



Appendix A U-NII: Emission Bandwidth



1 Result Table for 26dB Emission Bandwidth

| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | 26dB Emission Bandwidth [MHz] | Verdict |
|-----------|--------------|-----------------|--------------|-------------------------------|---------|
| 11A20 | 36 | 5180 | ANT 1 | 20.34 | PASS |
| | 36 | 5180 | ANT 2 | 20.34 | PASS |
| | 36 | 5180 | ANT 3 | 20.38 | PASS |
| | 48 | 5240 | ANT 1 | 20.38 | PASS |
| | 48 | 5240 | ANT 2 | 20.32 | PASS |
| | 48 | 5240 | ANT 3 | 20.38 | PASS |
| 11N20 | 36 | 5180 | ANT 1 | 20.98 | PASS |
| | 36 | 5180 | ANT 2 | 20.88 | PASS |
| | 36 | 5180 | ANT 3 | 21.02 | PASS |
| | 48 | 5240 | ANT 1 | 20.9 | PASS |
| | 48 | 5240 | ANT 2 | 20.98 | PASS |
| | 48 | 5240 | ANT 3 | 21.02 | PASS |
| 11N20MIMO | 36 | 5180 | ANT 1 | 20.84 | PASS |
| | 36 | 5180 | ANT 2 | 20.48 | PASS |
| | 36 | 5180 | ANT 3 | 20.86 | PASS |
| | 48 | 5240 | ANT 1 | 20.82 | PASS |
| | 48 | 5240 | ANT 2 | 20.6 | PASS |
| | 48 | 5240 | ANT 3 | 20.62 | PASS |
| 11N40 | 38 | 5190 | ANT 1 | 40.44 | PASS |
| | 38 | 5190 | ANT 2 | 40.3 | PASS |
| | 38 | 5190 | ANT 3 | 40.34 | PASS |
| | 46 | 5230 | ANT 1 | 40.08 | PASS |
| | 46 | 5230 | ANT 2 | 40.32 | PASS |
| | 46 | 5230 | ANT 3 | 40.18 | PASS |
| 11N40MIMO | 38 | 5190 | ANT 1 | 40.1 | PASS |
| | 38 | 5190 | ANT 2 | 39.48 | PASS |
| | 38 | 5190 | ANT 3 | 40 | PASS |
| | 46 | 5230 | ANT 1 | 40.22 | PASS |
| | 46 | 5230 | ANT 2 | 39.46 | PASS |
| | 46 | 5230 | ANT 3 | 40.04 | PASS |
| 11AC20 | 36 | 5180 | ANT 1 | 20.9 | PASS |
| | 36 | 5180 | ANT 2 | 20.88 | PASS |
| | 36 | 5180 | ANT 3 | 21.18 | PASS |
| | 48 | 5240 | ANT 1 | 20.9 | PASS |
| | 48 | 5240 | ANT 2 | 20.88 | PASS |

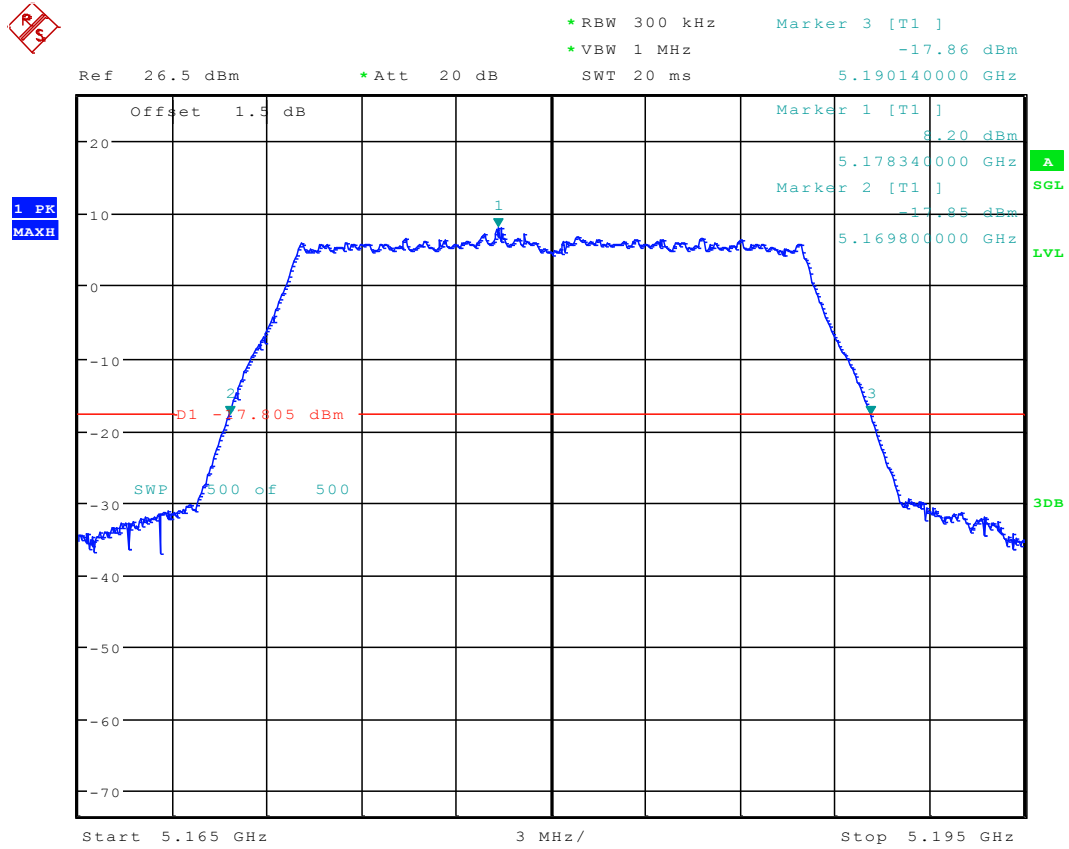


| | | | | | |
|------------|----|------|-------|-------|------|
| | 48 | 5240 | ANT 3 | 20.82 | PASS |
| 11AC20MIMO | 36 | 5180 | ANT 1 | 20.86 | PASS |
| | 36 | 5180 | ANT 2 | 20.46 | PASS |
| | 36 | 5180 | ANT 3 | 20.88 | PASS |
| | 48 | 5240 | ANT 1 | 21 | PASS |
| | 48 | 5240 | ANT 2 | 20.5 | PASS |
| | 48 | 5240 | ANT 3 | 20.66 | PASS |
| 11AC40 | 38 | 5190 | ANT 1 | 40.3 | PASS |
| | 38 | 5190 | ANT 2 | 40.32 | PASS |
| | 38 | 5190 | ANT 3 | 40.32 | PASS |
| | 46 | 5230 | ANT 1 | 40.34 | PASS |
| | 46 | 5230 | ANT 2 | 40.34 | PASS |
| | 46 | 5230 | ANT3 | 40.3 | PASS |
| 11AC40MIMO | 38 | 5190 | ANT 1 | 40.34 | PASS |
| | 38 | 5190 | ANT 2 | 39.72 | PASS |
| | 38 | 5190 | ANT 3 | 39.82 | PASS |
| | 46 | 5230 | ANT 1 | 40.14 | PASS |
| | 46 | 5230 | ANT 2 | 39.7 | PASS |
| | 46 | 5230 | ANT3 | 39.72 | PASS |
| 11AC80 | 42 | 5210 | ANT 1 | 83.04 | PASS |
| | 42 | 5210 | ANT 2 | 82.9 | PASS |
| | 42 | 5210 | ANT 3 | 82.93 | PASS |
| 11AC80MIMO | 42 | 5210 | ANT 1 | 83.09 | PASS |
| | 42 | 5210 | ANT 2 | 82.45 | PASS |
| | 42 | 5210 | ANT 3 | 82.35 | PASS |



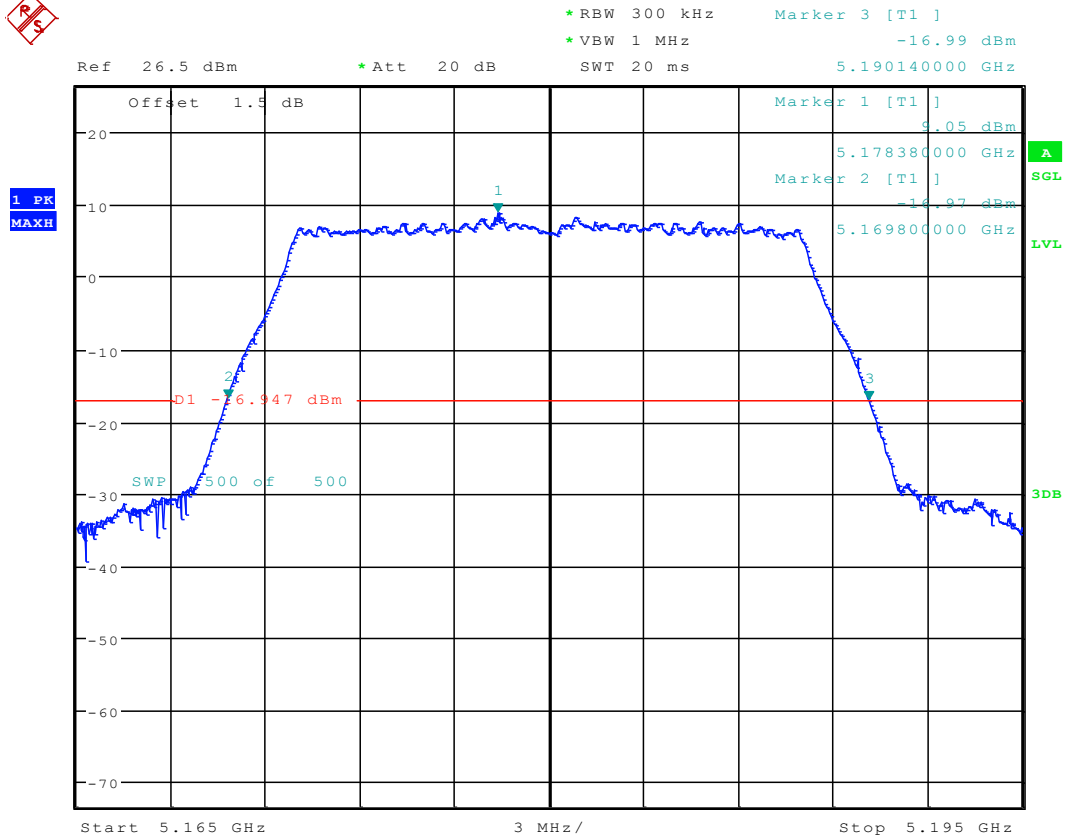
2 Test Plot for 26dB Emission Bandwidth

2.1 11A20_36 ANT 1



Date: 8.FEB.2017 16:50:31

2.2 11A20_36 ANT 2



Date: 9.FEB.2017 14:51:10

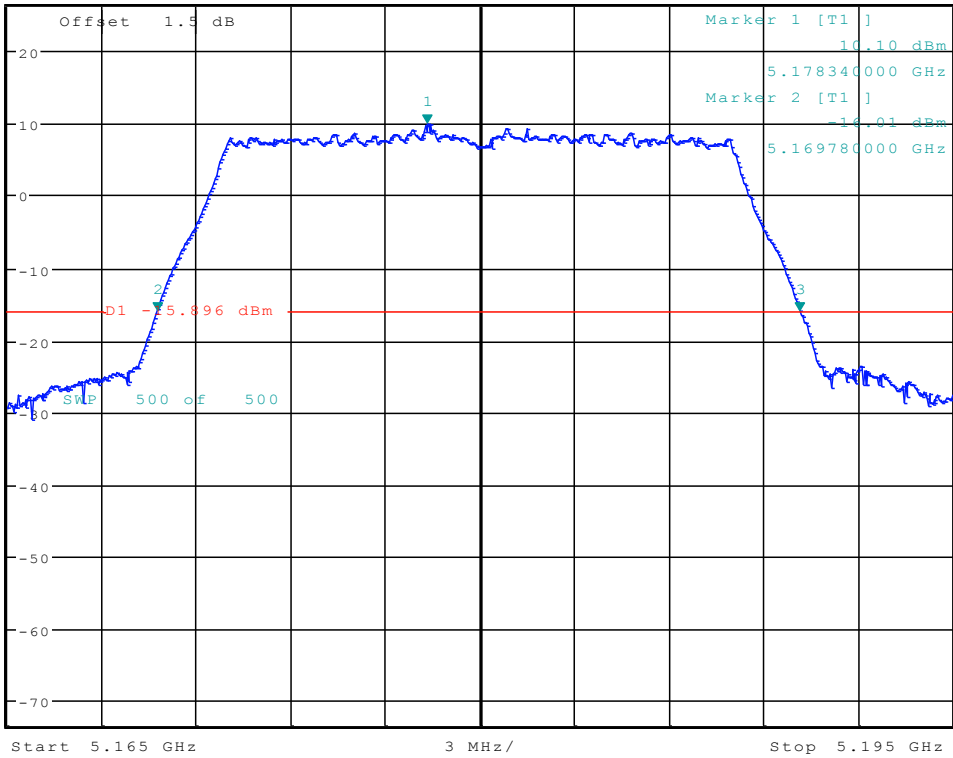
2.3 11A20_36 ANT 3



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -16.00 dBm
 SWT 20 ms 5.190160000 GHz

Ref 26.5 dBm *Att 20 dB

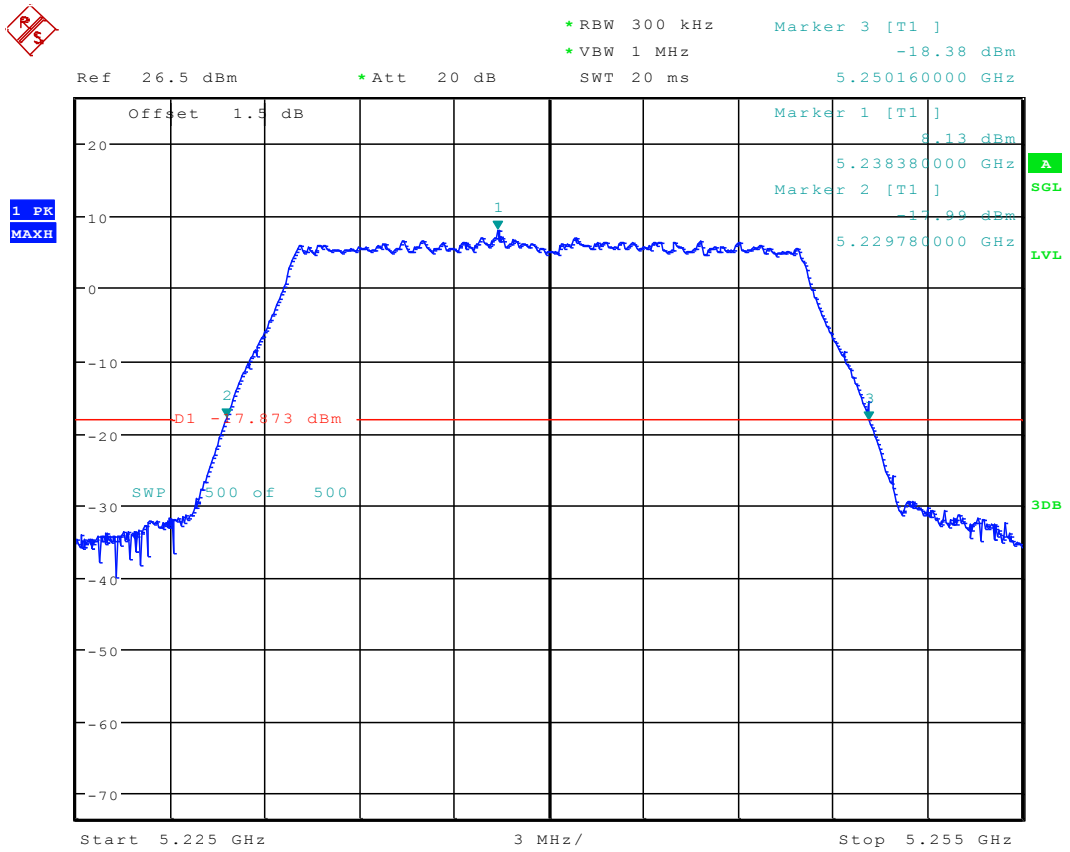
1 PK
MAXH



Date: 9.FEB.2017 18:18:05

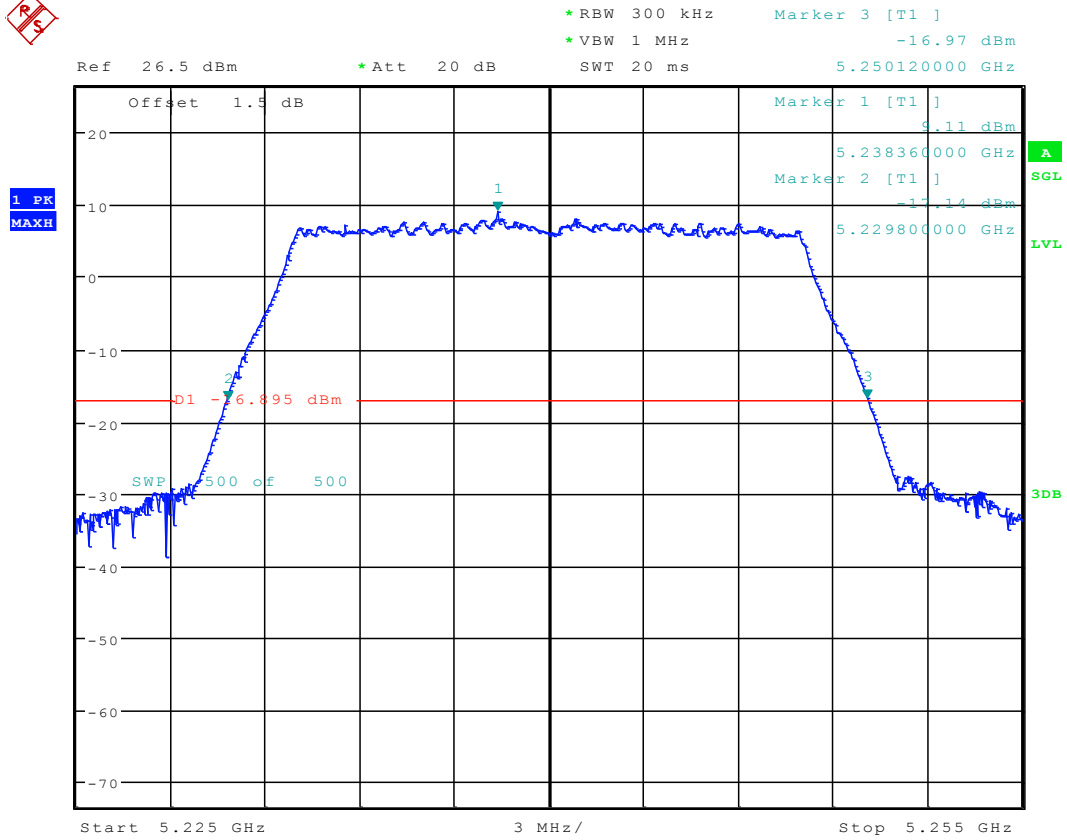


2.4 11A20_48 ANT 1



Date: 8.FEB.2017 17:09:39

2.5 11A20_48 ANT 2



Date: 9.FEB.2017 15:22:34

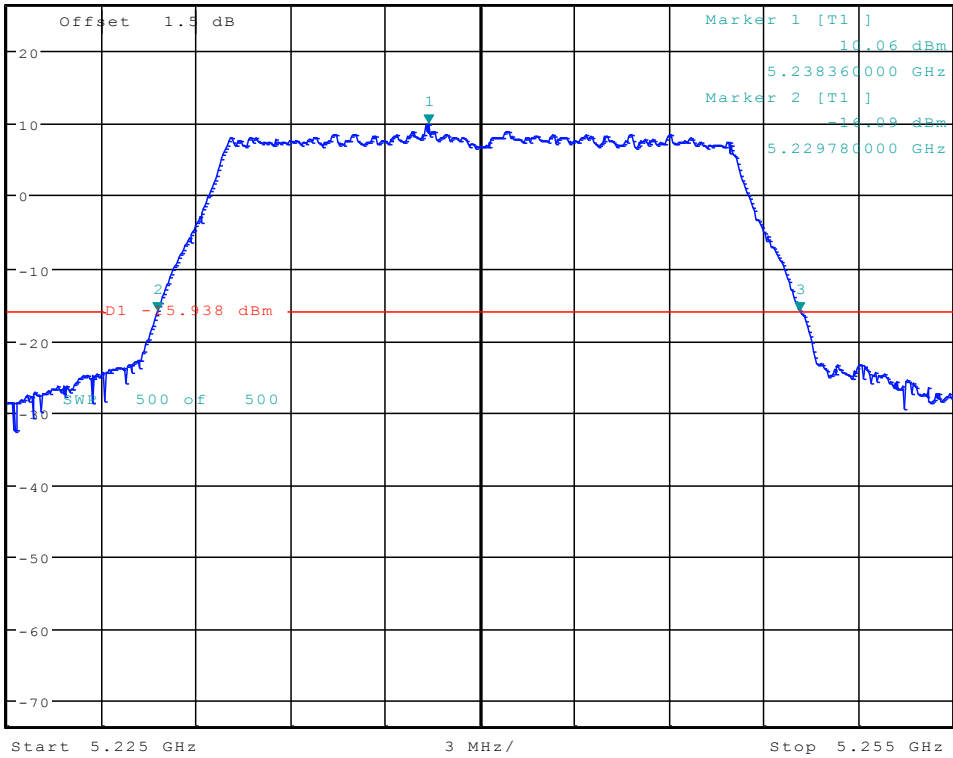
2.6 11A20_48 ANT 3



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -15.99 dBm
 SWT 20 ms 5.250160000 GHz

Ref 26.5 dBm *Att 20 dB

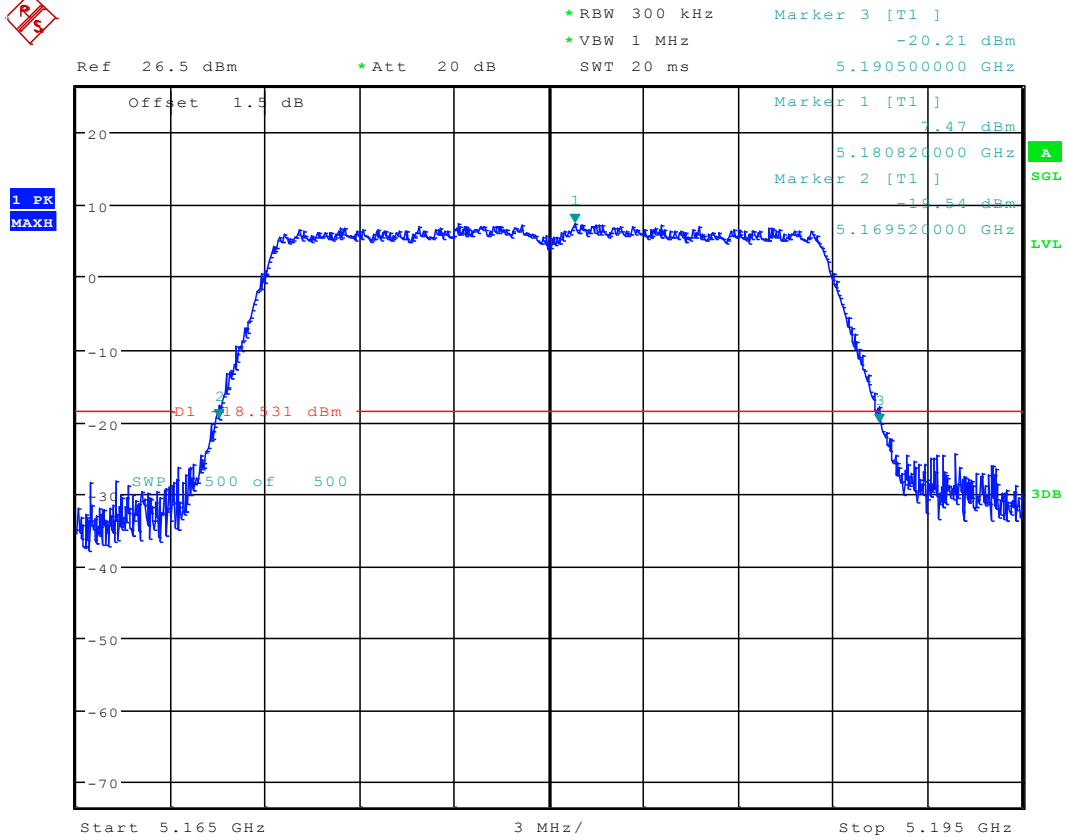
1 PK
 MAXH



Date: 9.FEB.2017 18:23:31

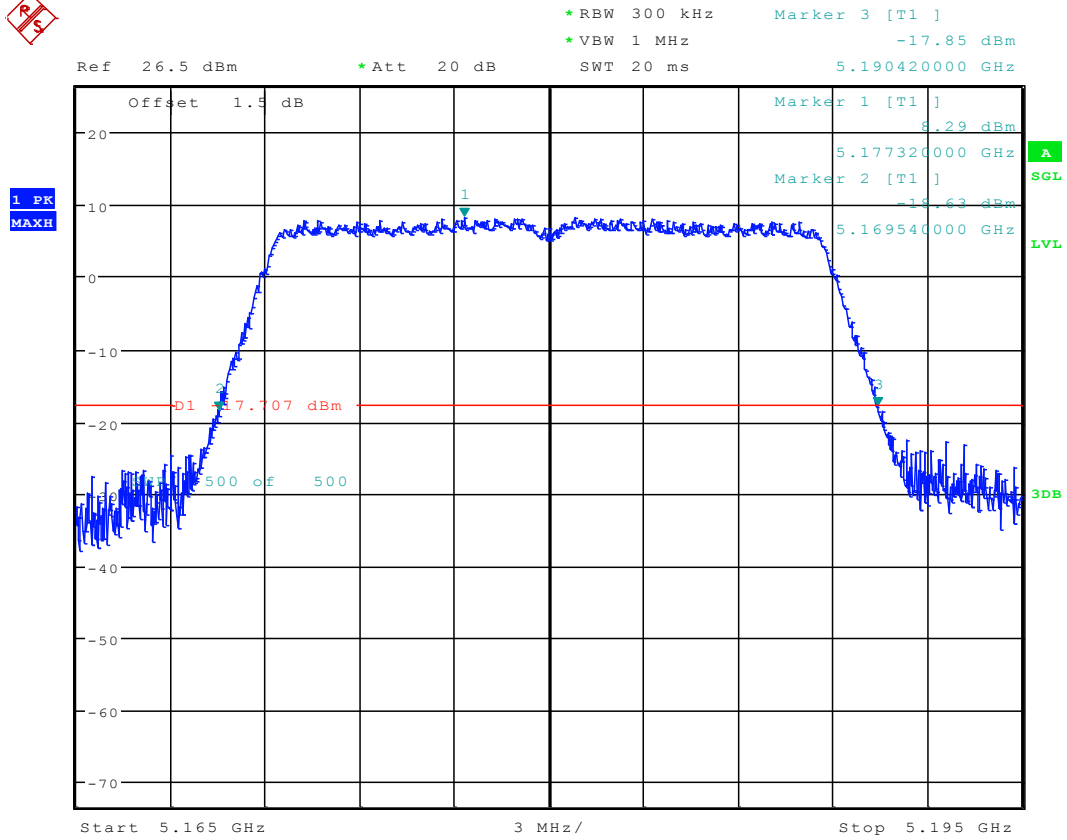


2.7 11N20_36 ANT 1



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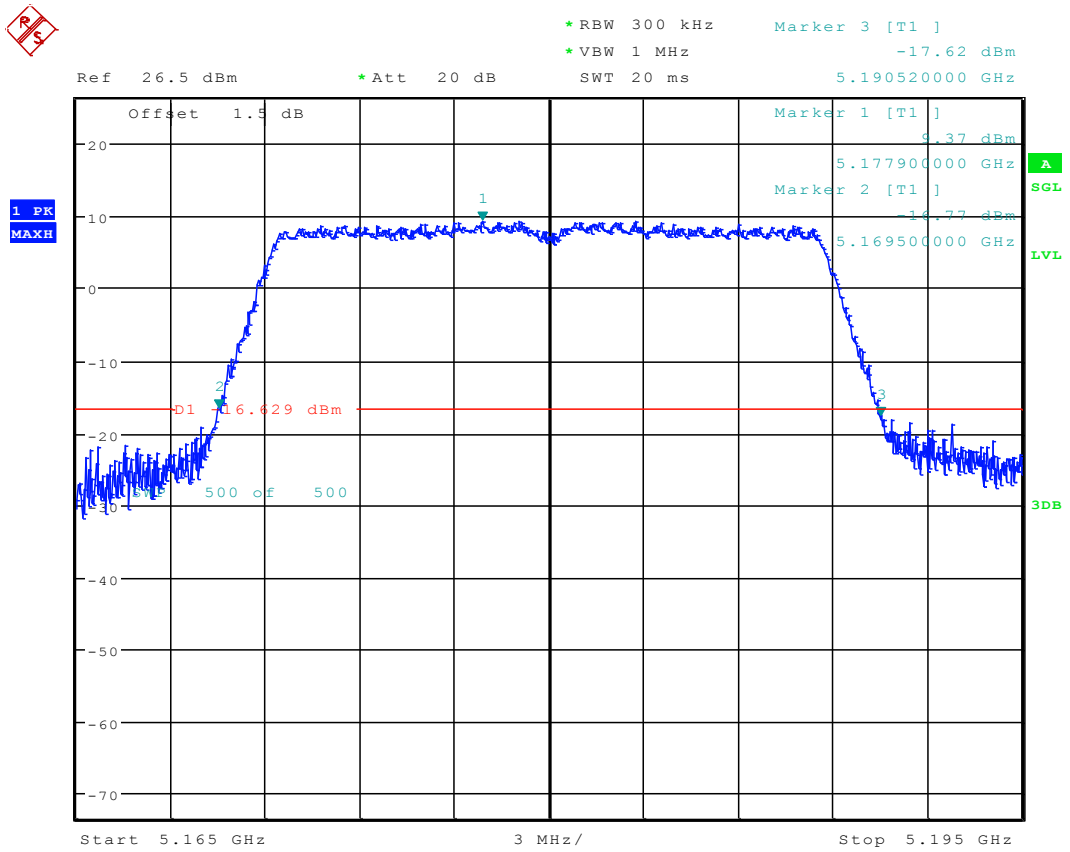
2.8 11N20_36 ANT 2



Date: 9.FEB.2017 15:35:39

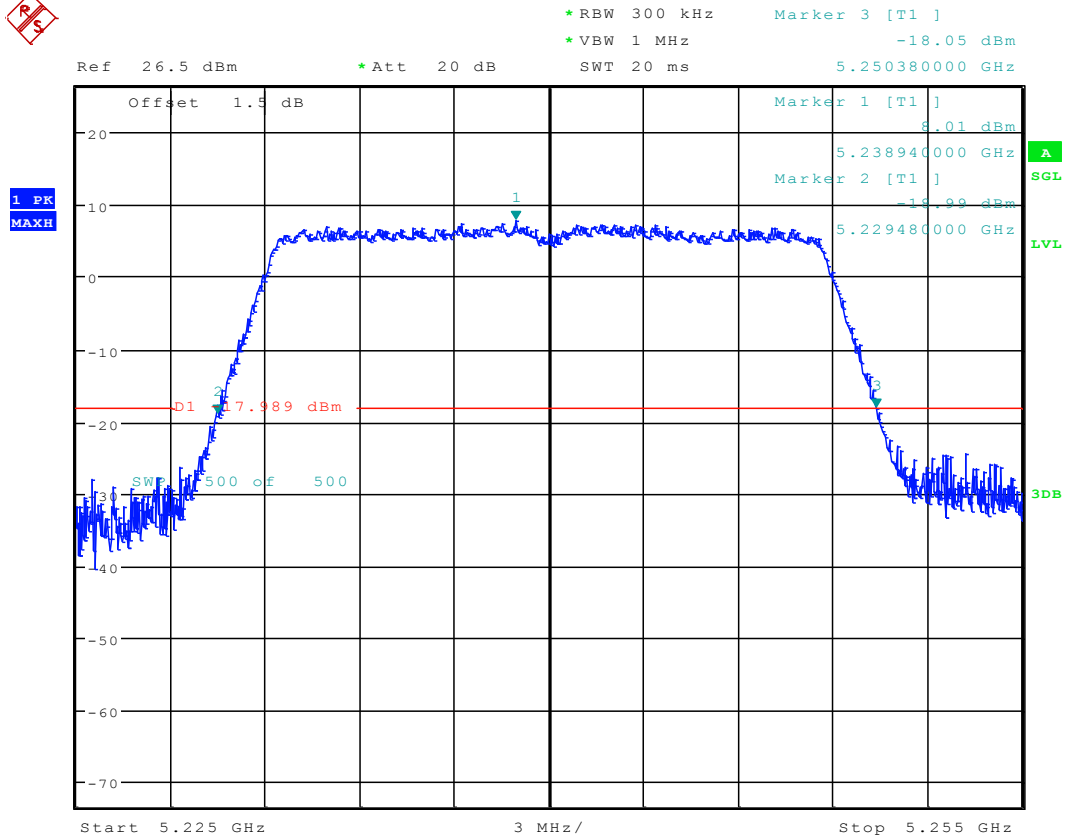


2.9 11N20_36 ANT 3



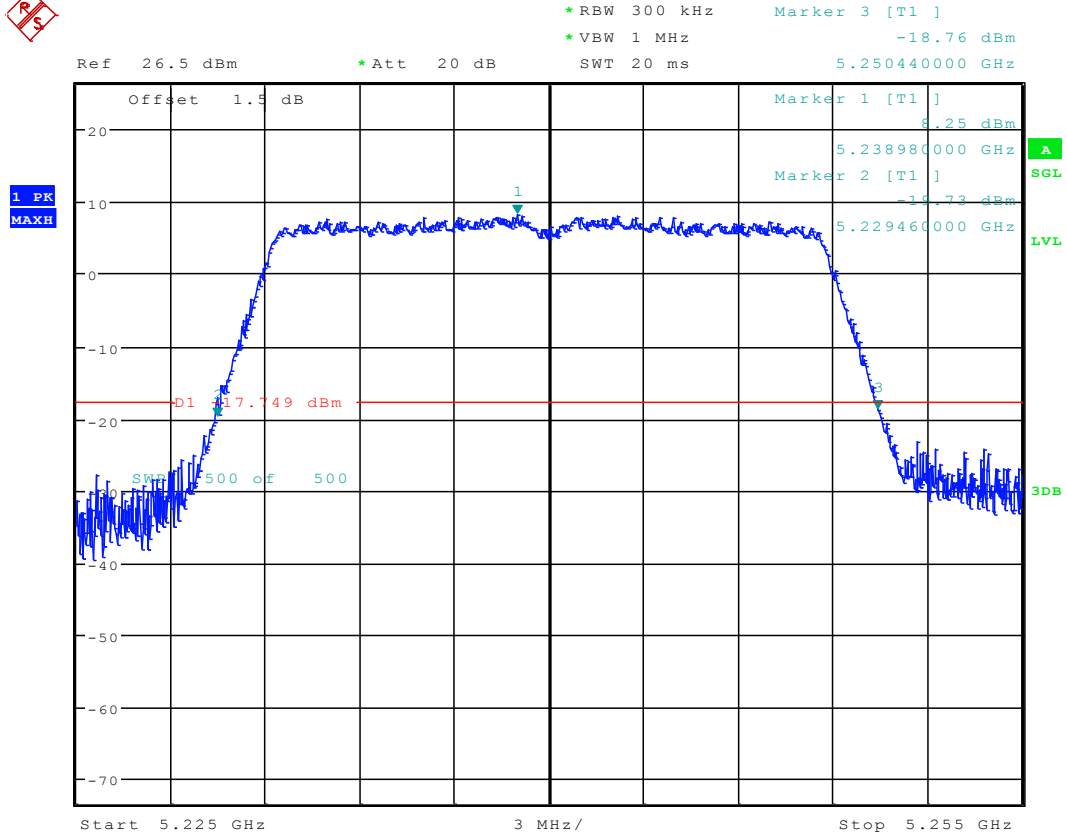
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2.10 11N20_48 ANT 1



