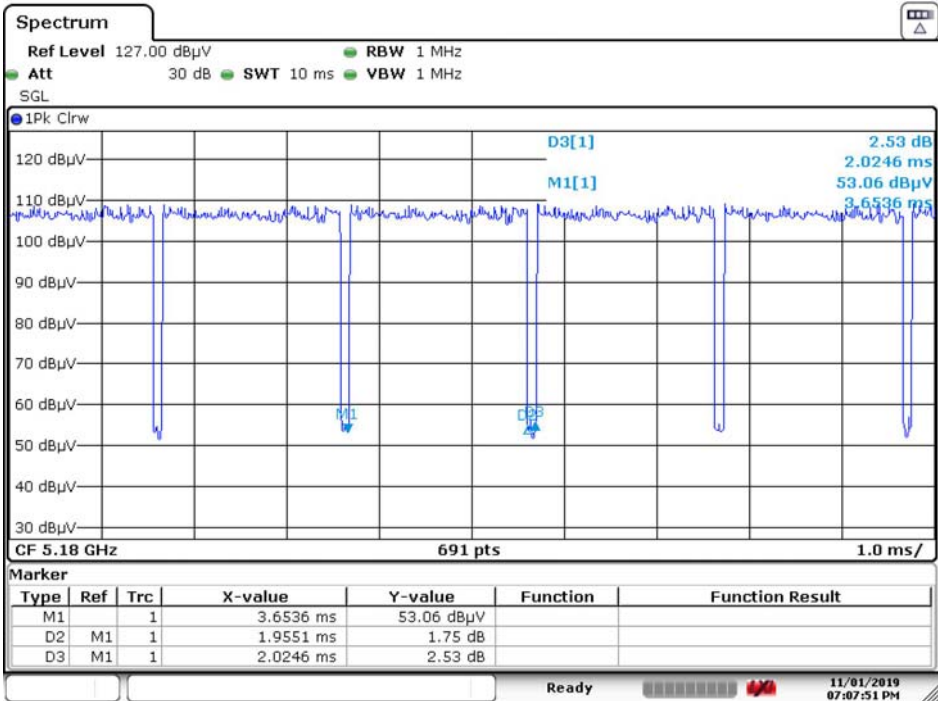
Date: 1.NOV.2019 19:05:05

802.11n20 (Radio 0_Chain A+Chain B)



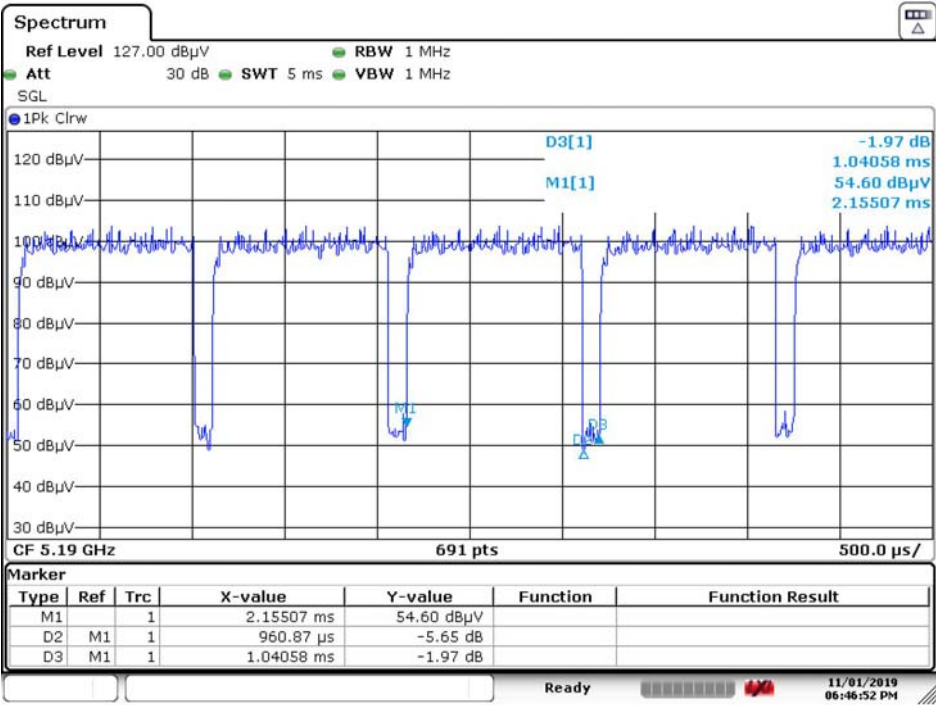
Date: 1.NOV.2019 18:45:46

802.11n20 (Radio 1_Chain A+Chain B)



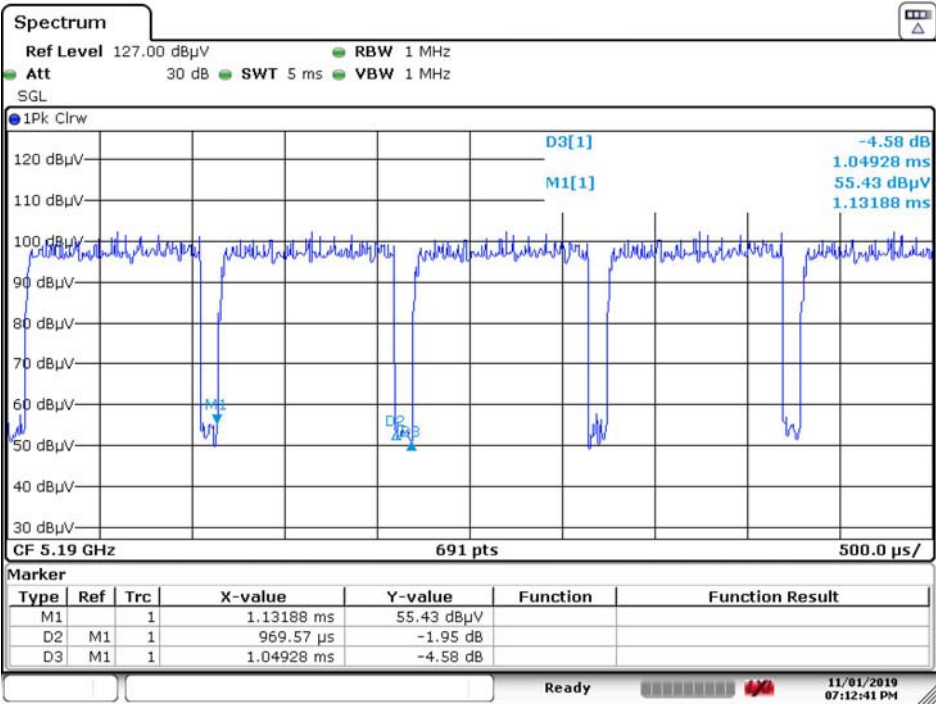
Date: 1.NOV.2019 19:07:52

802.11n40 (Radio 0_Chain A+Chain B)



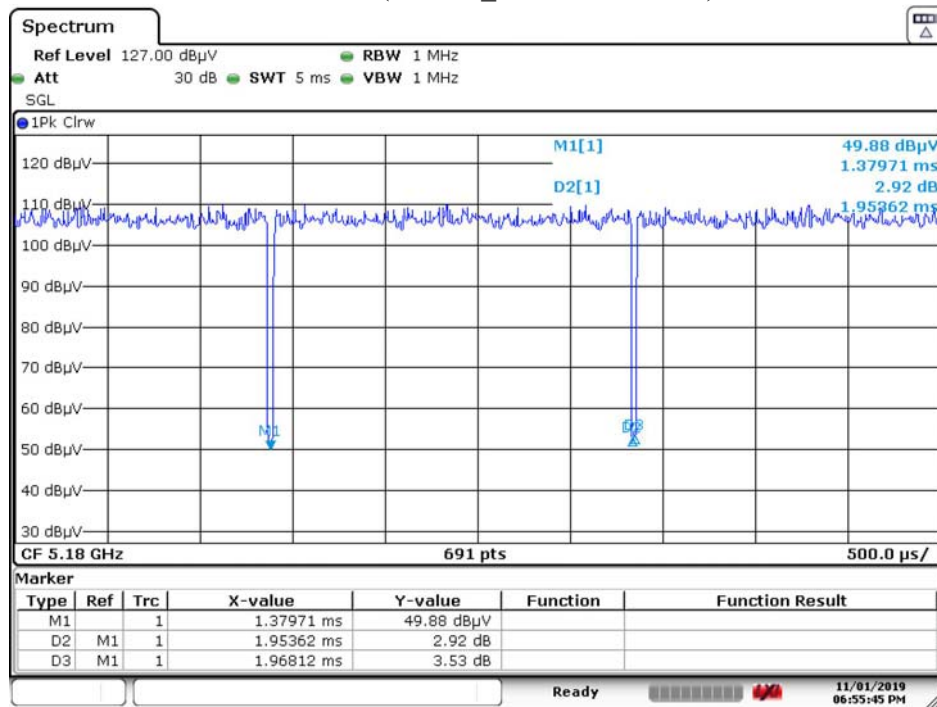
Date: 1.NOV.2019 18:46:52

802.11n40 (Radio 1_Chain A+Chain B)



