



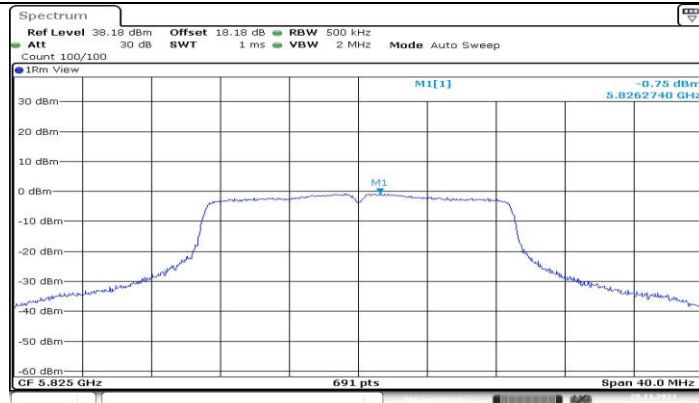
11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



Date: 23.NOV.2021 14:58:36

11N40MIMO_Ant1_5270



Date: 23.NOV.2021 15:02:18

11N40MIMO_Ant2_5270



Date: 23.NOV.2021 15:04:47

11N40MIMO_Ant1_5310



11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



11N40MIMO_Ant2_5510



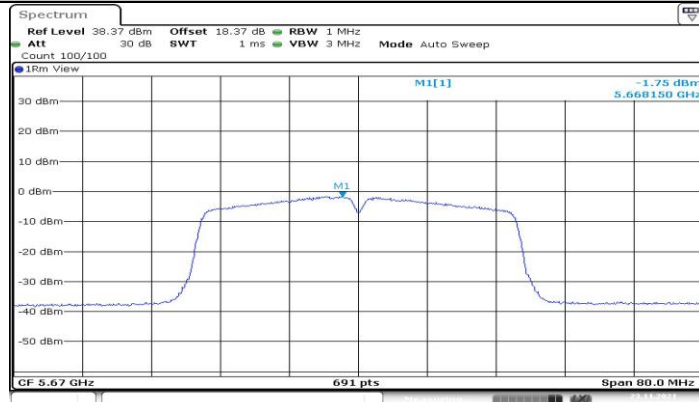
Date: 23.NOV.2021 15:13:56

11N40MIMO_Ant1_5550



Date: 23.NOV.2021 15:15:47

11N40MIMO_Ant2_5550



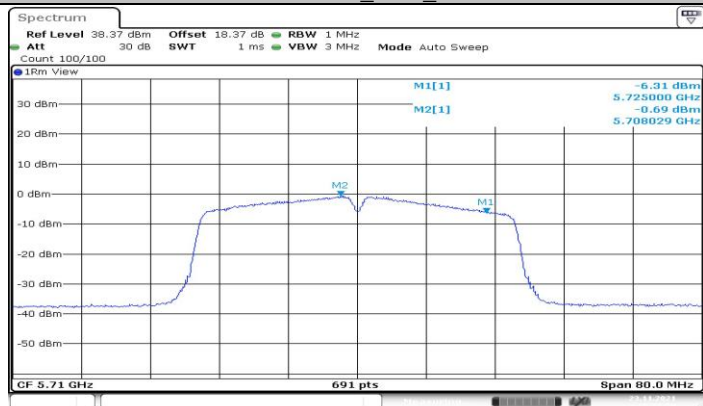
Date: 23.NOV.2021 15:18:00

11N40MIMO_Ant1_5670



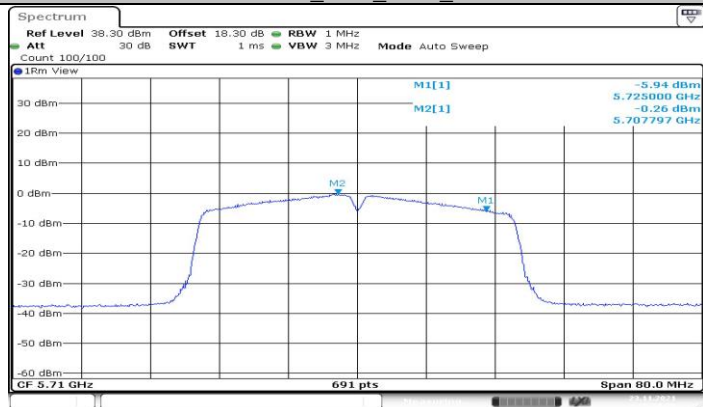
Date: 23.NOV.2021 15:19:29

11N40MIMO_Ant2_5670



Date: 23.NOV.2021 15:21:58

11N40MIMO_Ant1_5710_UNII-2C



Date: 23.NOV.2021 15:24:29

11N40MIMO_Ant2_5710_UNII-2C



Date: 23.NOV.2021 15:22:22

11N40MIMO_Ant1_5710_UNII-3



Date: 23.NOV.2021 15:24:53

11N40MIMO_Ant2_5710_UNII-3



Date: 23.NOV.2021 15:26:45

11N40MIMO_Ant1_5755



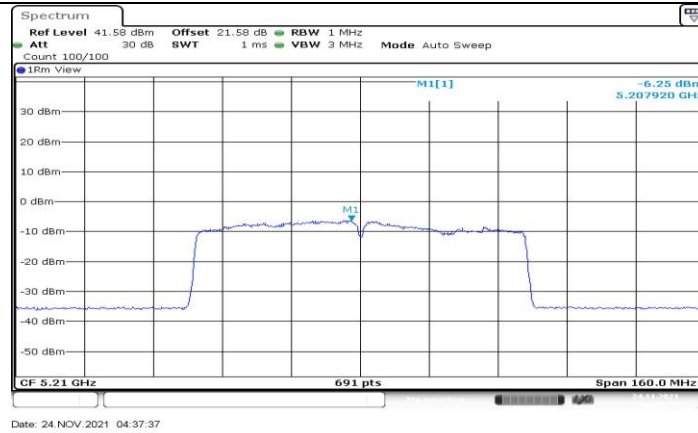
11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



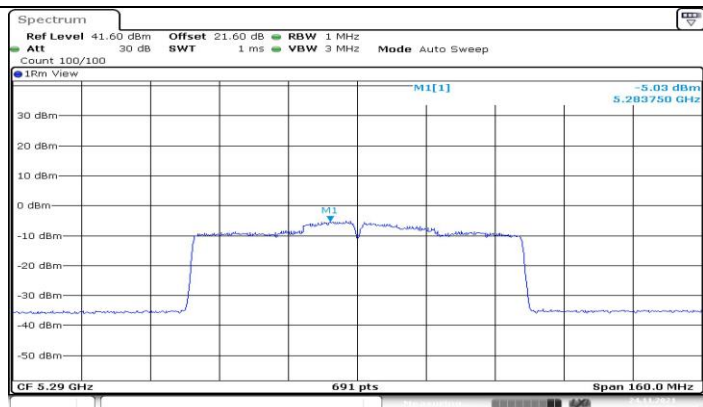
11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

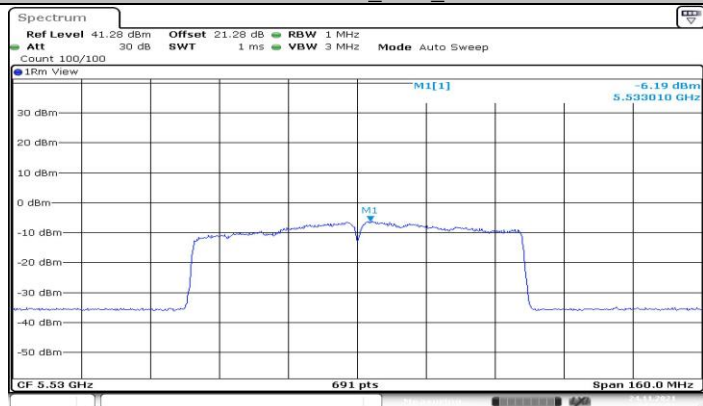


11AC80MIMO_Ant1_5290



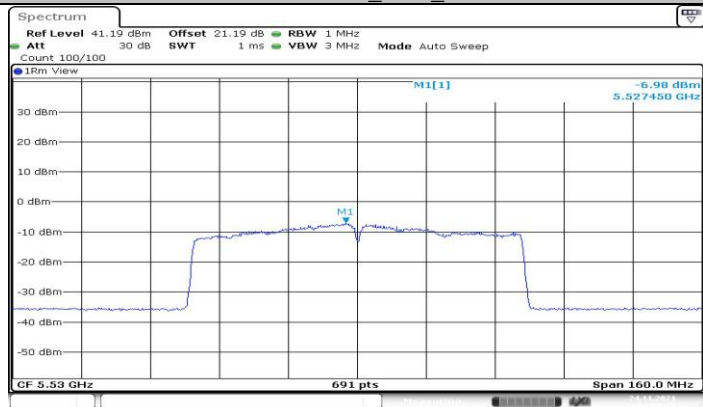
Date: 24 NOV 2021 04:50:38

11AC80MIMO_Ant2_5290



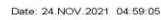
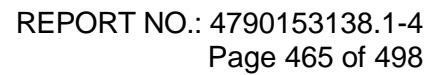
Date: 24 NOV 2021 04:53:32