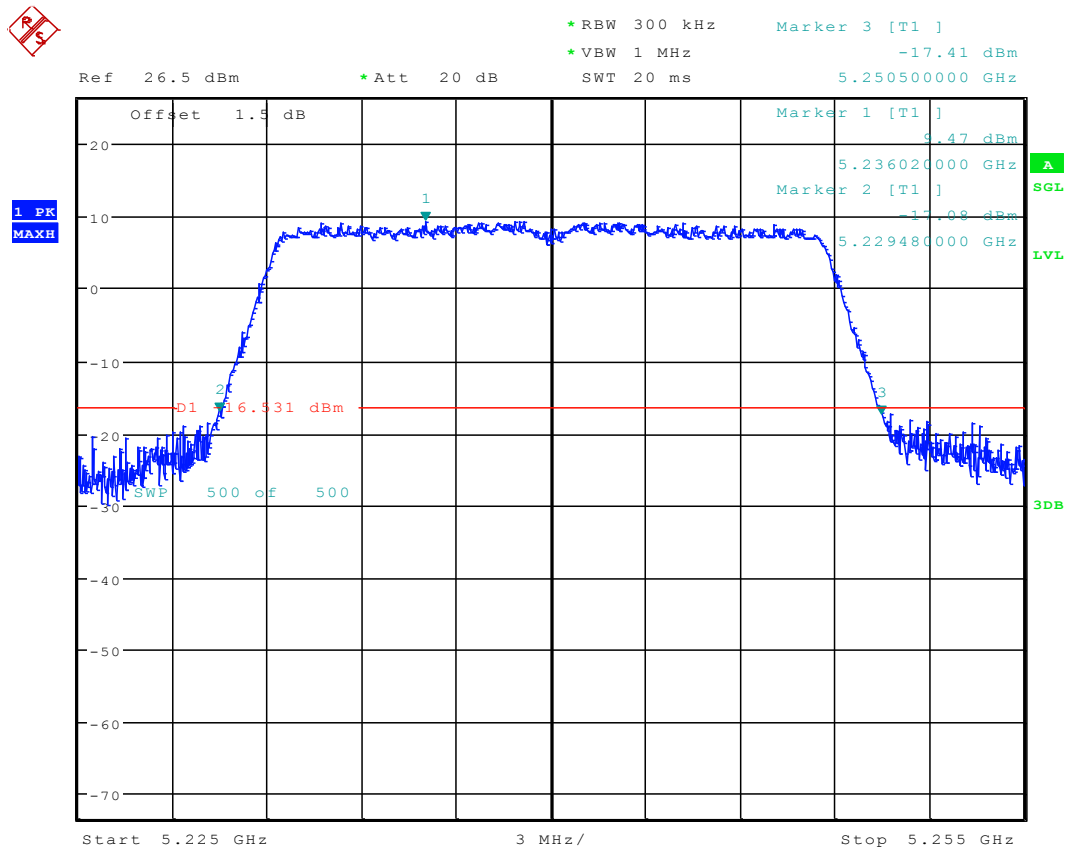
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2.11 11N20_48 ANT 2



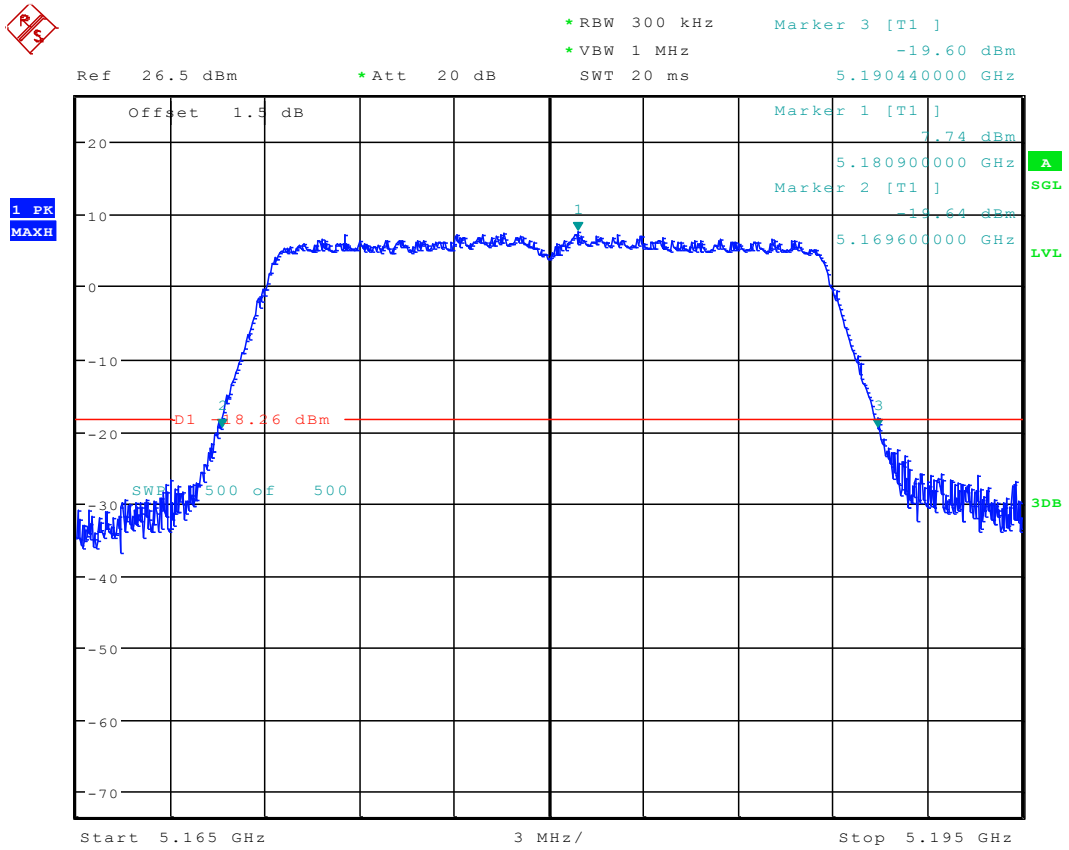
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2.12 11N20_48 ANT 3



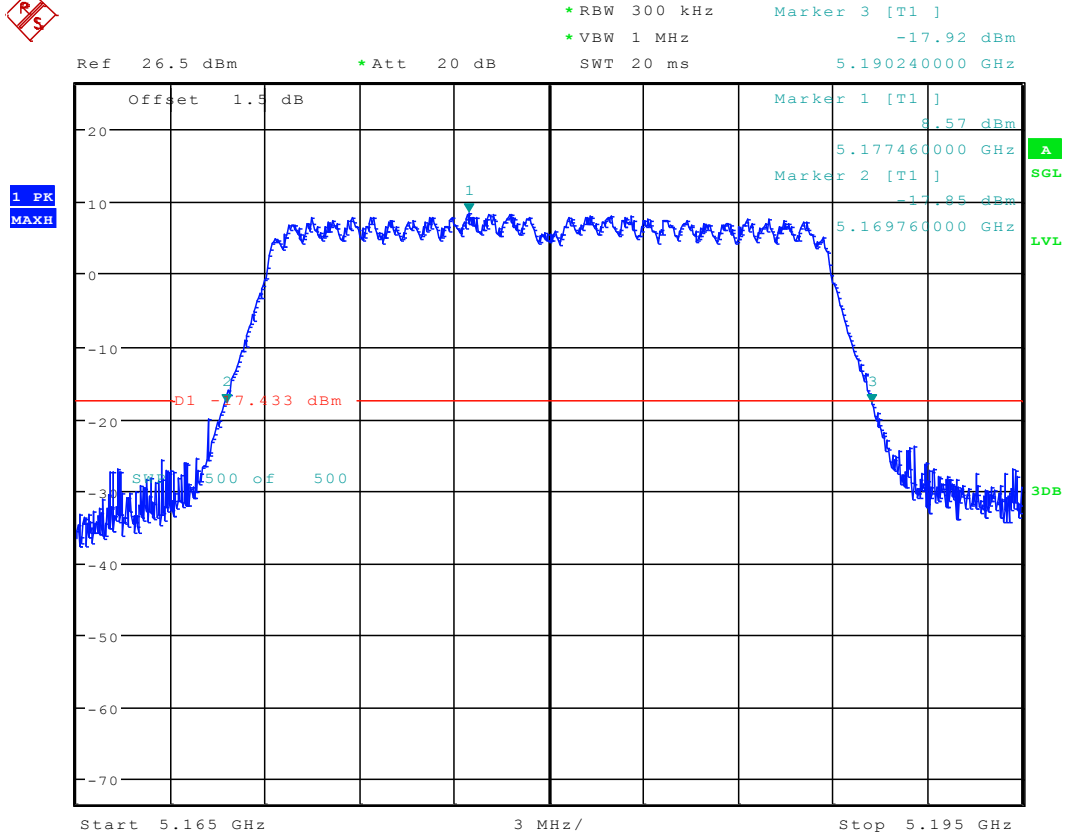
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2.13 11N20MIMO_36 ANT 1



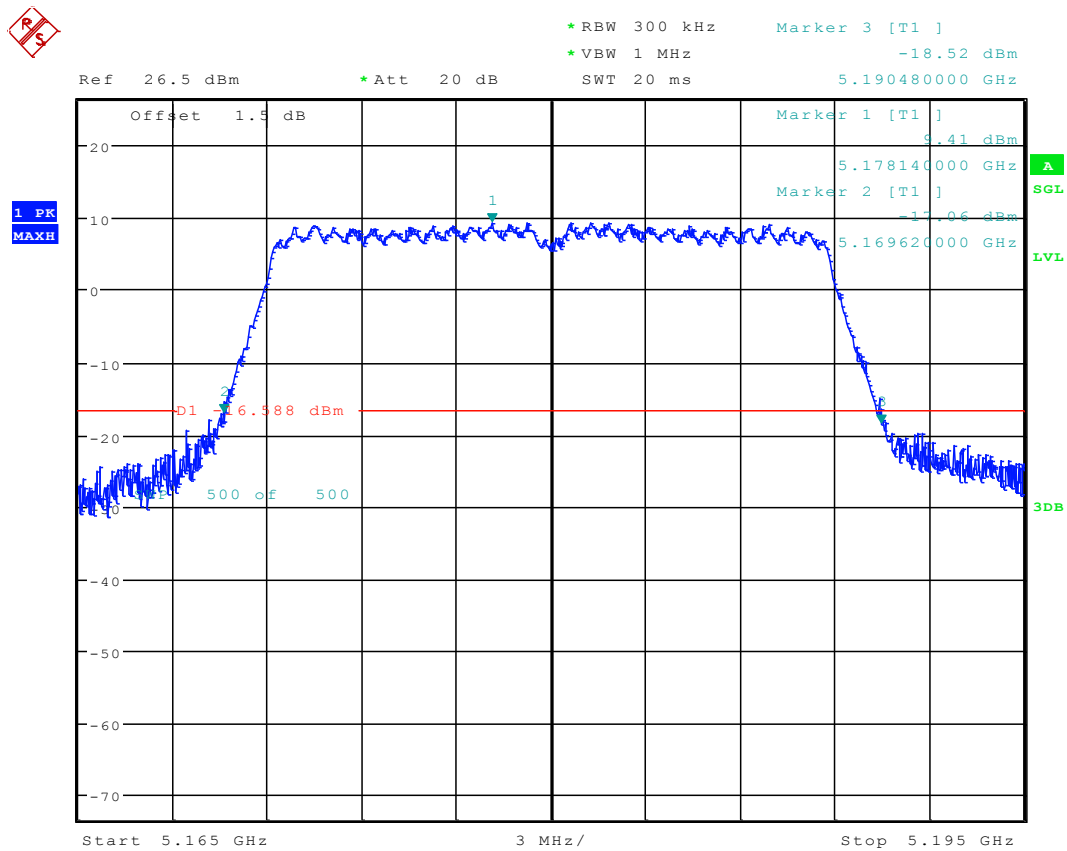
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2.14 11N20MIMO_36 ANT 2



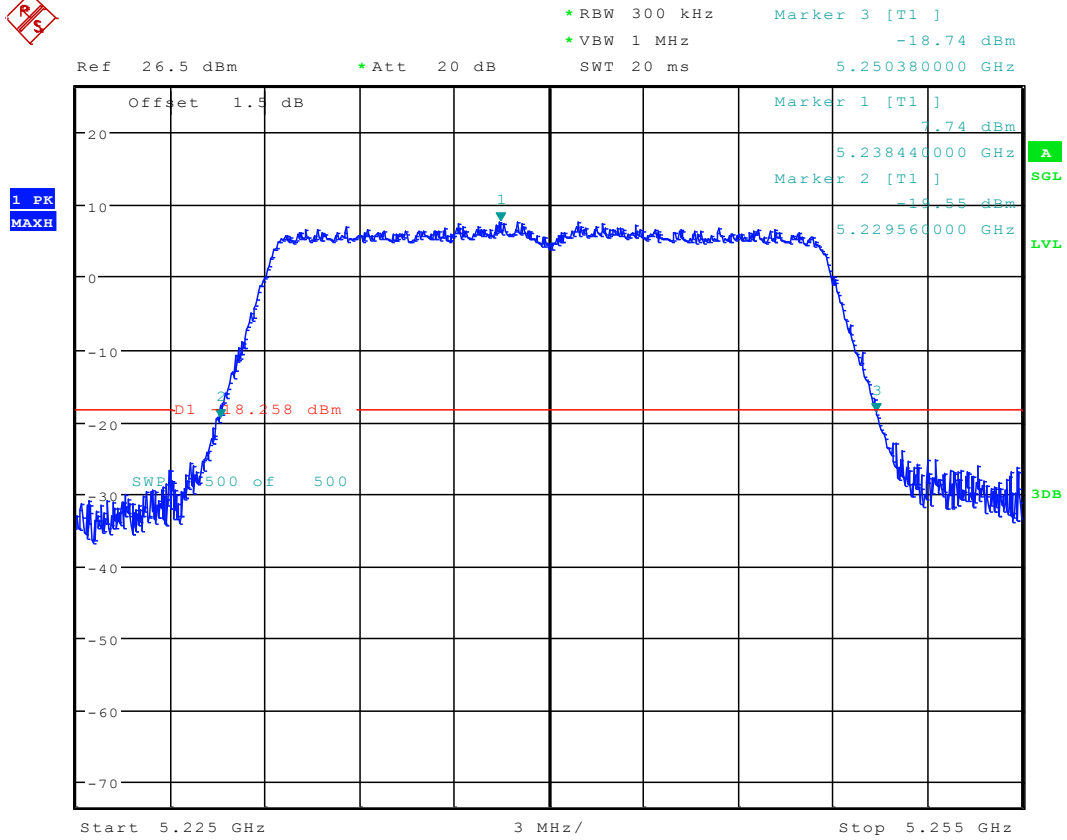
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2.15 11N20MIMO_36 ANT 3



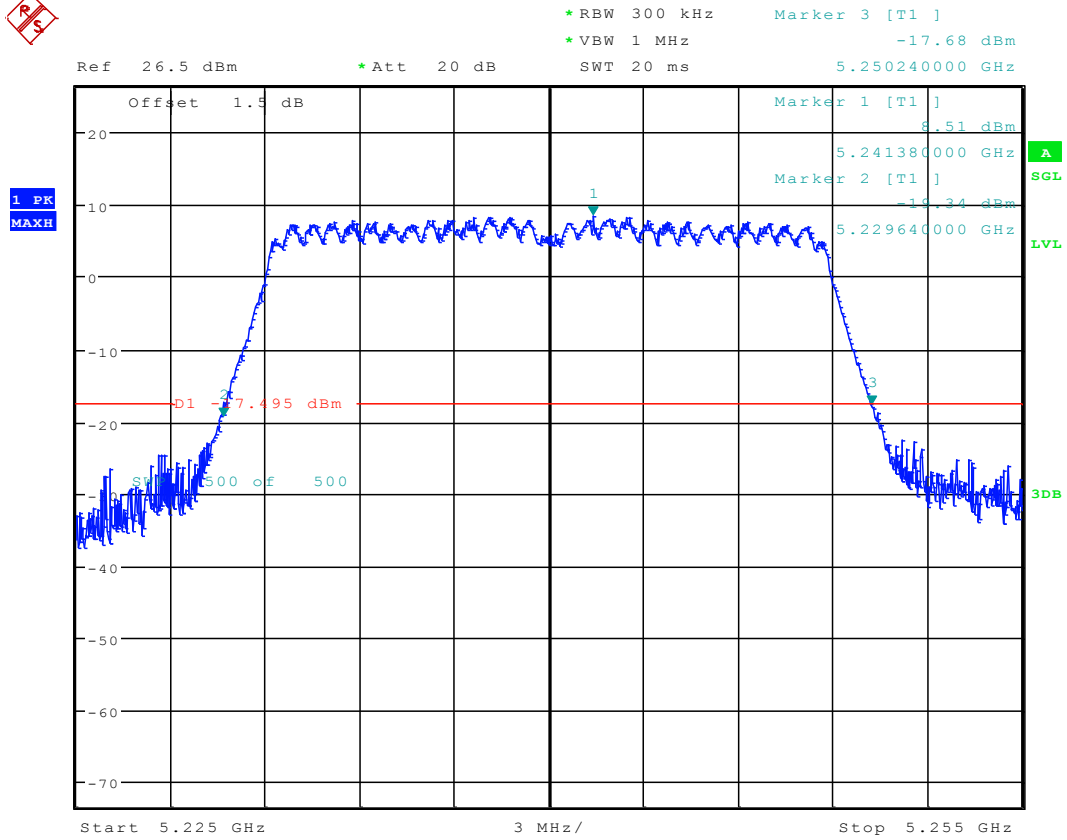
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2.16 11N20MIMO_48 ANT 1



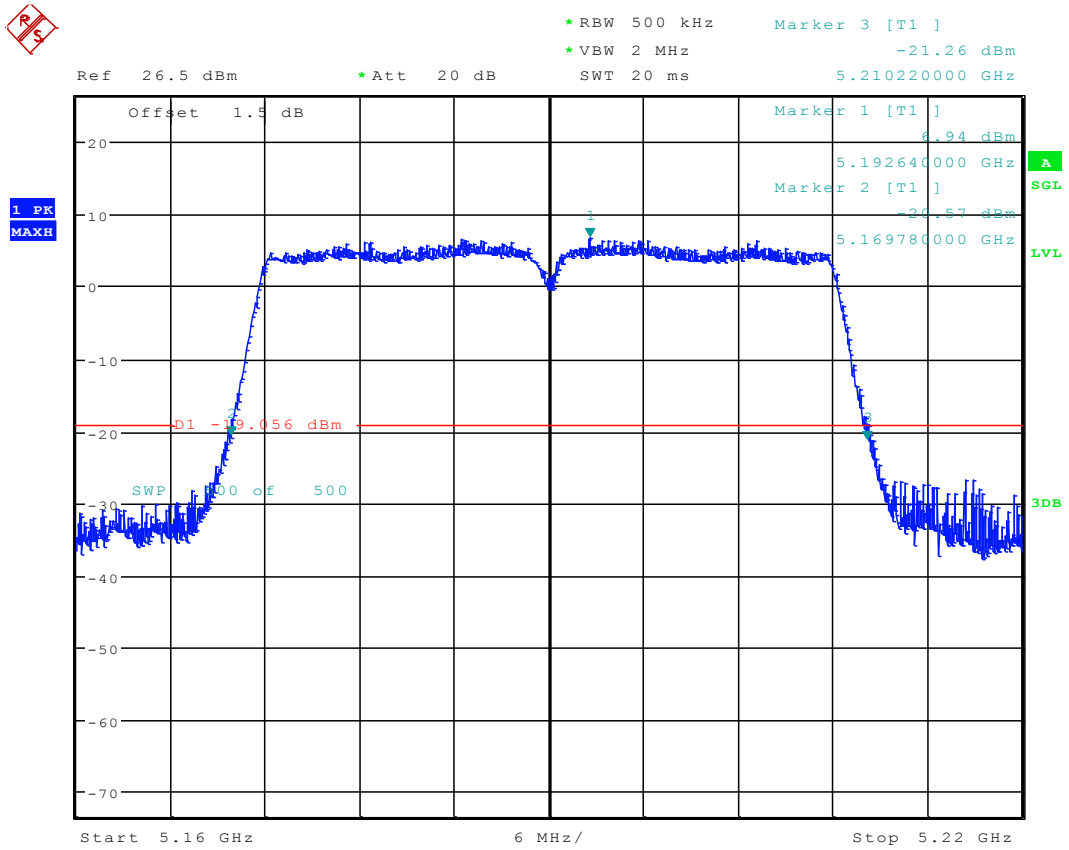
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2.17 11N20MIMO_48 ANT 2



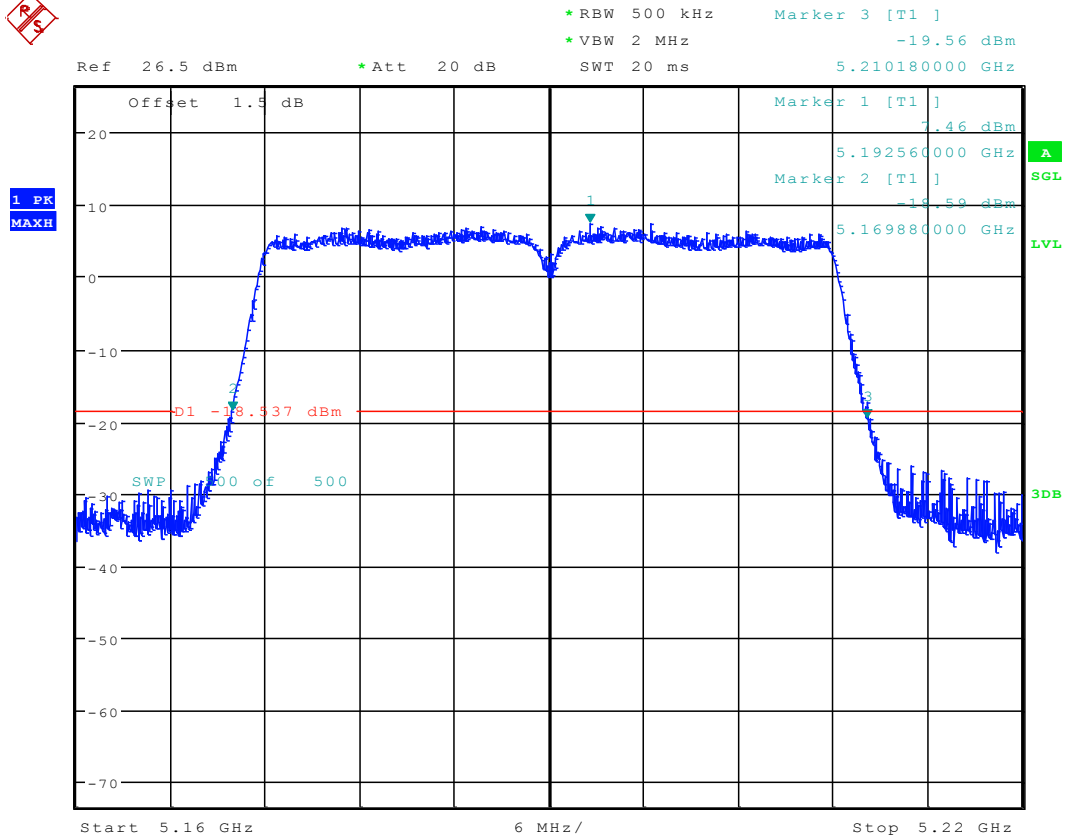
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2.19 11N40_38 ANT 1



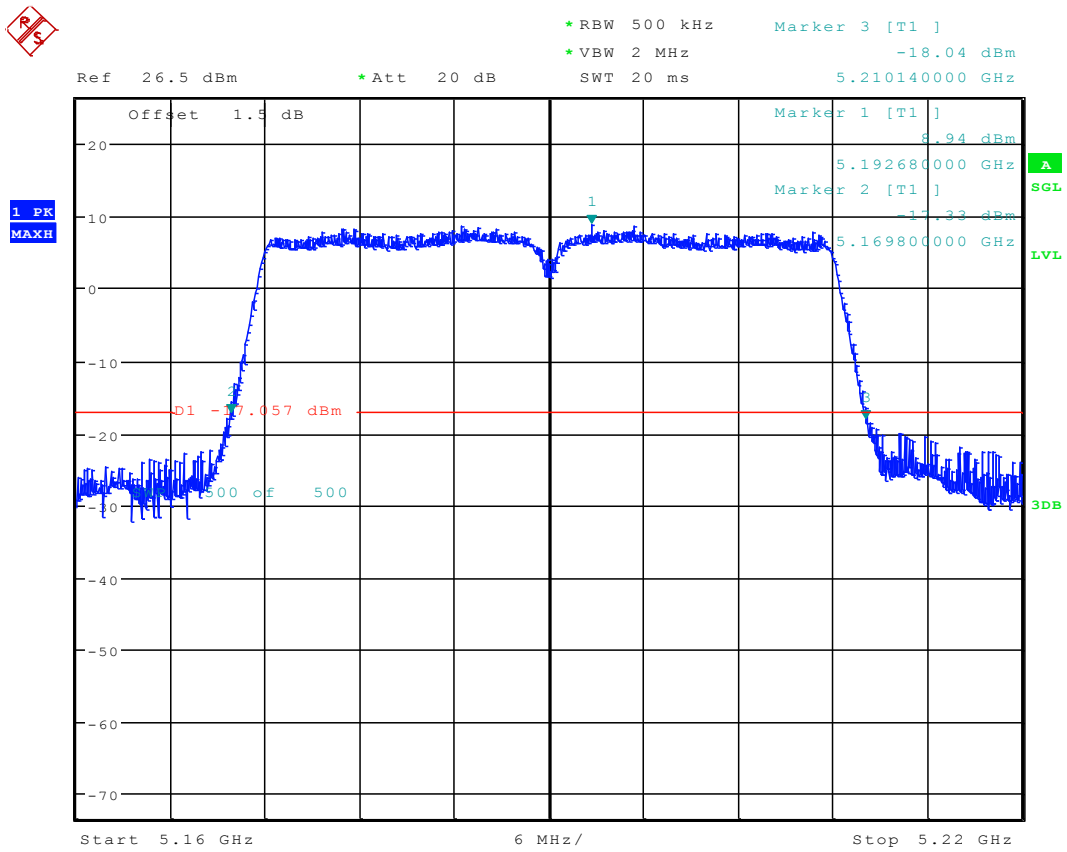
Date: 9.FEB.2017 11:26:00

2.20 11N40_38 ANT 2



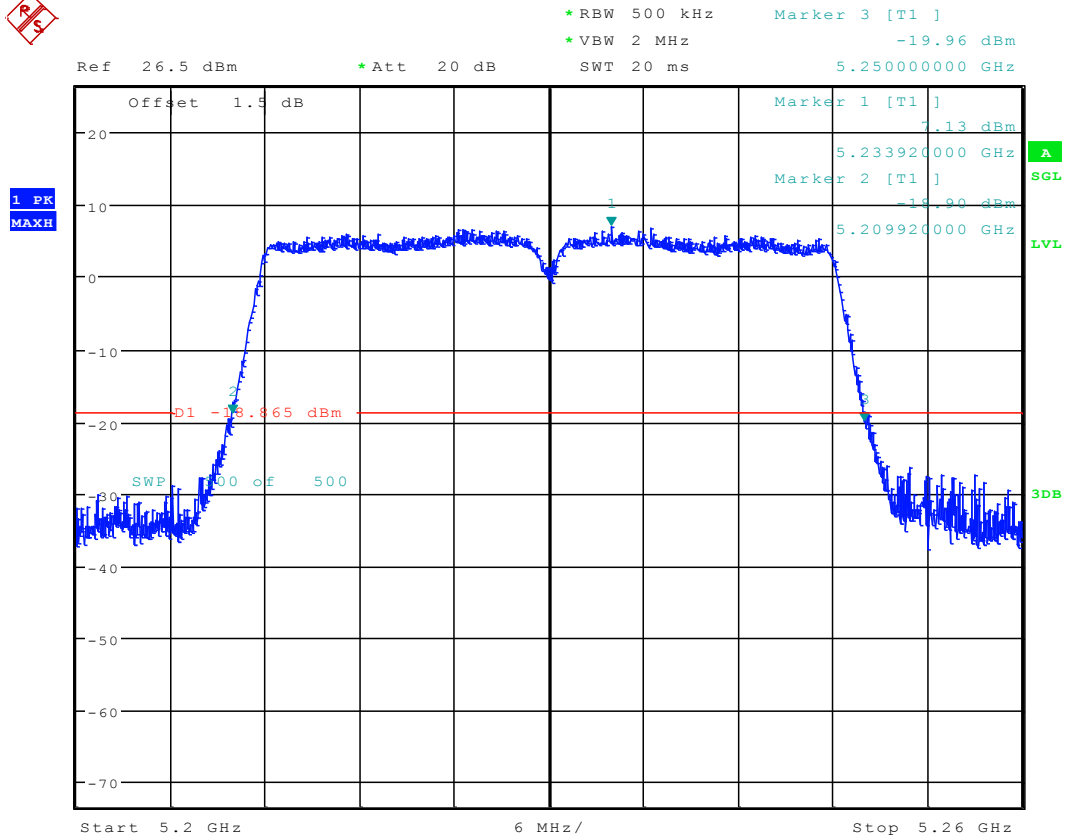
Date: 9.FEB.2017 16:15:49

2.21 11N40_38 ANT 3



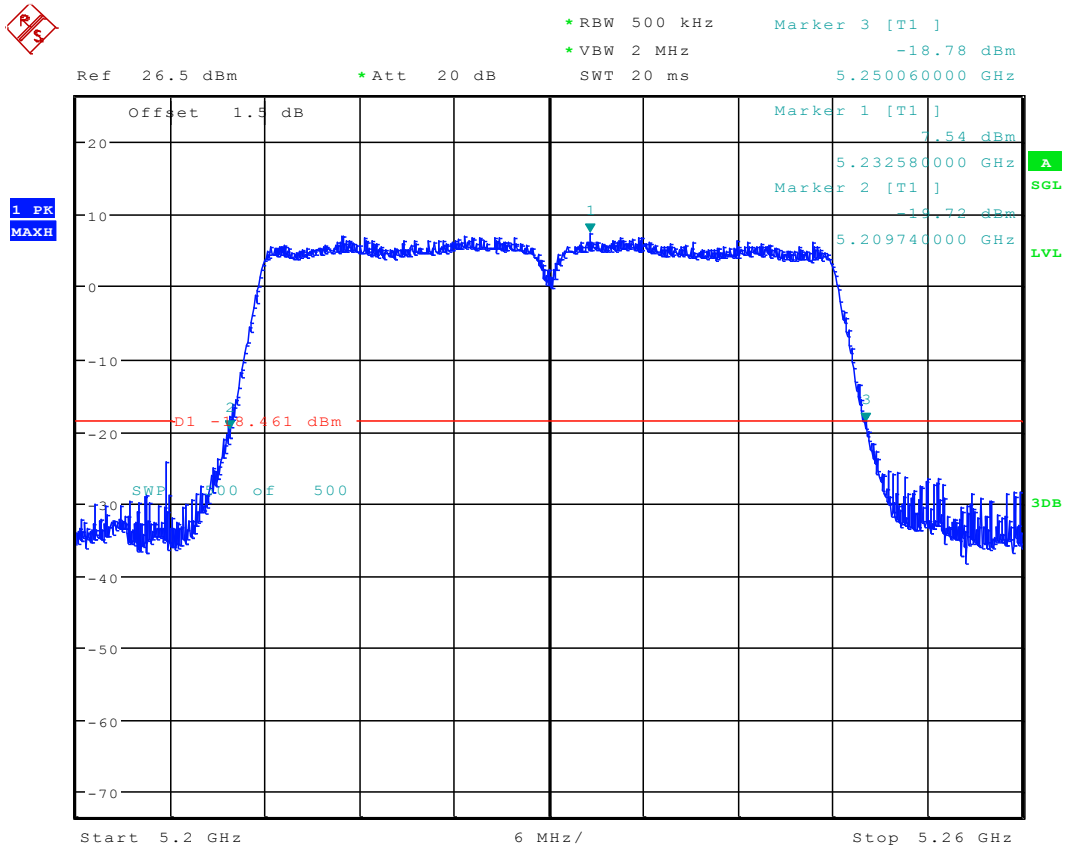
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2.22 11N40_46 ANT 1



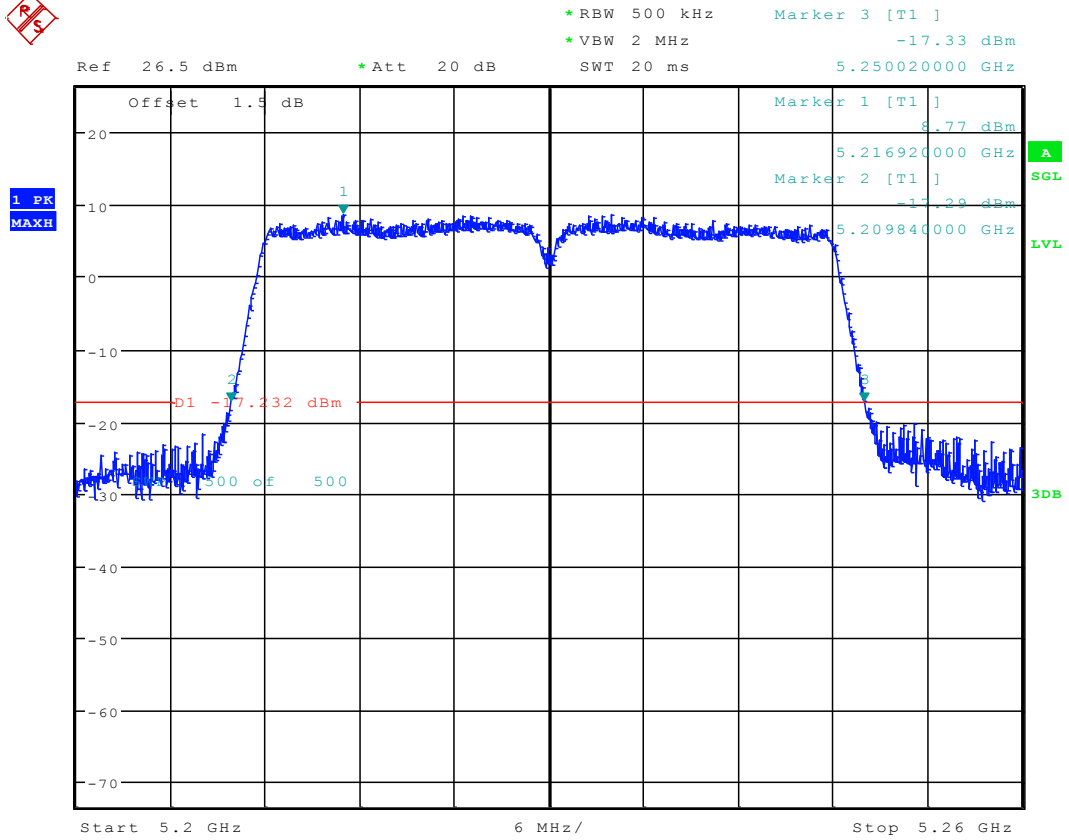
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2.23 11N40_46 ANT 2



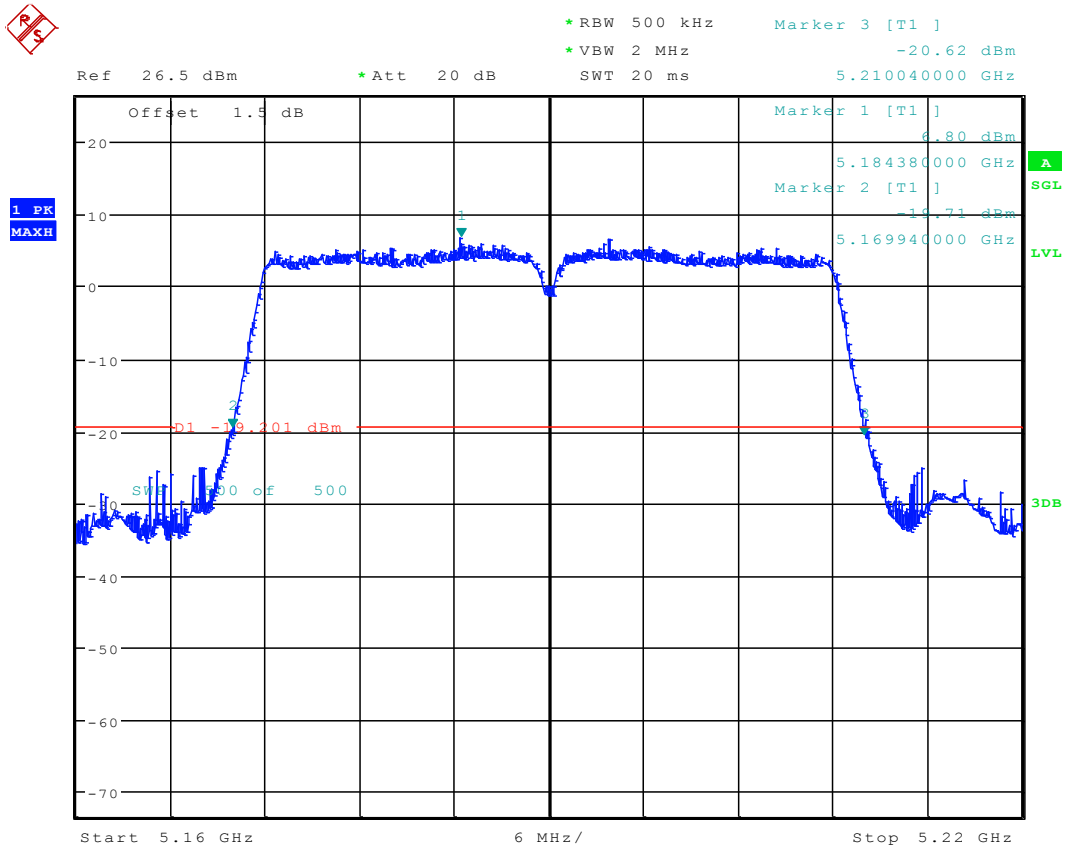
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2.24 11N40_46 ANT 3