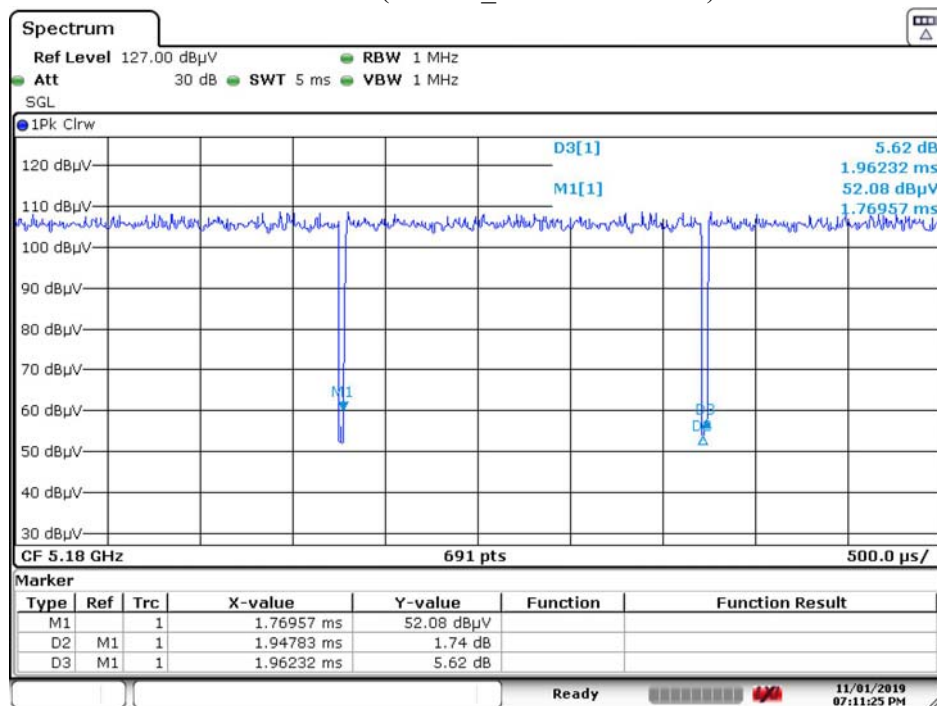
Date: 1.NOV.2019 19:12:42

802.11ac20 (Radio 0_Chain A+Chain B)



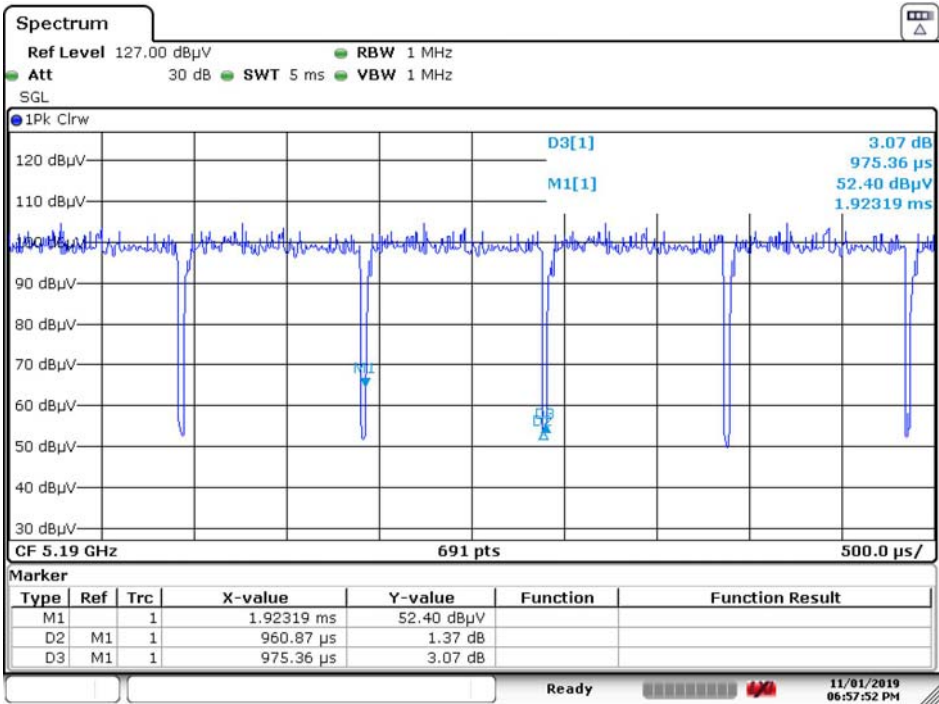
Date: 1.NOV.2019 18:55:46

802.11ac20 (Radio 1_Chain A+Chain B)



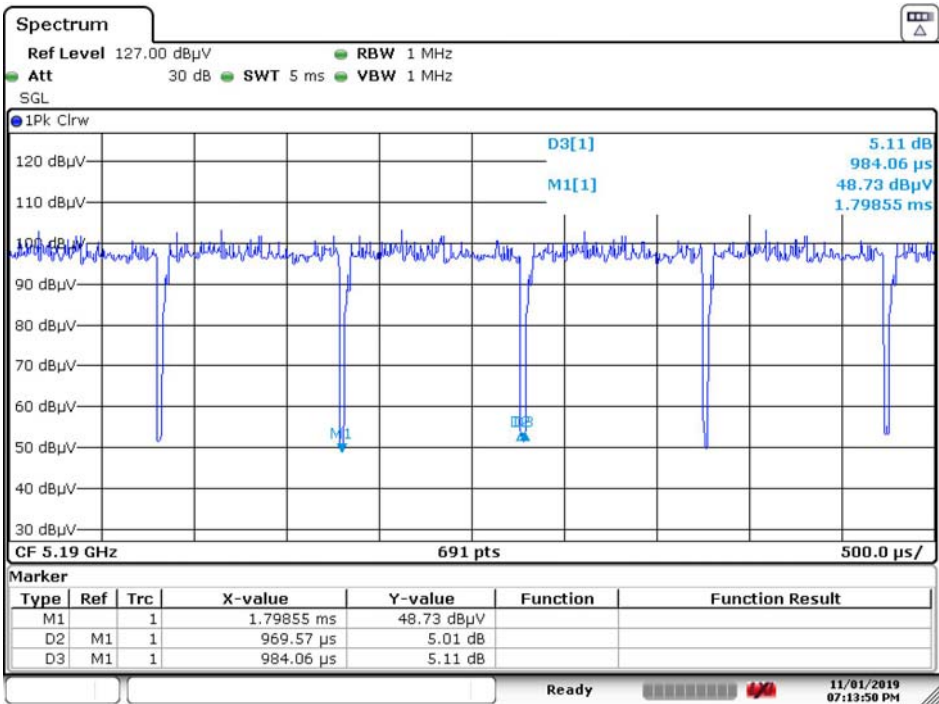
Date: 1.NOV.2019 19:11:26

802.11ac40 (Radio 0_Chain A+Chain B)



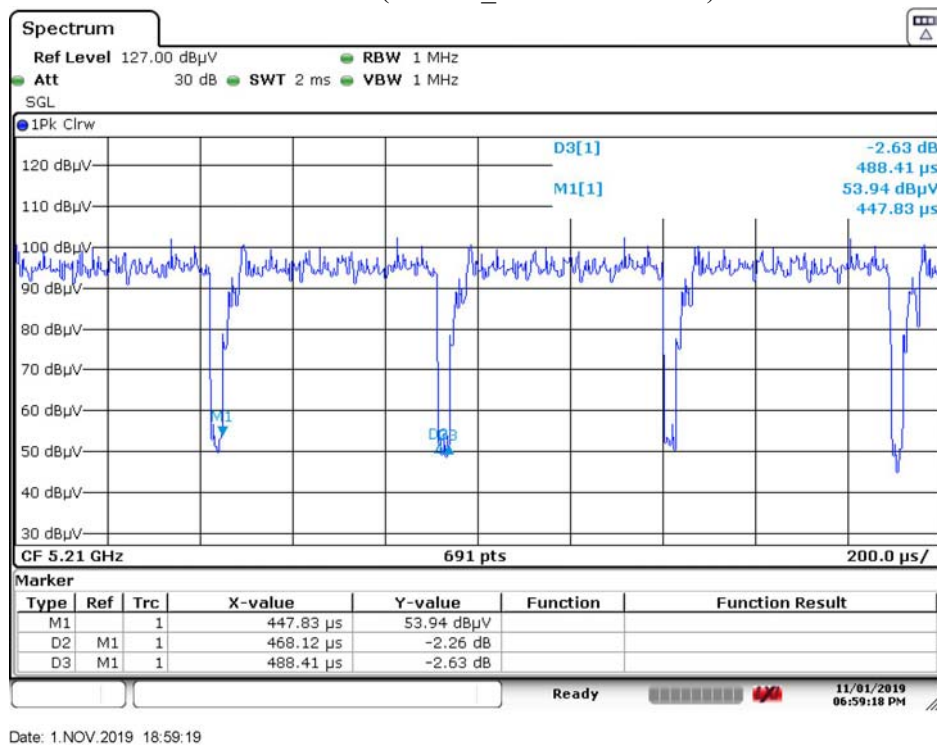
Date: 1.NOV.2019 18:57:52

802.11ac40 (Radio 1_Chain A+Chain B)