11AC80MIMO_Ant1_5530



Date: 24 NOV 2021 04:57:17

11AC80MIMO_Ant2_5530



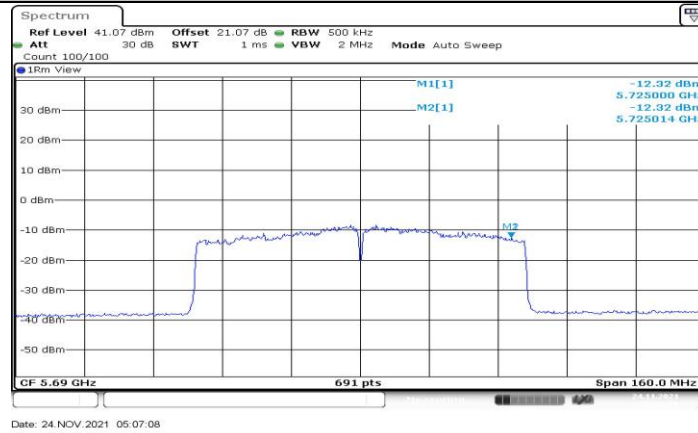
A screenshot of a Spectrum Analyzer interface. The top panel shows settings: Ref Level 41.19 dBm, Offset 21.19 dB, RBW 1 MHz, Att 30 dB, SWT 1 ms, VBW 3 MHz, Mode Auto Sweep. Below this is a 'Count 100/100' indicator. The main plot area is titled 'LRM View' and displays a spectral trace. A peak is labeled 'M1[1]' with a value of '-6.55 dBm' and a frequency of '5.607220 GHz'. Another label 'M1' points to a small dip in the trace. The y-axis ranges from -50 dBm to 30 dBm, and the x-axis ranges from CF 5.61 GHz to Span 160.0 MHz. At the bottom, it indicates 'CF 5.61 GHz', '691 pts', and 'Span 160.0 MHz'. A date/time stamp 'Date: 24.NOV.2021 05:02:44' is visible in the bottom left corner.

The screenshot displays a Spectrum Analyzer interface. At the top, the 'Spectrum' title is visible. The main display area shows a frequency plot with a blue trace. The y-axis represents power in dBm, ranging from -50 to 30. The x-axis represents frequency in GHz, with labels at 5.69 GHz and 5.694870 GHz. Two specific points are marked on the trace: M1 and M2. M1 is located at a higher frequency and shows a sharp downward step in the signal level. M2 is located at a lower frequency and shows a sharp upward step. The signal level is approximately -10 dBm between these two points. The interface includes various control elements such as 'Ref Level', 'Offset', 'RBW', '1 MHz', 'Att', '30 dB', 'SWT', '1 ms', 'VBW', '3 MHz', 'Mode', 'Auto Sweep', and 'Count 100/100'. The bottom status bar shows 'CF 5.69 GHz', '691 pts', and 'Span 160.0 MHz'. The date and time 'Date: 24 NOV 2021 05:06:44' are displayed at the very bottom.

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch FORM No.: 10-SL-F0089
*This report shall not be reproduced except in full, without the written approval of UL Verification Services
 (Guangzhou) Co., Ltd, Song Shan Lake Branch.*



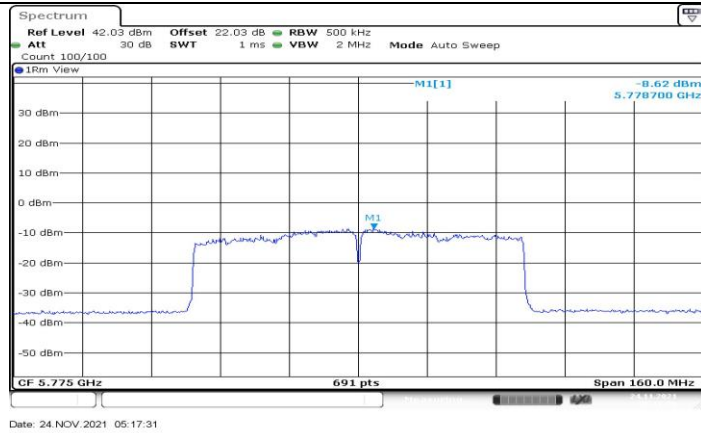
11AC80MIMO_Ant2_5690_UNII-2C



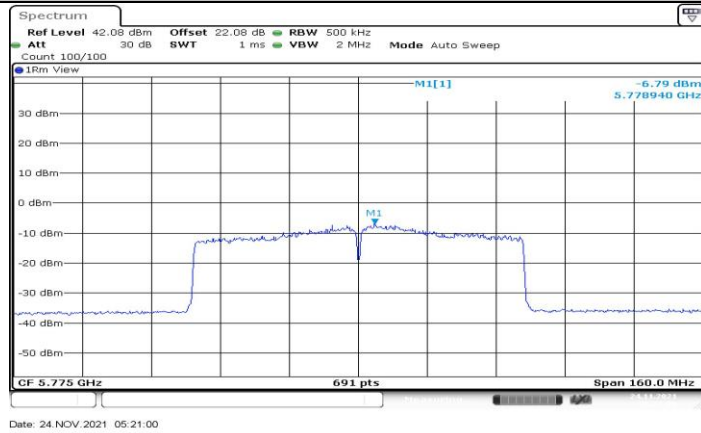
11AC80MIMO_Ant1_5690_UNII-3



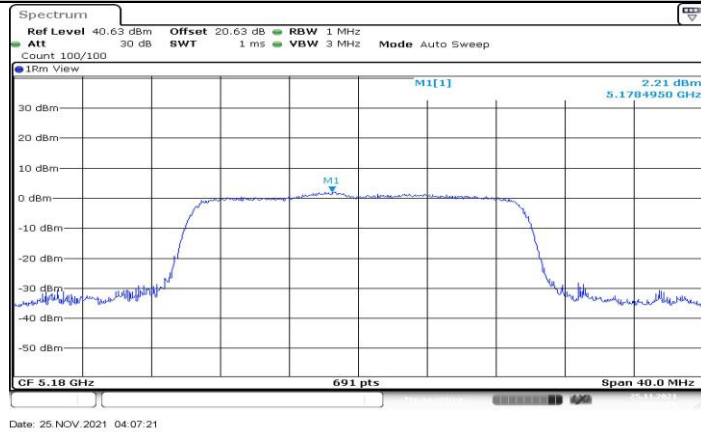
11AC80MIMO_Ant2_5690_UNII-3



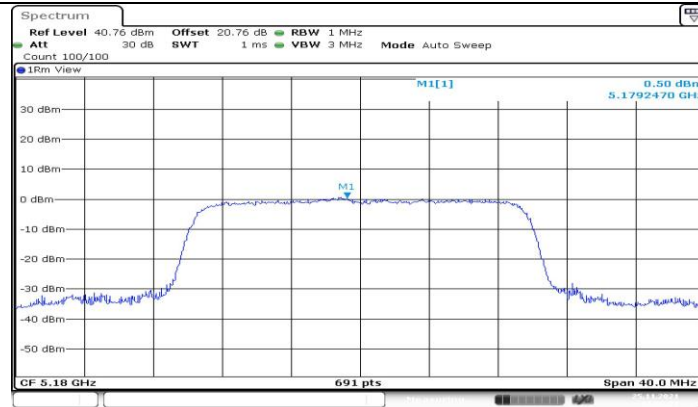
11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