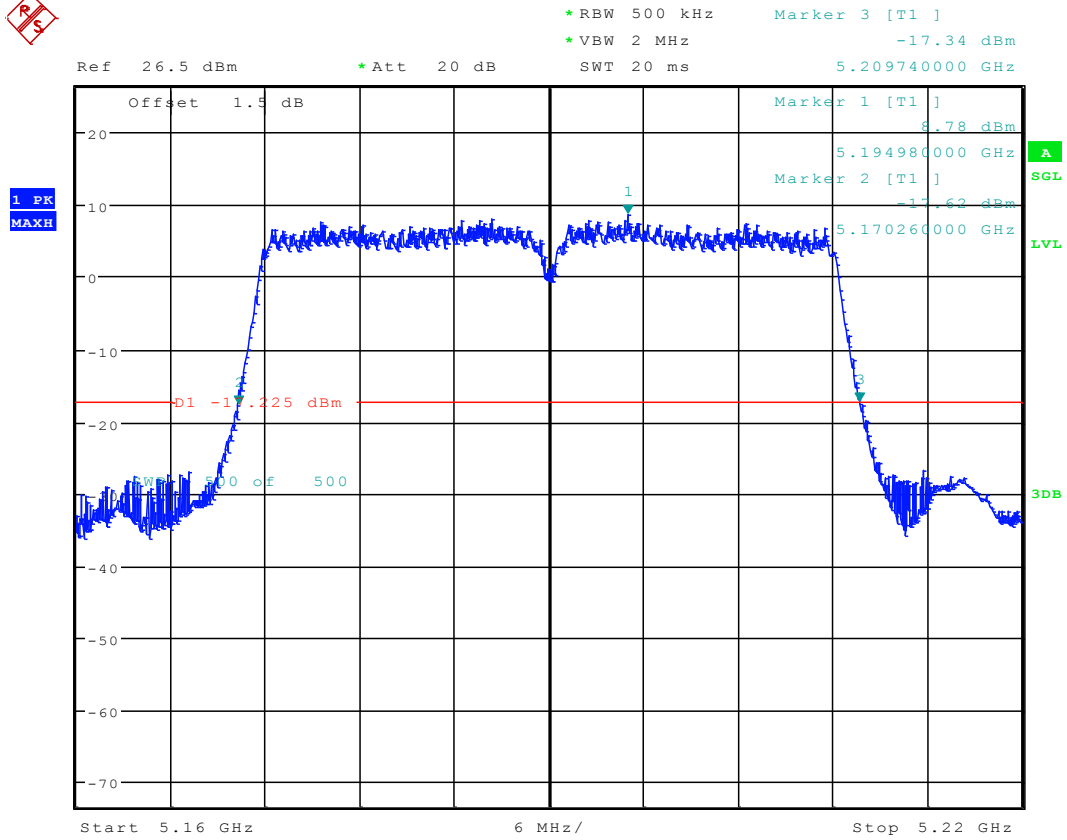
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2.25 11N40MIMO_38 ANT 1



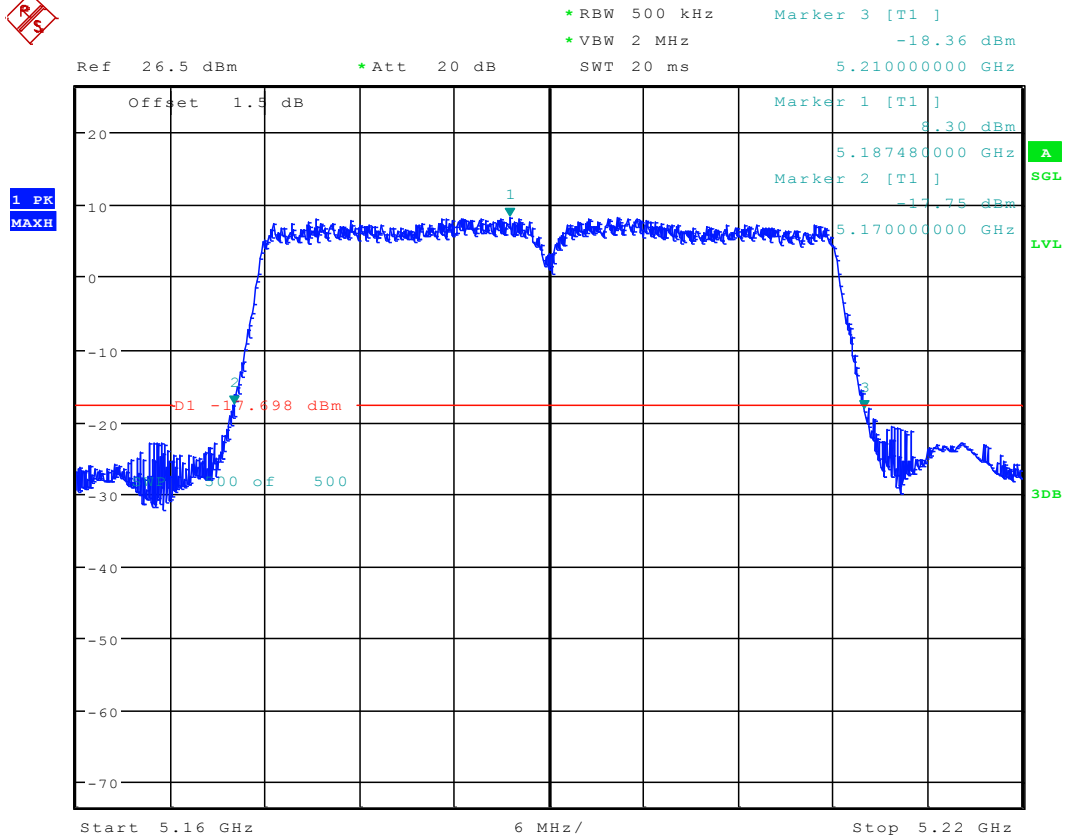
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2.26 11N40MIMO_38 ANT 2



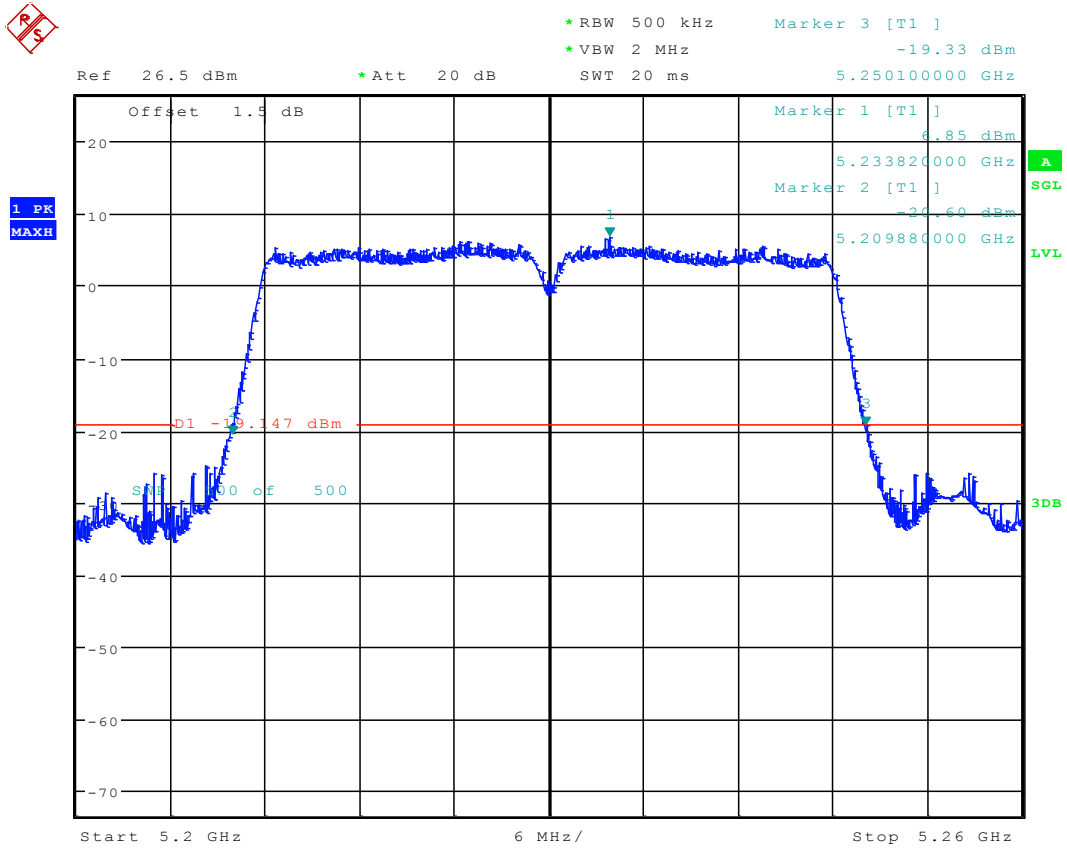
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2.27 11N40MIMO_38 ANT 3



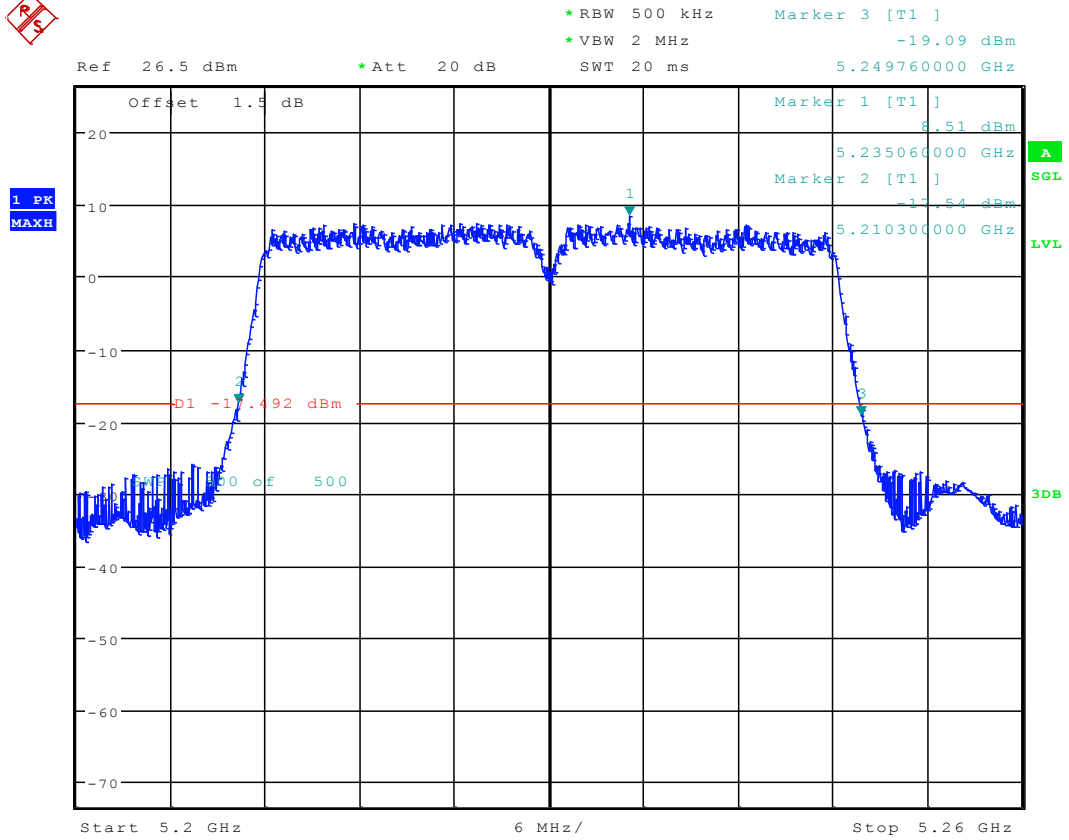
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2.28 11N40MIMO_46 ANT 1



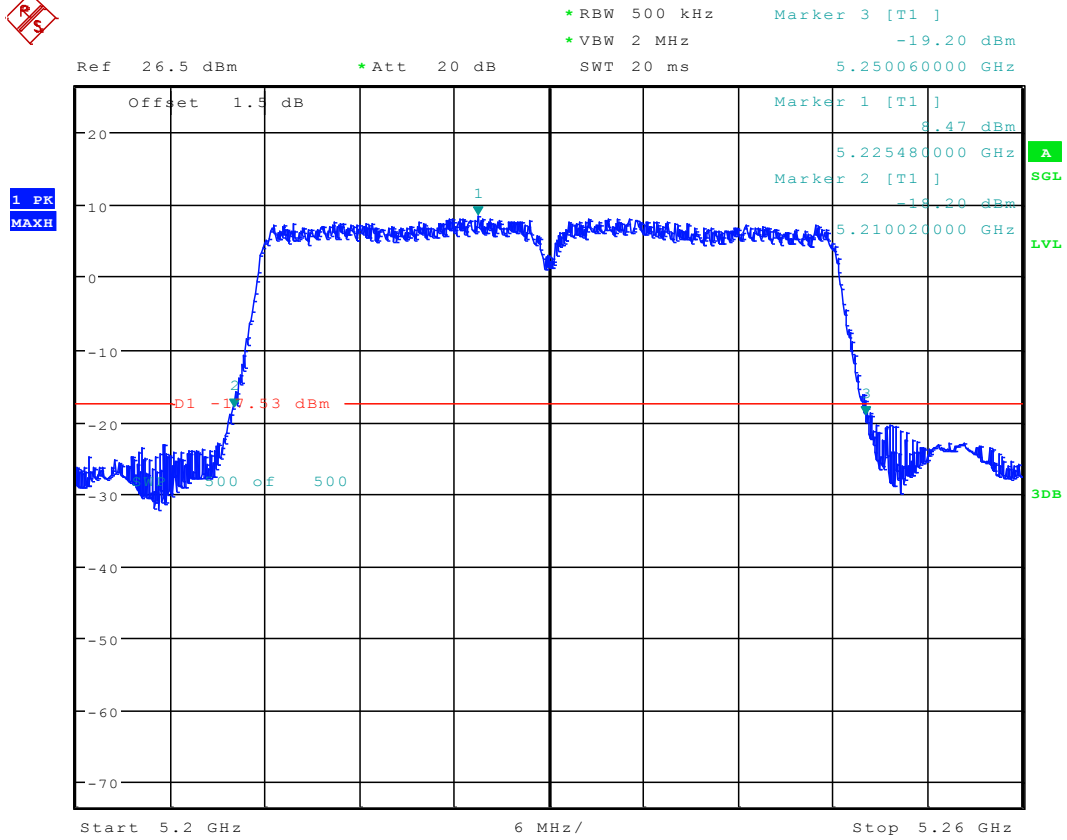
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2.29 11N40MIMO_46 ANT 2



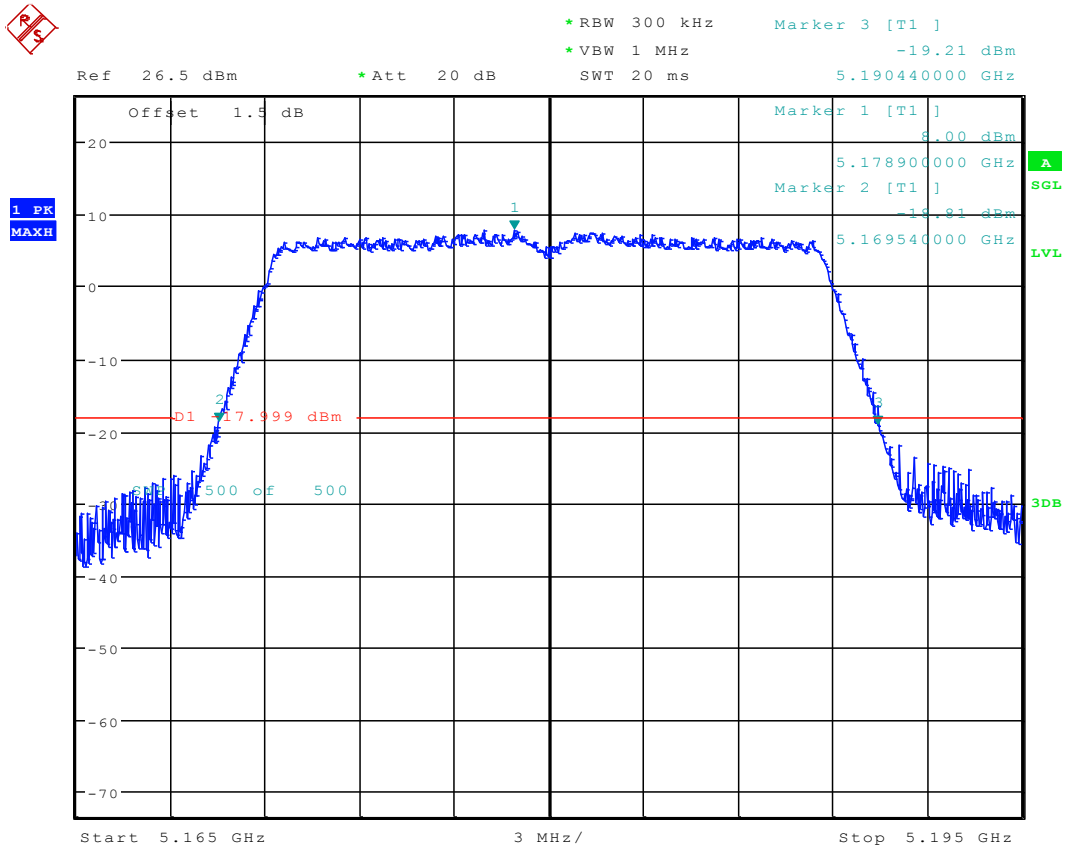
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2.30 11N40MIMO_46 ANT 3



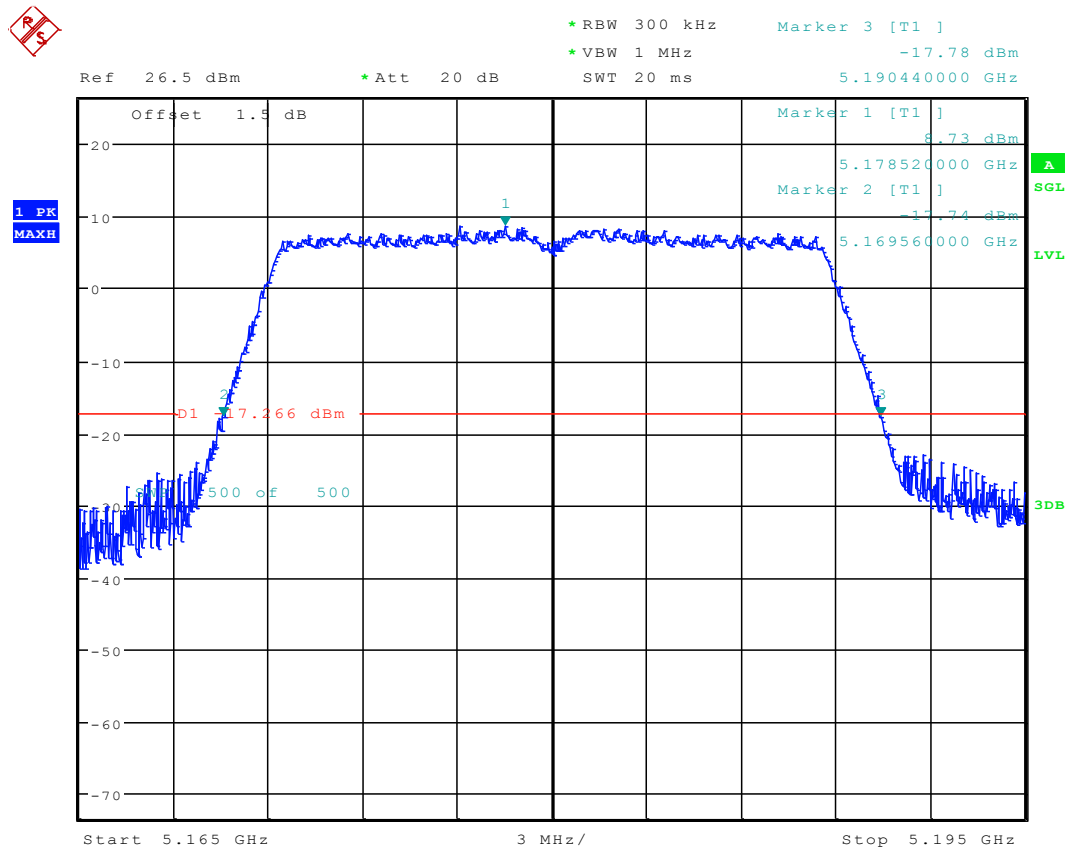
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2.31 11AC20_36 ANT 1



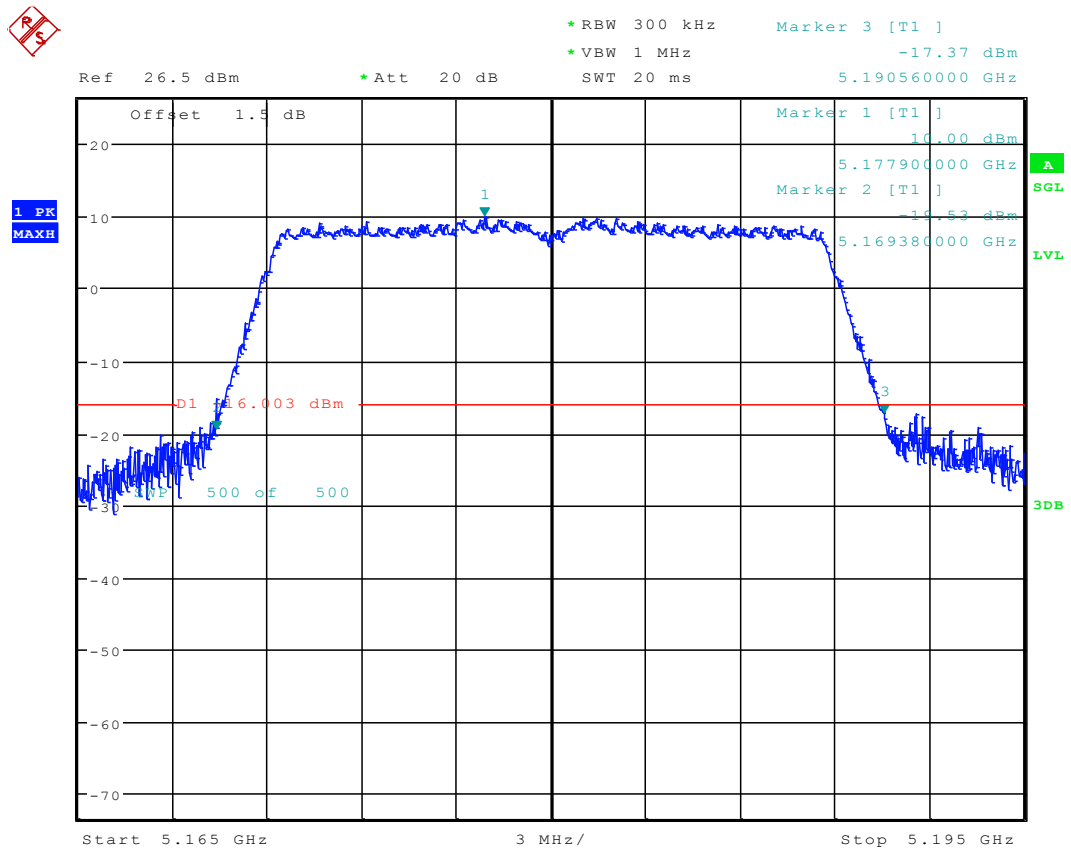
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2.32 11AC20_36 ANT 2



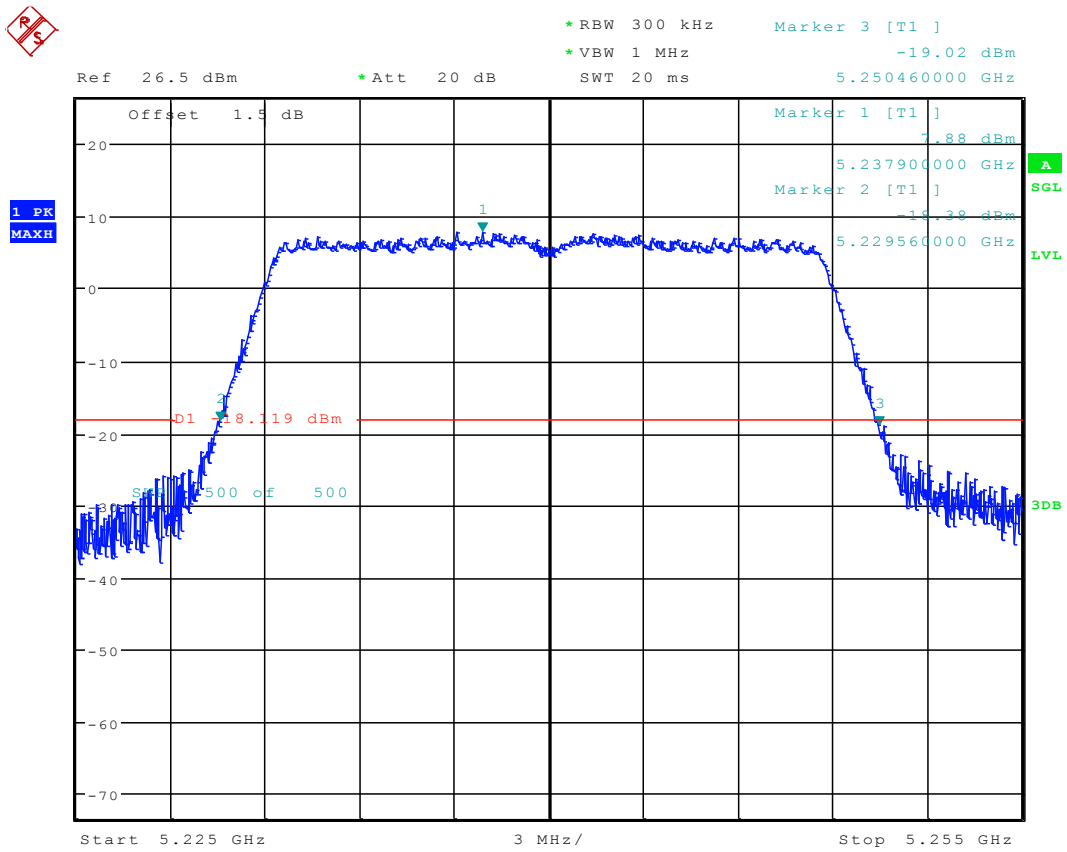
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2.33 11AC20_36 ANT 3



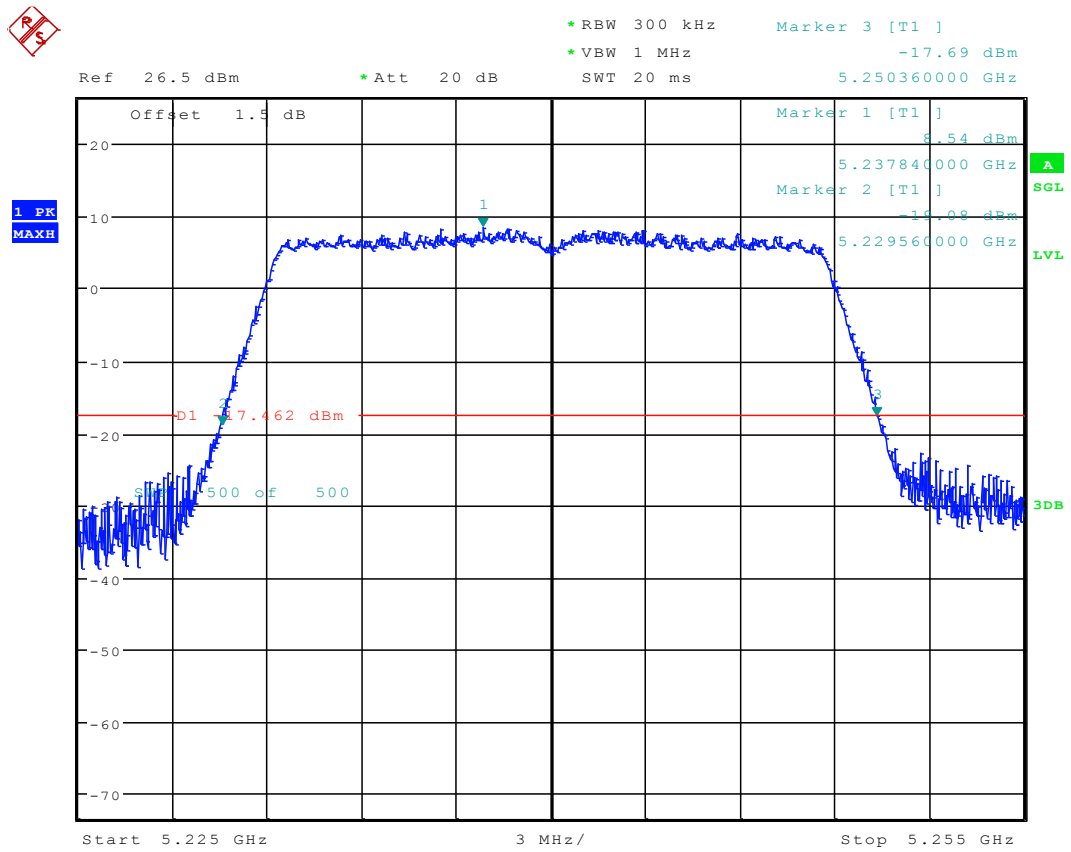
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2.34 11AC20_48 ANT 1



Date: 9.FEB.2017 10:44:50

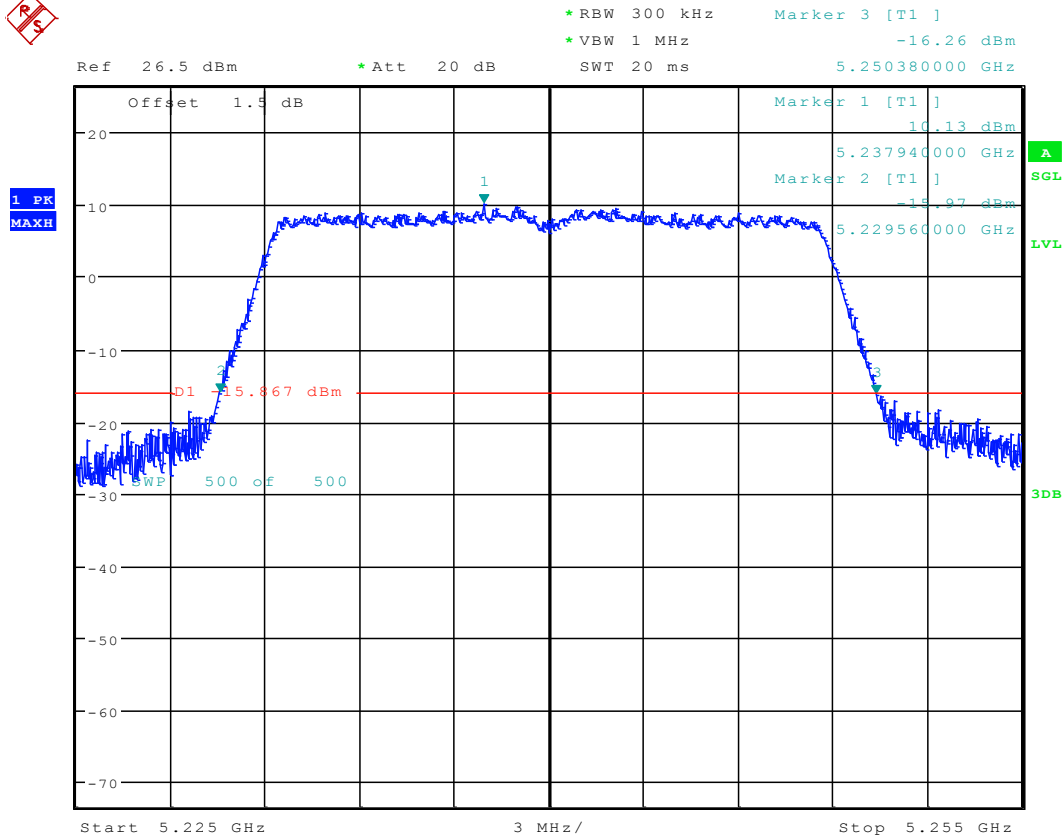
2.35 11AC20_48 ANT 2



Date: 9.FEB.2017 16:00:45

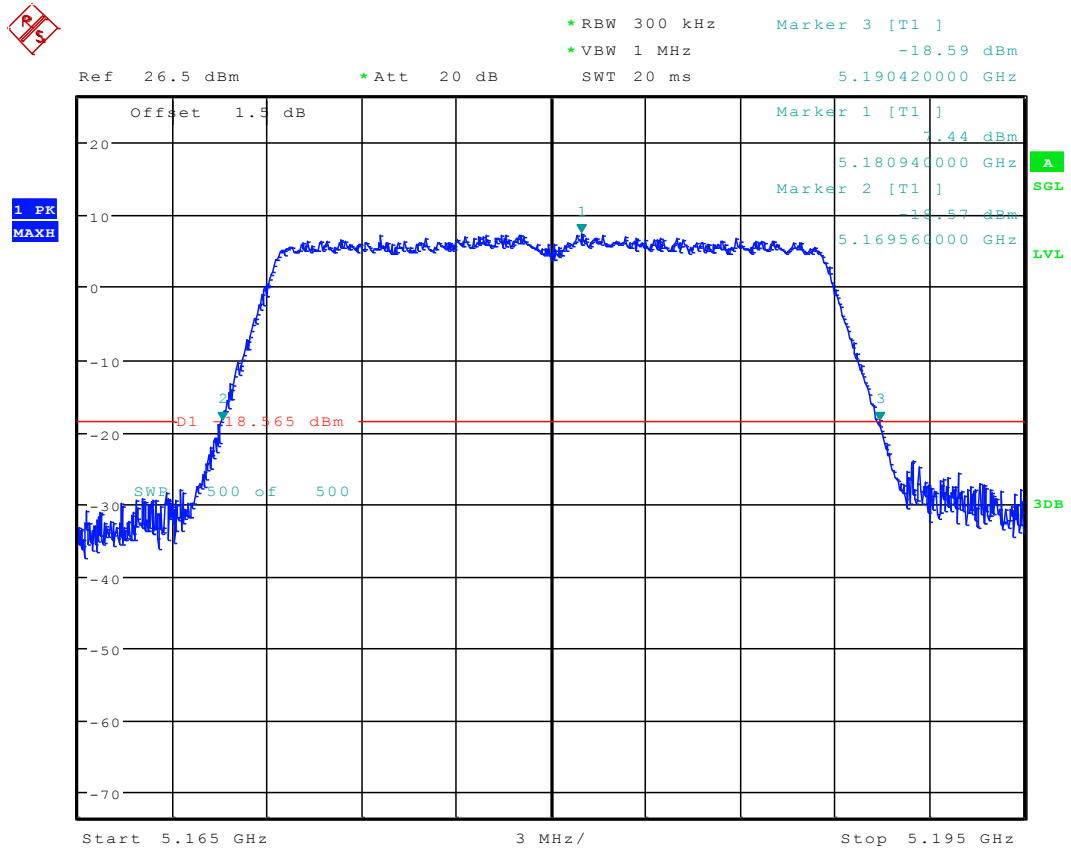


2.36 11AC20_48 ANT 3



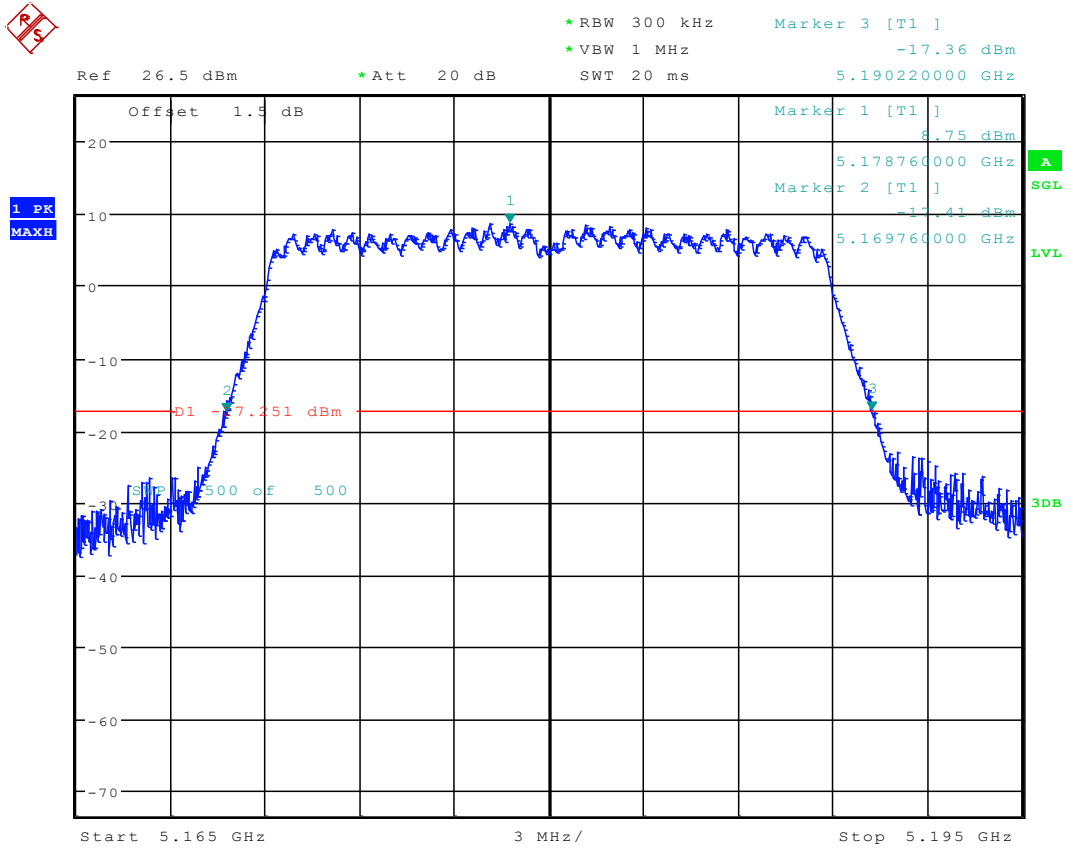
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2.37 11AC20MIMO_36 ANT 1