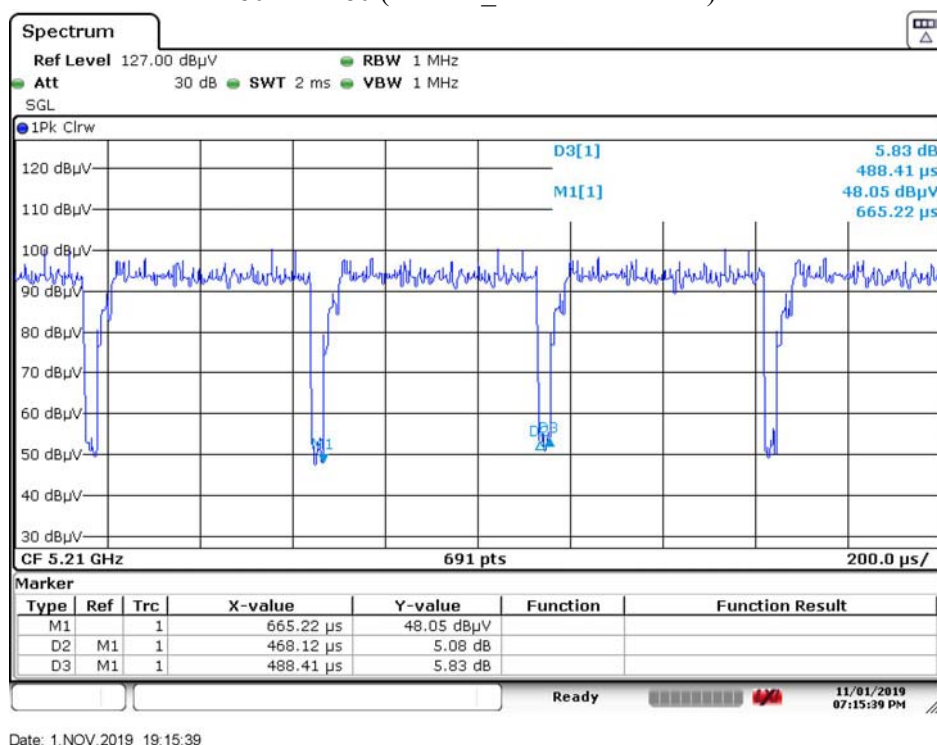


Date: 1.NOV.2019 19:13:51

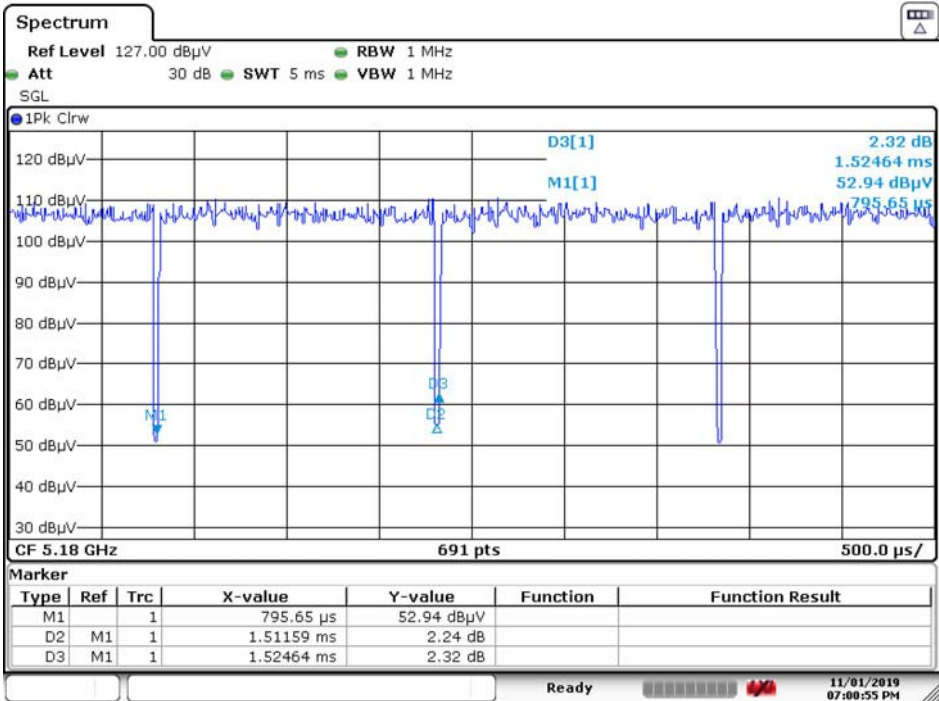
802.11ac80 (Radio 0_Chain A+Chain B)



802.11ac80 (Radio 1_Chain A+Chain B)

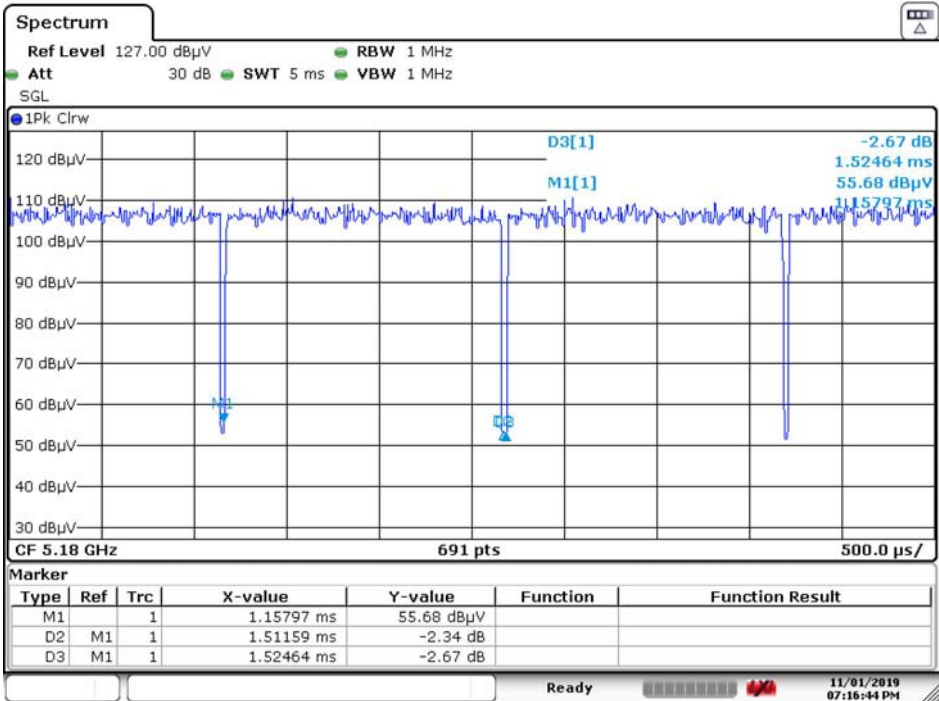


802.11ax20 (Radio 0_Chain A+Chain B)



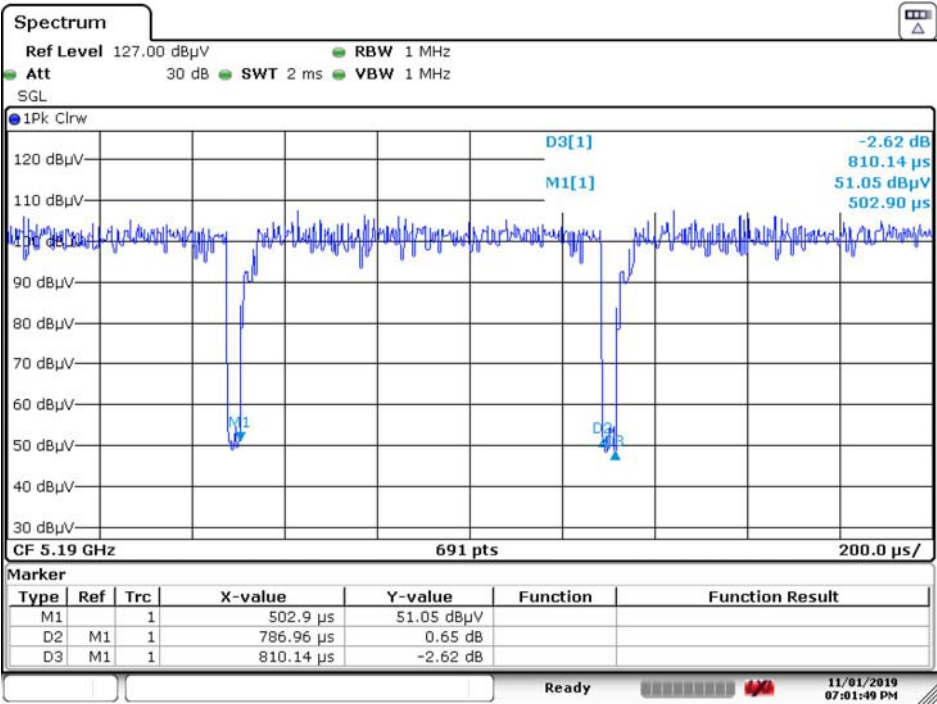
Date: 1.NOV.2019 19:00:55

802.11ax20 (Radio 1_Chain A+Chain B)