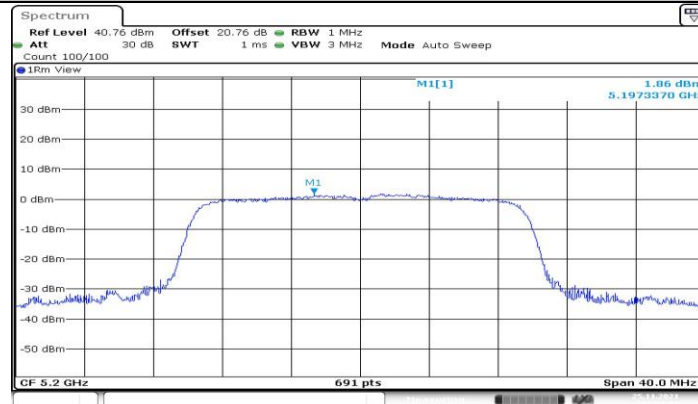


11AX20MIMO_Ant1_5180



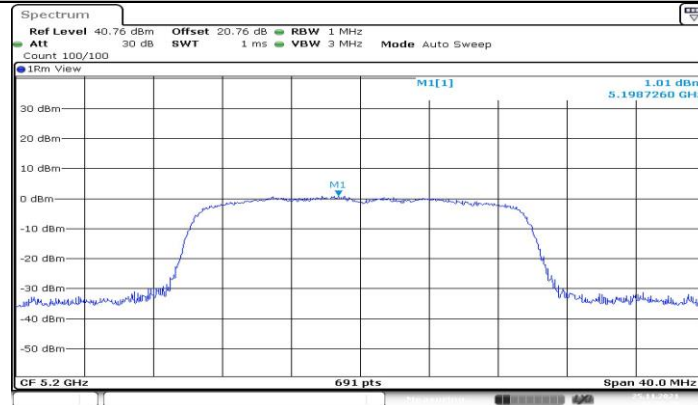
Date: 25 NOV 2021 04:08:28

11AX20MIMO_Ant2_5180



Date: 25 NOV 2021 04:21:01

11AX20MIMO_Ant1_5200

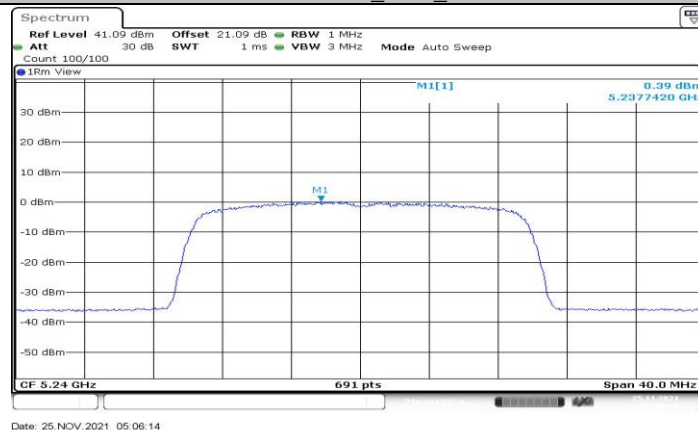


Date: 25 NOV 2021 04:28:49

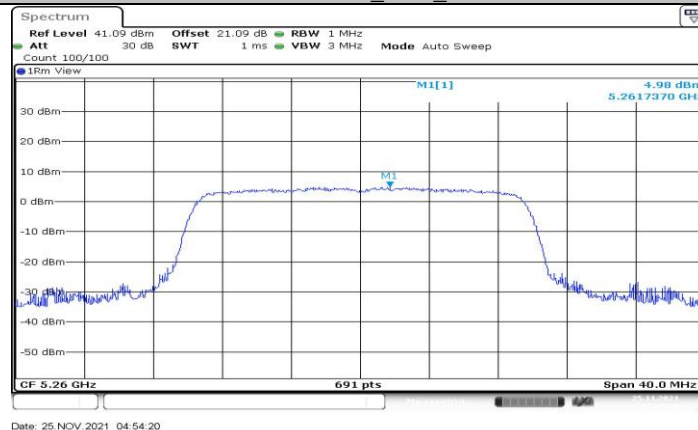
11AX20MIMO_Ant2_5200



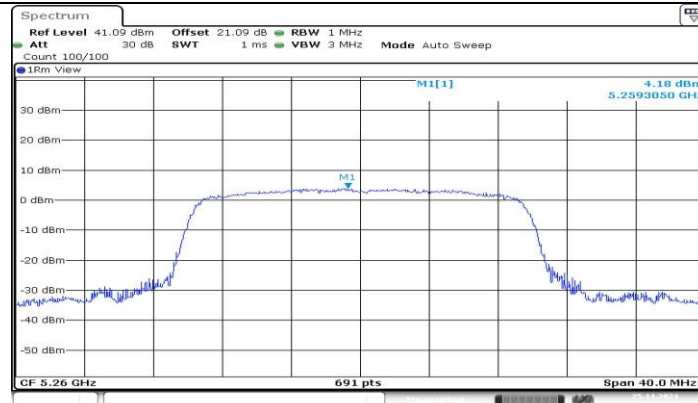
11AX20MIMO_Ant1_5240



11AX20MIMO_Ant2_5240

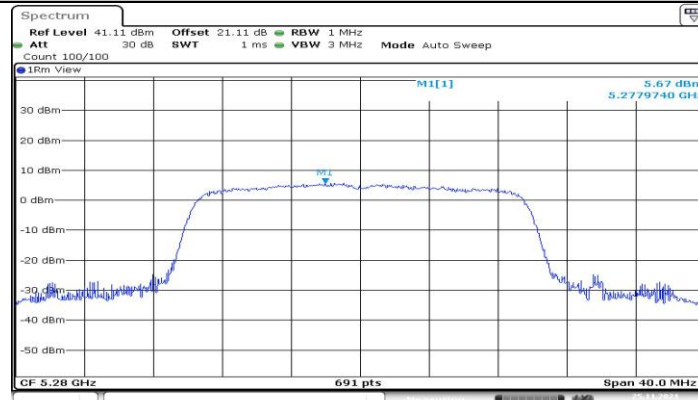


11AX20MIMO_Ant1_5260



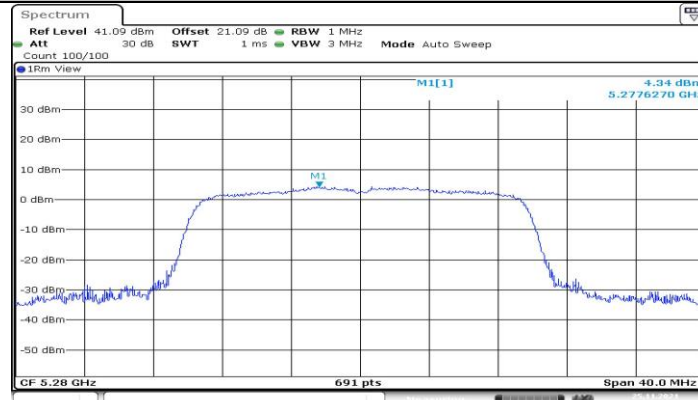
Date: 25 NOV 2021 04:57:03

11AX20MIMO_Ant2_5260



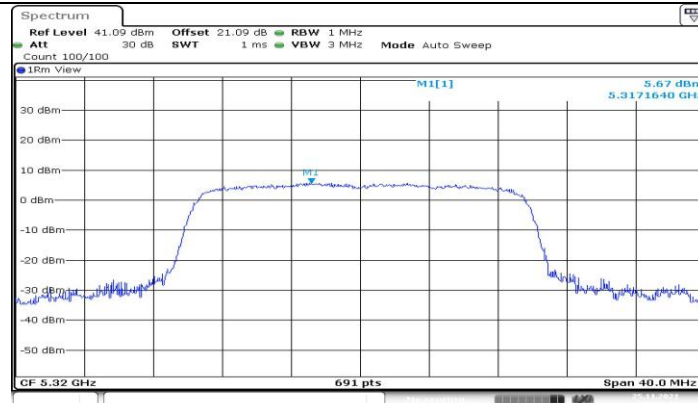
Date: 25 NOV 2021 04:59:47

11AX20MIMO_Ant1_5280



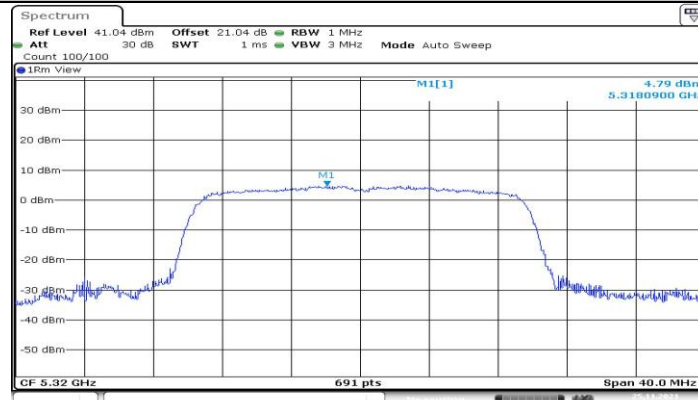
Date: 25 NOV 2021 05:00:47

11AX20MIMO_Ant2_5280



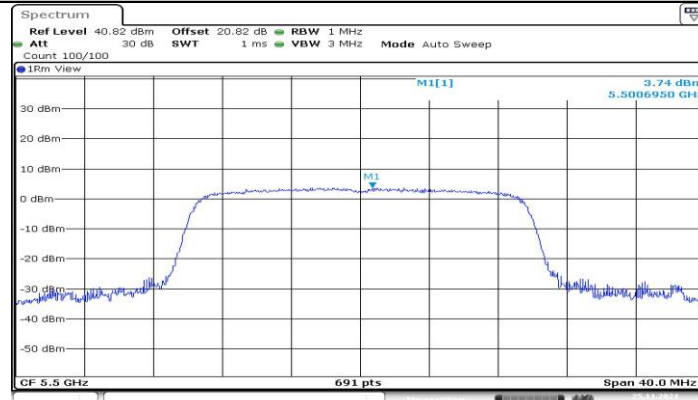
Date: 25 NOV 2021 05:08:11

11AX20MIMO_Ant1_5320