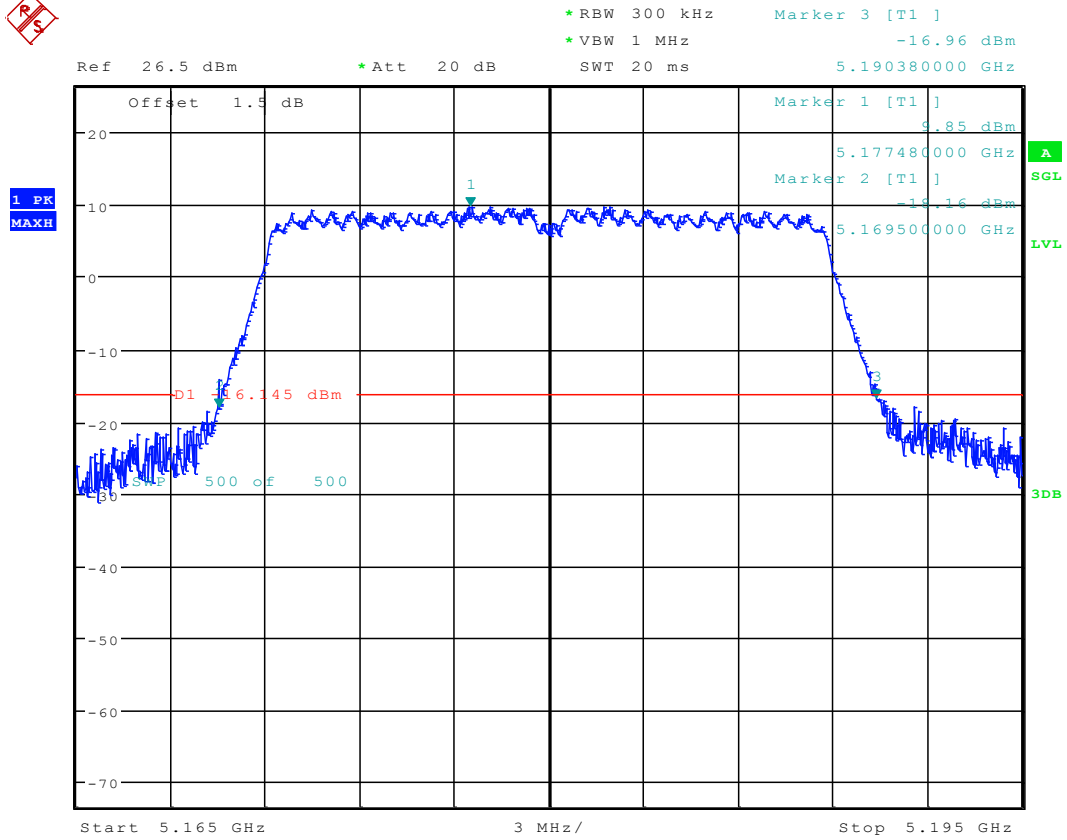
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2.38 11AC20MIMO_36 ANT 2



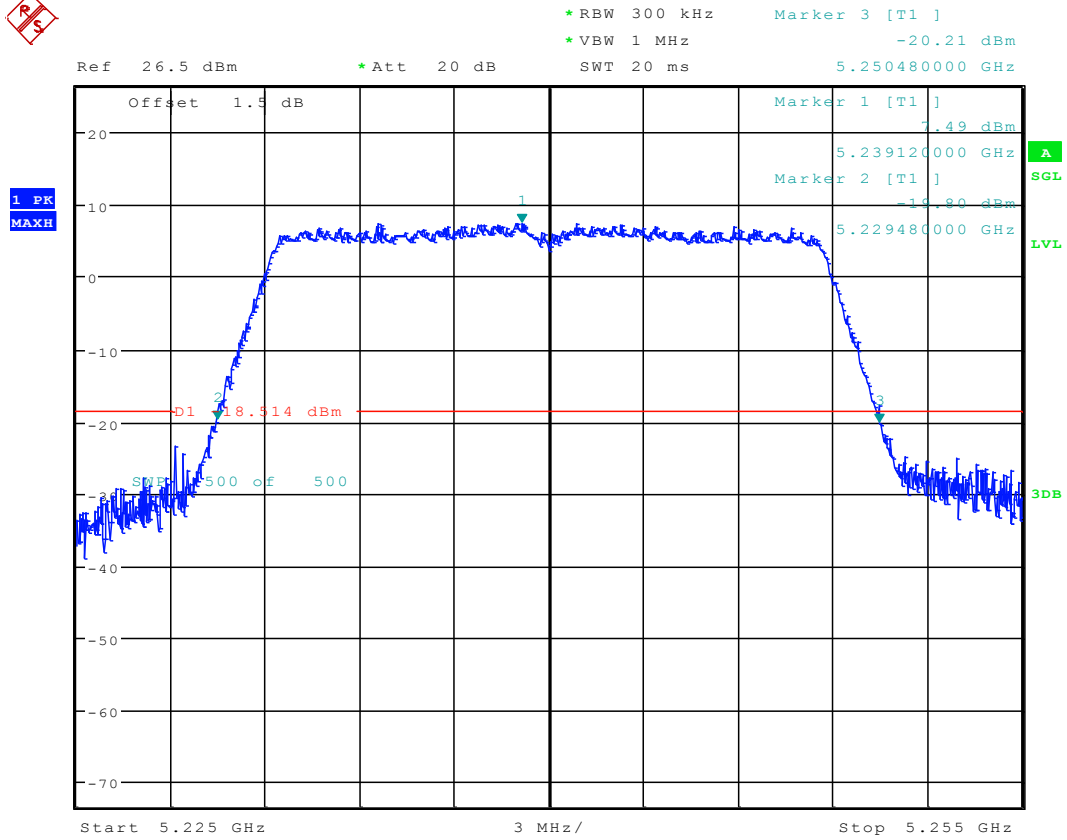
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2.39 11AC20MIMO_36 ANT 3



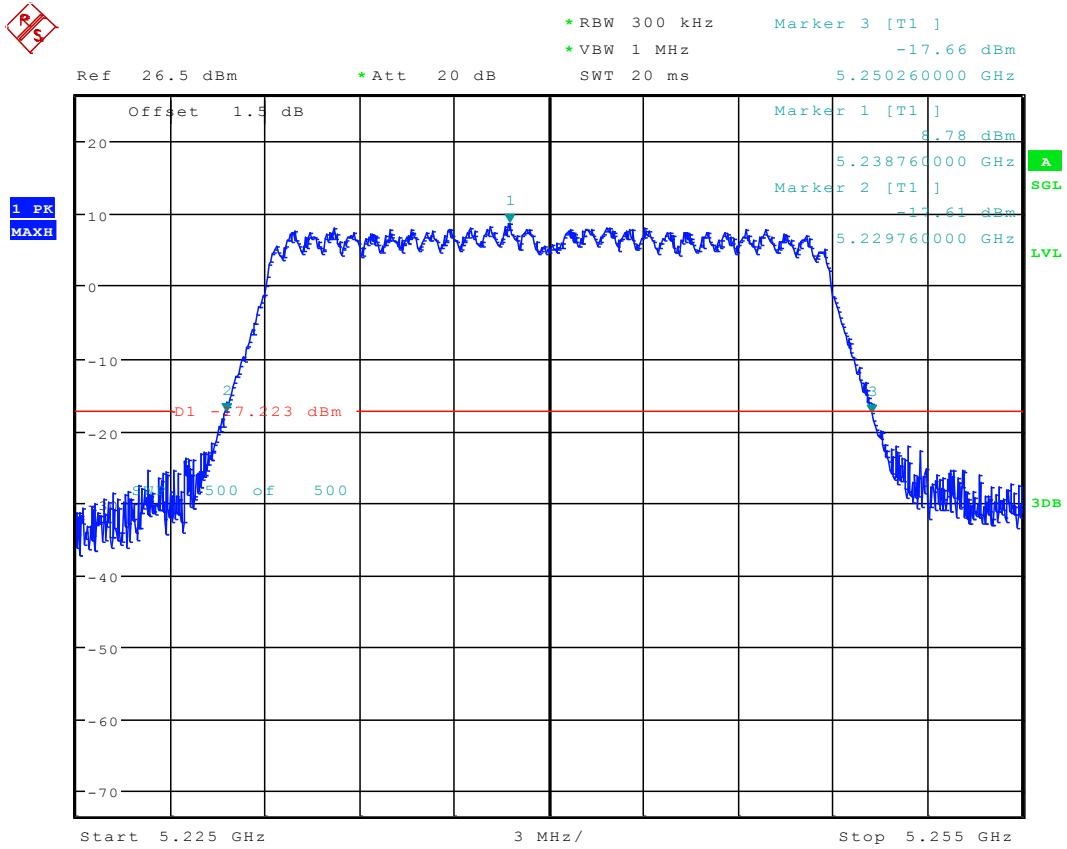
Date: 14.FEB.2017 15:21:22

2.40 11AC20MIMO_48 ANT 1



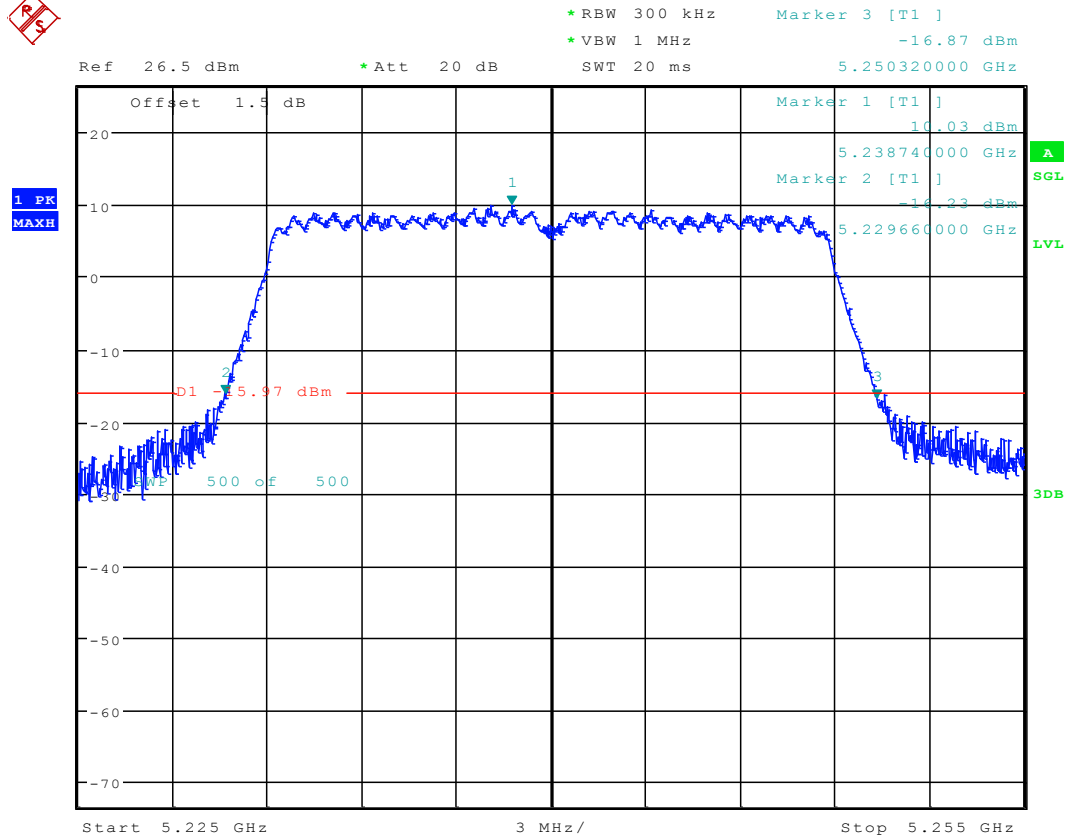
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2.41 11AC20MIMO_48 ANT 2



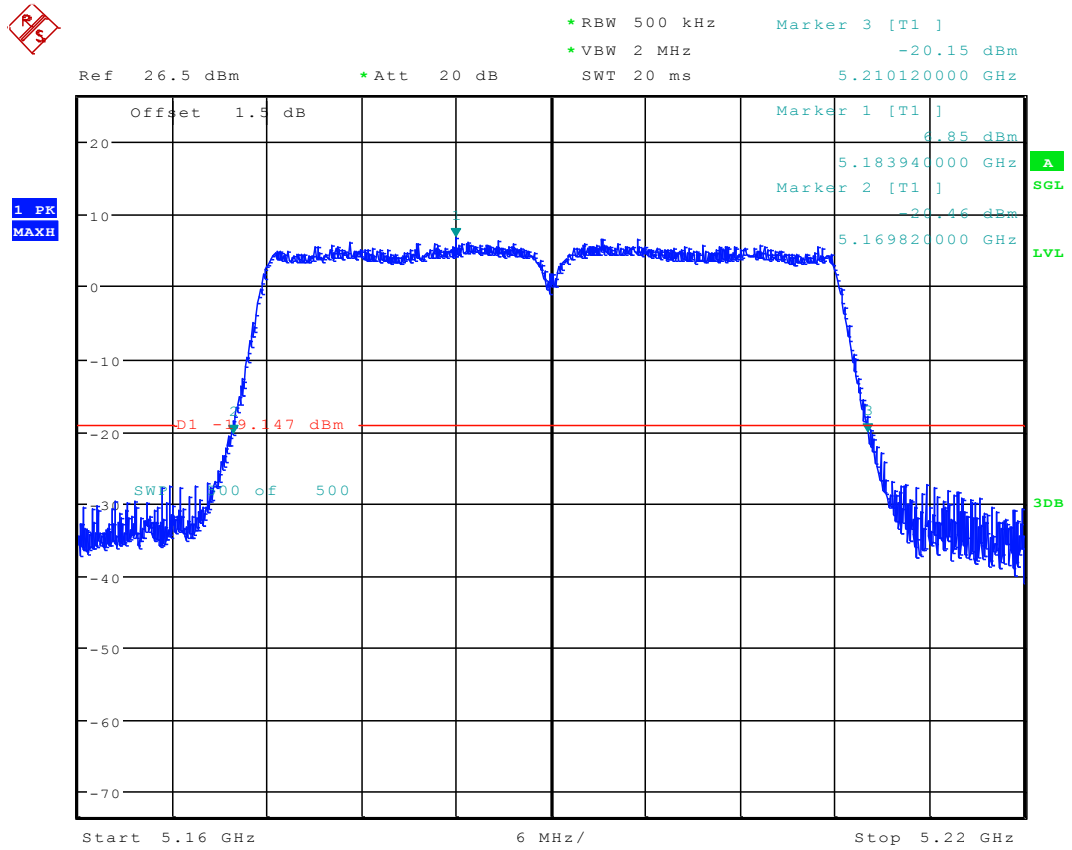
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2.42 11AC20MIMO_52 ANT 3



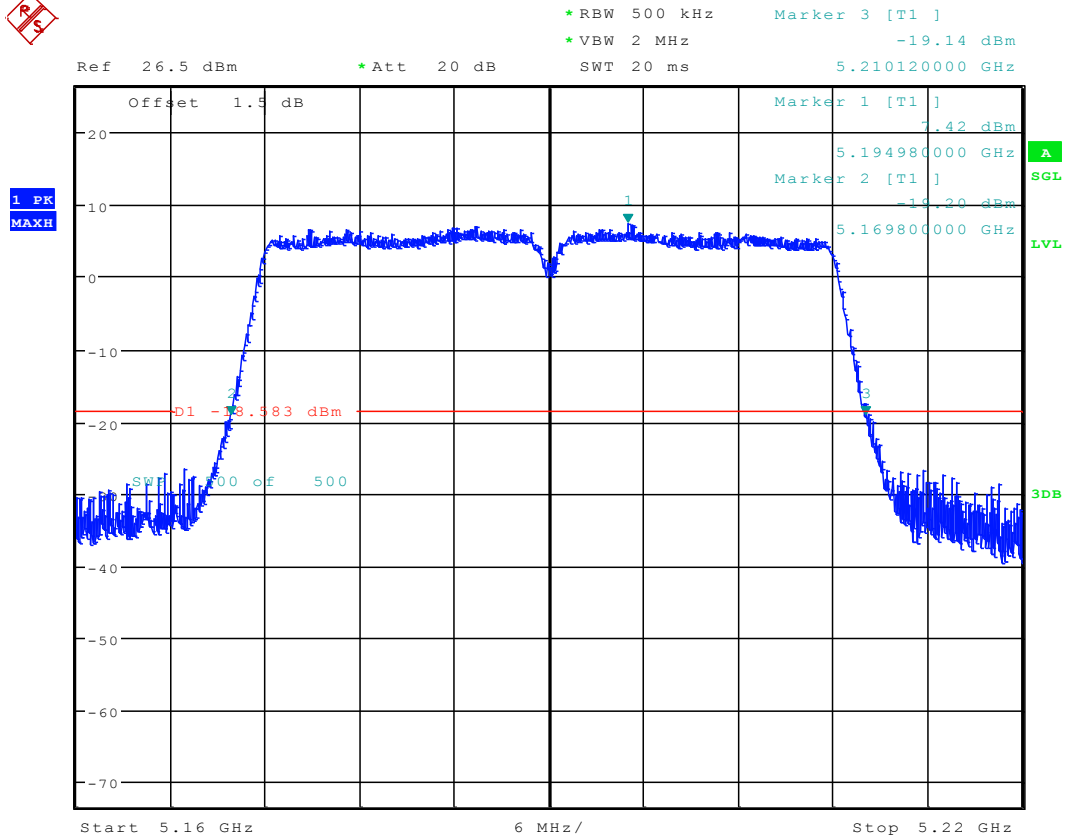
Date: 14.FEB.2017 15:26:42

2.43 11AC40_38 ANT 1



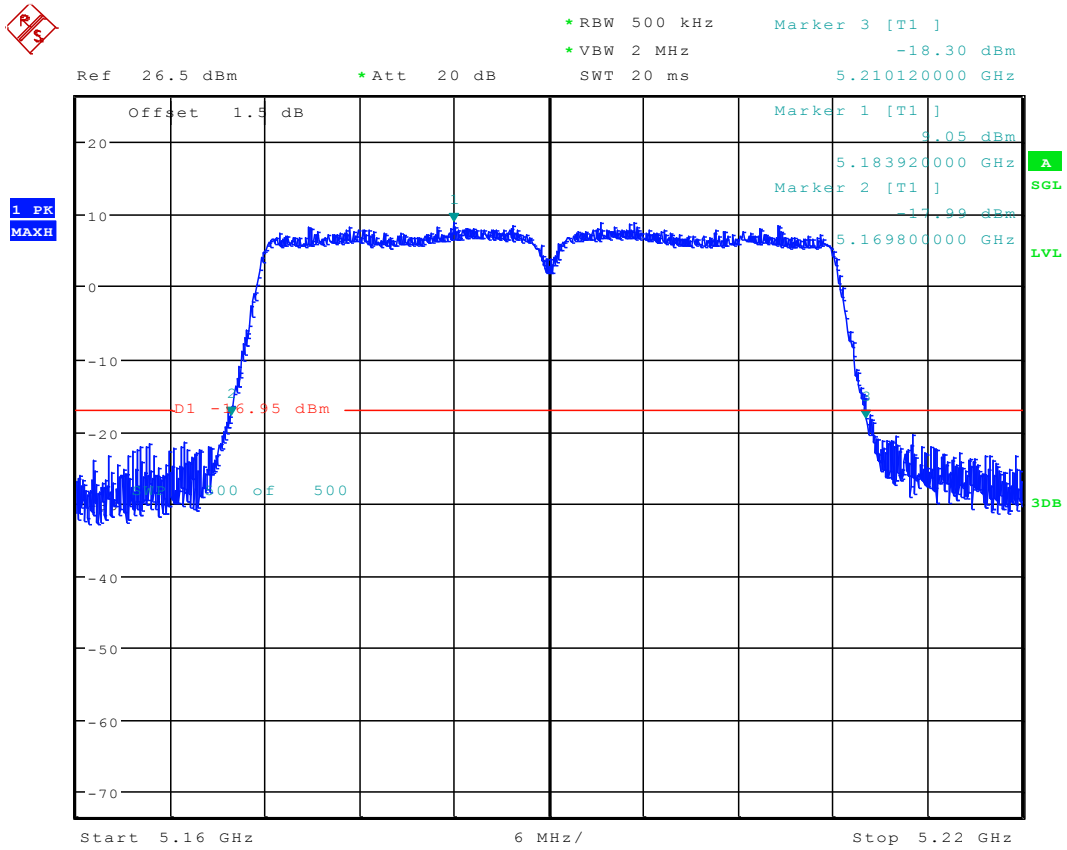
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2.44 11AC40_38 ANT 2



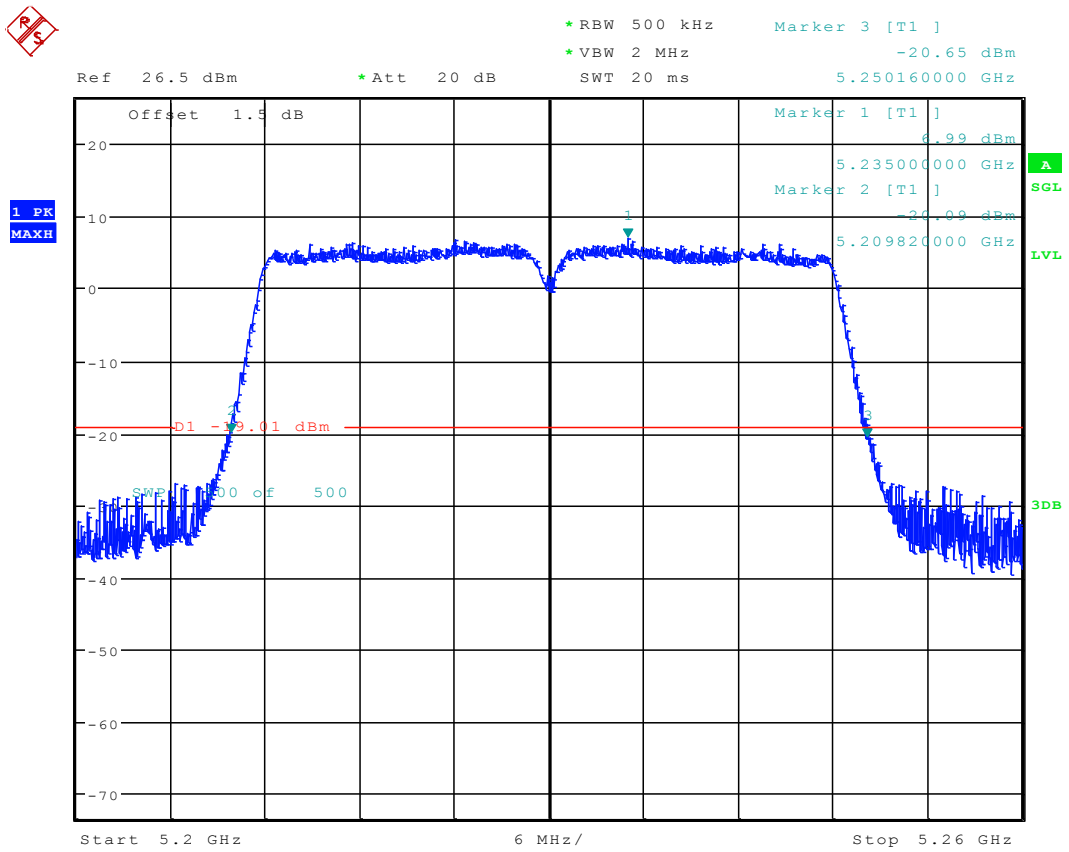
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2.45 11AC40_38 ANT 3



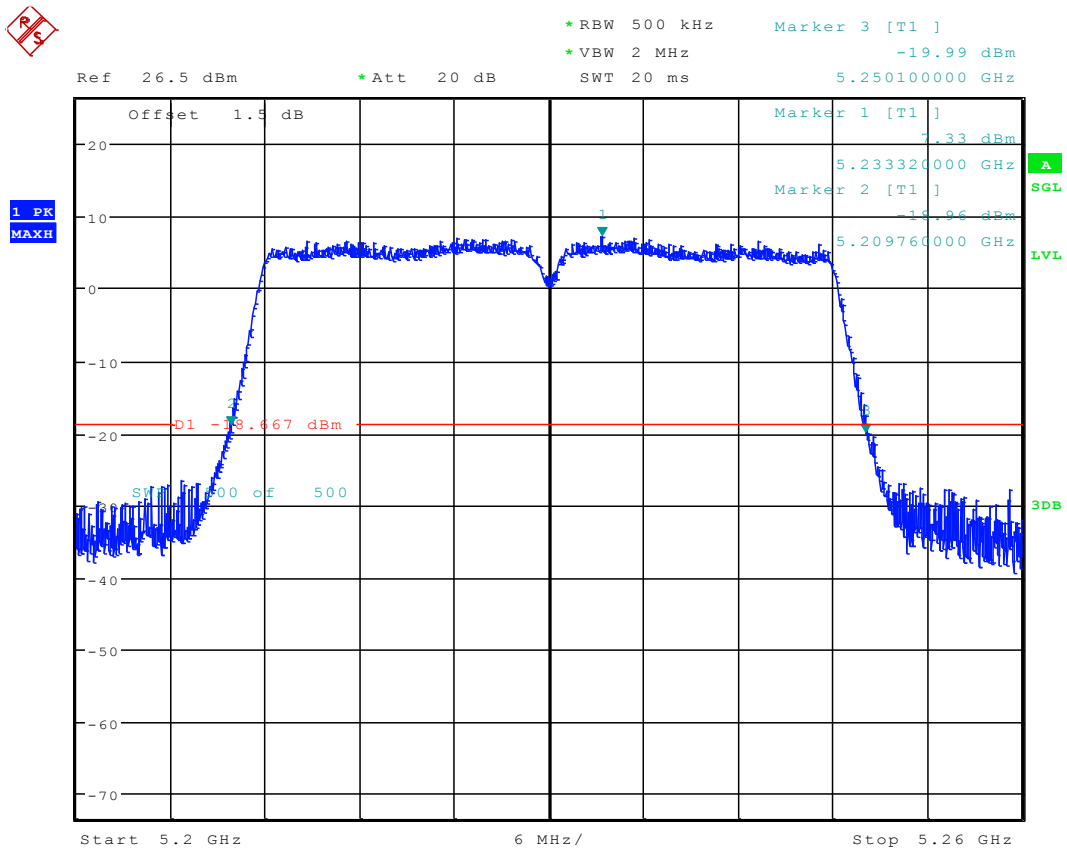
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2.46 11AC40_46 ANT 1



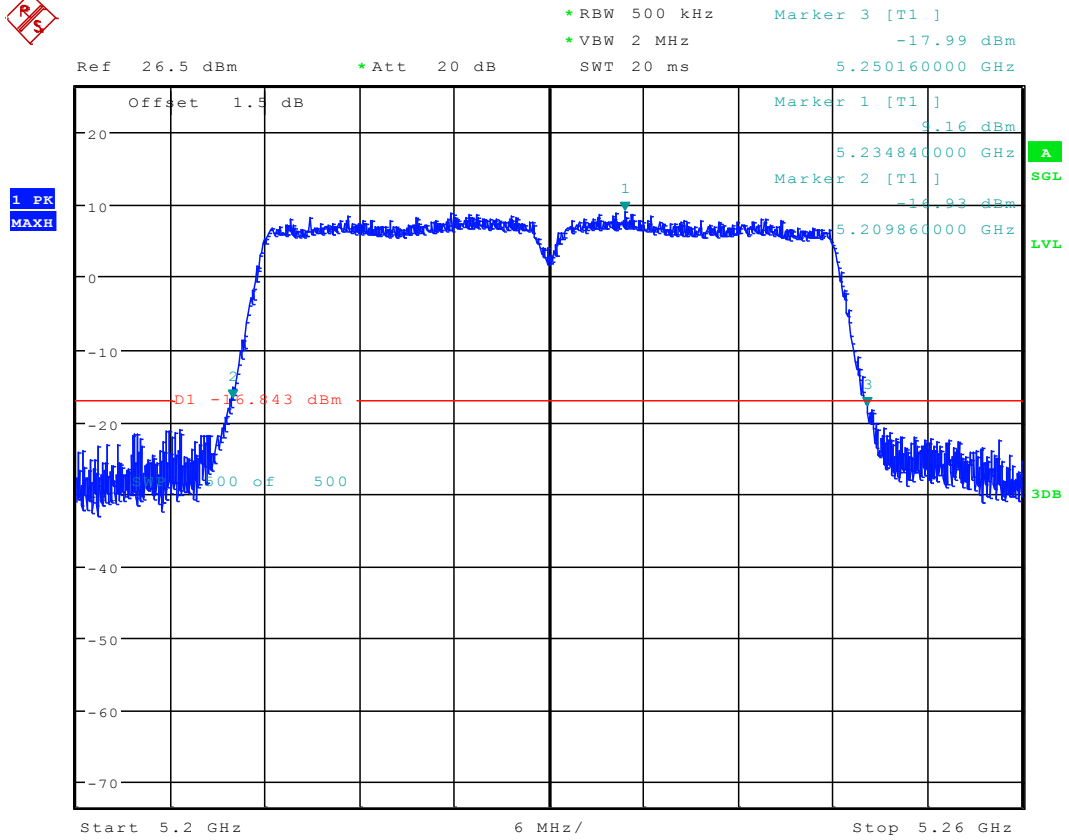
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2.47 11AC40_46 ANT 2



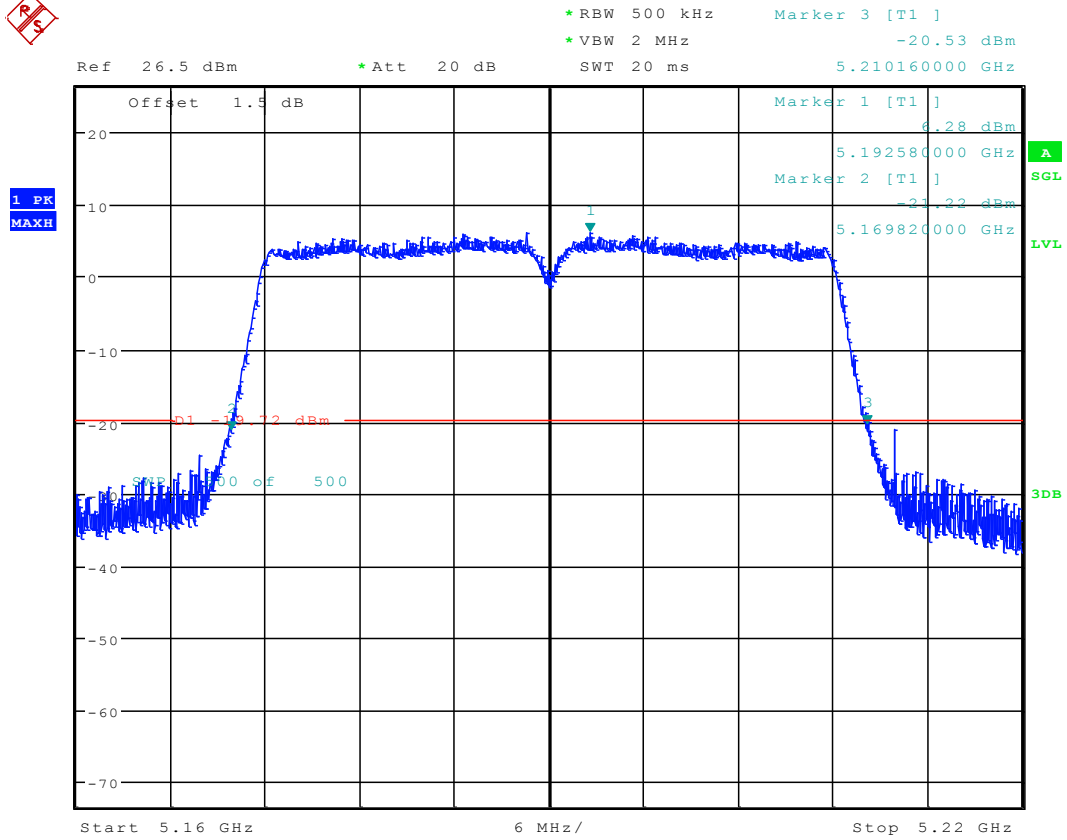
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2.48 11AC40_46 ANT 3



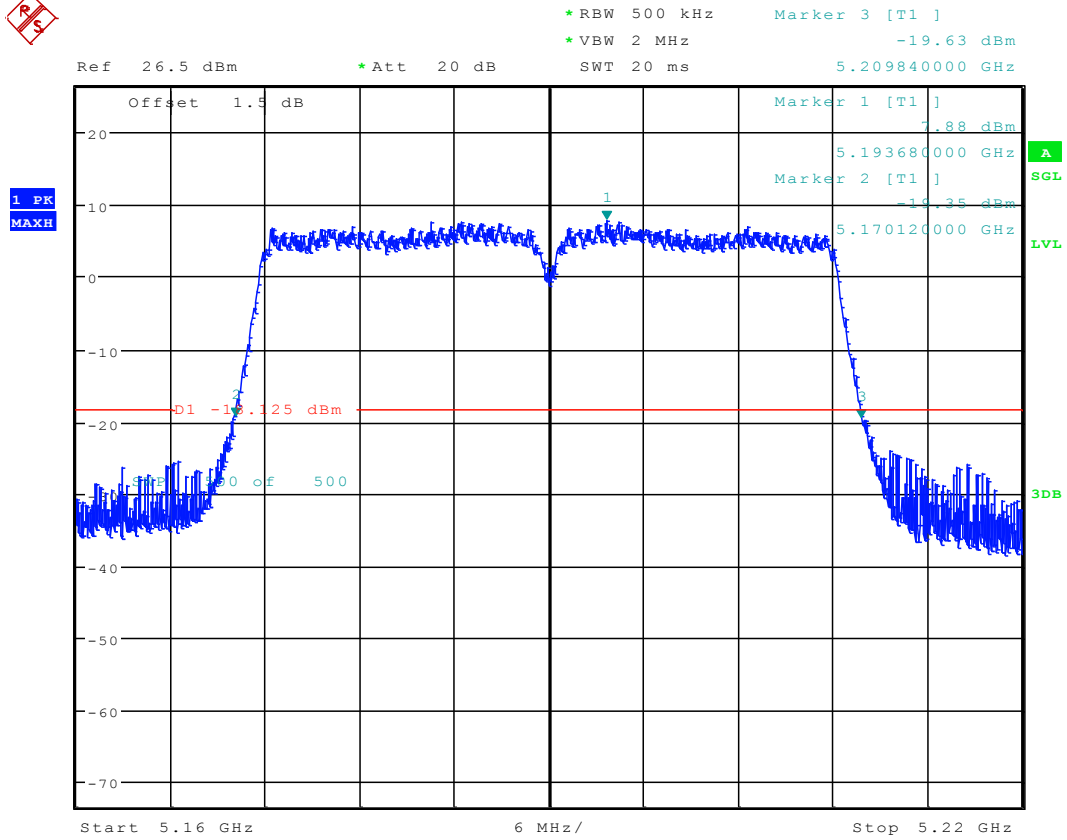
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2.49 11AC40MIMO_38 ANT 1



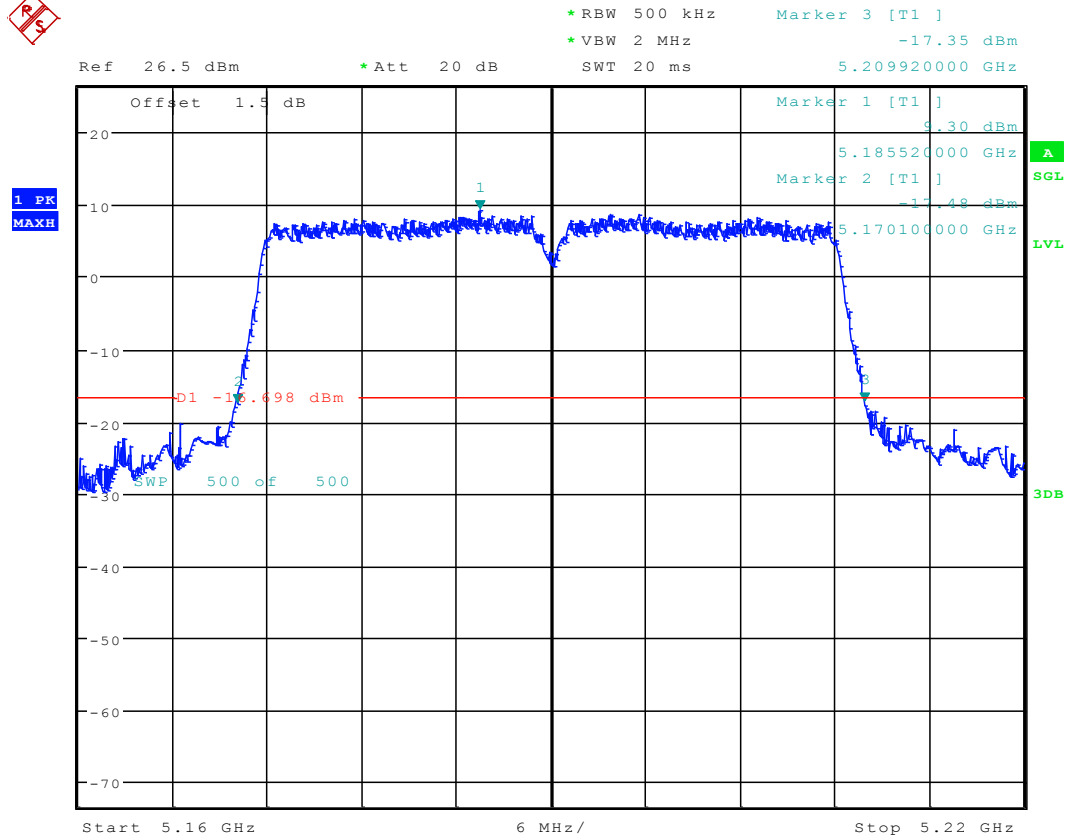
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2.50 11AC40MIMO_38 ANT 2