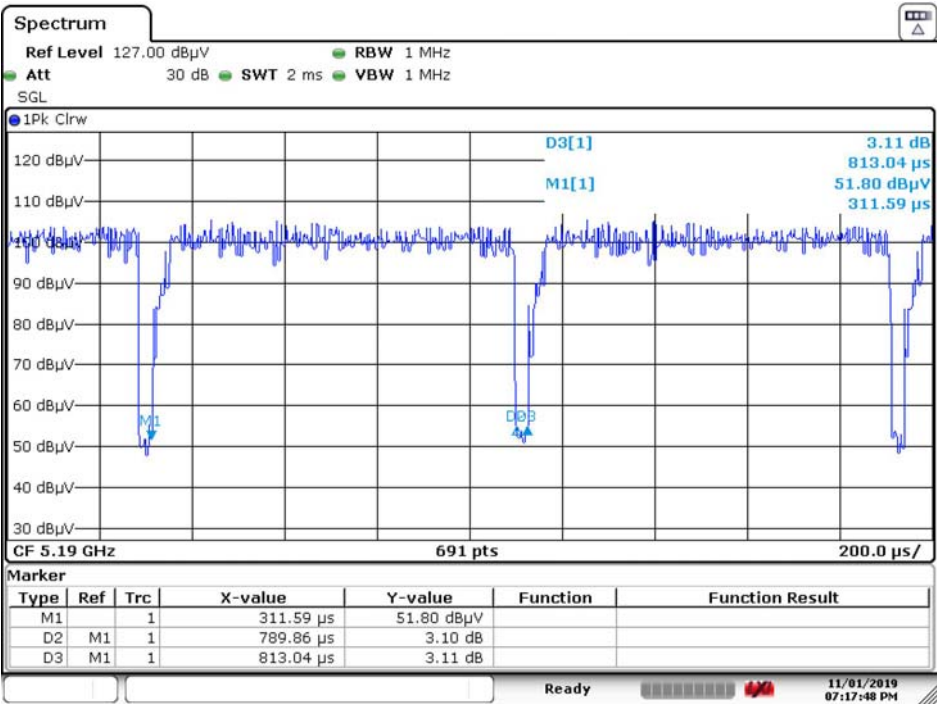
Date: 1.NOV.2019 19:16:44

802.11ax40 (Radio 0_Chain A+Chain B)



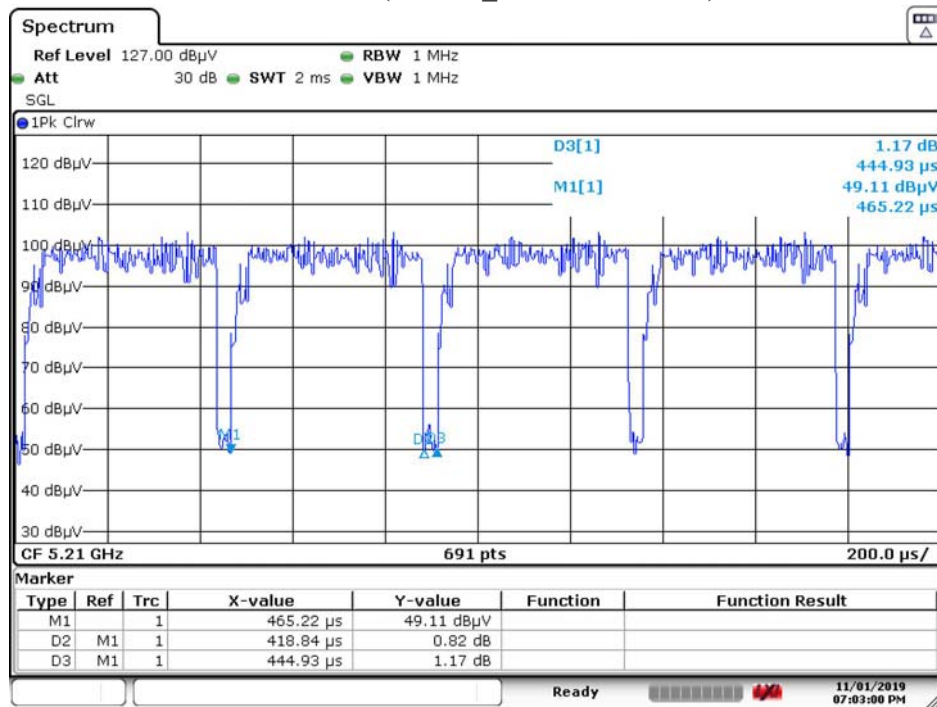
Date: 1.NOV.2019 19:01:49

802.11ax40 (Radio 1_Chain A+Chain B)



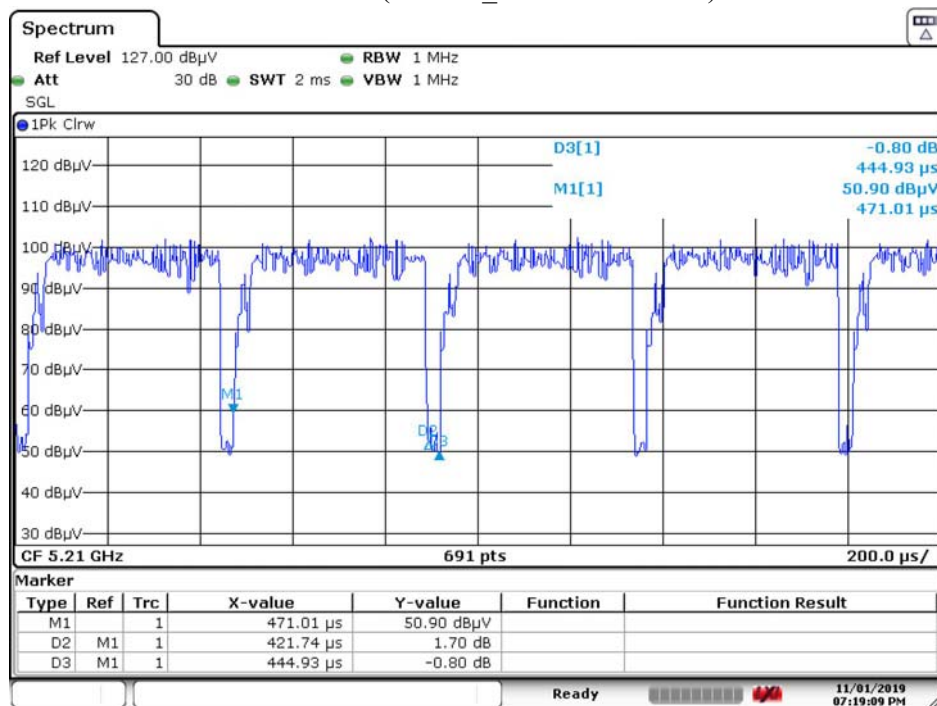
Date: 1.NOV.2019 19:17:48

802.11ax80 (Radio 0_Chain A+Chain B)



Date: 1.NOV.2019 19:03:01

802.11ax80 (Radio 1_Chain A+Chain B)



Date: 1.NOV.2019 19:19:09

待測物名稱：Wireless Access Point

待測物型號：AP305C、AP305CX

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：108年11月01日

測試項目：Duty Cycle

測試模式：--

測試距離：Conducted

Duty Cycle Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$
$$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$$

Results:

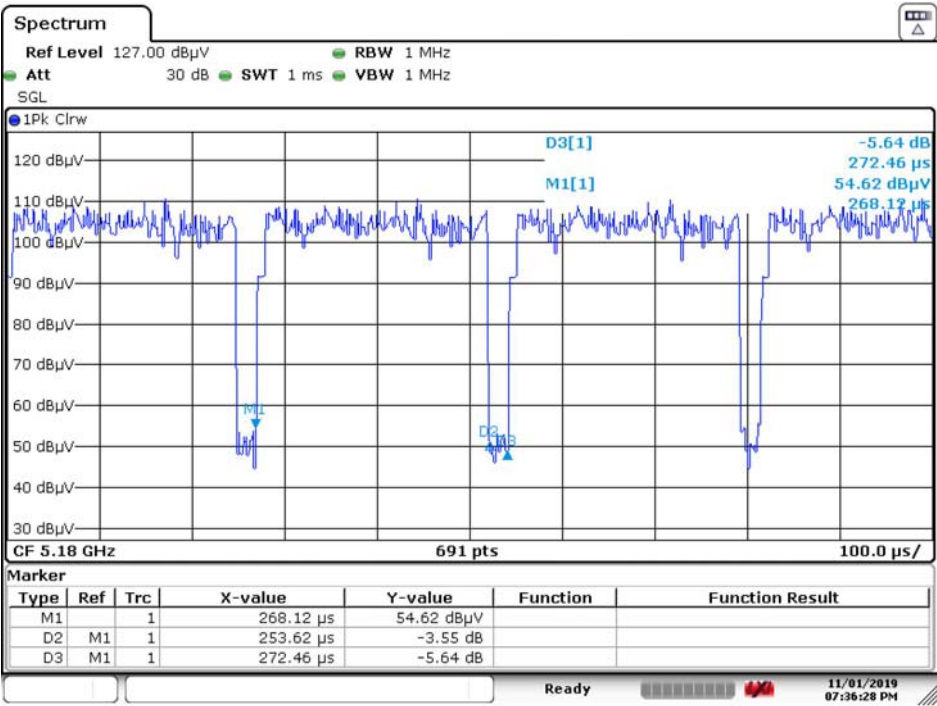
Beamforming-Radio 0

5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 n20	0.2536	0.2724	93.10	0.31
802.11 n40	0.1333	0.1521	87.64	0.57
802.11 ac20	0.1608	0.1855	86.68	0.62
802.11 ac40	0.1007	0.1261	79.89	0.98
802.11 ac80	0.0732	0.0978	74.81	1.26
802.11 ax20	0.1601	0.1862	85.98	0.66
802.11 ax40	0.1181	0.1456	81.11	0.91
802.11 ax80	0.0913	0.1166	78.30	1.06