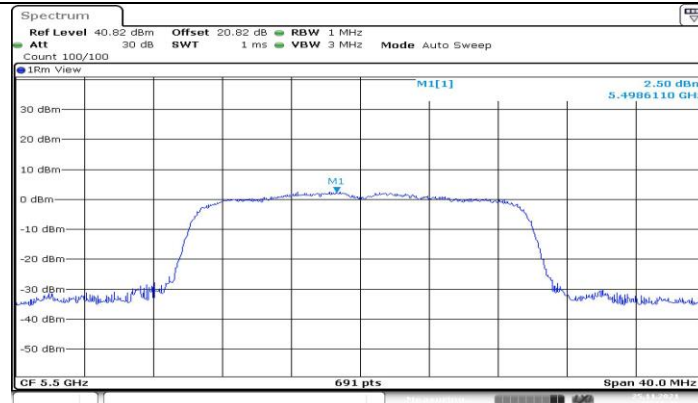
Date: 25 NOV 2021 05:09:08

11AX20MIMO_Ant2_5320



Date: 25 NOV 2021 05:10:37

11AX20MIMO_Ant1_5500



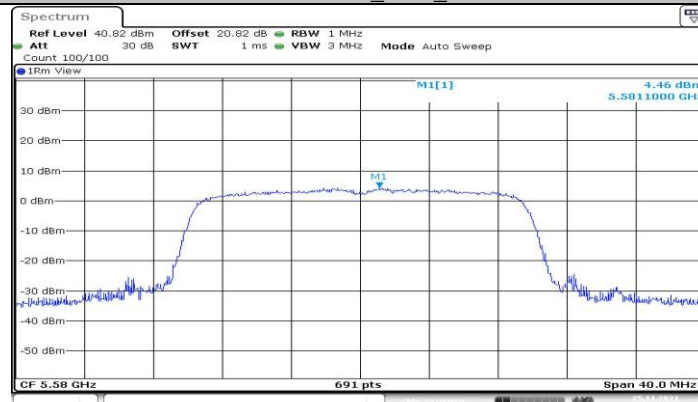
Date: 25 NOV 2021 05:11:45

11AX20MIMO_Ant2_5500



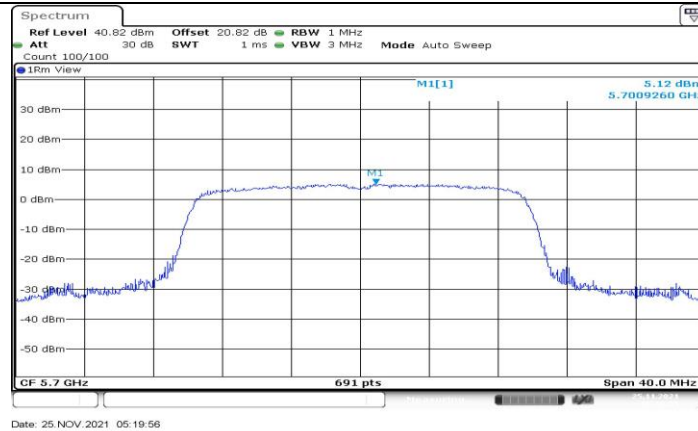
Date: 25 NOV 2021 05:13:21

11AX20MIMO_Ant1_5580

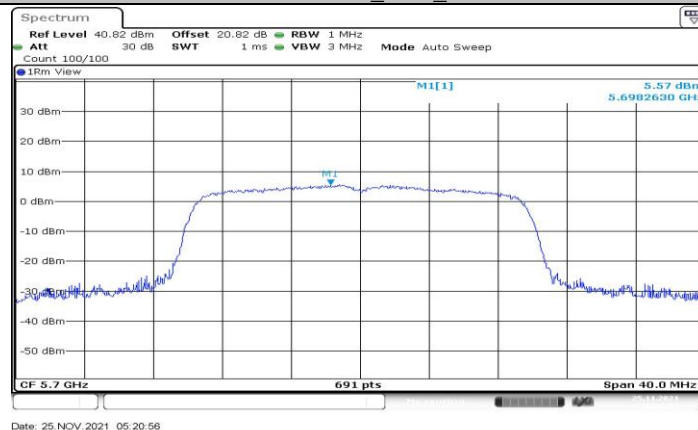


Date: 25 NOV 2021 05:16:57

11AX20MIMO_Ant2_5580



11AX20MIMO_Ant1_5700



11AX20MIMO_Ant2_5700

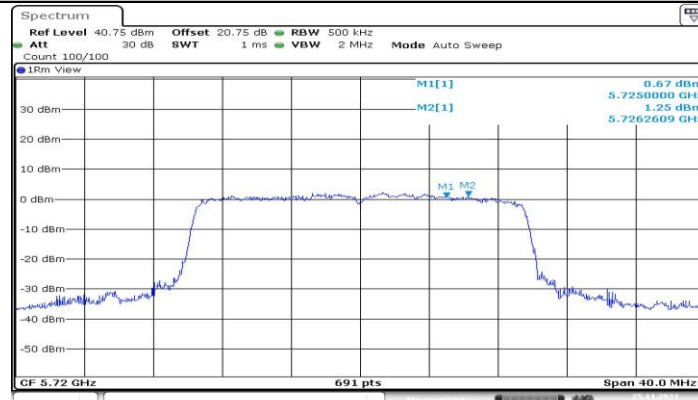


11AX20MIMO_Ant1_5720_UNII-2C



Date: 25 NOV 2021 07:06:42

11AX20MIMO_Ant2_5720_UNII-2C



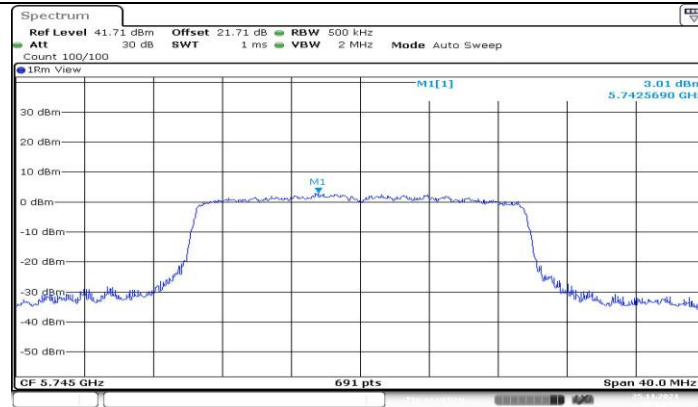
Date: 25 NOV 2021 07:03:35

11AX20MIMO_Ant1_5720_UNII-3



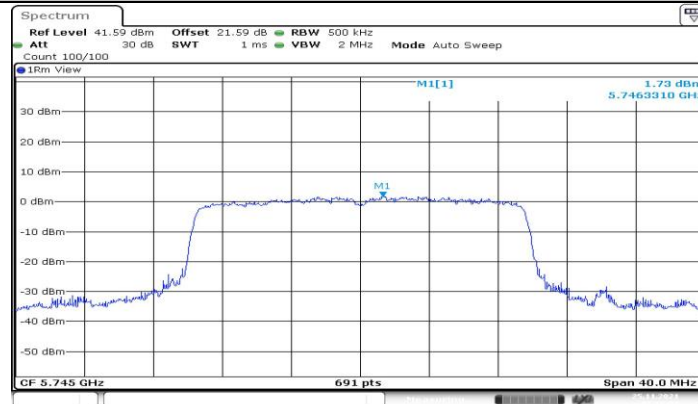
Date: 25 NOV 2021 07:08:48

11AX20MIMO_Ant2_5720_UNII-3



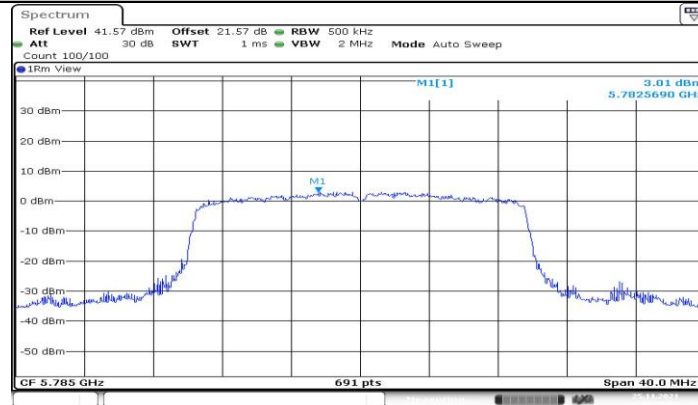
Date: 25 NOV 2021 07:15:36