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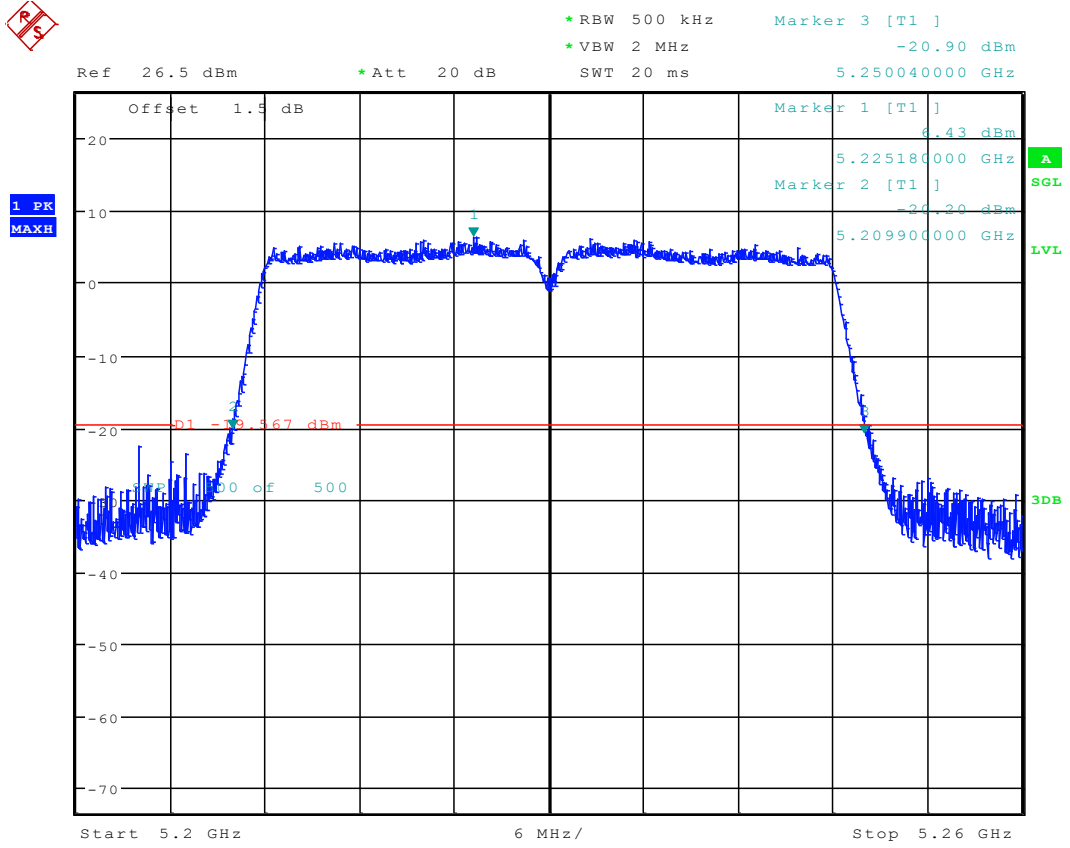
2.51 11AC40MIMO_38 ANT 3



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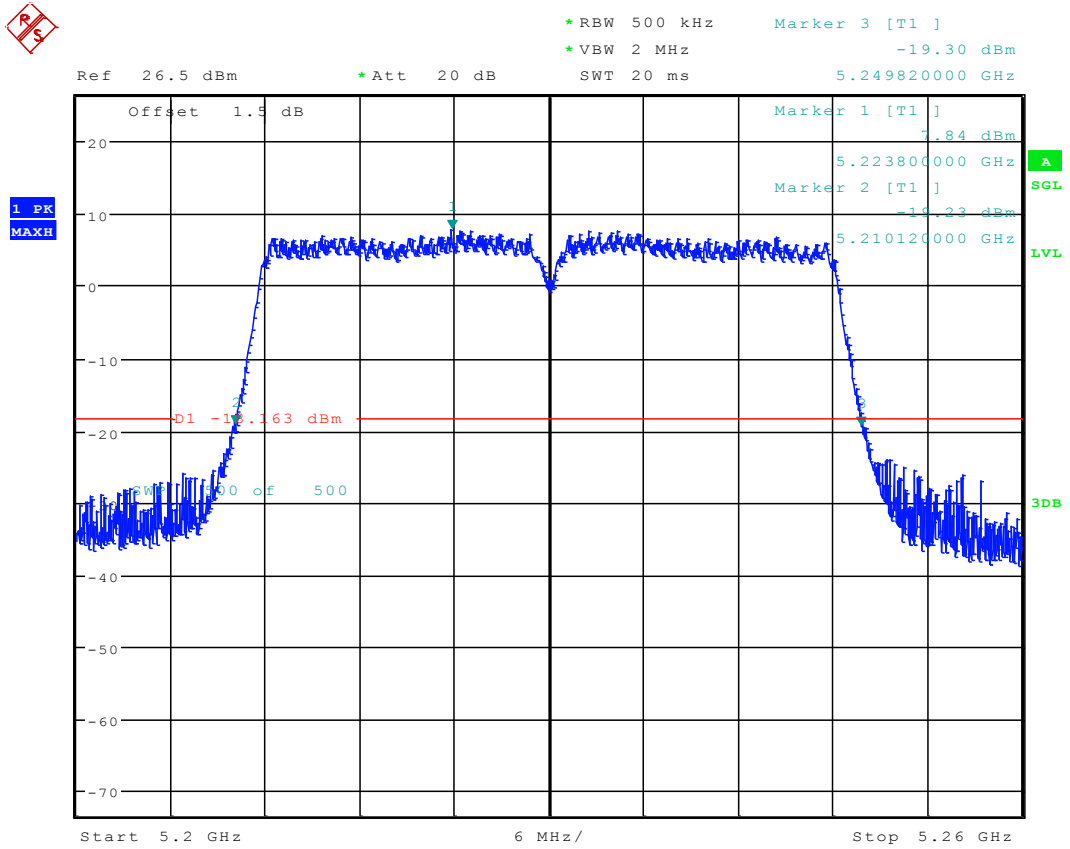


2.52 11AC40MIMO_46 ANT 1



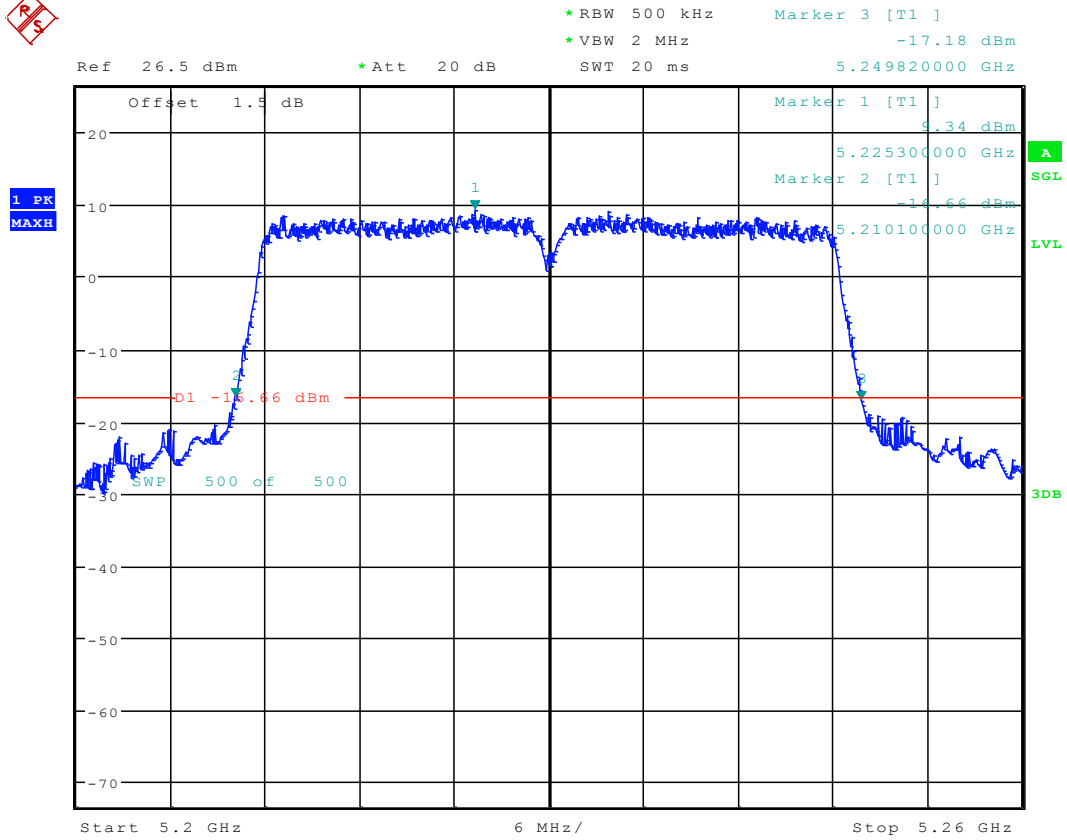
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2.53 11AC40MIMO_46 ANT 2



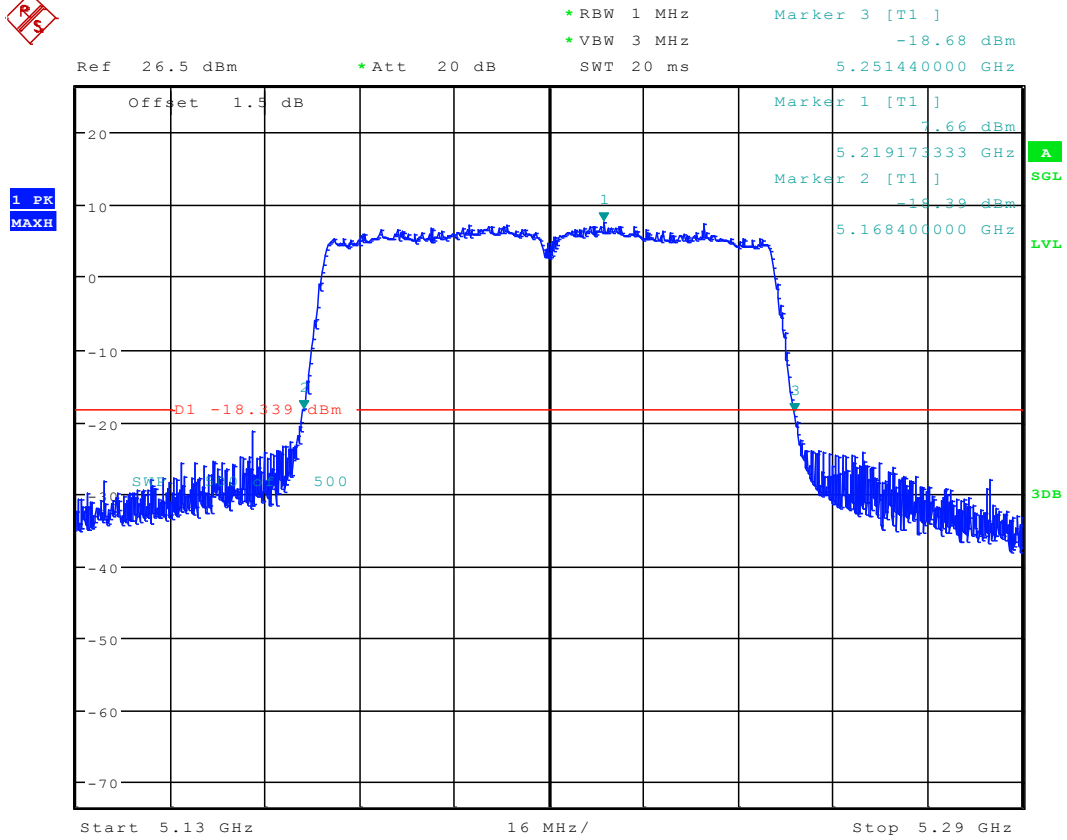
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2.54 11AC40MIMO_46 ANT 3



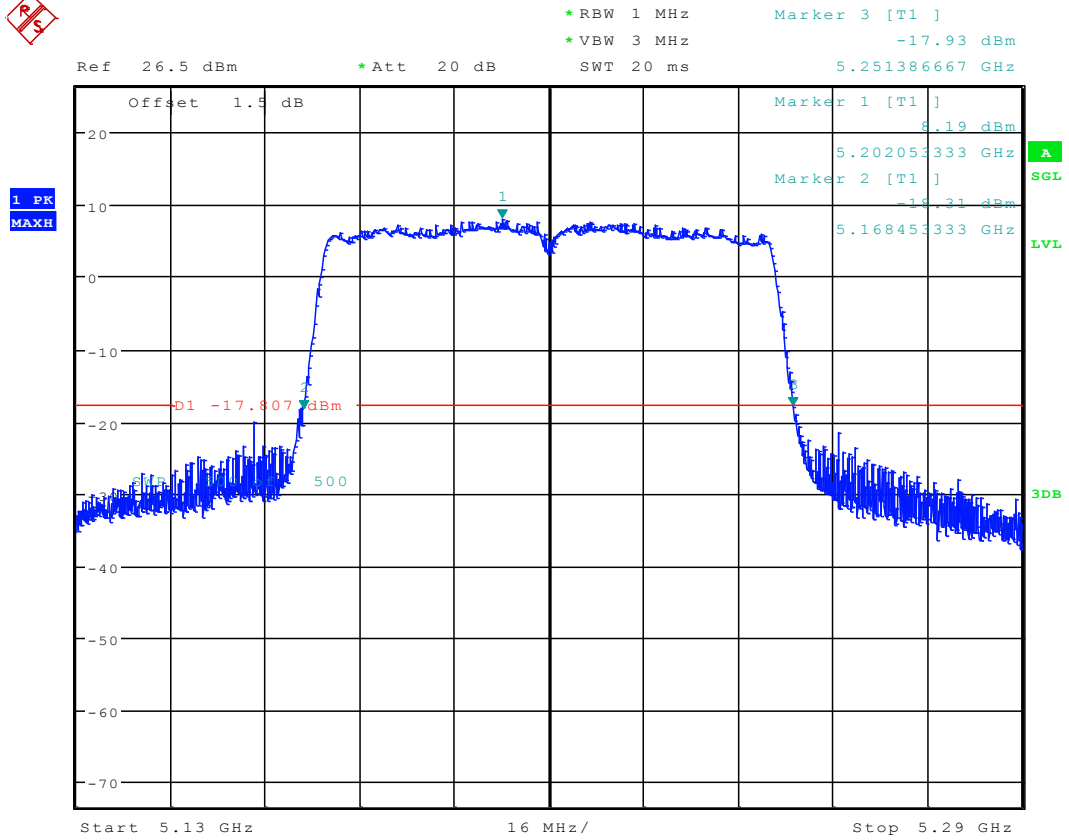
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2.55 11AC80_42 ANT 1



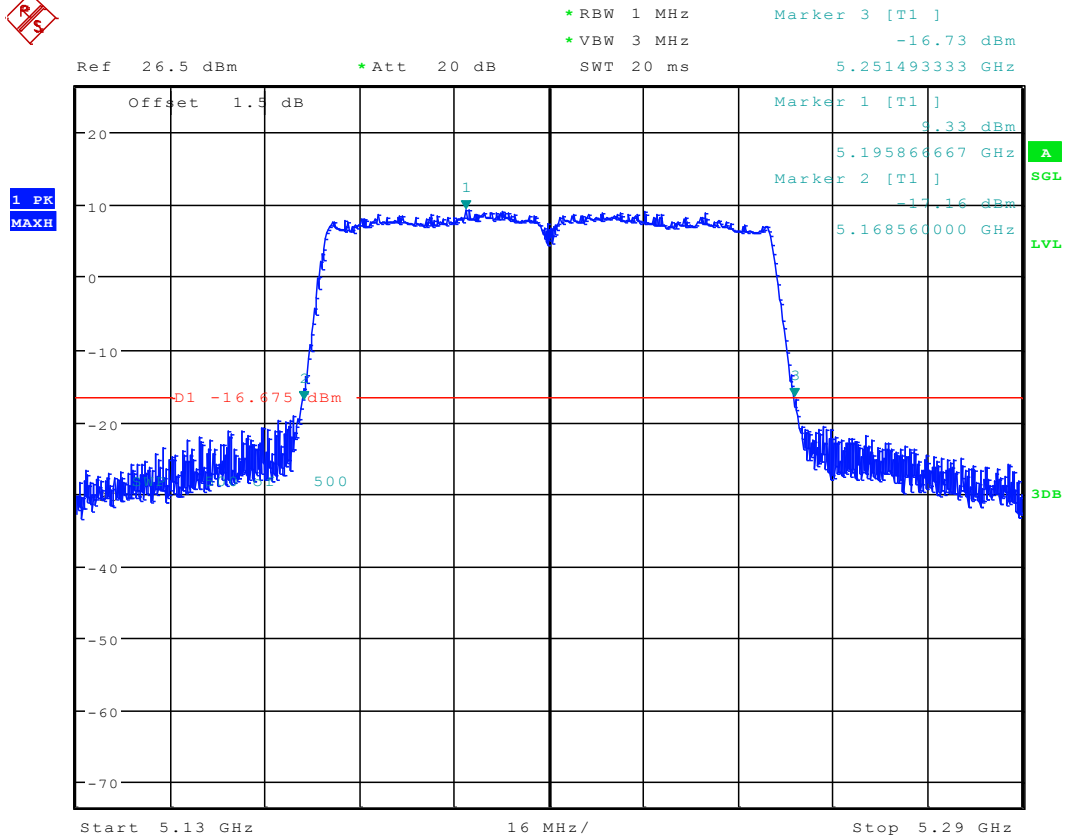
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2.56 11AC80_42 ANT 2



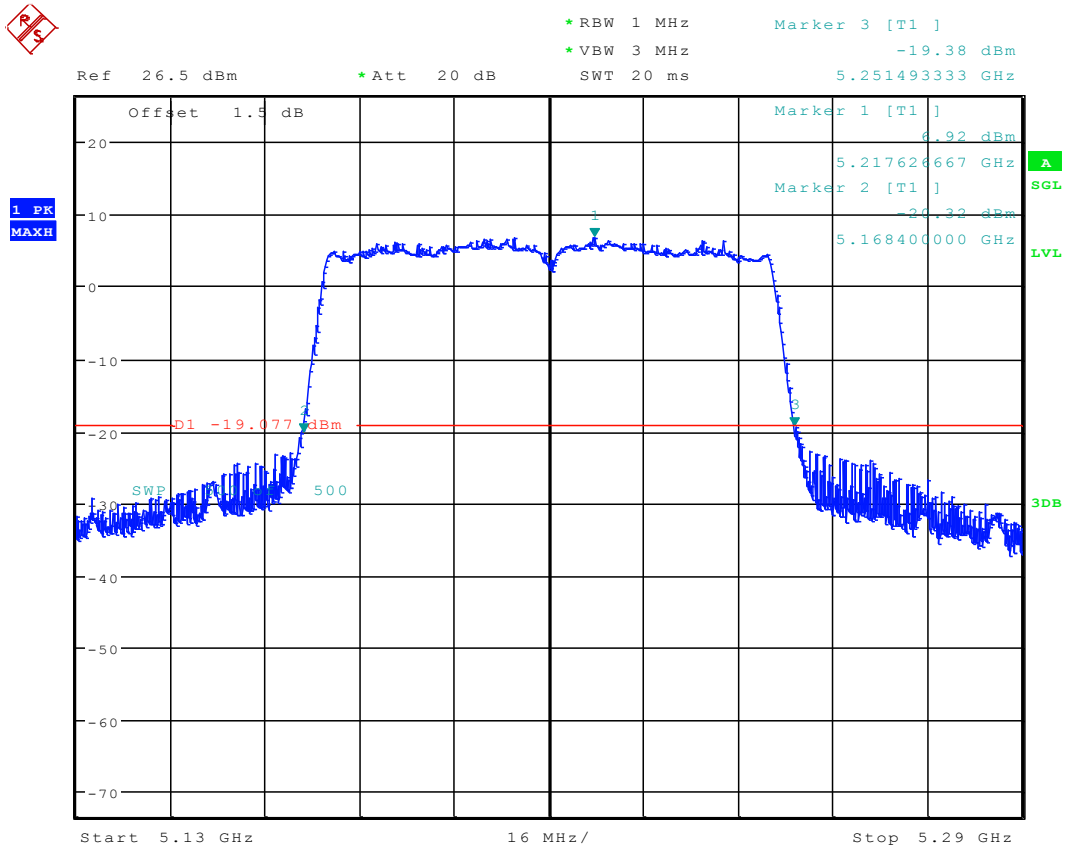
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2.57 11AC80_42 ANT 3



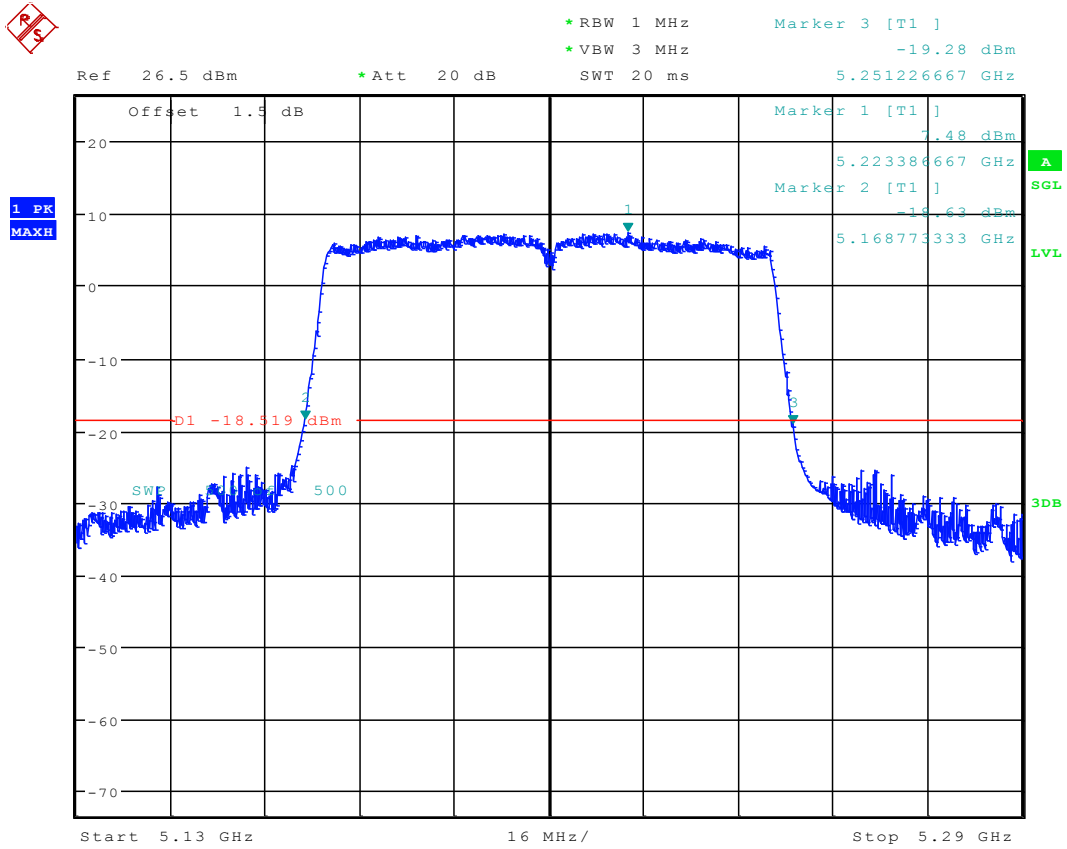
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2.58 11AC80MIMO_42 ANT 1



Date: 13.FEB.2017 10:26:36

2.59 11AC80MIMO_42 ANT 2



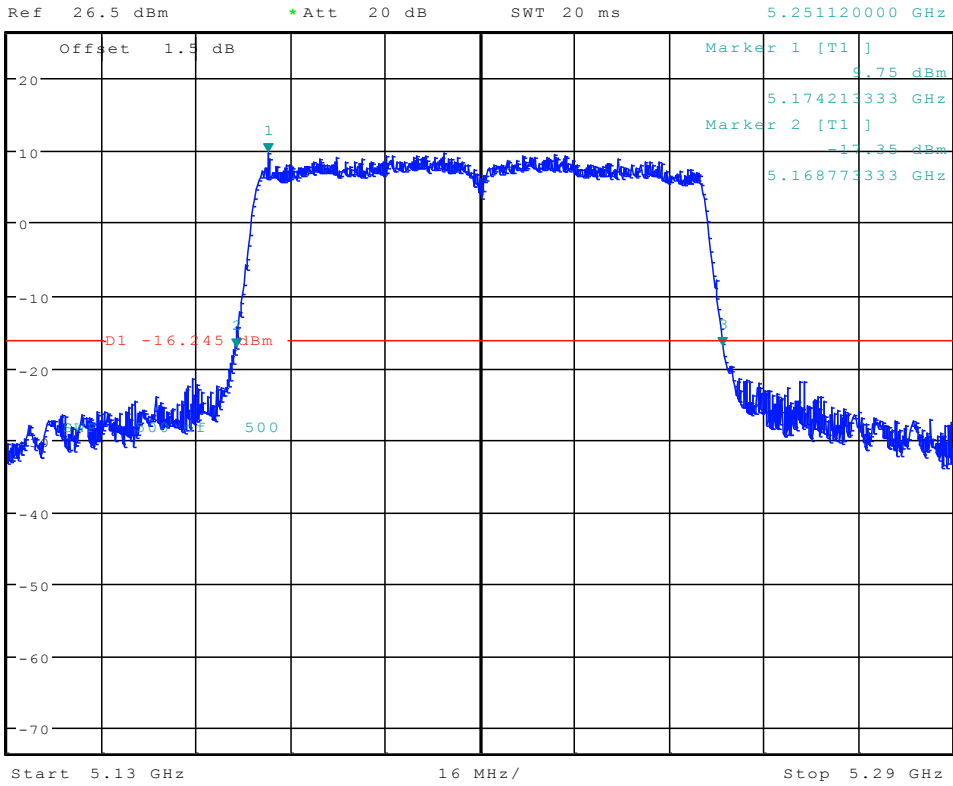
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2.60 11AC80MIMO_42 ANT 3



*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -17.09 dBm
 SWT 20 ms 5.251120000 GHz



Date: 14.FEB.2017 16:01:56



Appendix B Occupied Bandwidth (OBW)



3 Result Table

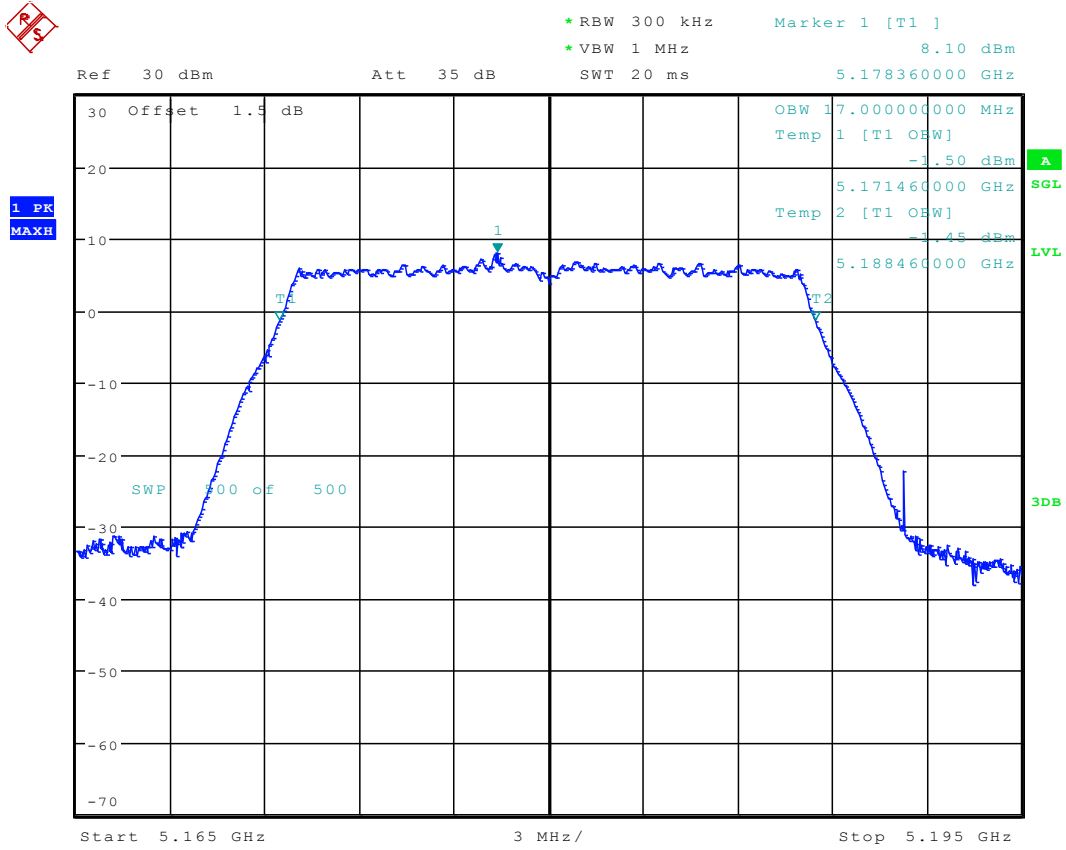
| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Occupied Bandwidth [MHz] | Verdict |
|-----------|--------------|-----------------|--------------|--------------------------|---------|
| 11A20 | 36 | 5180 | ANT 1 | 17 | PASS |
| | 36 | 5180 | ANT 2 | 17 | PASS |
| | 36 | 5180 | ANT 3 | 17.04 | PASS |
| | 48 | 5240 | ANT 1 | 17 | PASS |
| | 48 | 5240 | ANT 2 | 16.98 | PASS |
| | 48 | 5240 | ANT 3 | 17.04 | PASS |
| 11N20 | 36 | 5180 | ANT 1 | 18.04 | PASS |
| | 36 | 5180 | ANT 2 | 18.02 | PASS |
| | 36 | 5180 | ANT 3 | 18.02 | PASS |
| | 48 | 5240 | ANT 1 | 18.04 | PASS |
| | 48 | 5240 | ANT 2 | 18 | PASS |
| | 48 | 5240 | ANT 3 | 18.04 | PASS |
| 11N20MIMO | 36 | 5180 | ANT 1 | 18 | PASS |
| | 36 | 5180 | ANT 2 | 17.8 | PASS |
| | 36 | 5180 | ANT 3 | 17.8 | PASS |
| | 48 | 5240 | ANT 1 | 18.02 | PASS |
| | 48 | 5240 | ANT 2 | 17.78 | PASS |
| | 48 | 5240 | ANT 3 | 17.88 | PASS |
| 11N40 | 38 | 5190 | ANT 1 | 36.44 | PASS |
| | 38 | 5190 | ANT 2 | 36.42 | PASS |
| | 38 | 5190 | ANT 3 | 36.46 | PASS |
| | 46 | 5230 | ANT 1 | 36.46 | PASS |
| | 46 | 5230 | ANT 2 | 36.44 | PASS |
| | 46 | 5230 | ANT 3 | 36.46 | PASS |
| 11N40MIMO | 38 | 5190 | ANT 1 | 36.44 | PASS |
| | 38 | 5190 | ANT 2 | 36.32 | PASS |
| | 38 | 5190 | ANT 3 | 36.38 | PASS |
| | 46 | 5230 | ANT 1 | 36.42 | PASS |
| | 46 | 5230 | ANT 2 | 36.32 | PASS |
| | 46 | 5230 | ANT 3 | 36.36 | PASS |
| 11AC20 | 36 | 5180 | ANT 1 | 18.04 | PASS |
| | 36 | 5180 | ANT 2 | 18 | PASS |
| | 36 | 5180 | ANT 3 | 18.06 | PASS |
| | 48 | 5240 | ANT 1 | 18.02 | PASS |



| | | | | | |
|------------|----|------|-------|-------|------|
| | 48 | 5240 | ANT 2 | 18 | PASS |
| | 48 | 5240 | ANT 3 | 18.06 | PASS |
| 11AC20MIMO | 36 | 5180 | ANT 1 | 18.04 | PASS |
| | 36 | 5180 | ANT 2 | 17.78 | PASS |
| | 36 | 5180 | ANT 3 | 17.86 | PASS |
| | 48 | 5240 | ANT 1 | 18.02 | PASS |
| | 48 | 5240 | ANT 2 | 17.8 | PASS |
| | 48 | 5240 | ANT 3 | 17.86 | PASS |
| 11AC40 | 38 | 5190 | ANT 1 | 36.44 | PASS |
| | 38 | 5190 | ANT 2 | 36.46 | PASS |
| | 38 | 5190 | ANT 3 | 36.44 | PASS |
| | 46 | 5230 | ANT 1 | 36.44 | PASS |
| | 46 | 5230 | ANT 2 | 36.46 | PASS |
| | 46 | 5230 | ANT3 | 36.46 | PASS |
| 11AC40MIMO | 38 | 5190 | ANT 1 | 36.46 | PASS |
| | 38 | 5190 | ANT 2 | 36.28 | PASS |
| | 38 | 5190 | ANT 3 | 36.36 | PASS |
| | 46 | 5230 | ANT 1 | 36.42 | PASS |
| | 46 | 5230 | ANT 2 | 36.3 | PASS |
| | 46 | 5230 | ANT3 | 36.36 | PASS |
| 11AC80 | 42 | 5210 | ANT 1 | 75.8 | PASS |
| | 42 | 5210 | ANT 2 | 75.76 | PASS |
| | 42 | 5210 | ANT 3 | 75.84 | PASS |
| 11AC80MIMO | 42 | 5210 | ANT 1 | 75.84 | PASS |
| | 42 | 5210 | ANT 2 | 75.64 | PASS |
| | 42 | 5210 | ANT 3 | 75.76 | PASS |