Beamforming-Radio 1

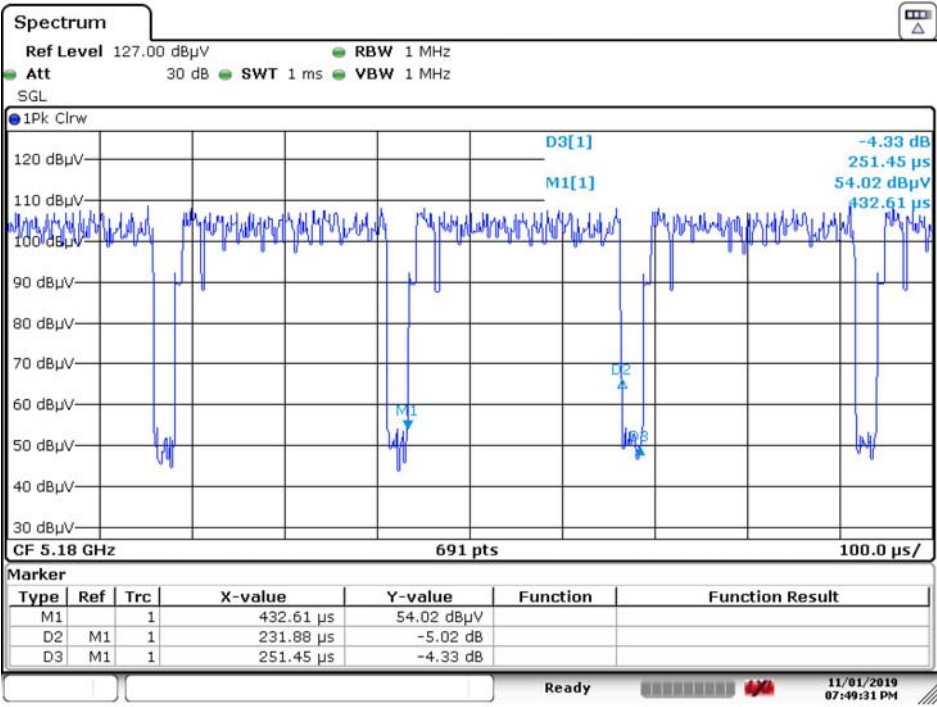
5GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 n20	0.2318	0.2514	92.20	0.35
802.11 n40	0.1333	0.1529	87.18	0.60
802.11 ac20	0.1594	0.1847	86.30	0.64
802.11 ac40	0.1014	0.1253	80.93	0.92
802.11 ac80	0.0724	0.0978	74.03	1.31
802.11 ax20	0.1579	0.1862	84.80	0.72
802.11 ax40	0.1173	0.1449	80.95	0.92
802.11 ax80	0.0905	0.1173	77.15	1.13

802.11n20 (Radio 0_Chain A+Chain B)



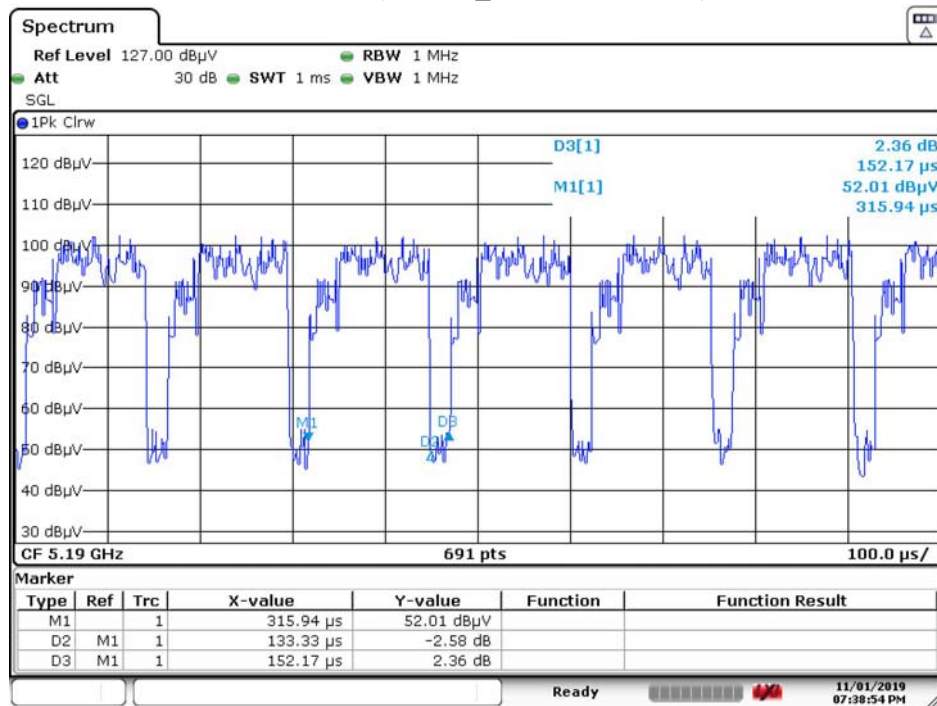
Date: 1.NOV.2019 19:36:29

802.11n20 (Radio 1_Chain A+Chain B)



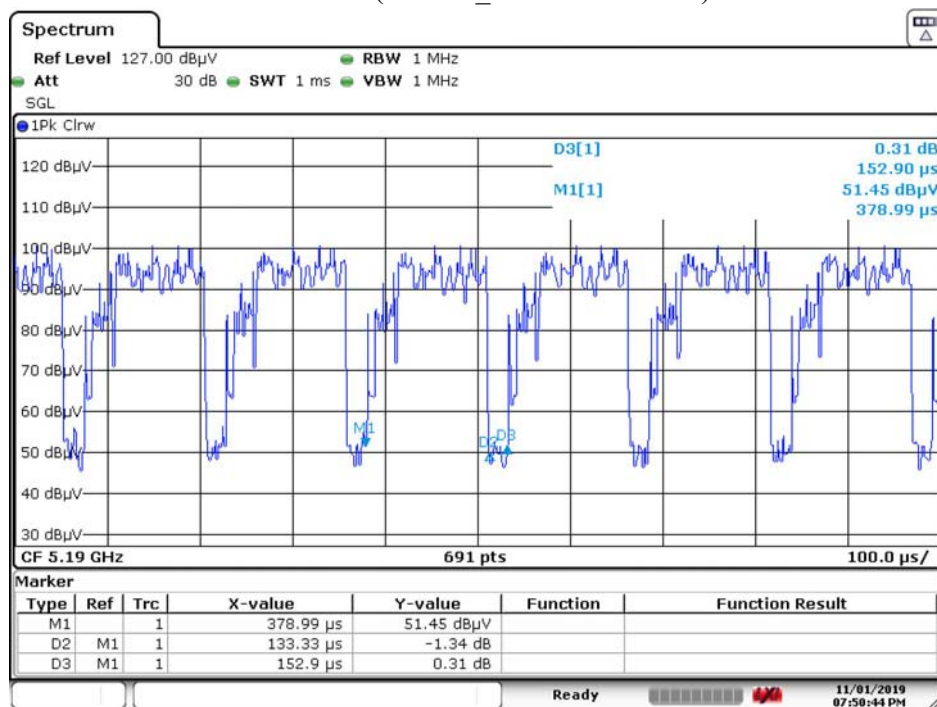
Date: 1.NOV.2019 19:49:31

802.11n40 (Radio 0_Chain A+Chain B)