11AX20MIMO_Ant1_5745



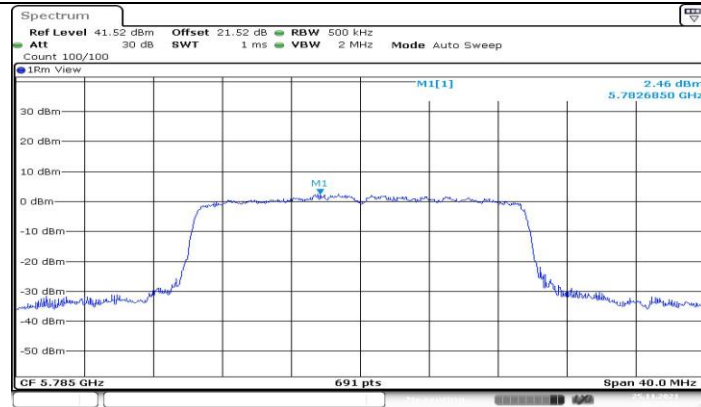
Date: 25 NOV 2021 07:17:07

11AX20MIMO_Ant2_5745



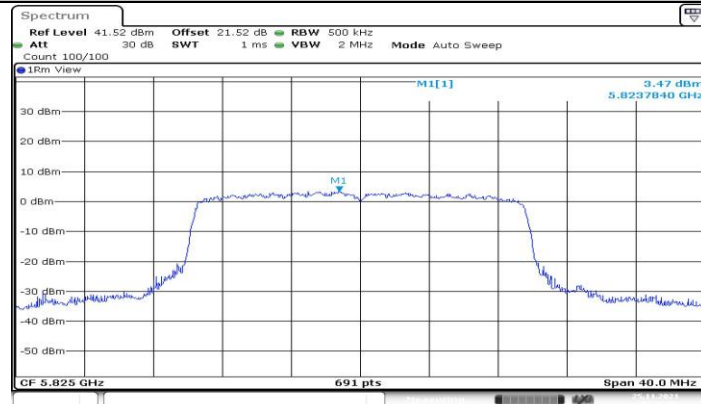
Date: 25 NOV 2021 07:19:32

11AX20MIMO_Ant1_5785



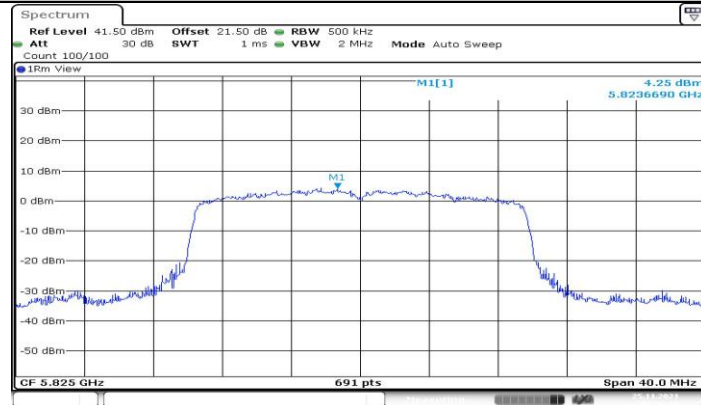
Date: 25 NOV 2021 07:25:13

11AX20MIMO_Ant2_5785



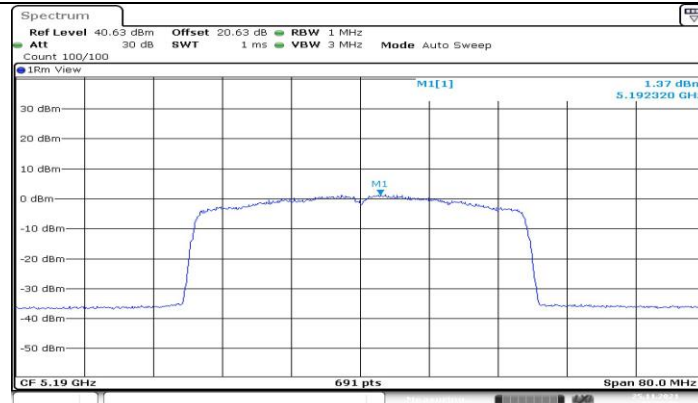
Date: 25 NOV 2021 07:28:06

11AX20MIMO_Ant1_5825



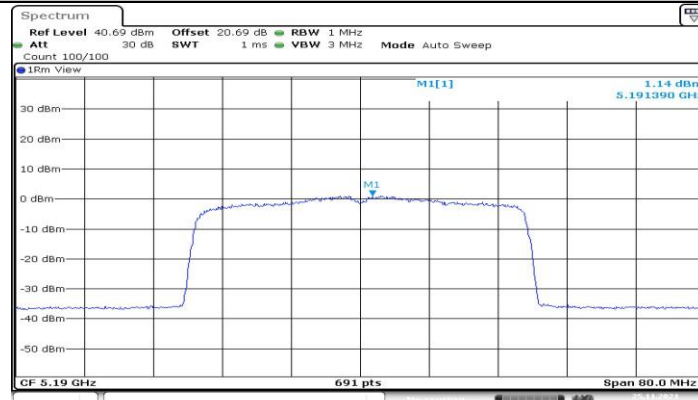
Date: 25 NOV 2021 07:29:15

11AX20MIMO_Ant2_5825



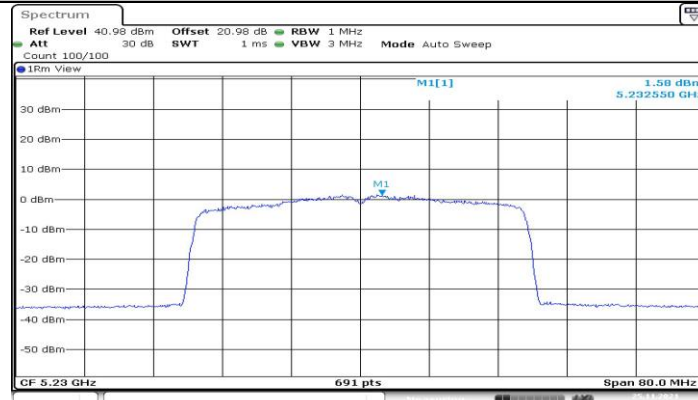
Date: 25 NOV 2021 07:38:08

11AX40MIMO_Ant1_5190



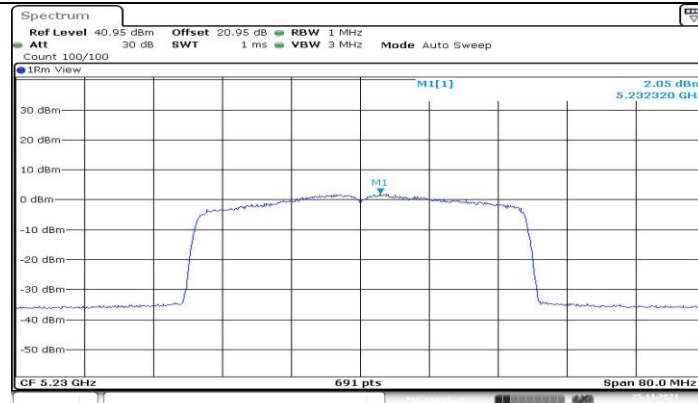
Date: 25 NOV 2021 07:38:45

11AX40MIMO_Ant2_5190



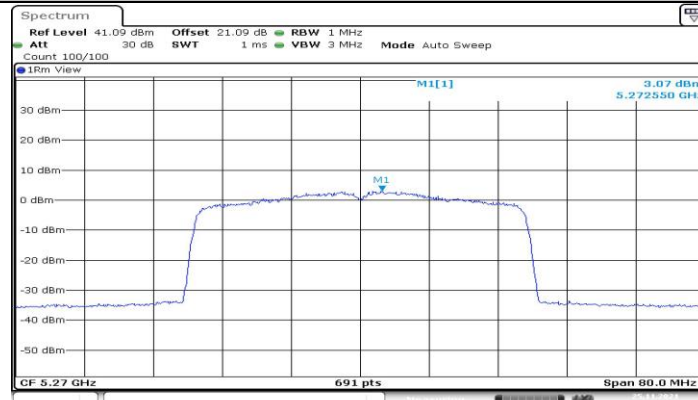
Date: 25 NOV 2021 07:40:31

11AX40MIMO_Ant1_5230



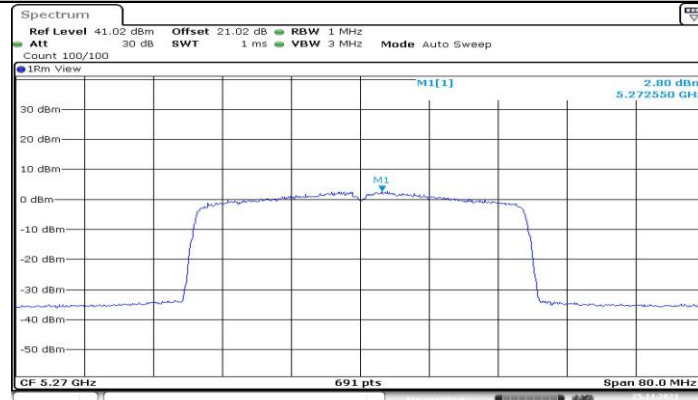
Date: 25 NOV 2021 07:43:19

11AX40MIMO_Ant2_5230