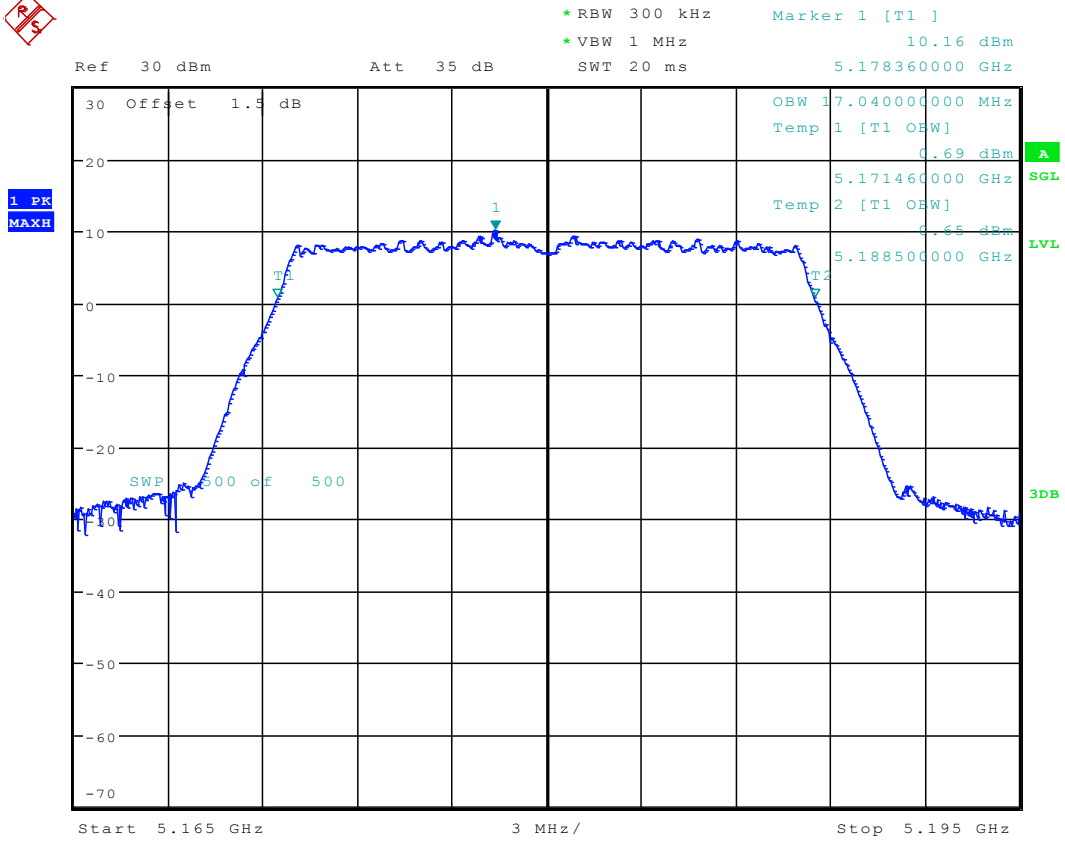
4 Test Plot

4.1 11A20_36 ANT 1



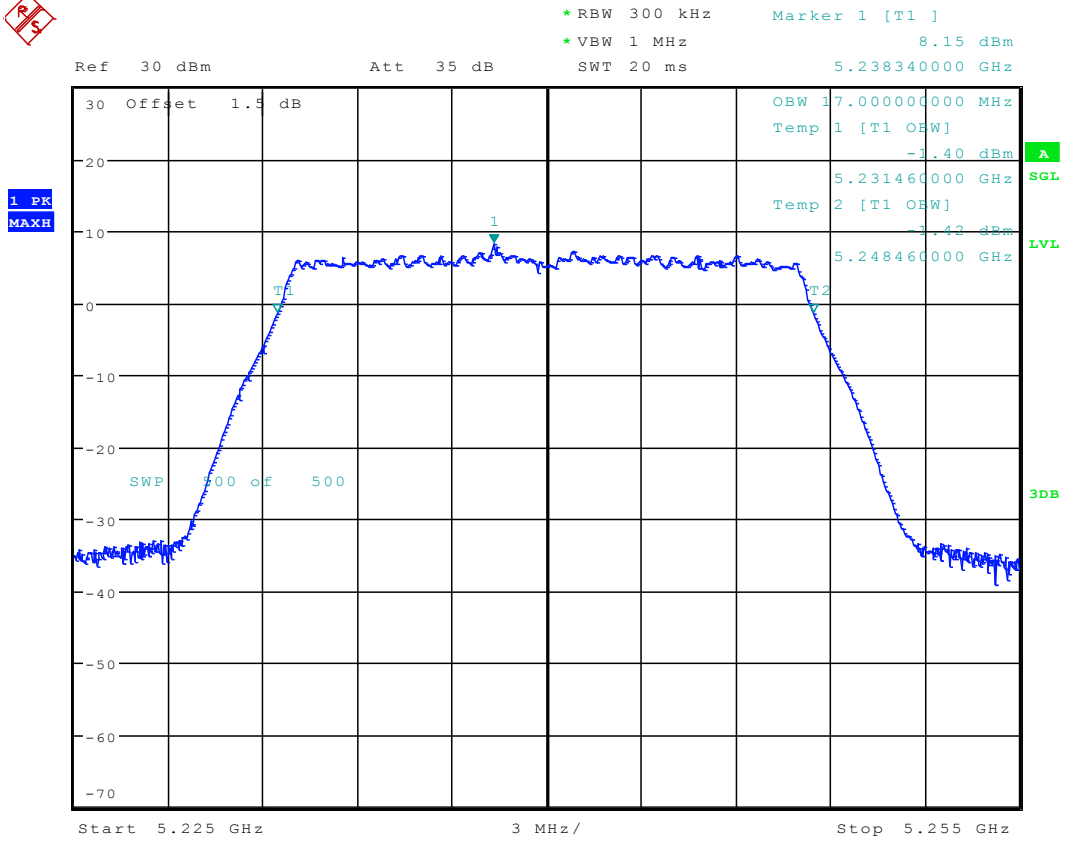
Date: 8.FEB.2017 16:51:19

4.3 11A20_36 ANT 3



Date: 9.FEB.2017 18:18:54

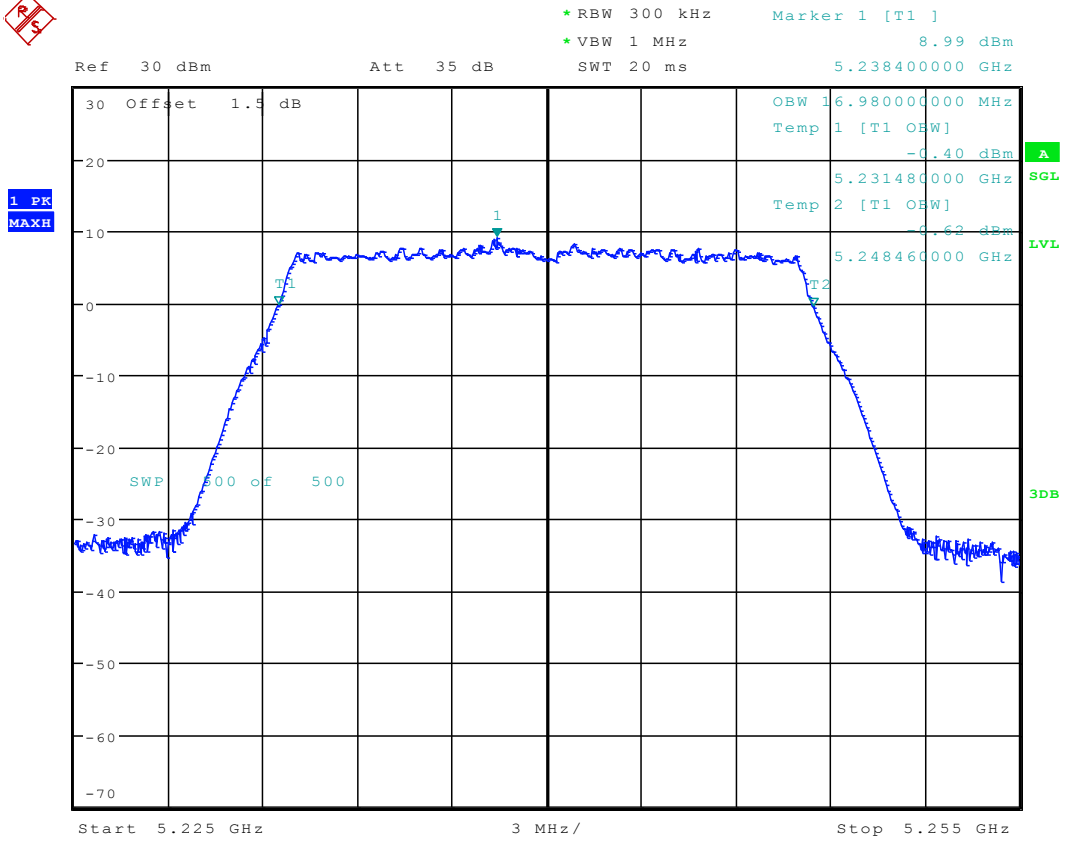
4.4 11A20_48 ANT 1



Date: 8.FEB.2017 17:10:28

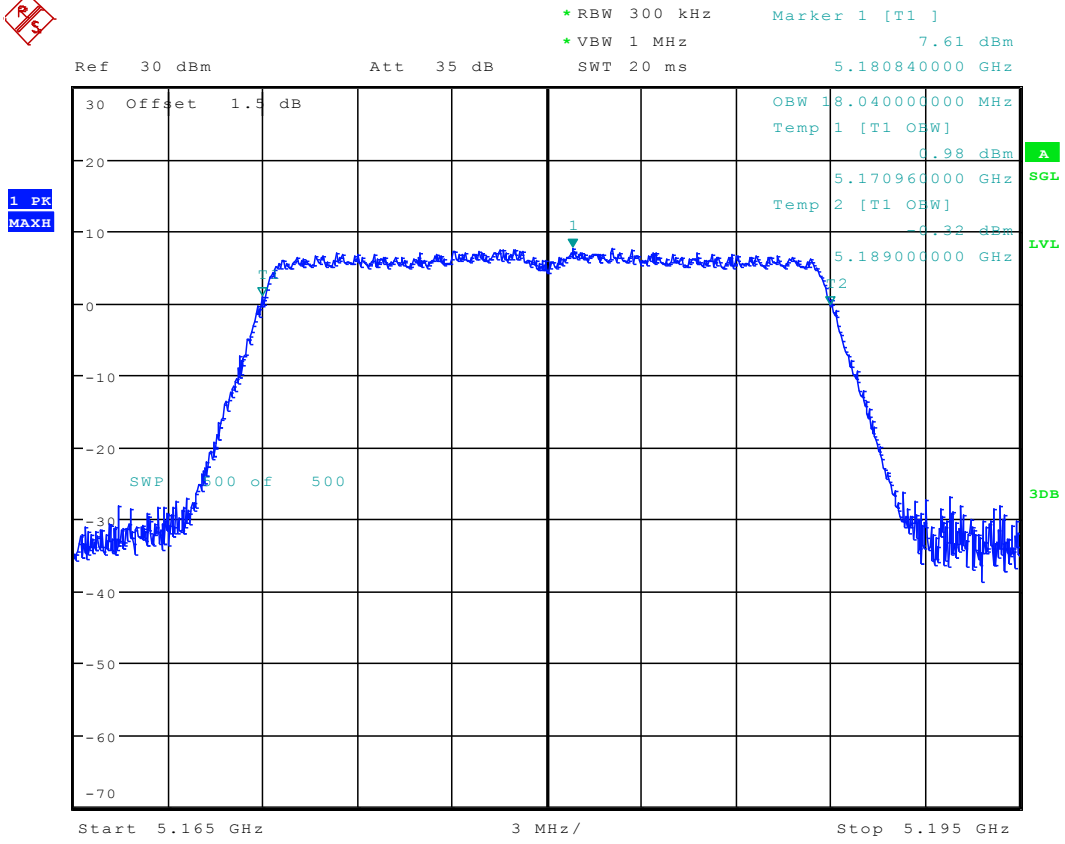


4.5 11A20_48 ANT 2



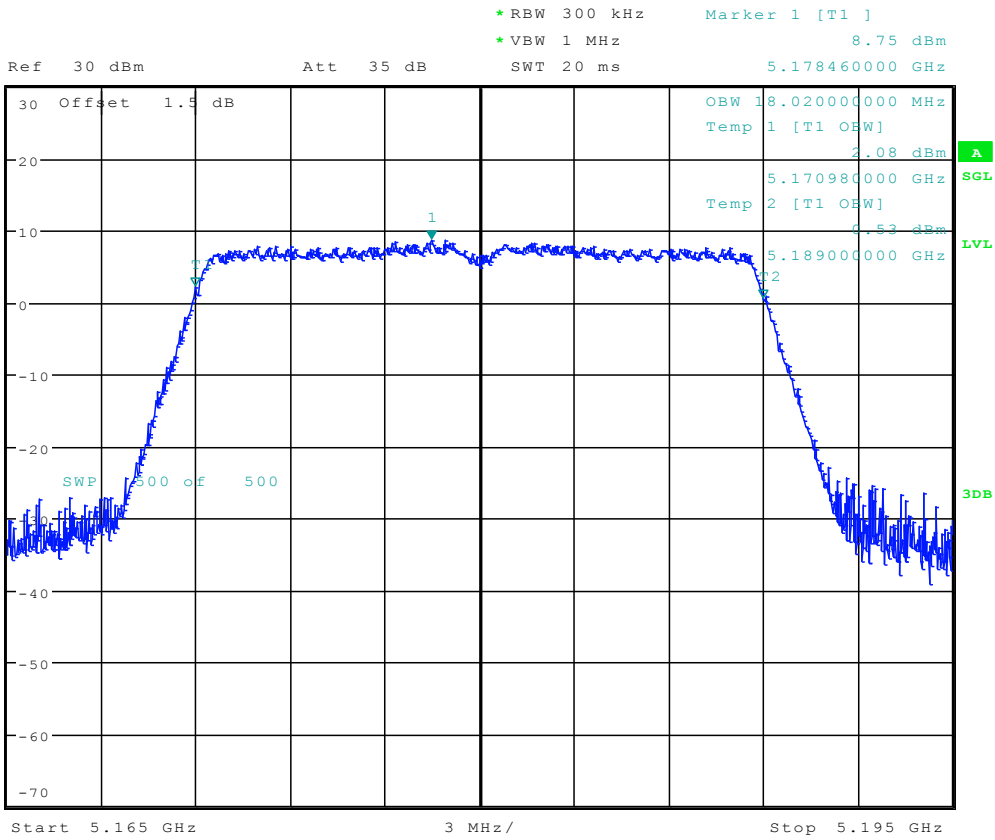
Date: 9.FEB.2017 15:23:23

4.7 11N20_36 ANT 1



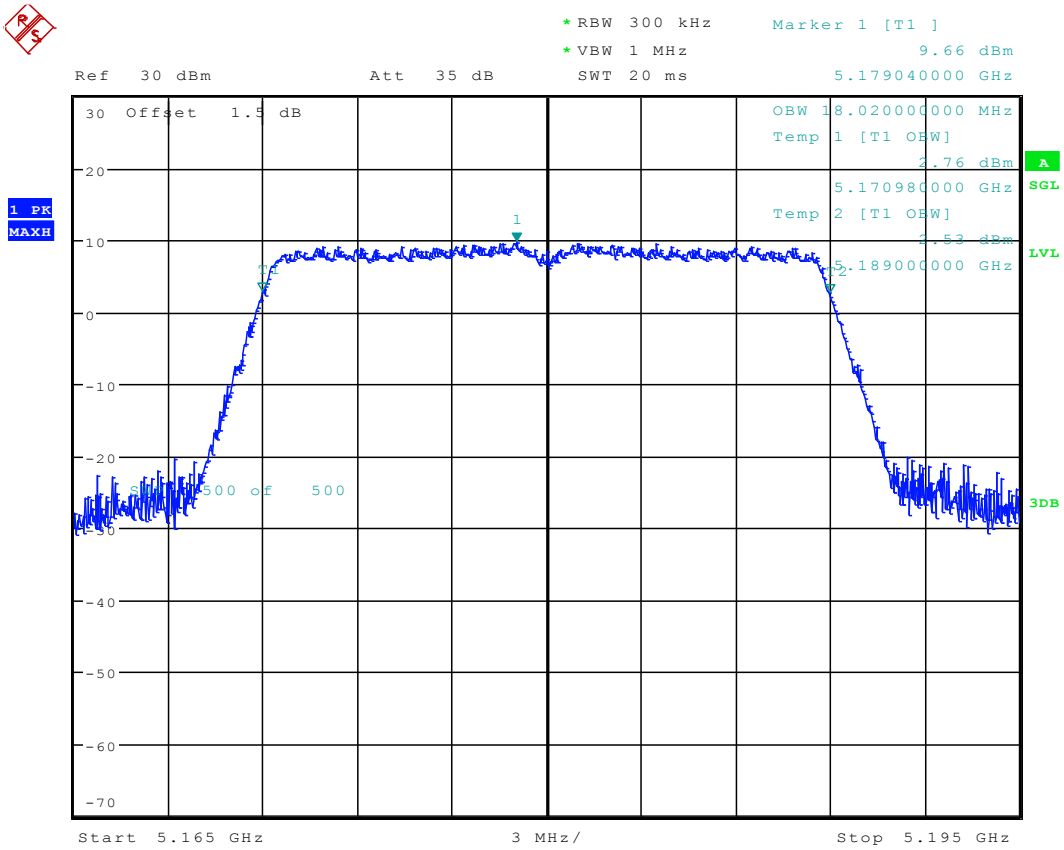
Date: 8.FEB.2017 18:24:43

4.8 11N20_36 ANT 2



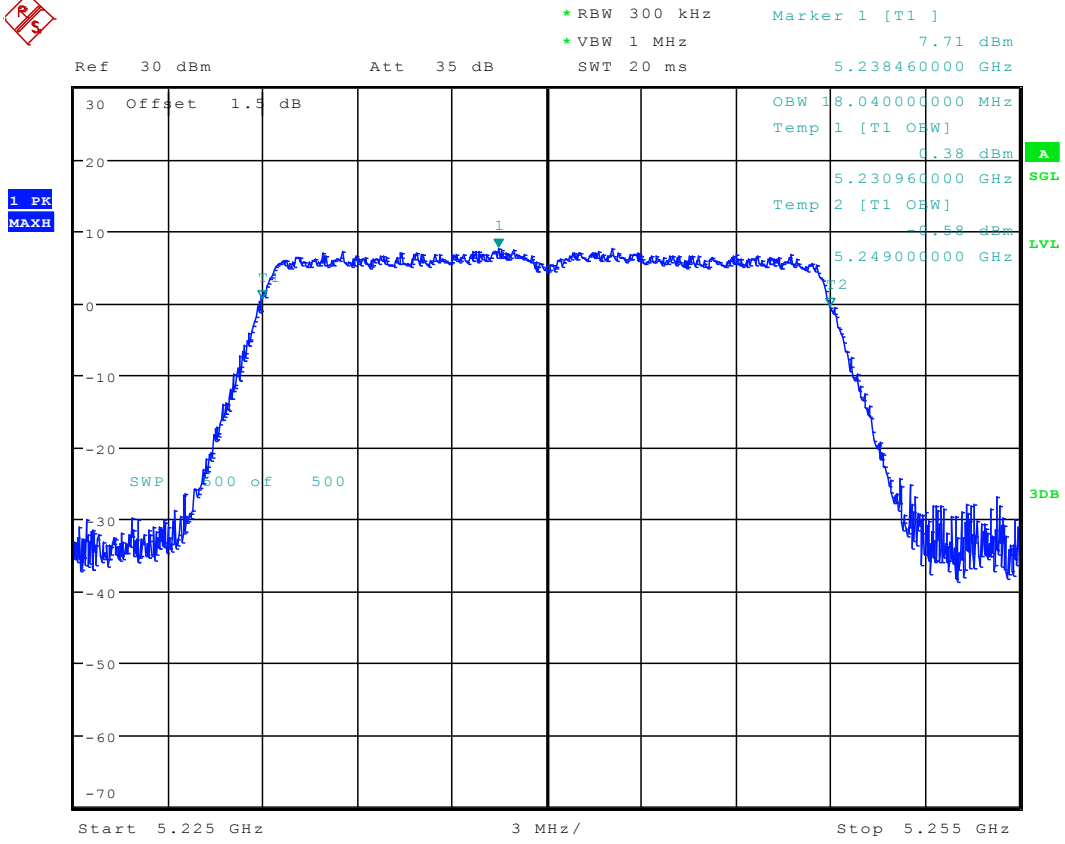
Date: 9.FEB.2017 15:36:26

4.9 11N20_36 ANT 3



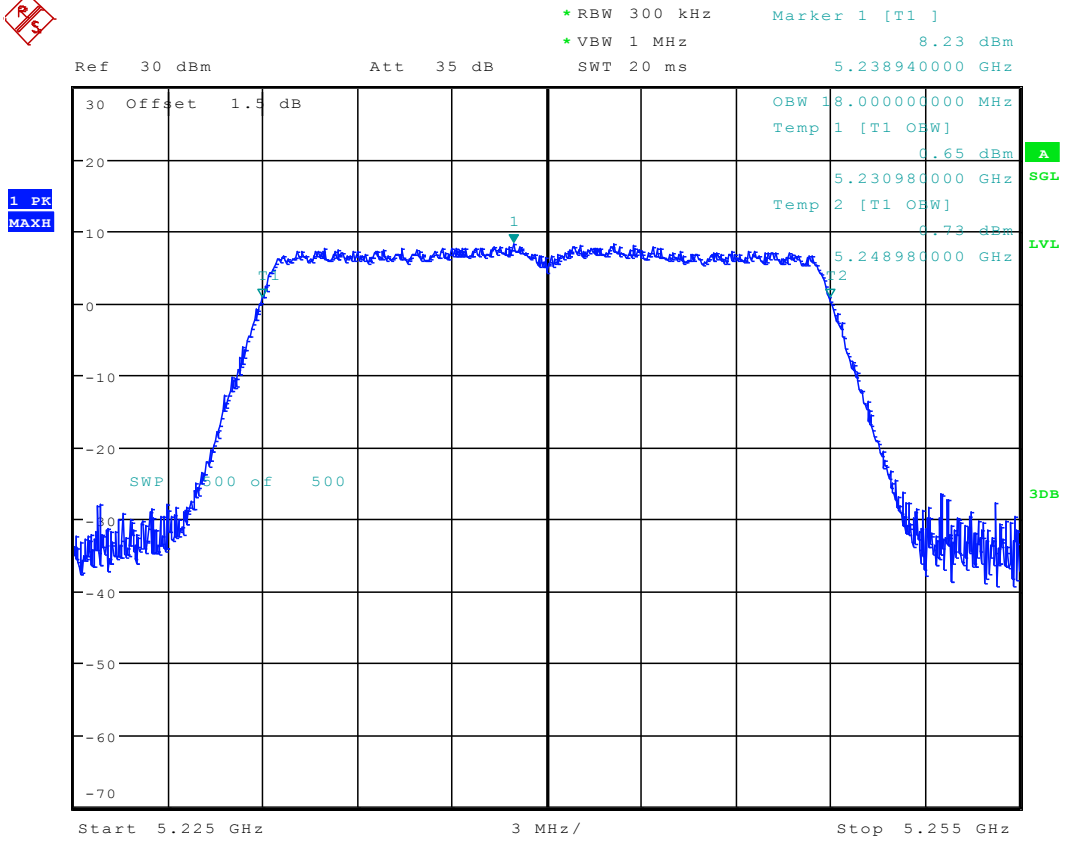
Date: 9.FEB.2017 18:33:15

4.10 11N20_48 ANT 1



Date: 8.FEB.2017 18:30:55

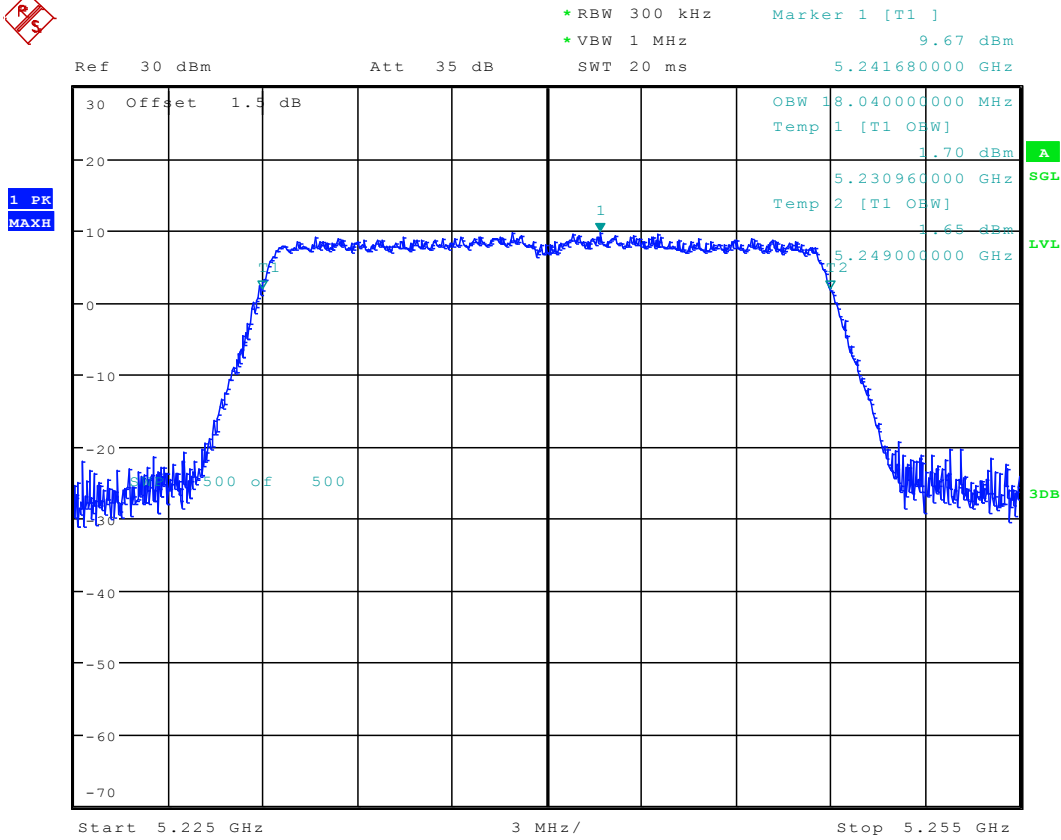
4.11 11N20_48 ANT 2



Date: 9.FEB.2017 15:47:15

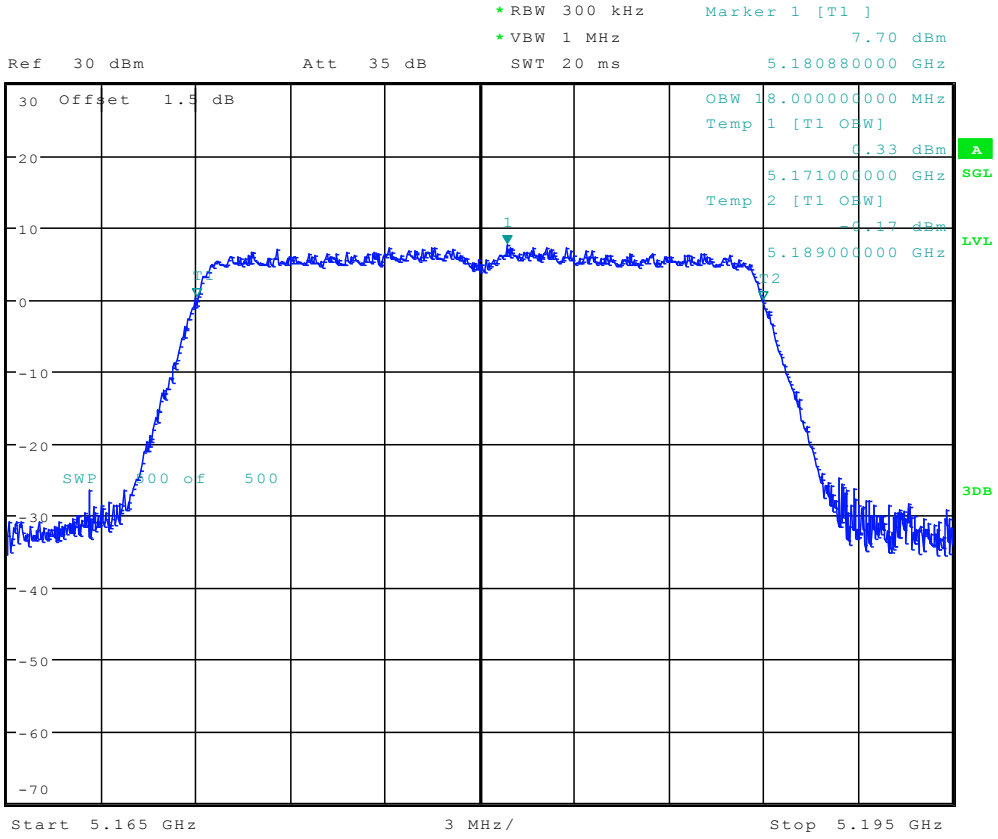


4.12 11N20_48 ANT 3



Date: 9.FEB.2017 18:42:48

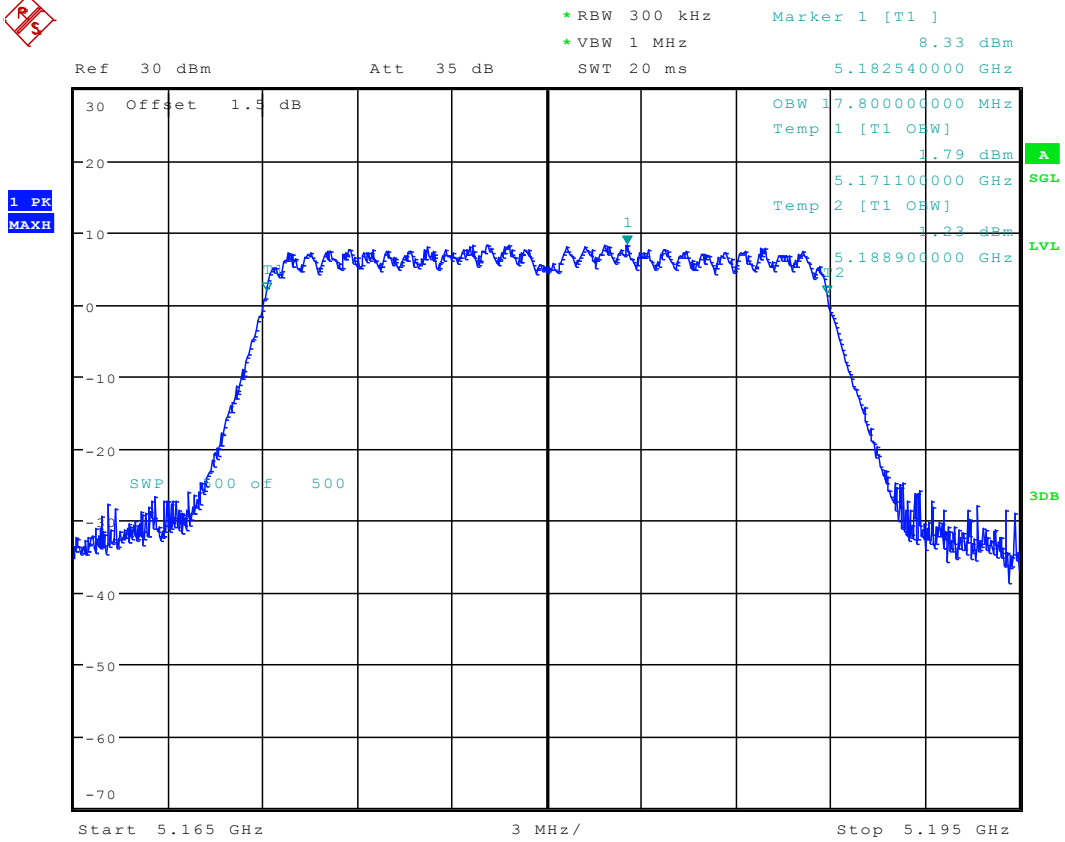
4.13 11N20MIMO_36 ANT 1



Date: 11.FEB.2017 18:32:54



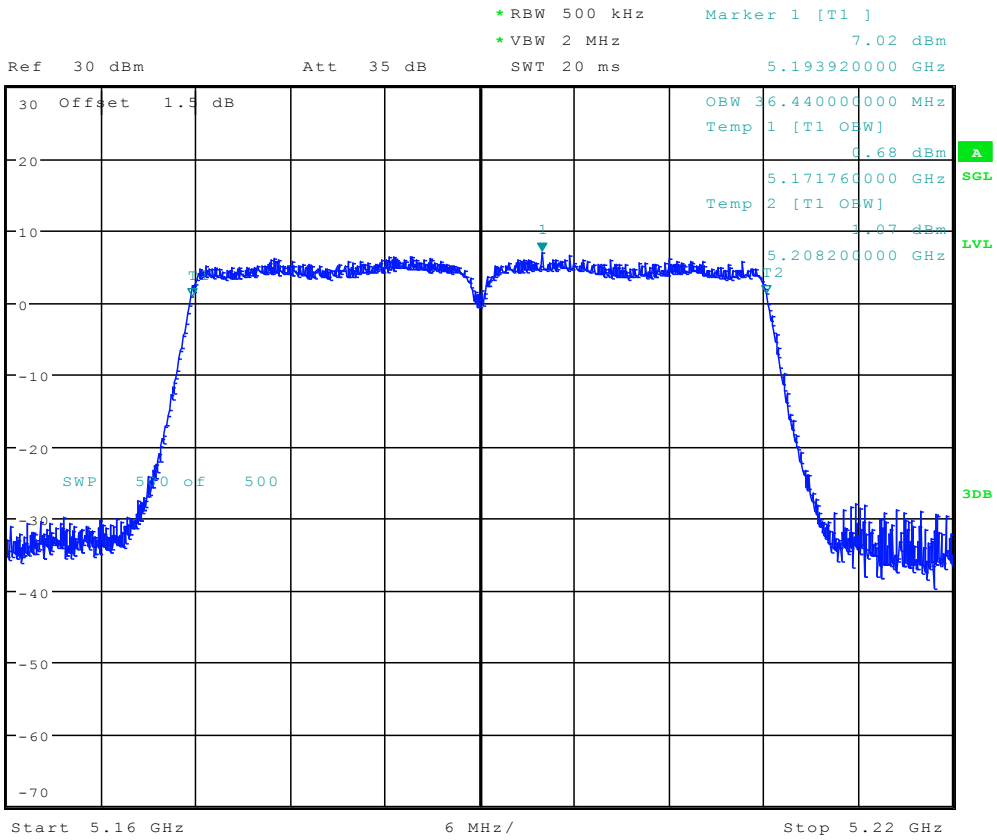
4.14 11N20MIMO_36 ANT 2



Date: 11.FEB.2017 17:24:50



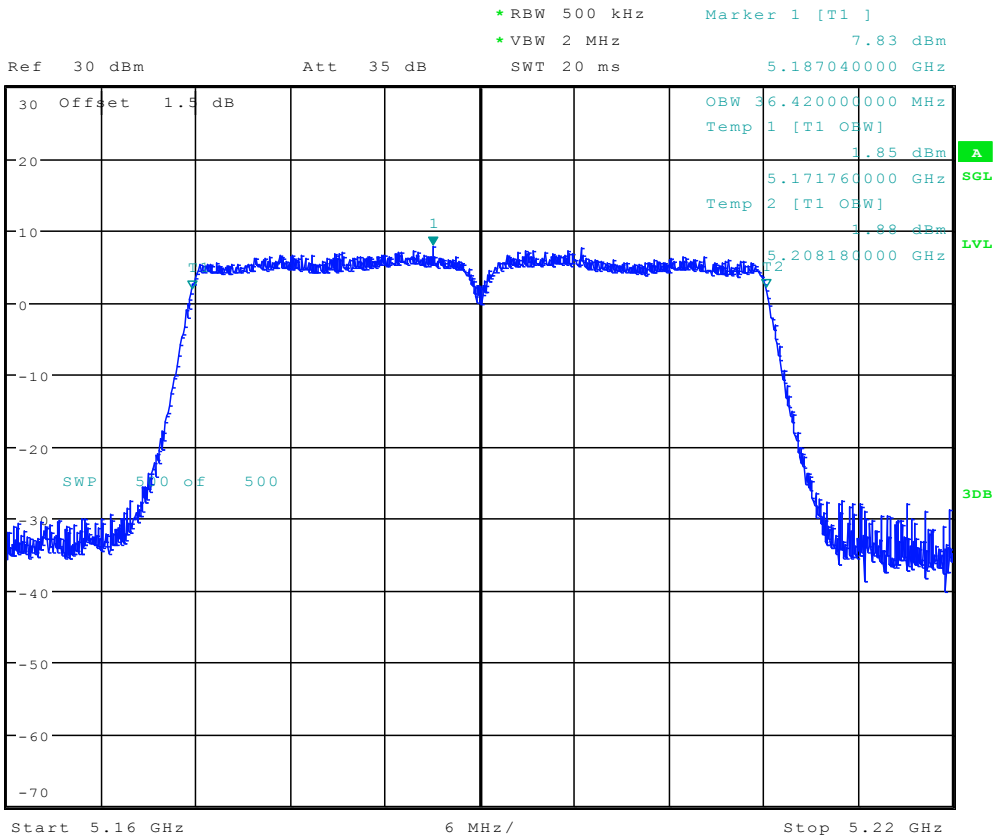
4.19 11N40_38 ANT 1



Date: 9.FEB.2017 11:26:50

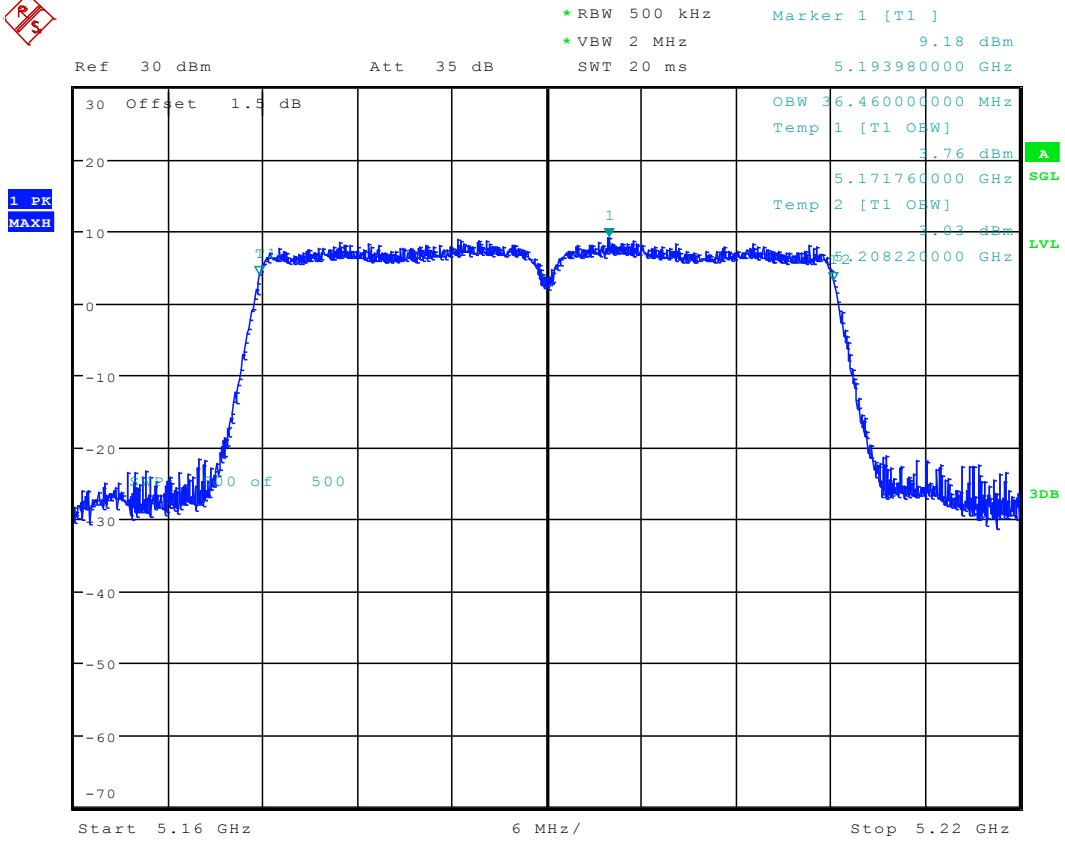


4.20 11N40_38 ANT 2



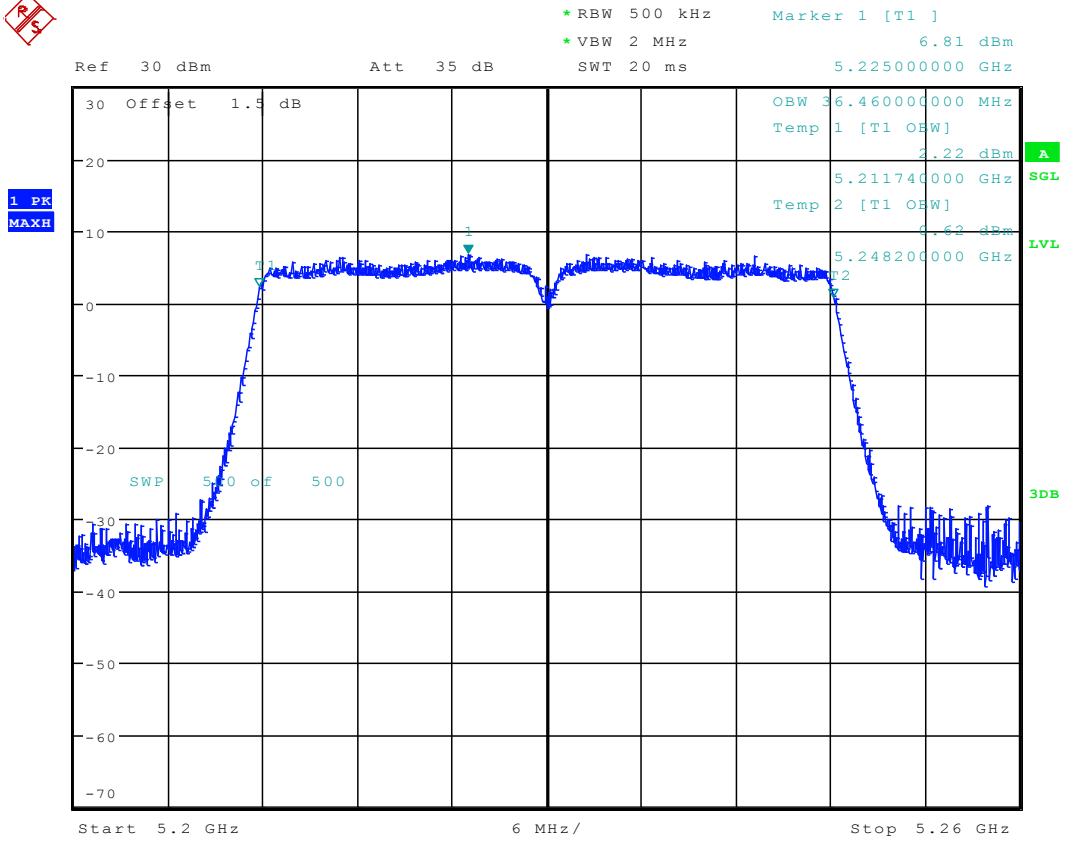
Date: 9.FEB.2017 16:16:39