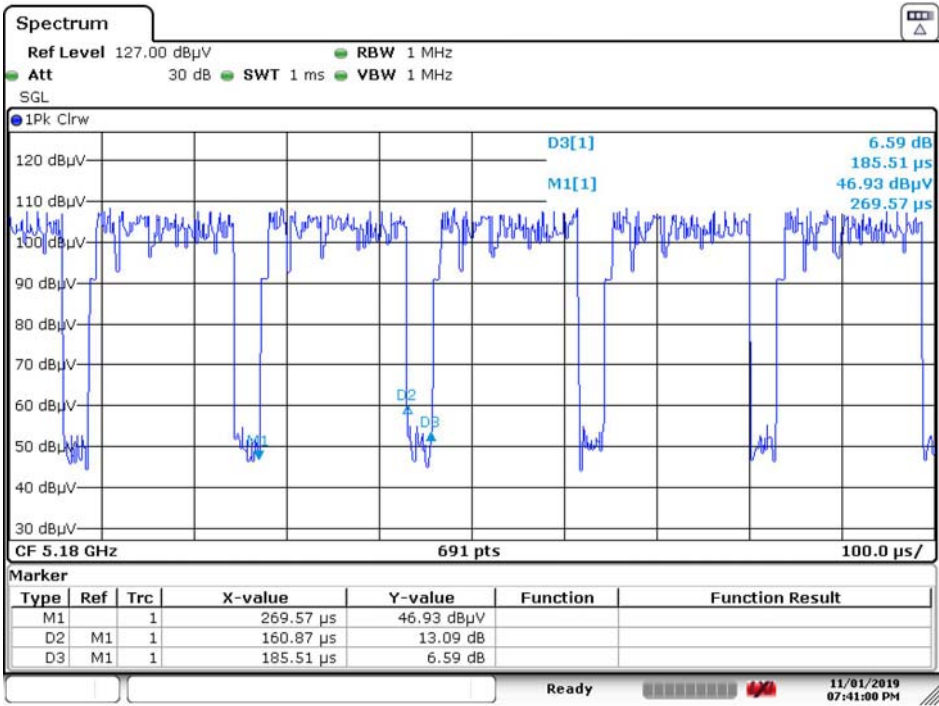
Date: 1.NOV.2019 19:38:55

802.11n40 (Radio 1_Chain A+Chain B)



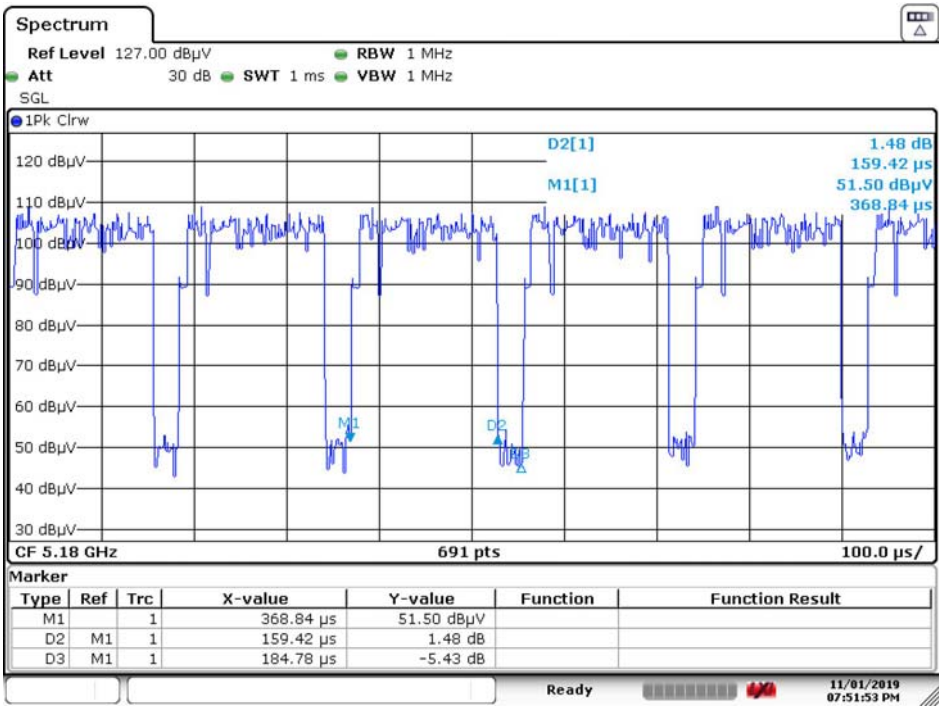
Date: 1.NOV.2019 19:50:45

802.11ac20 (Radio 0_Chain A+Chain B)



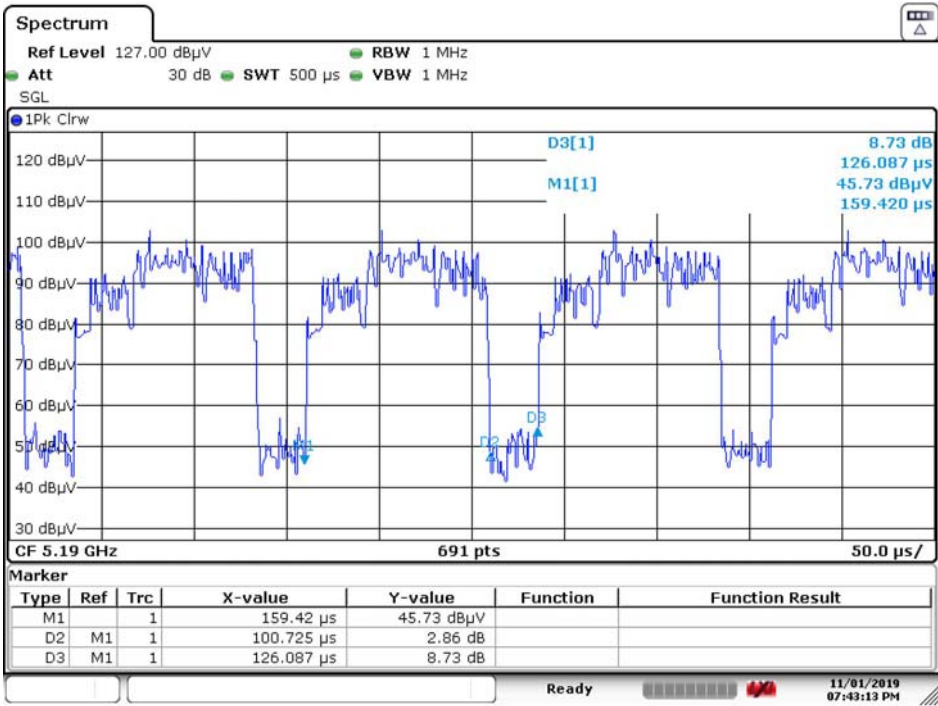
Date: 1.NOV.2019 19:41:00

802.11ac20 (Radio 1_Chain A+Chain B)



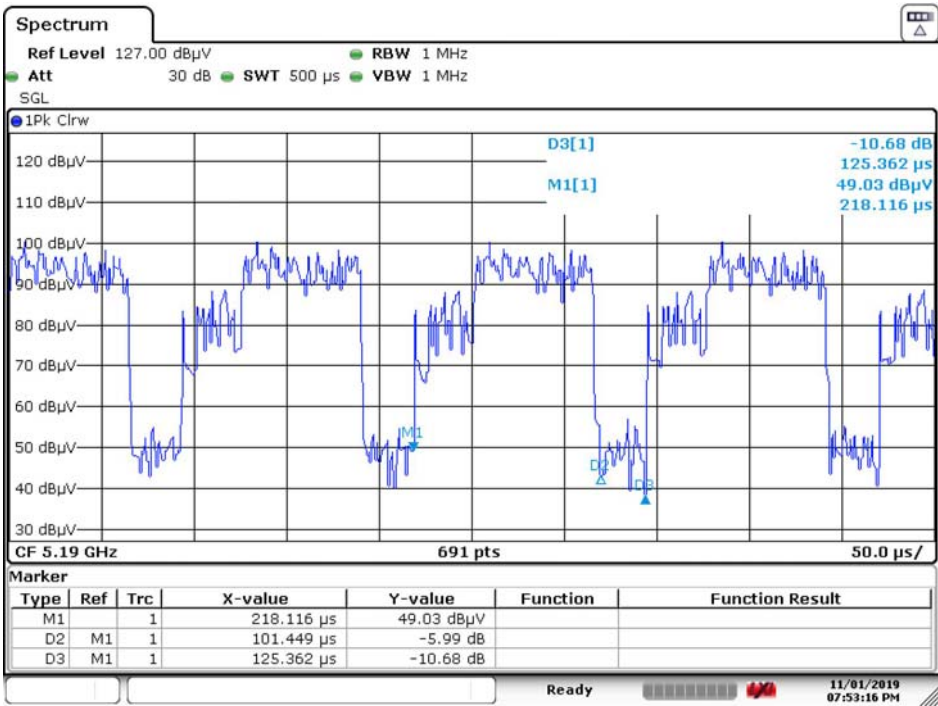
Date: 1.NOV.2019 19:51:53

802.11ac40 (Radio 0_Chain A+Chain B)