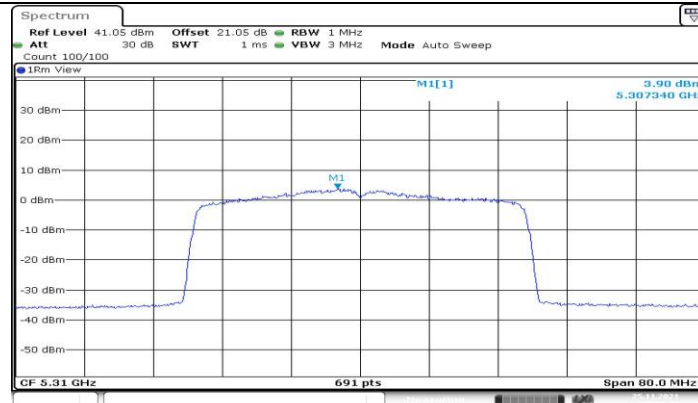
Date: 25 NOV 2021 07:45:27

11AX40MIMO_Ant1_5270



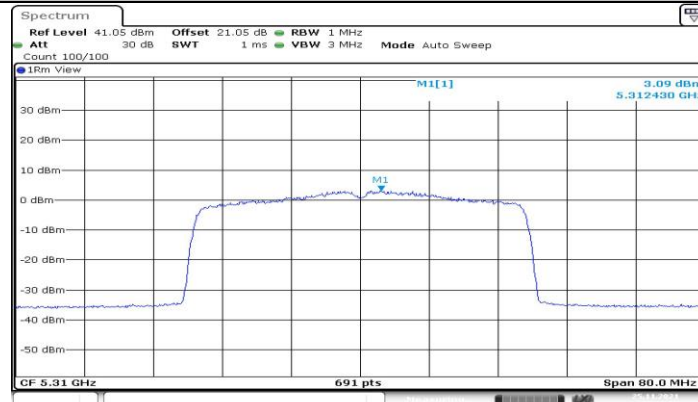
Date: 25 NOV 2021 07:49:32

11AX40MIMO_Ant2_5270



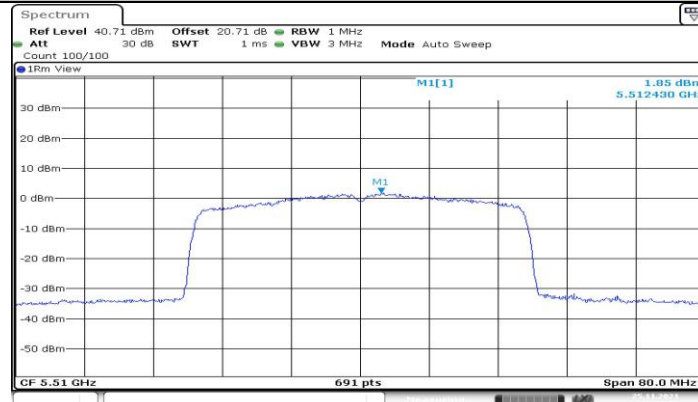
Date: 25 NOV 2021 07:55:43

11AX40MIMO_Ant1_5310



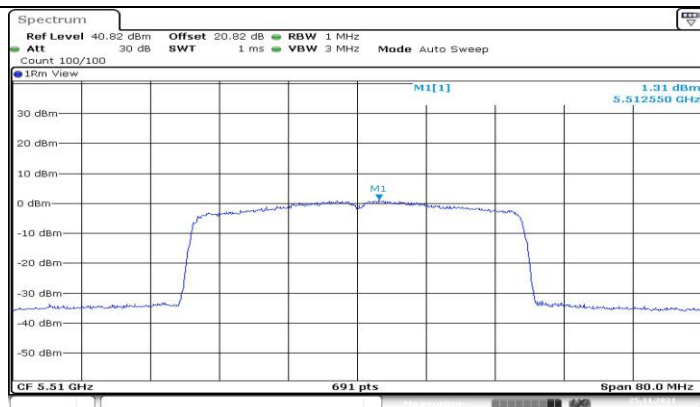
Date: 25 NOV 2021 07:58:58

11AX40MIMO_Ant2_5310



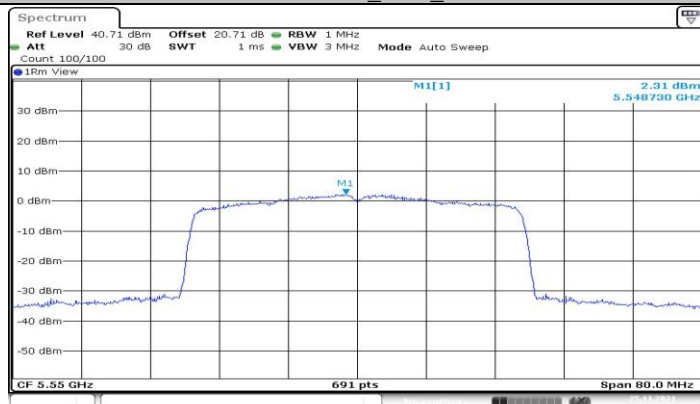
Date: 25 NOV 2021 08:00:25

11AX40MIMO_Ant1_5510



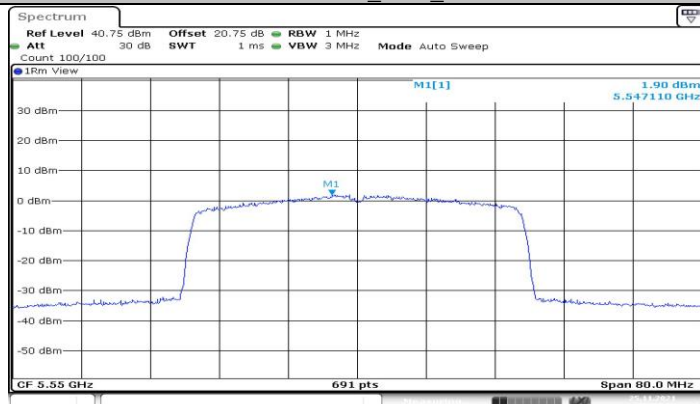
Date: 25 NOV 2021 08 01:52

11AX40MIMO_Ant2_5510



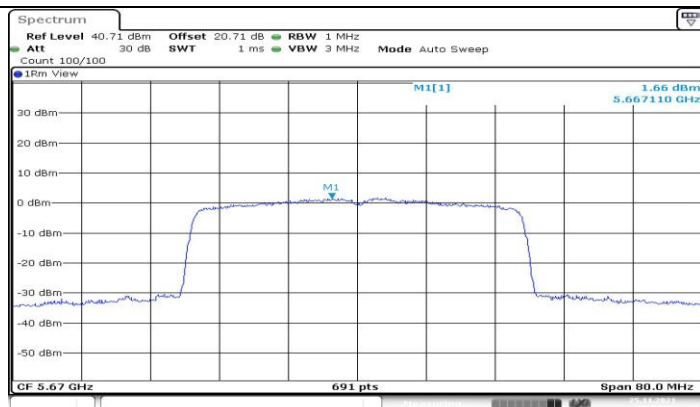
Date: 25 NOV 2021 08 03:09

11AX40MIMO_Ant1_5550



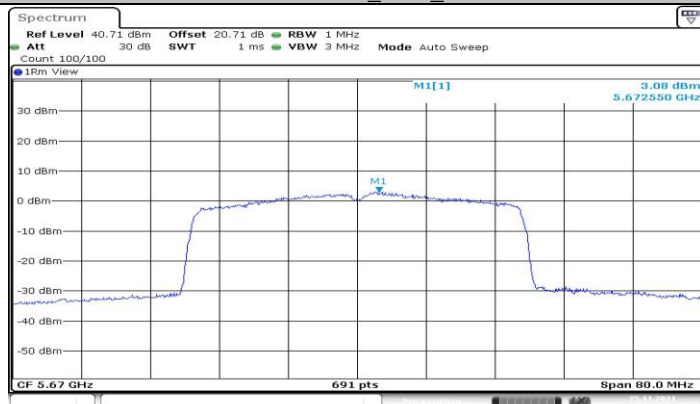
Date: 25 NOV 2021 08 04:13

11AX40MIMO_Ant2_5550



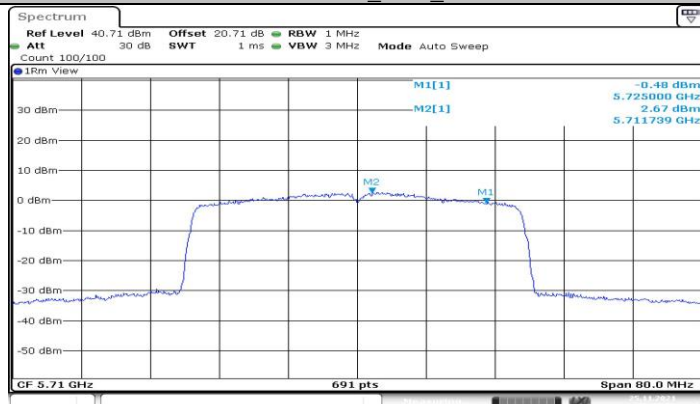
Date: 25 NOV 2021 08:07:53

11AX40MIMO_Ant1_5670



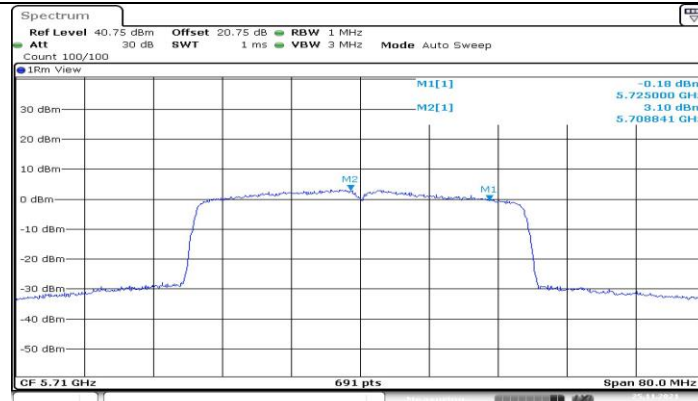