4.21 11N40_38 ANT 3



Date: 9.FEB.2017 19:49:55

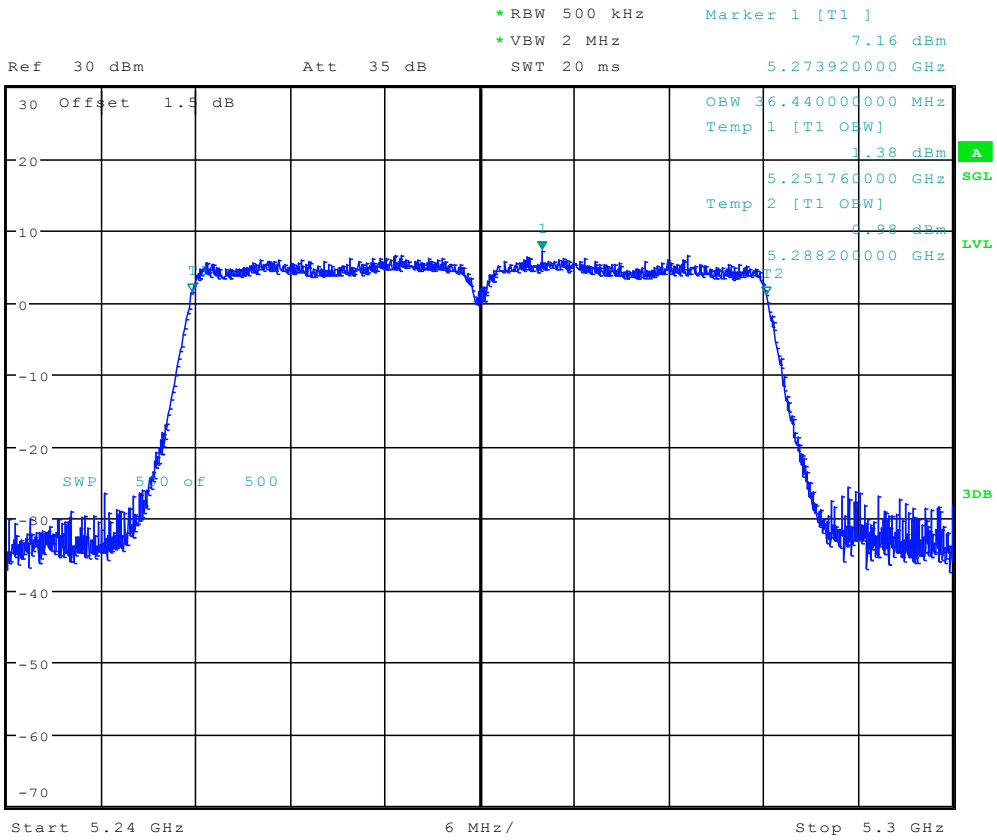
4.22 11N40_46 ANT 1



Date: 9.FEB.2017 11:34:02

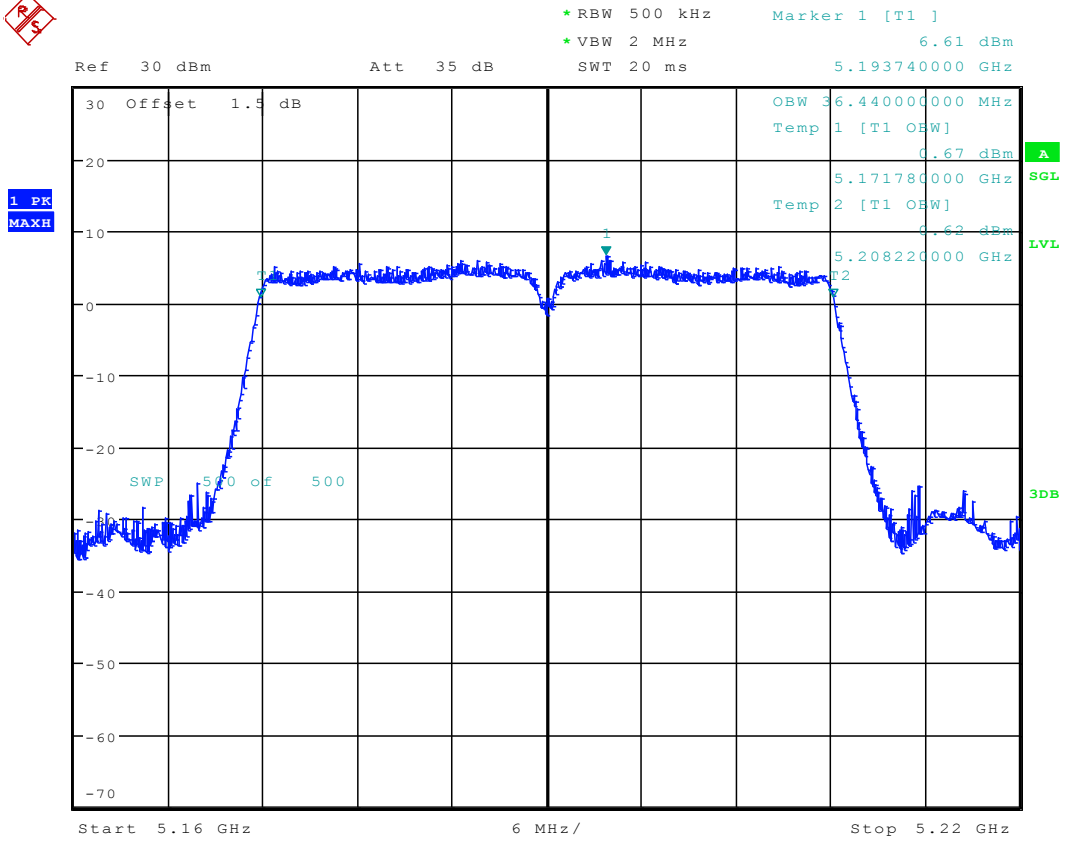


4.23 11N40_46 ANT 2



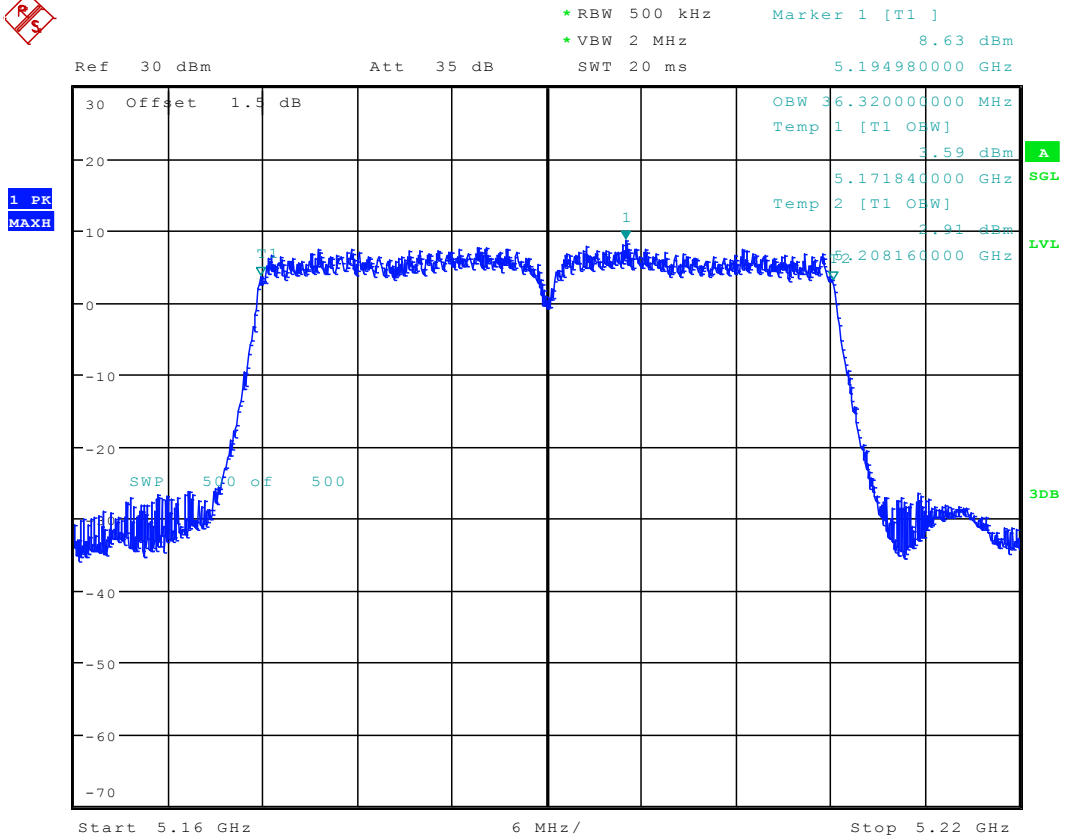
Date: 9.FEB.2017 11:40:37

4.25 11N40MIMO_38 ANT 1



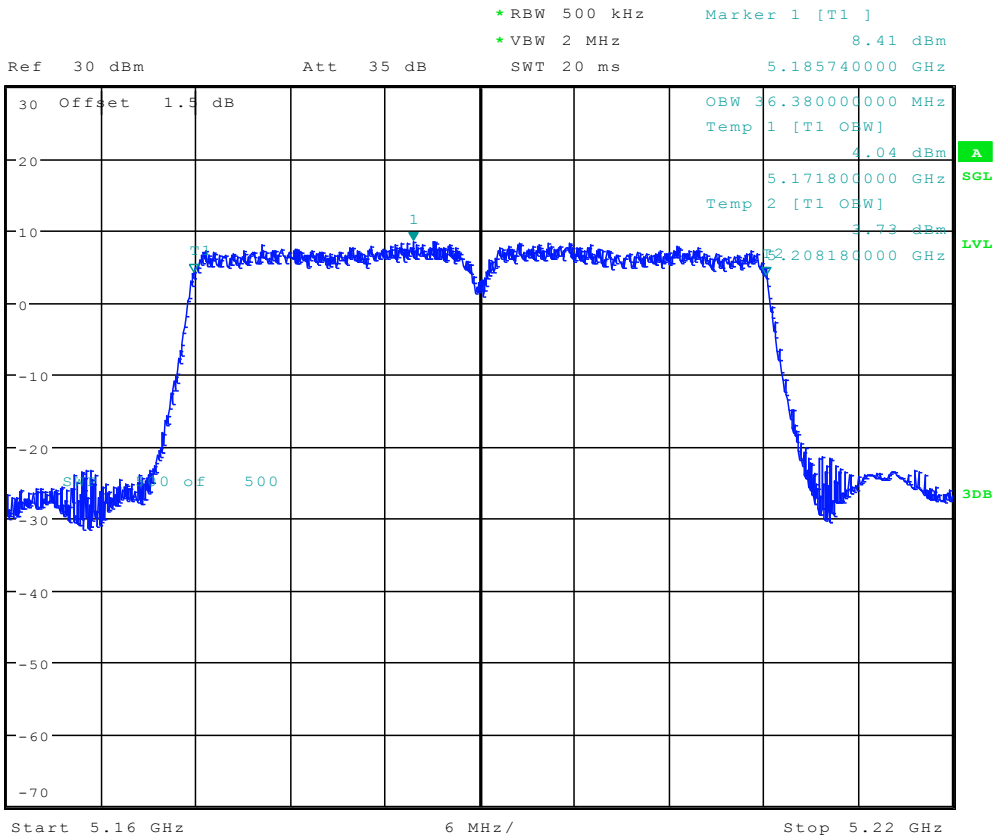
Date: 11.FEB.2017 18:49:06

4.26 11N40MIMO_38 ANT 2



Date: 11.FEB.2017 17:33:18

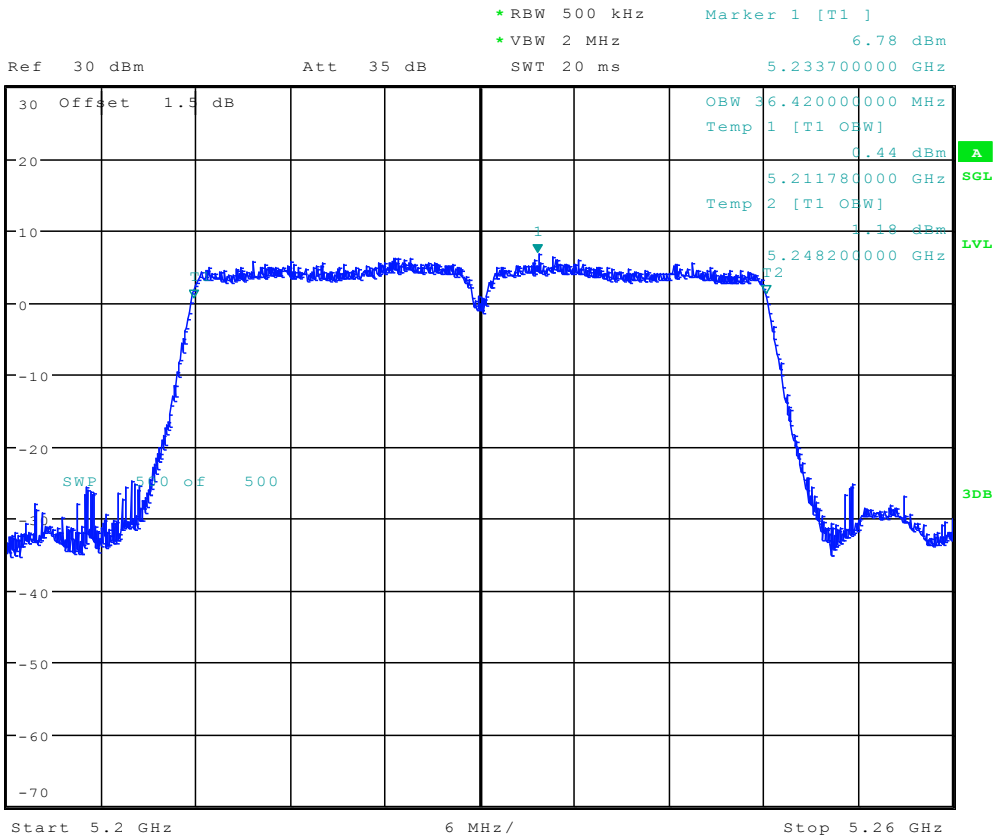
4.27 11N40MIMO_38 ANT 3



Date: 11.FEB.2017 16:51:04



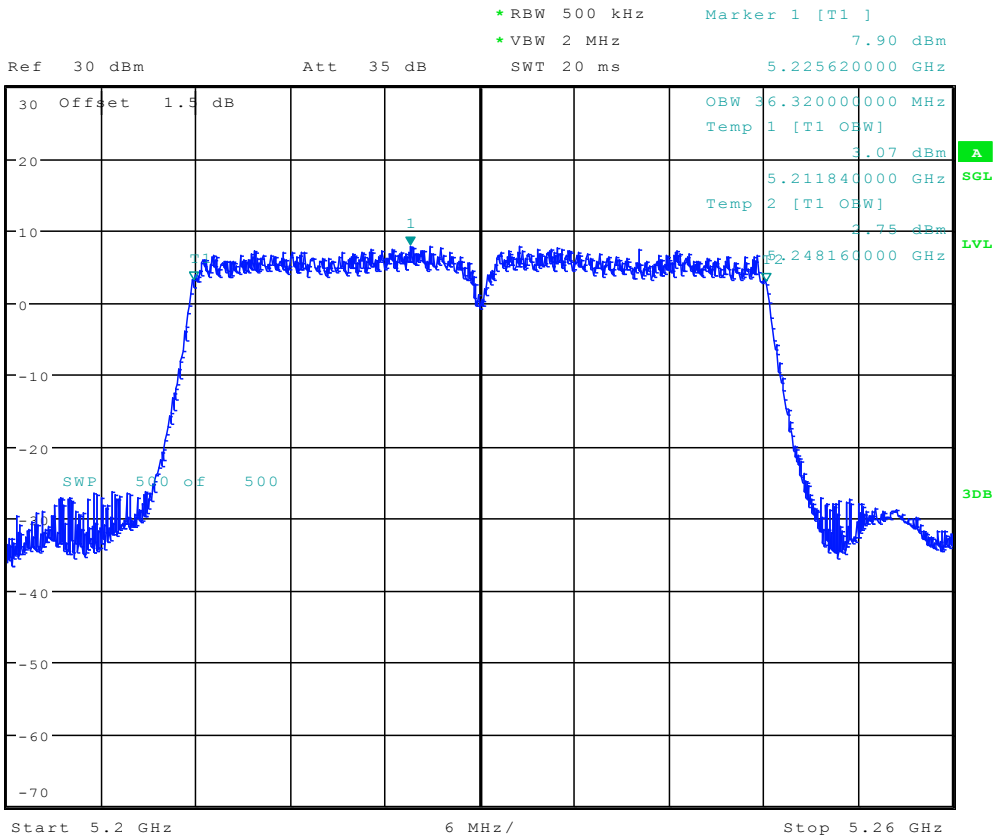
4.28 11N40MIMO_46 ANT 1



Date: 11.FEB.2017 18:54:14

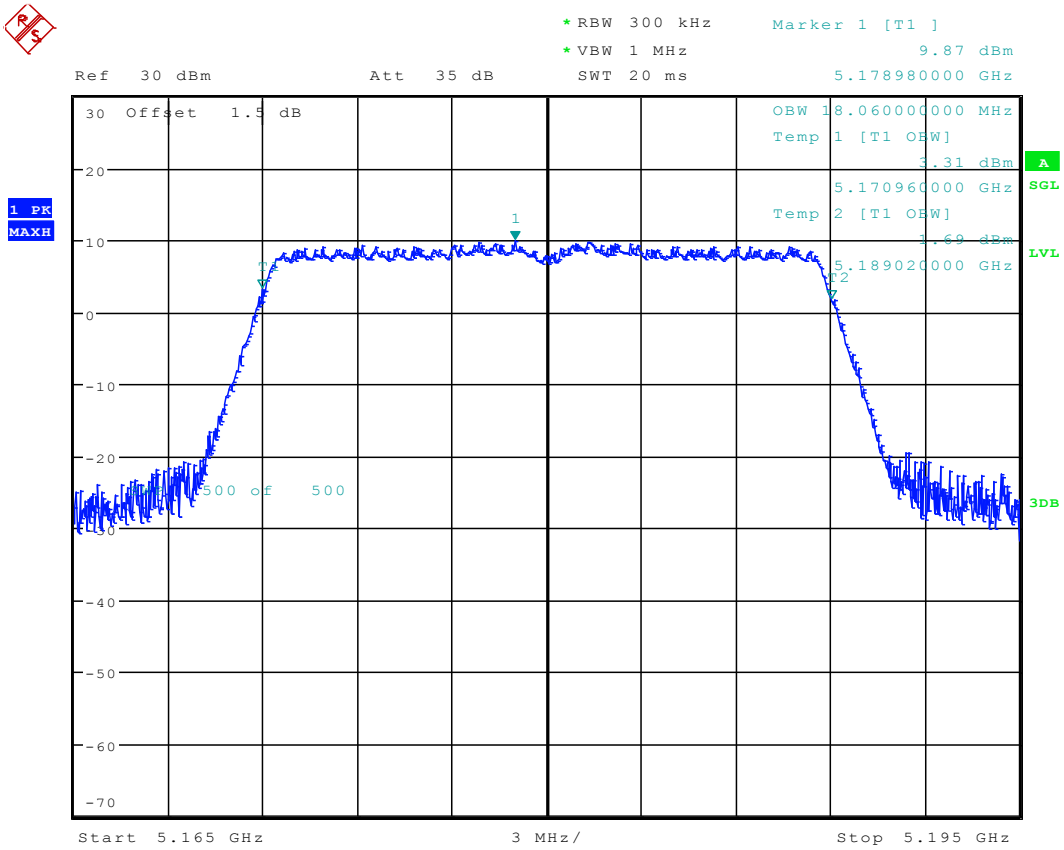


4.29 11N40MIMO_46 ANT 2



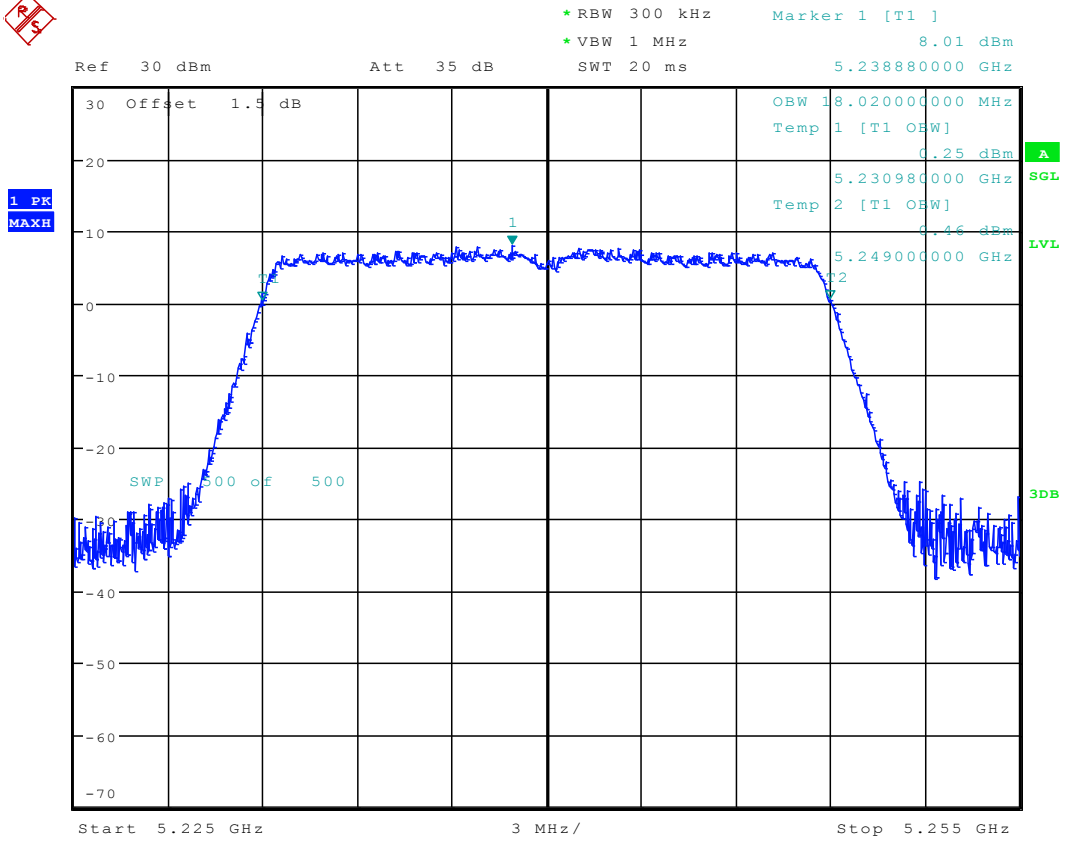
Date: 11.FEB.2017 17:38:40

4.33 11AC20_36 ANT 3



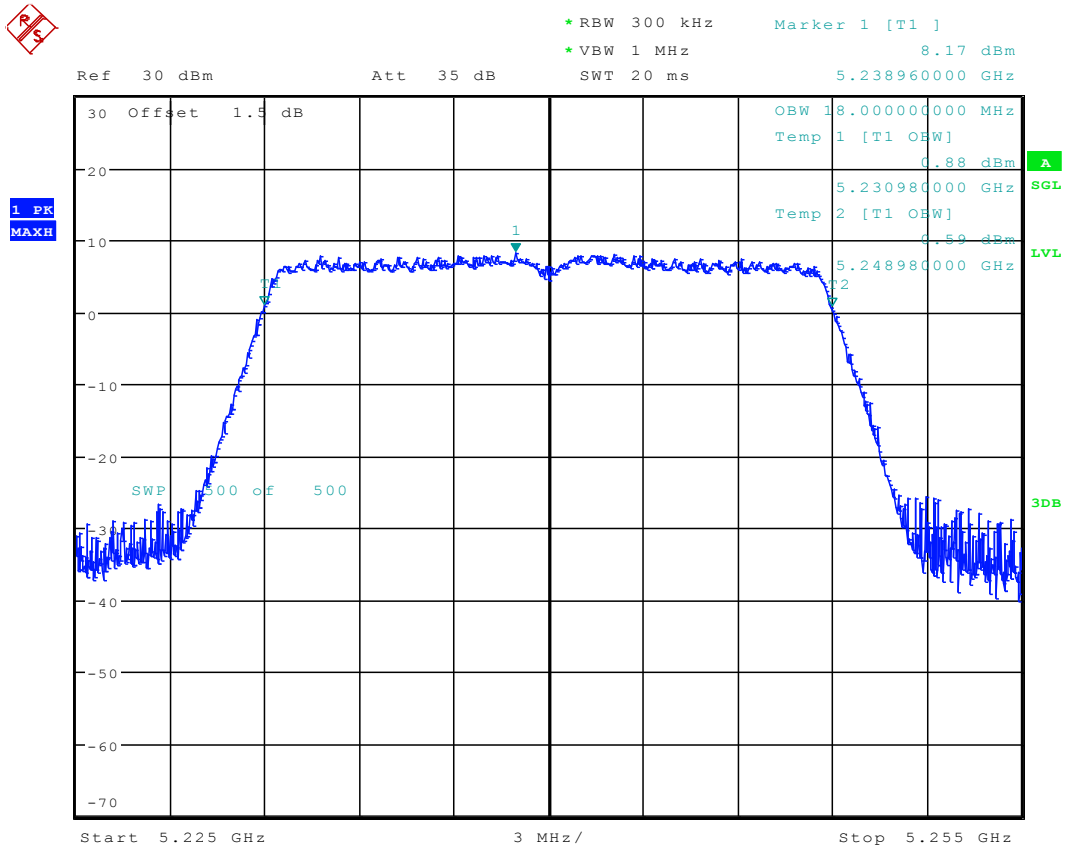
Date: 9.FEB.2017 19:28:23

4.34 11AC20_48 ANT 1



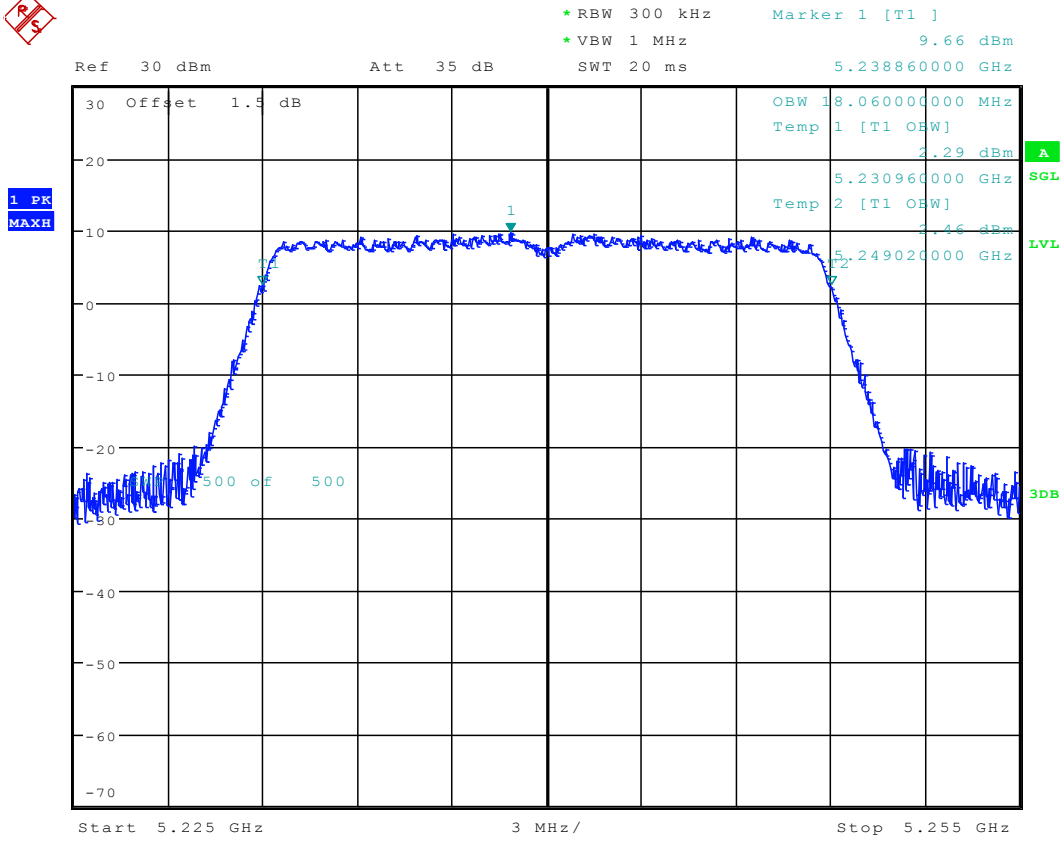
Date: 9.FEB.2017 10:45:39

4.35 11AC20_48 ANT 2



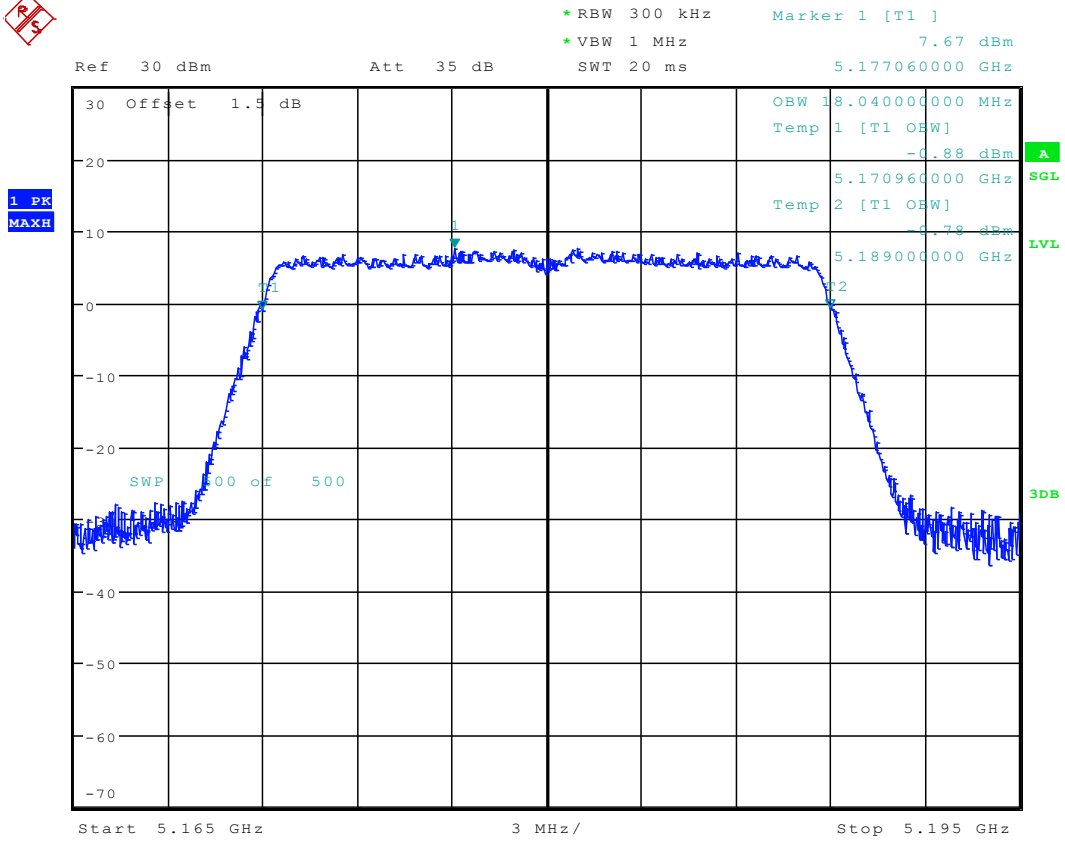
Date: 9.FEB.2017 16:01:34

4.36 11AC20_48 ANT 3



Date: 9.FEB.2017 19:35:52

4.37 11AC20MIMO_36 ANT 1



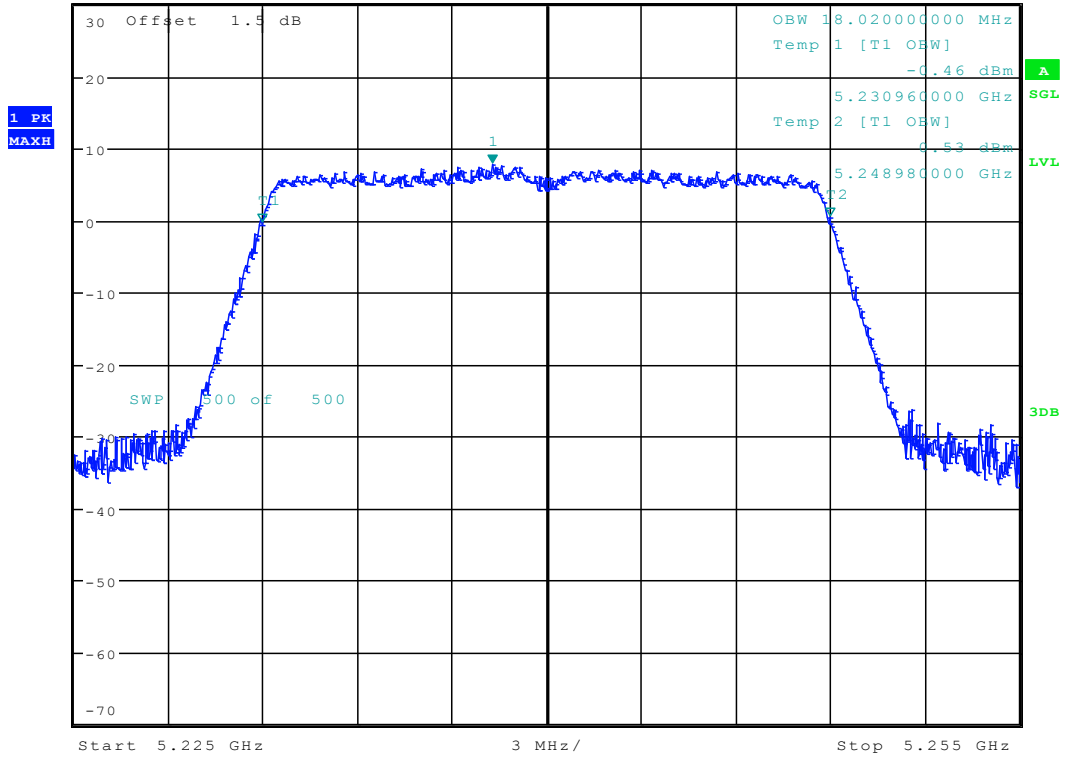
Date: 13.FEB.2017 09:47:39



4.40 11AC20MIMO_48 ANT 1



*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 7.94 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.238260000 GHz