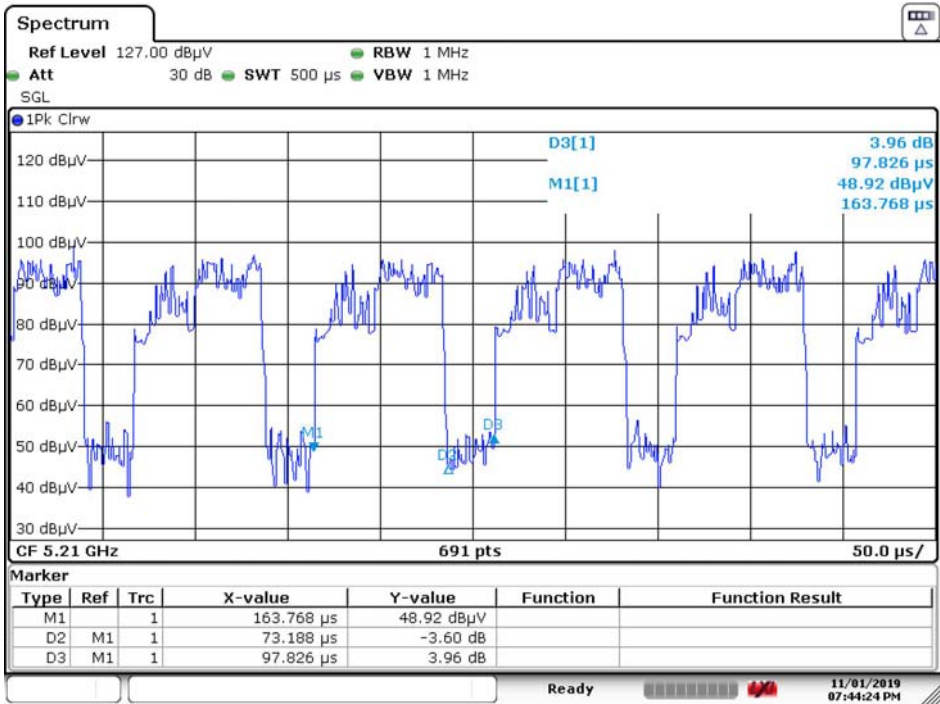
Date: 1.NOV.2019 19:43:13

802.11ac40 (Radio 1_Chain A+Chain B)



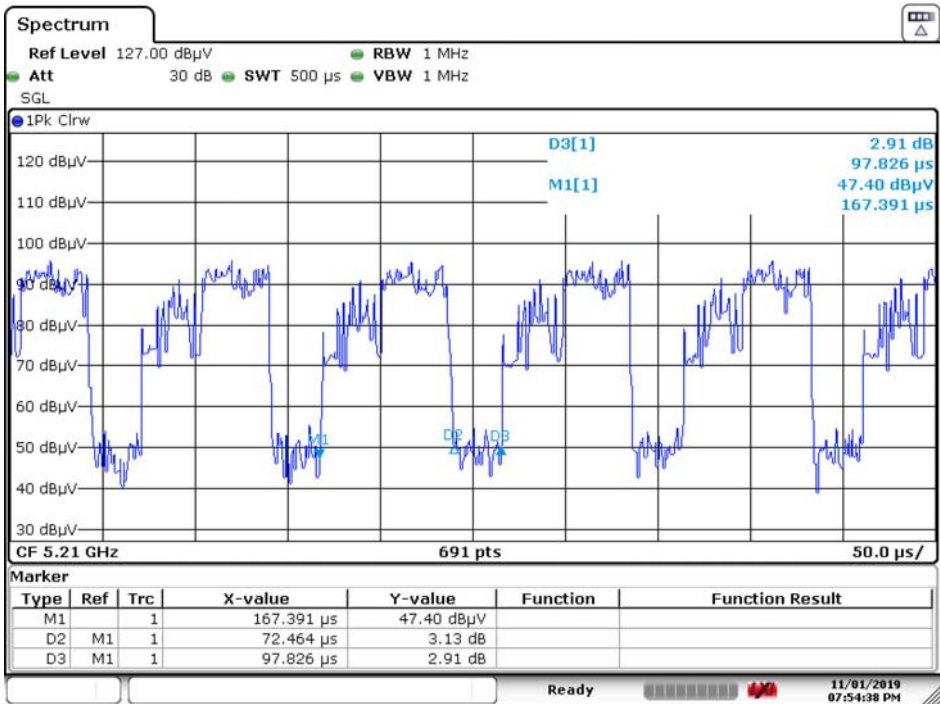
Date: 1.NOV.2019 19:53:16

802.11ac80 (Radio 0_Chain A+Chain B)



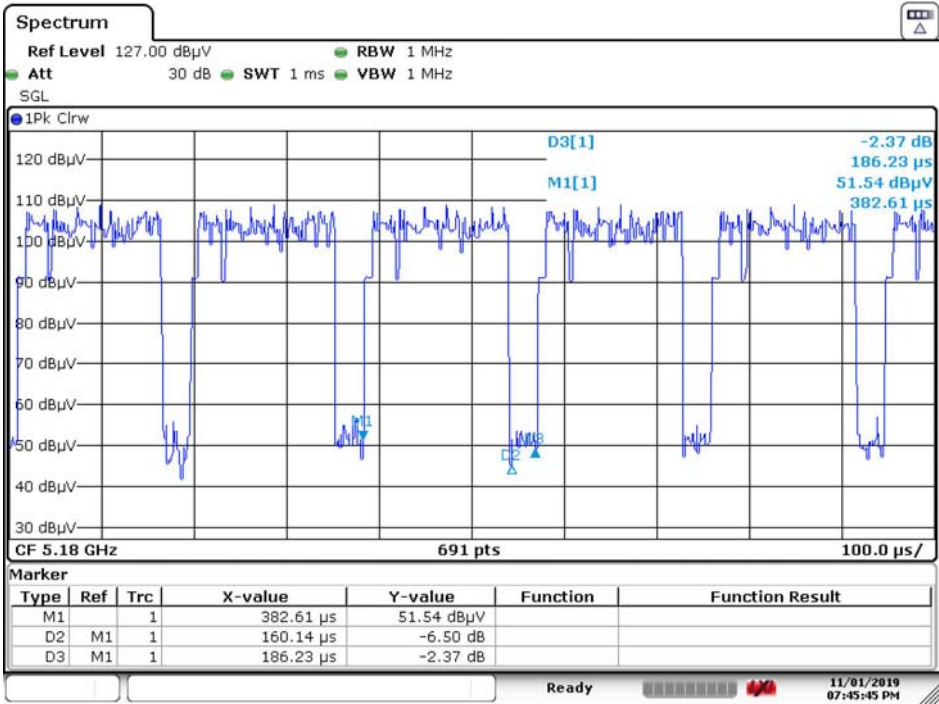
Date: 1.NOV.2019 19:44:24

802.11ac80 (Radio 1_Chain A+Chain B)



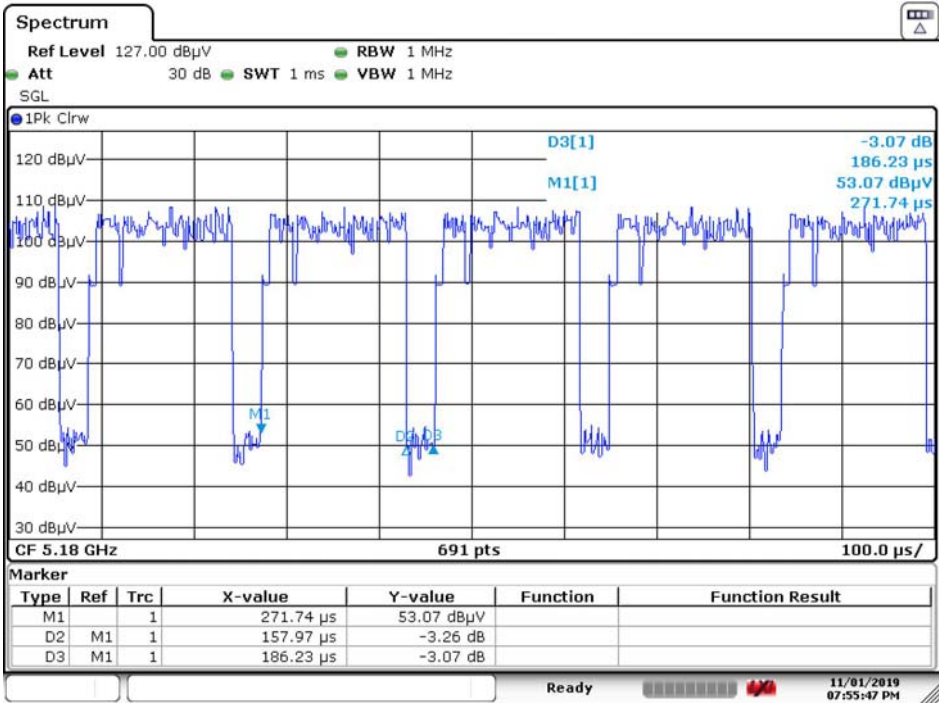
Date: 1.NOV.2019 19:54:38

802.11ax20 (Radio 0_Chain A+Chain B)