Date: 25 NOV 2021 08:08:59

11AX40MIMO_Ant2_5670



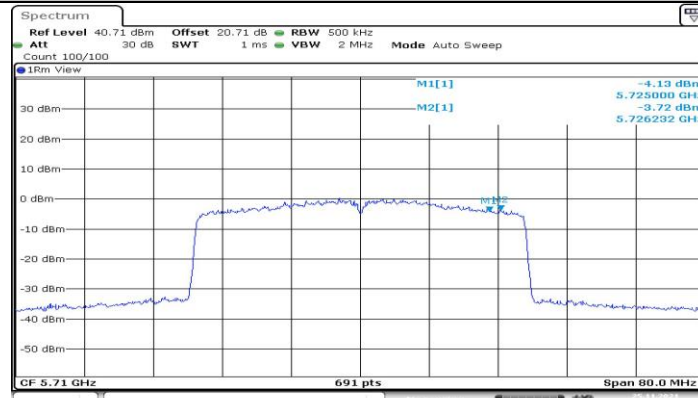
Date: 25 NOV 2021 08:10:40

11AX40MIMO_Ant1_5710_UNII-2C



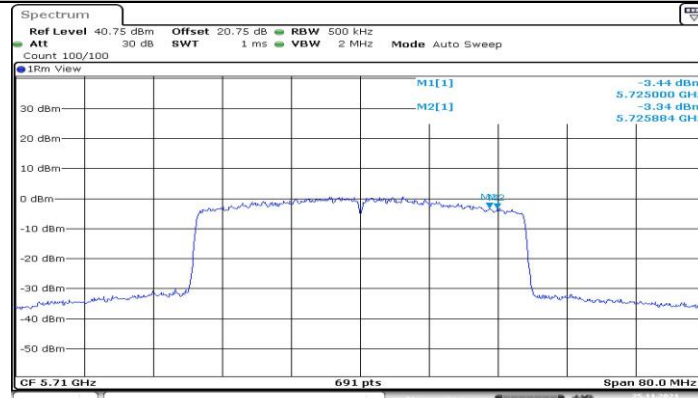
Date: 25 NOV 2021 08:14:21

11AX40MIMO_Ant2_5710_UNII-2C



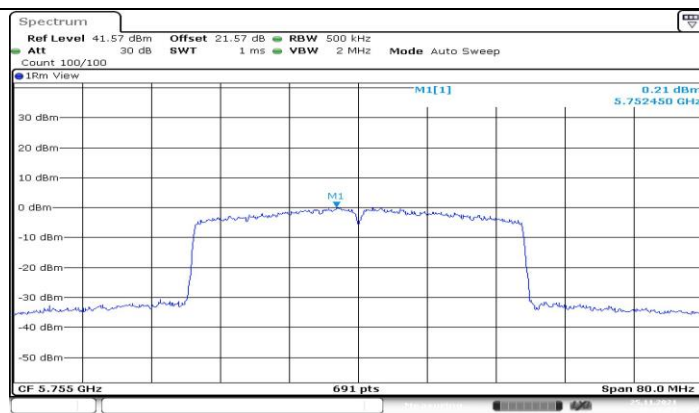
Date: 25 NOV 2021 08:10:45

11AX40MIMO_Ant1_5710_UNII-3



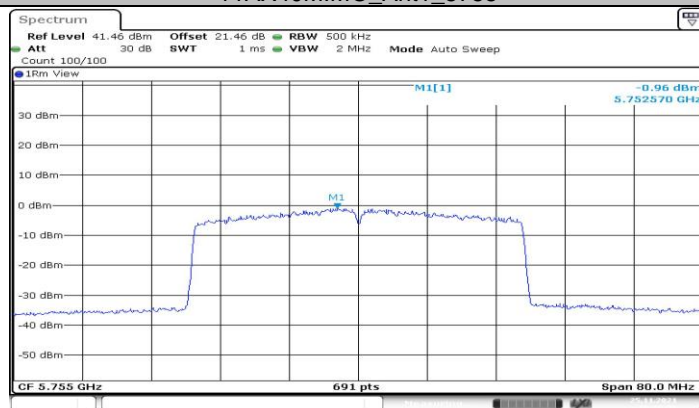
Date: 25 NOV 2021 08:14:28

11AX40MIMO_Ant2_5710_UNII-3



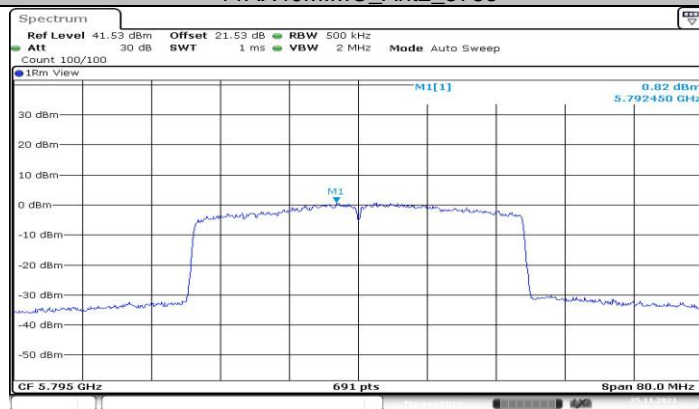
Date: 25 NOV 2021 08:17:27

11AX40MIMO_Ant1_5755



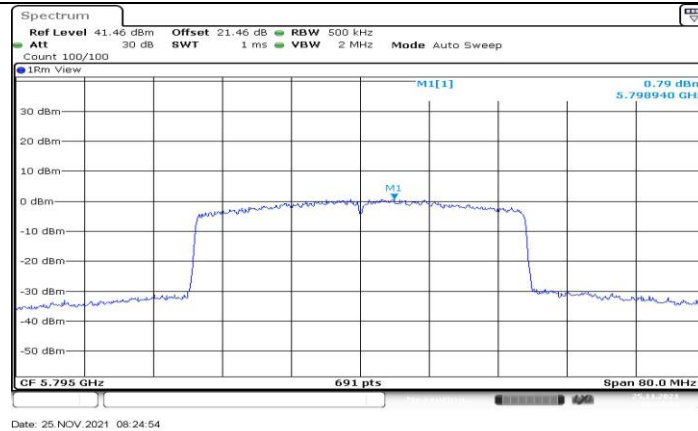
Date: 25 NOV 2021 08:19:36

11AX40MIMO_Ant2_5755

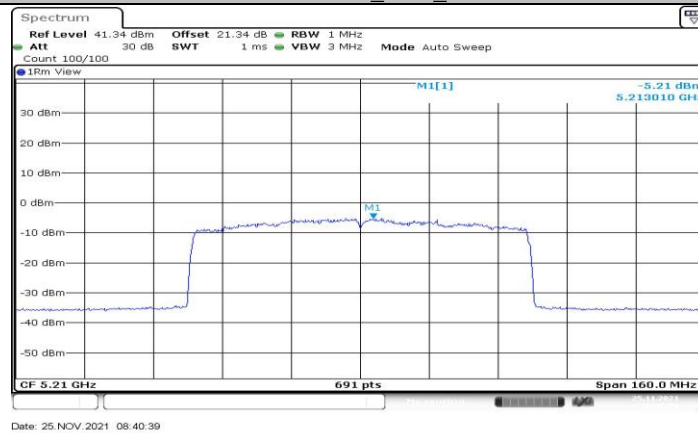


Date: 25 NOV 2021 08:21:40

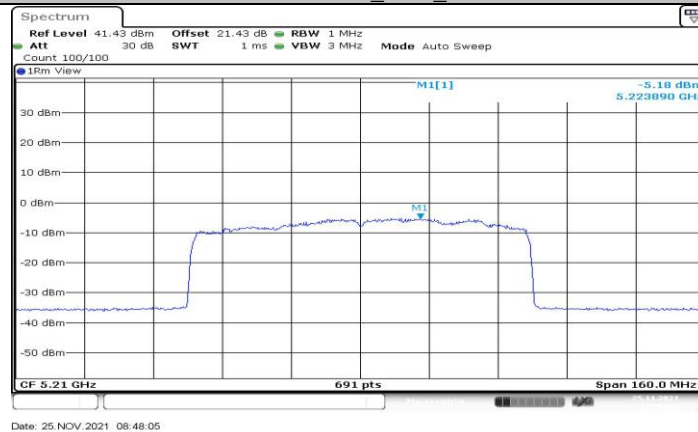
11AX40MIMO_Ant1_5795



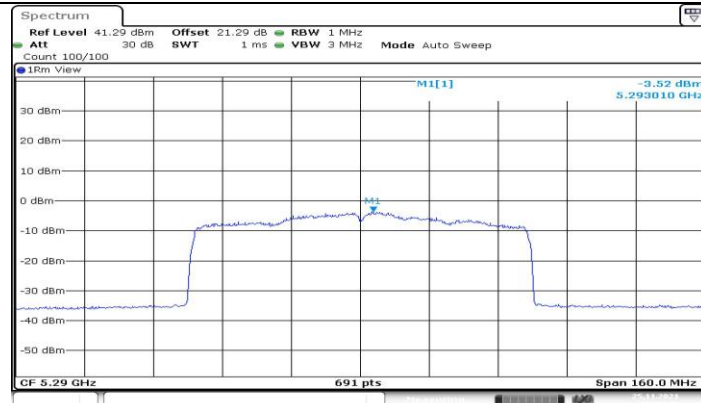
11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5210