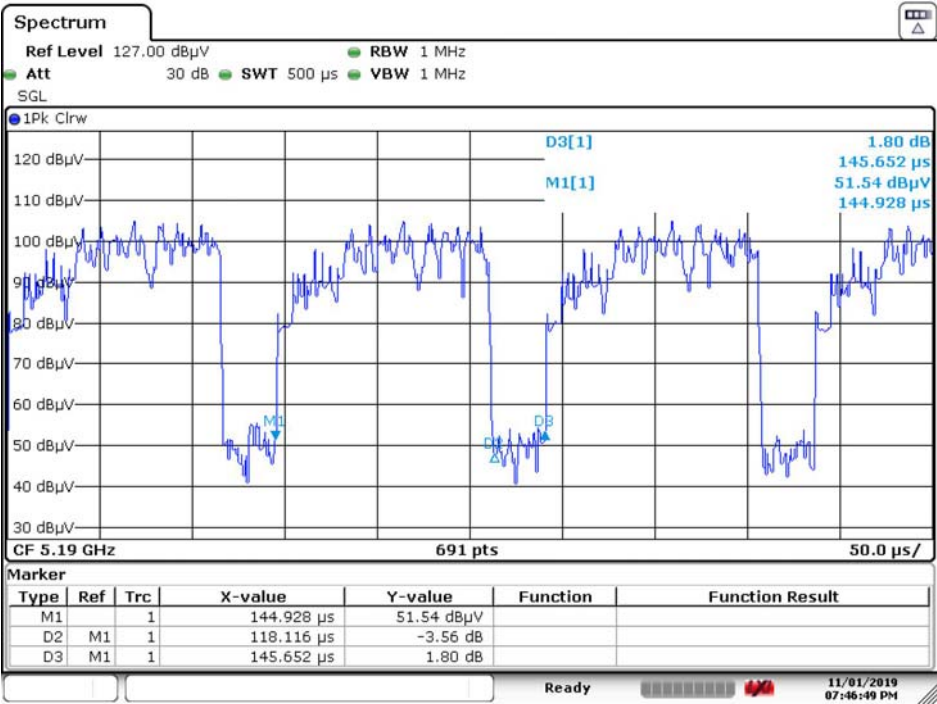
Date: 1.NOV.2019 19:45:45

802.11ax20 (Radio 1_Chain A+Chain B)



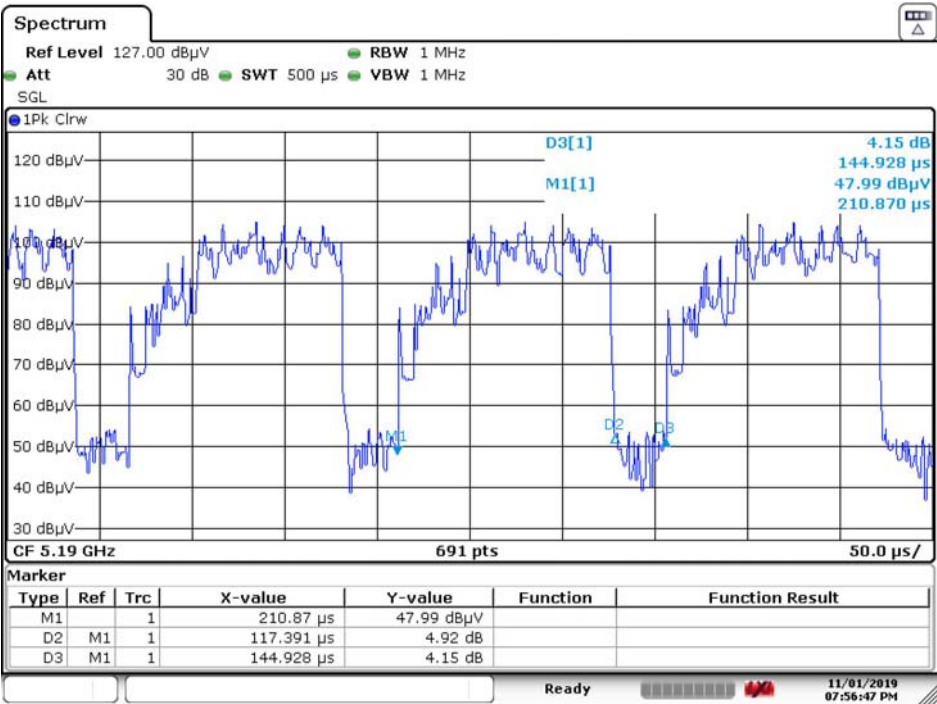
Date: 1.NOV.2019 19:55:48

802.11ax40 (Radio 0_Chain A+Chain B)



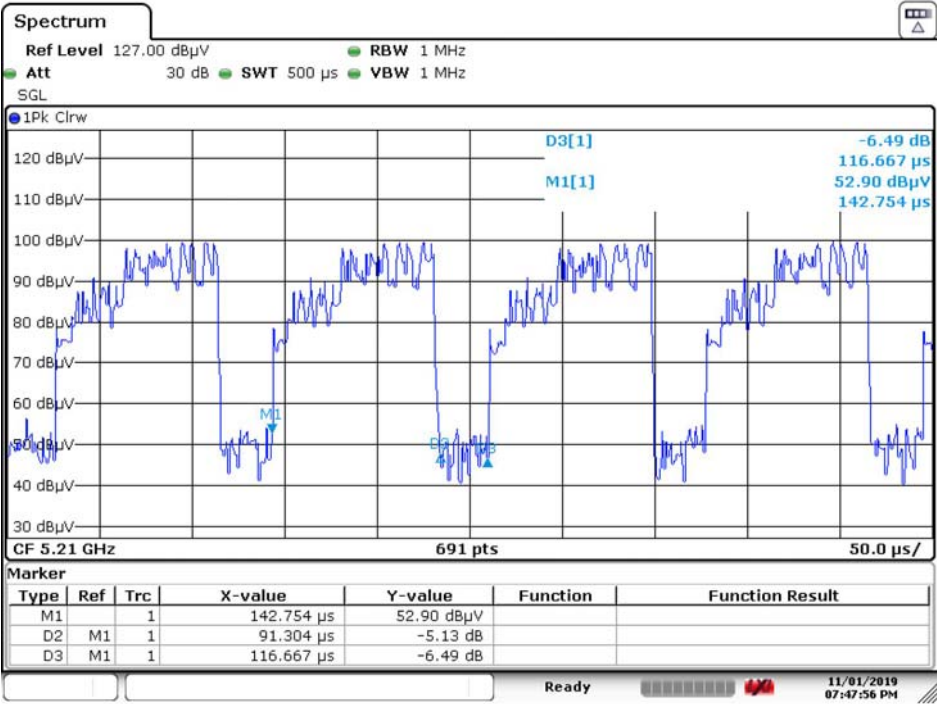
Date: 1.NOV.2019 19:46:49

802.11ax40 (Radio 1_Chain A+Chain B)



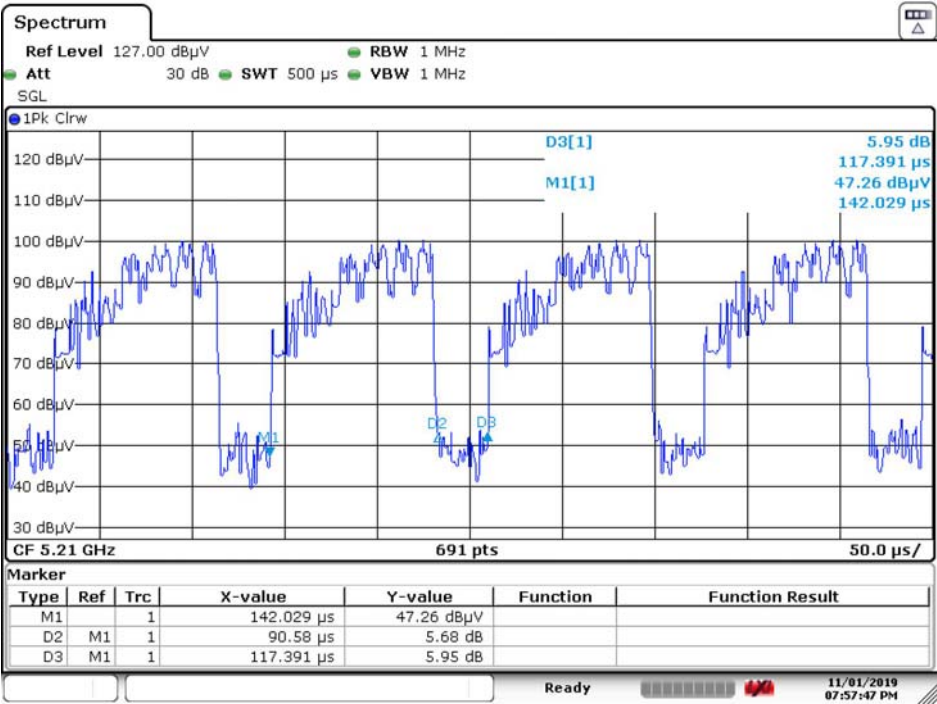
Date: 1.NOV.2019 19:56:48

802.11ax80 (Radio 0_Chain A+Chain B)



Date: 1.NOV.2019 19:47:56

802.11ax80 (Radio 1_Chain A+Chain B)



Date: 1.NOV.2019 19:57:47