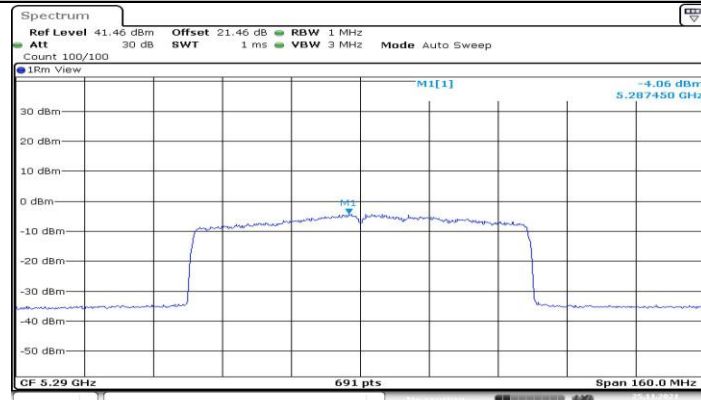


11AX80MIMO_Ant2_5210



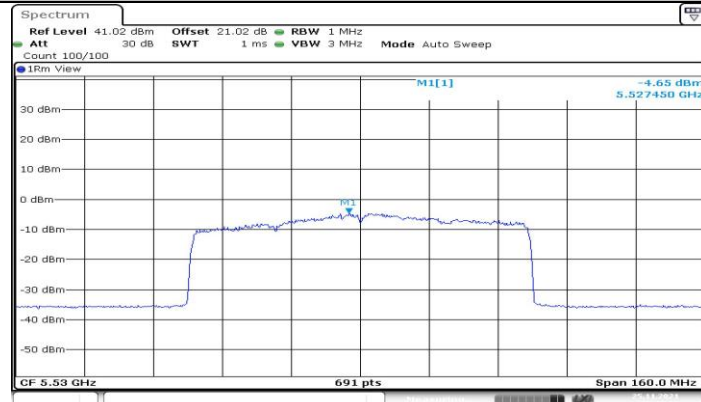
Date: 25 NOV 2021 08:56:41

11AX80MIMO_Ant1_5290



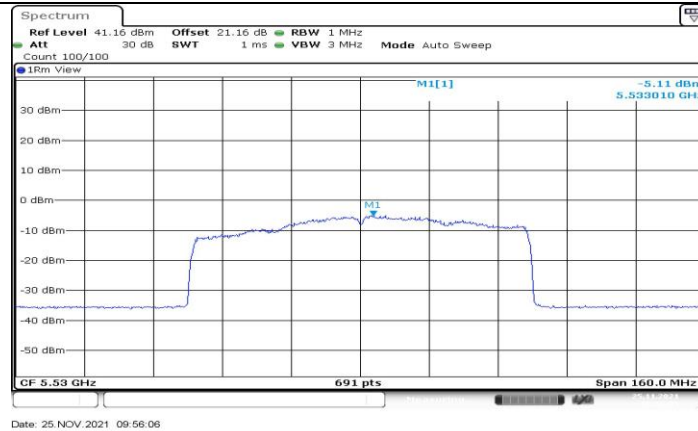
Date: 25 NOV 2021 08:57:41

11AX80MIMO_Ant2_5290



Date: 25 NOV 2021 09:42:16

11AX80MIMO_Ant1_5530



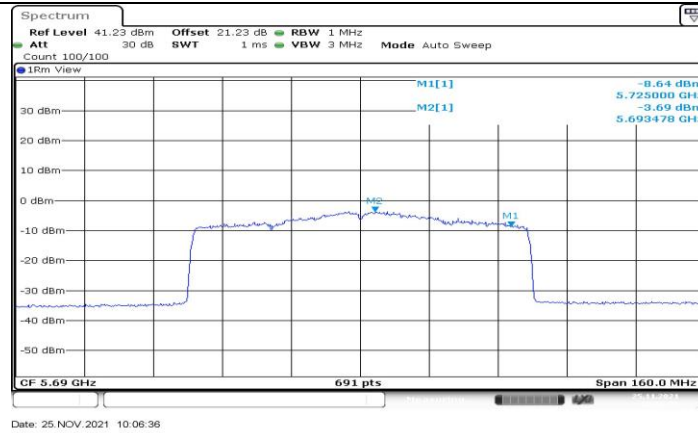
11AX80MIMO_Ant2_5530



11AX80MIMO_Ant1_5610



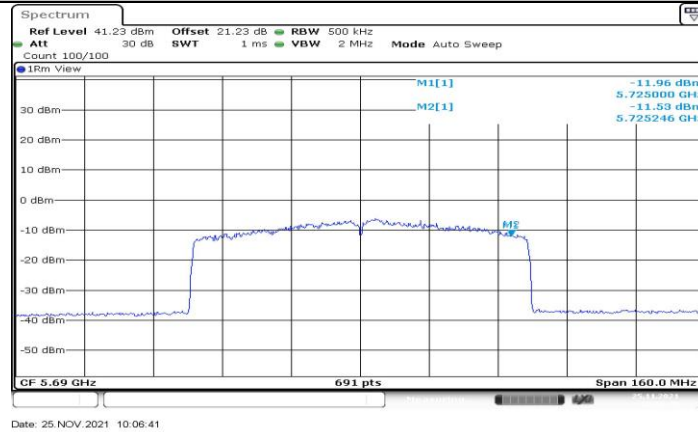
11AX80MIMO_Ant2_5610



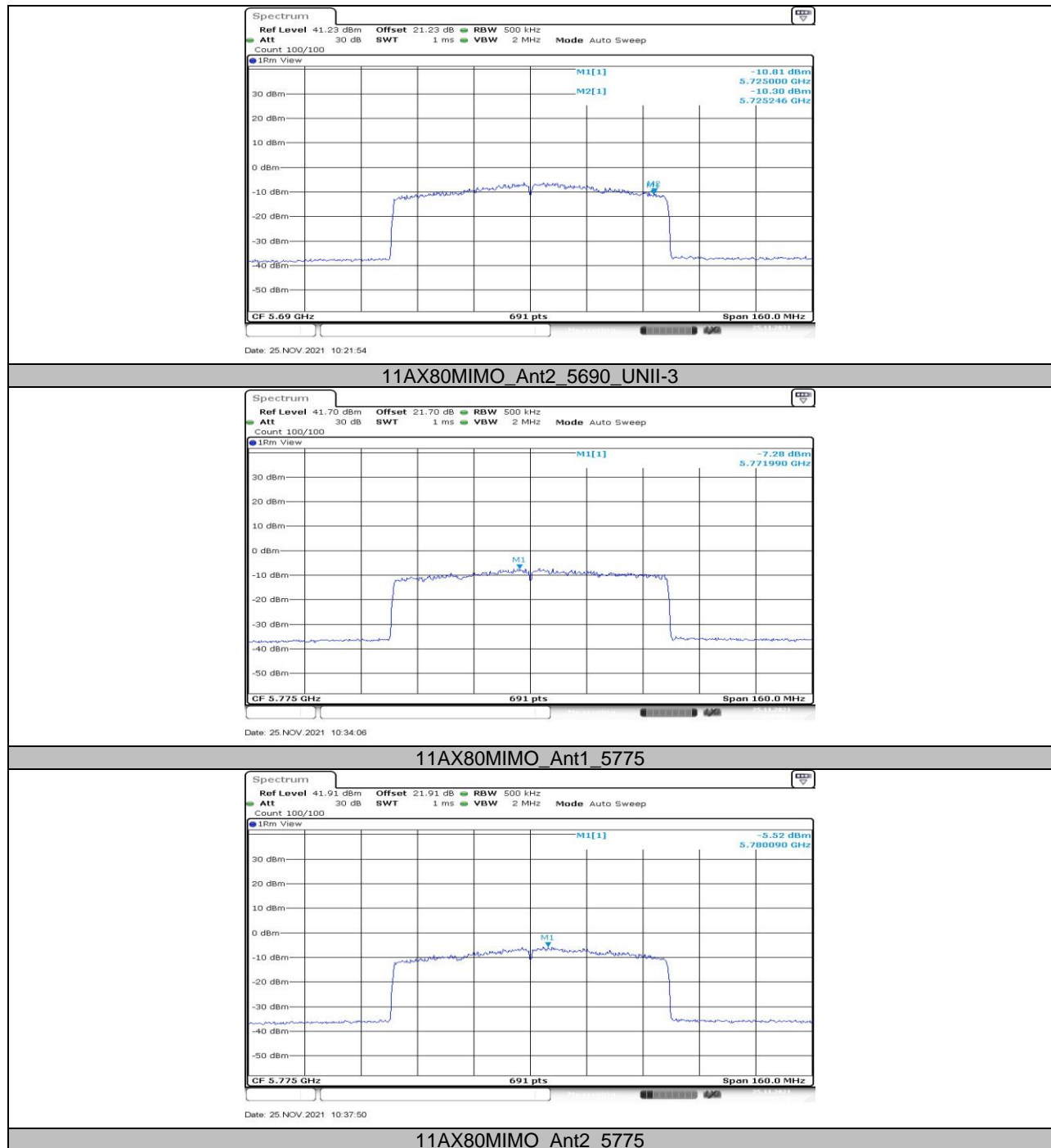
11AX80MIMO_Ant1_5690_UNII-2C



11AX80MIMO_Ant2_5690_UNII-2C



11AX80MIMO_Ant1_5690_UNII-3





12.6. Appendix D: Duty Cycle

12.6.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A	1.38	1.75	0.7886	78.86	1.03	0.72	1
11N20MIMO	1.29	1.67	0.7725	77.25	1.12	0.78	1
11N40MIMO	0.64	1.02	0.6275	62.75	2.02	1.56	1
11AC80MIMO	0.18	0.57	0.3158	31.58	5.01	5.56	6
11AX20MIMO	0.20	0.55	0.3636	36.36	4.39	5.00	6
11AX40MIMO	0.20	0.55	0.3636	36.36	4.39	5.00	6
11AX80MIMO	0.19	0.57	0.3333	33.33	4.77	5.26	6

Note:

Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

12.6.2. Test Graphs