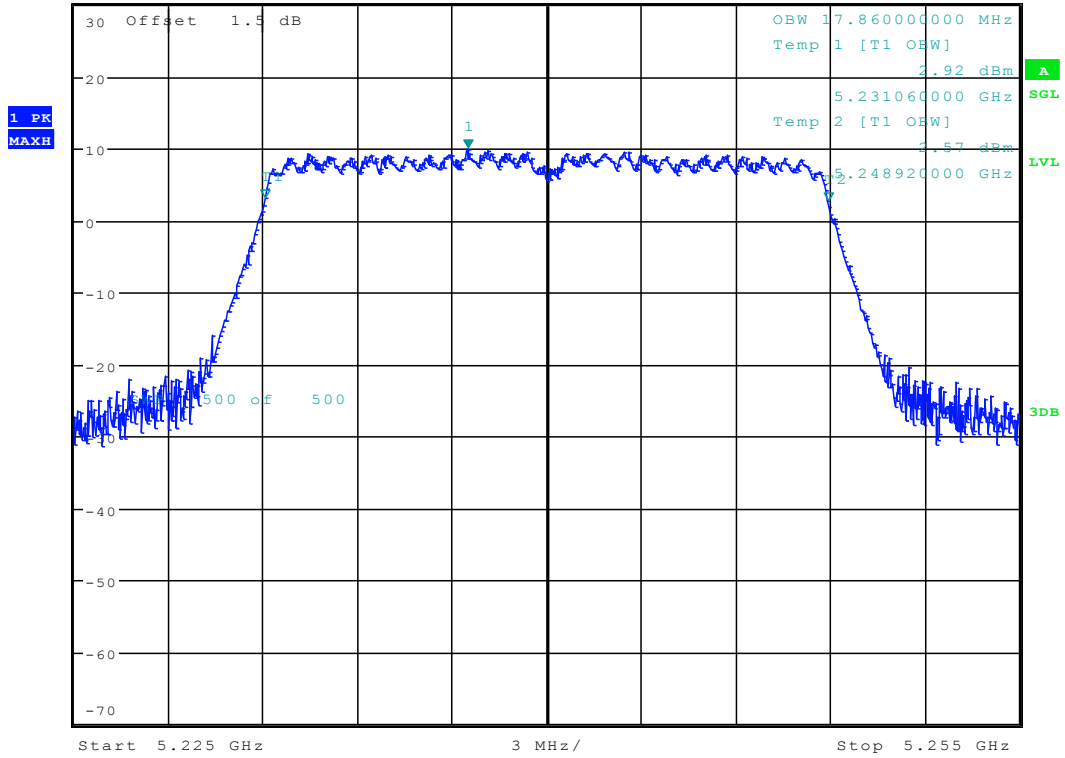
Date: 13.FEB.2017 09:52:59



4.42 11AC20MIMO_48 ANT 3



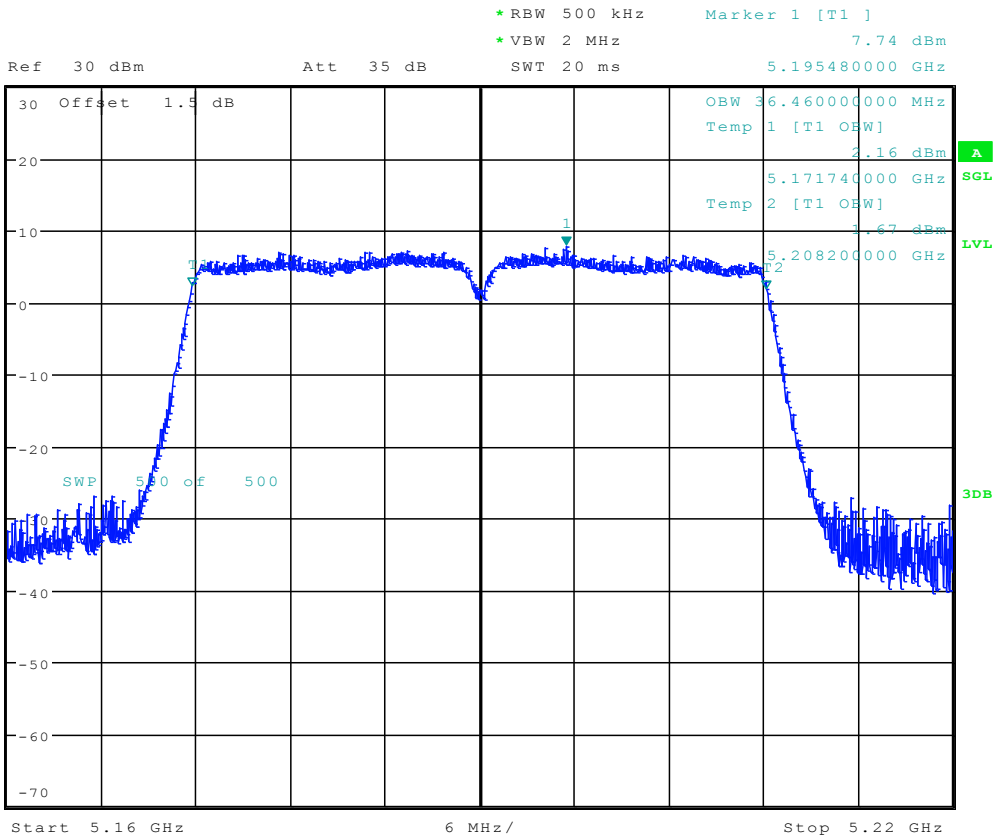
*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 9.98 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.237480000 GHz



Date: 14.FEB.2017 15:27:29

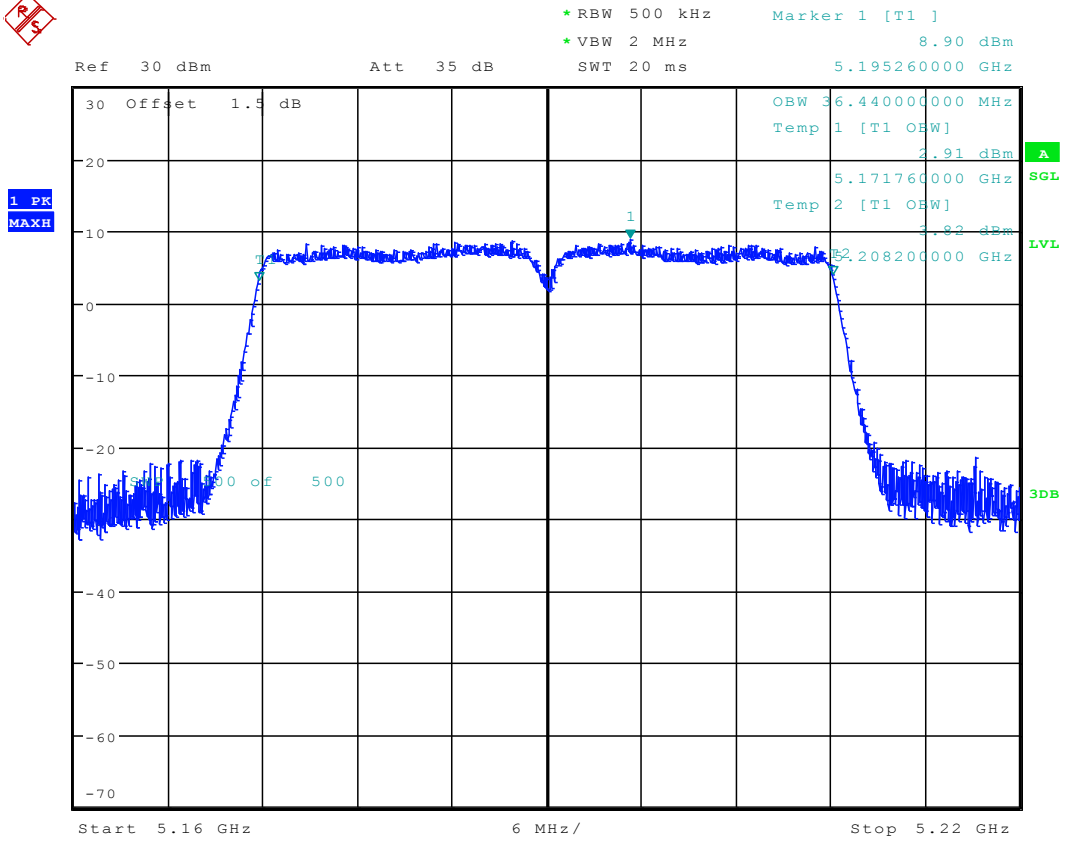


4.44 11AC40_38 ANT 2



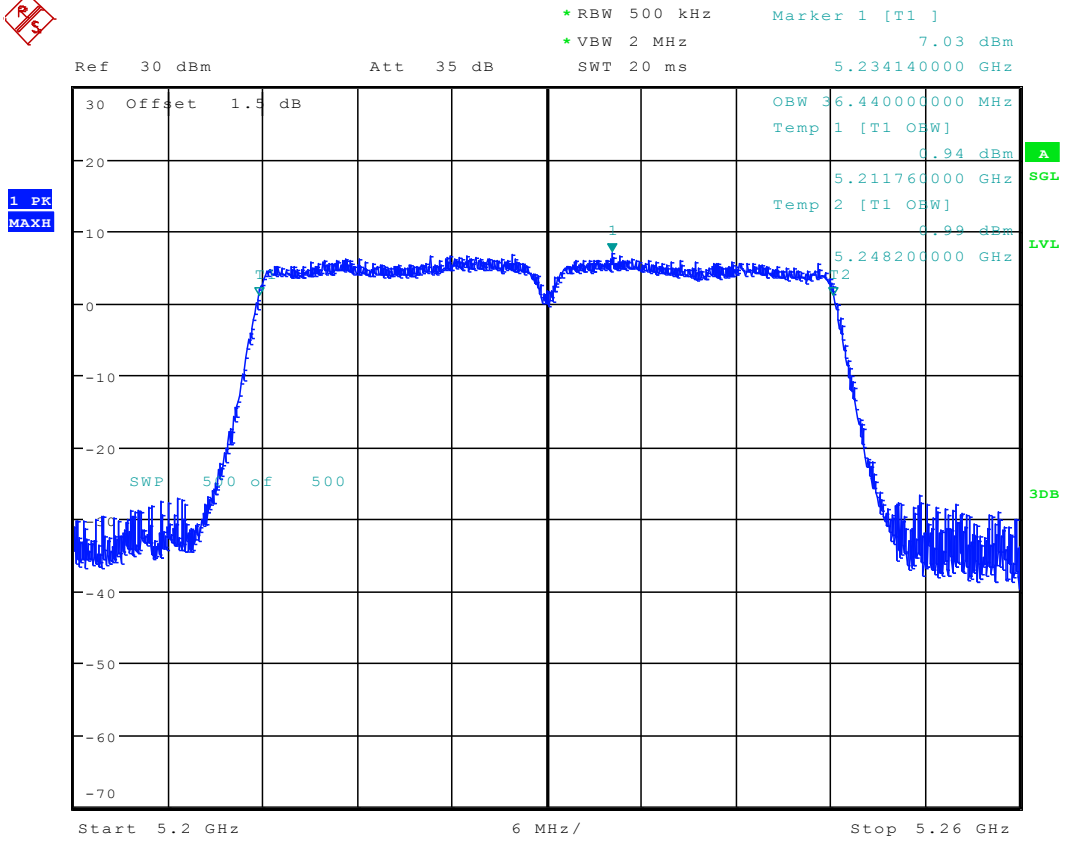
Date: 9.FEB.2017 16:30:48

4.45 11AC40_38 ANT 3



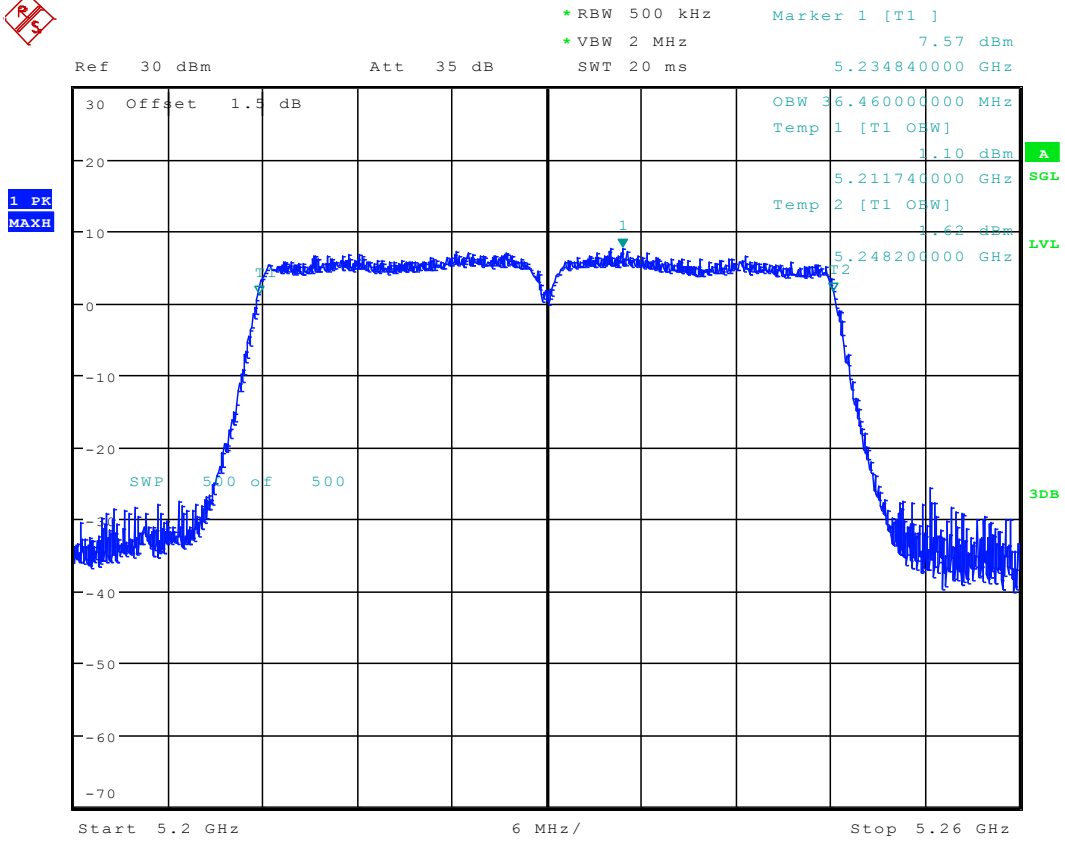
Date: 9.FEB.2017 20:04:18

4.46 11AC40_46 ANT 1



Date: 9.FEB.2017 12:20:14

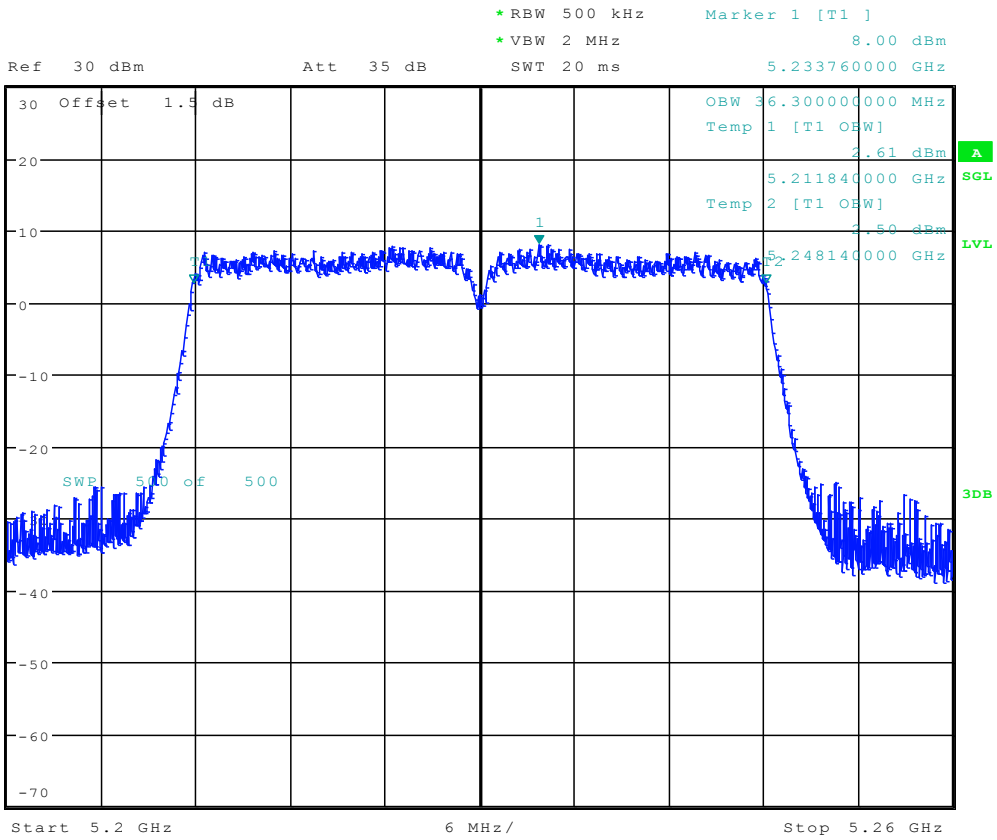
4.47 11AC40_46 ANT 2



Date: 9.FEB.2017 16:36:10



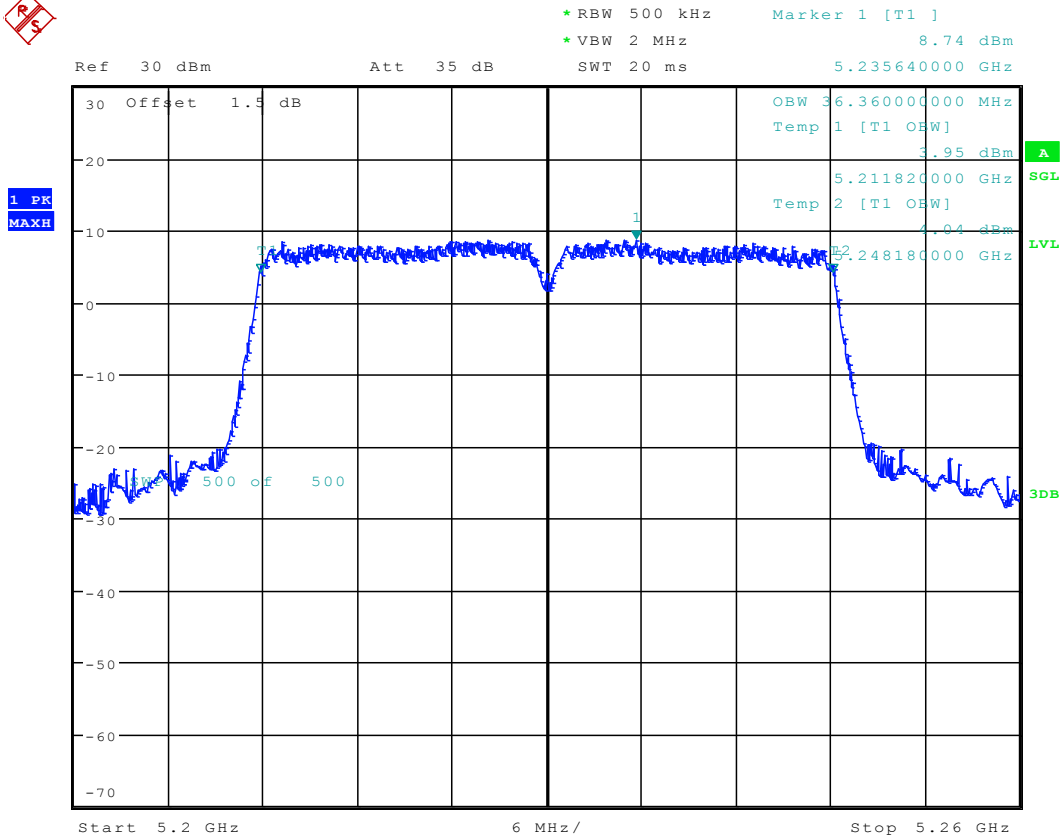
4.53 11AC40MIMO_46 ANT 2



Date: 11.FEB.2017 18:04:32



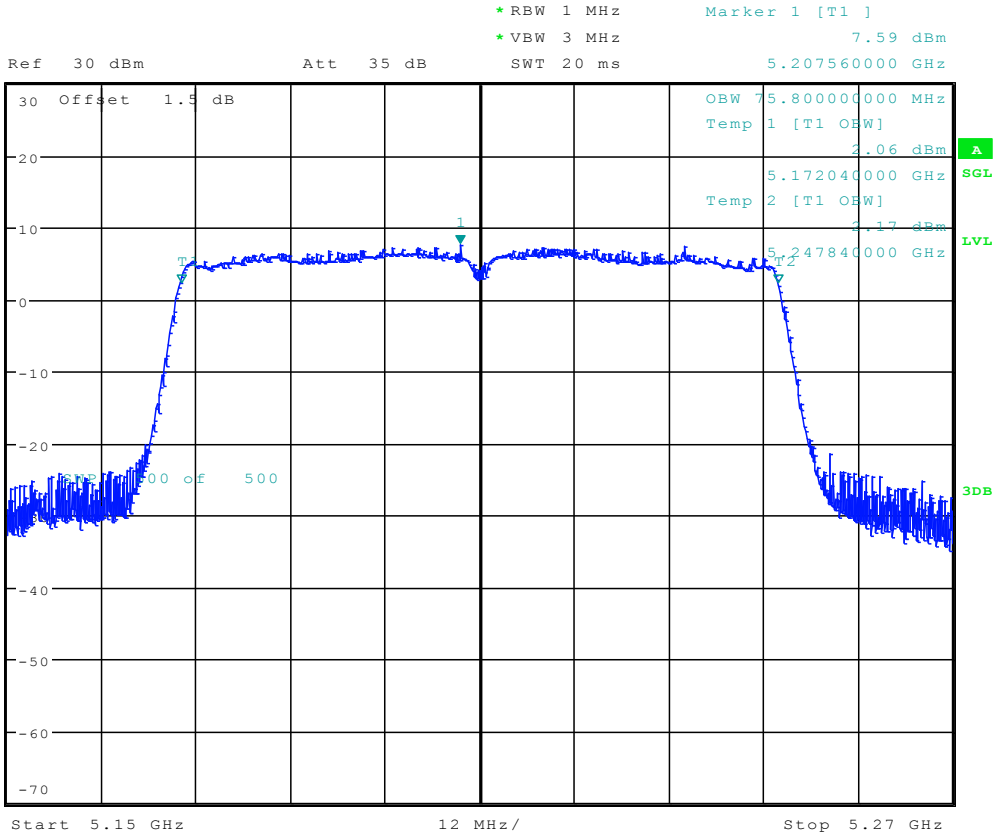
4.54 11AC40MIMO_46 ANT 3



Date: 14.FEB.2017 15:52:35



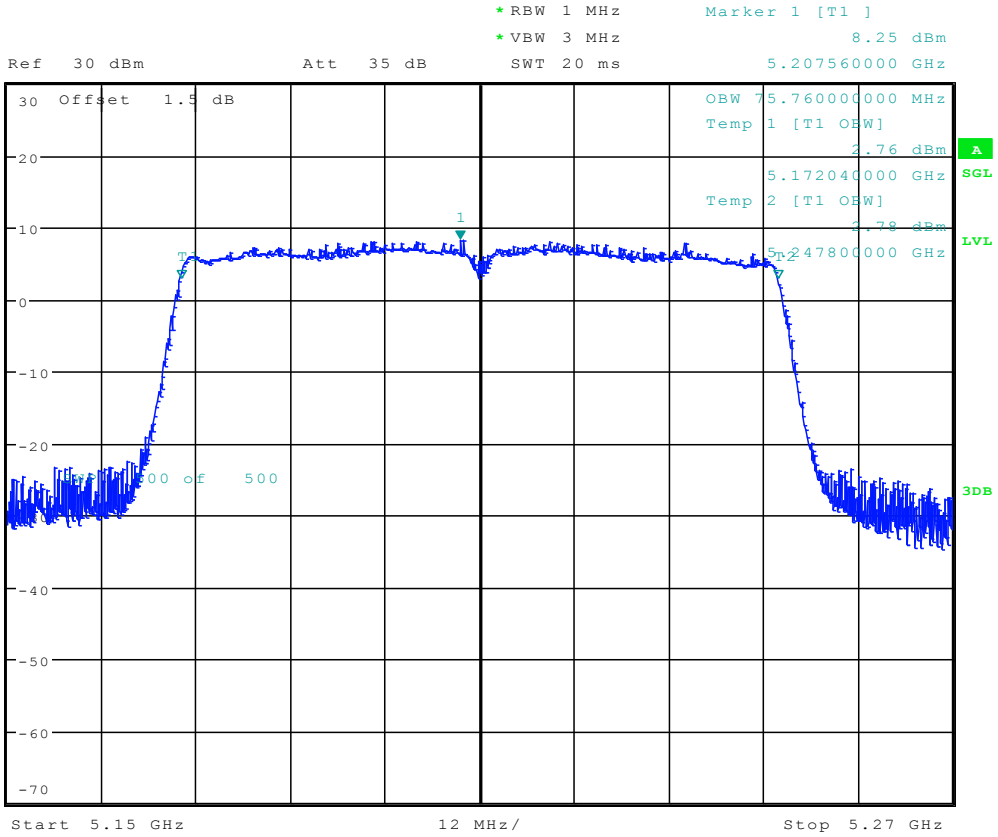
4.55 11AC80_42 ANT 1



Date: 9.FEB.2017 12:57:34



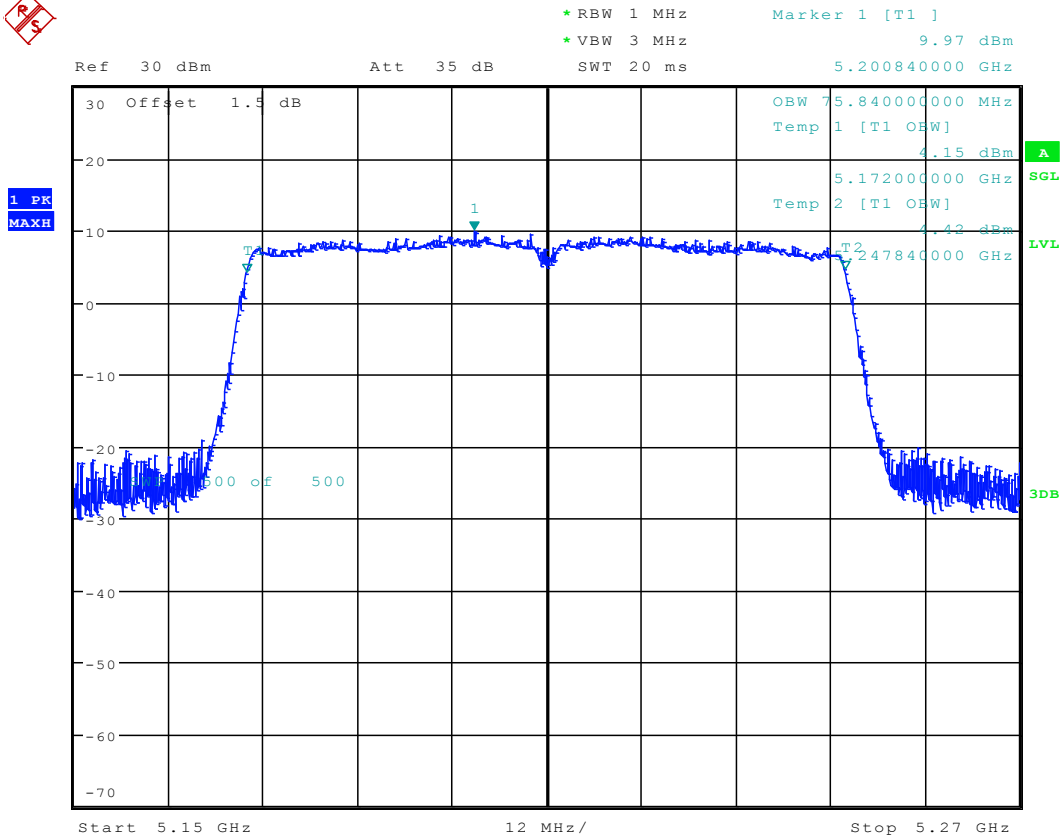
4.56 11AC80_42 ANT 2



Date: 9.FEB.2017 16:45:11

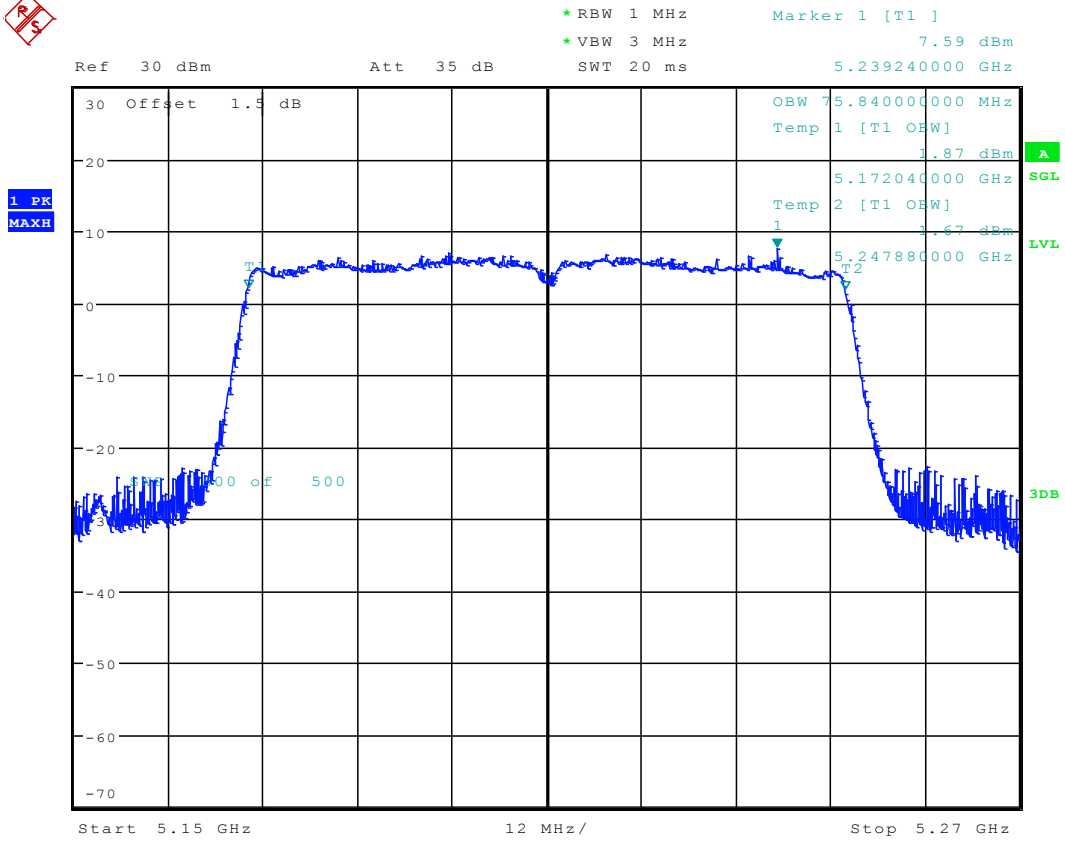


4.57 11AC80_42 ANT 3



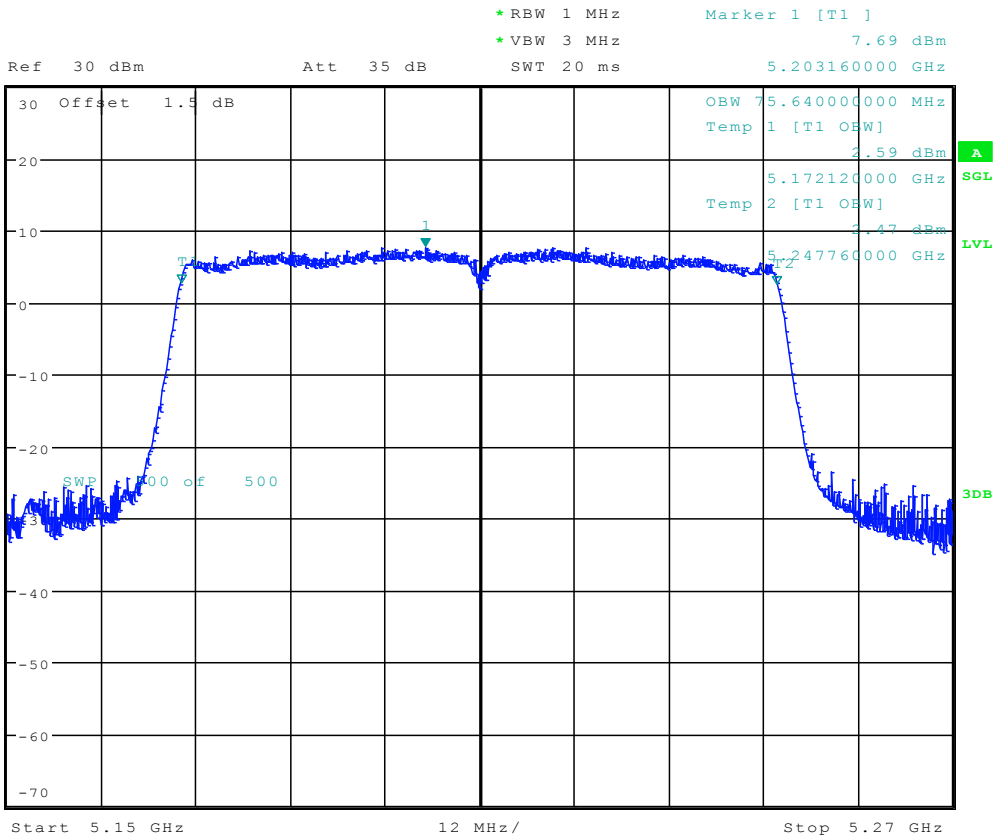
Date: 9.FEB.2017 20:31:01

4.58 11AC80MIMO_42 ANT 1



Date: 13.FEB.2017 10:27:27

4.59 11AC80MIMO_42 ANT 2



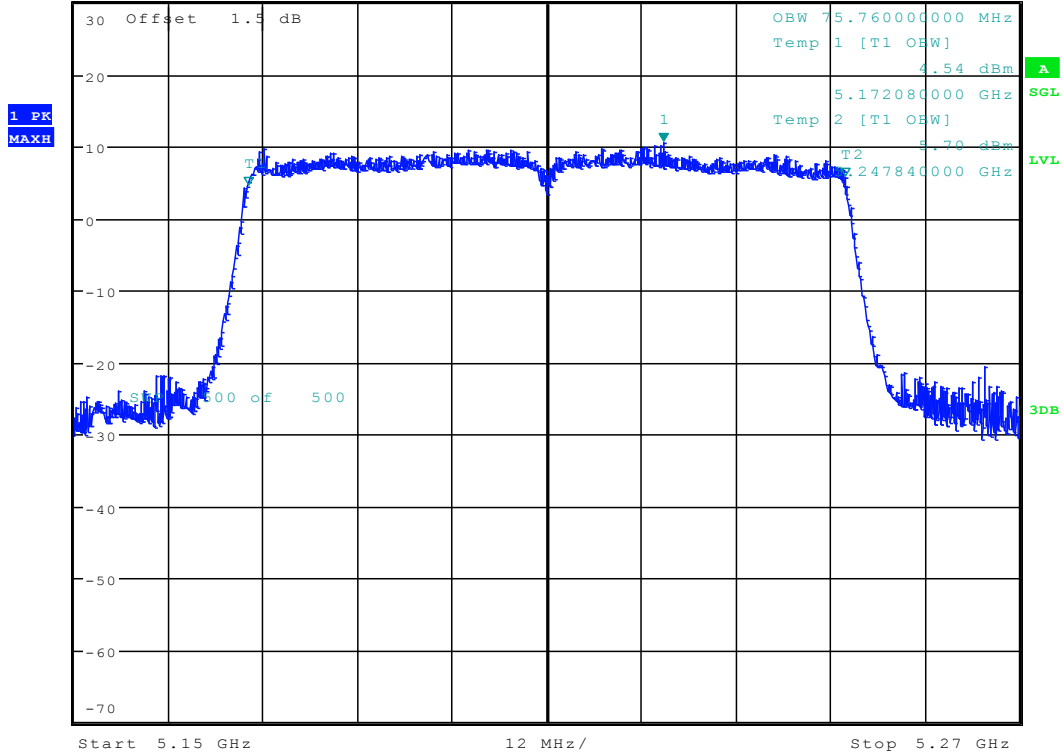
Date: 11.FEB.2017 18:13:28



4.60 11AC80MIMO_42 ANT 3



* RBW 1 MHz Marker 1 [T1]
 * VBW 3 MHz 10.48 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.224720000 GHz



Date: 14.FEB.2017 16:02:47



Appendix C: Duty Cycle

5 Part I - Test Results

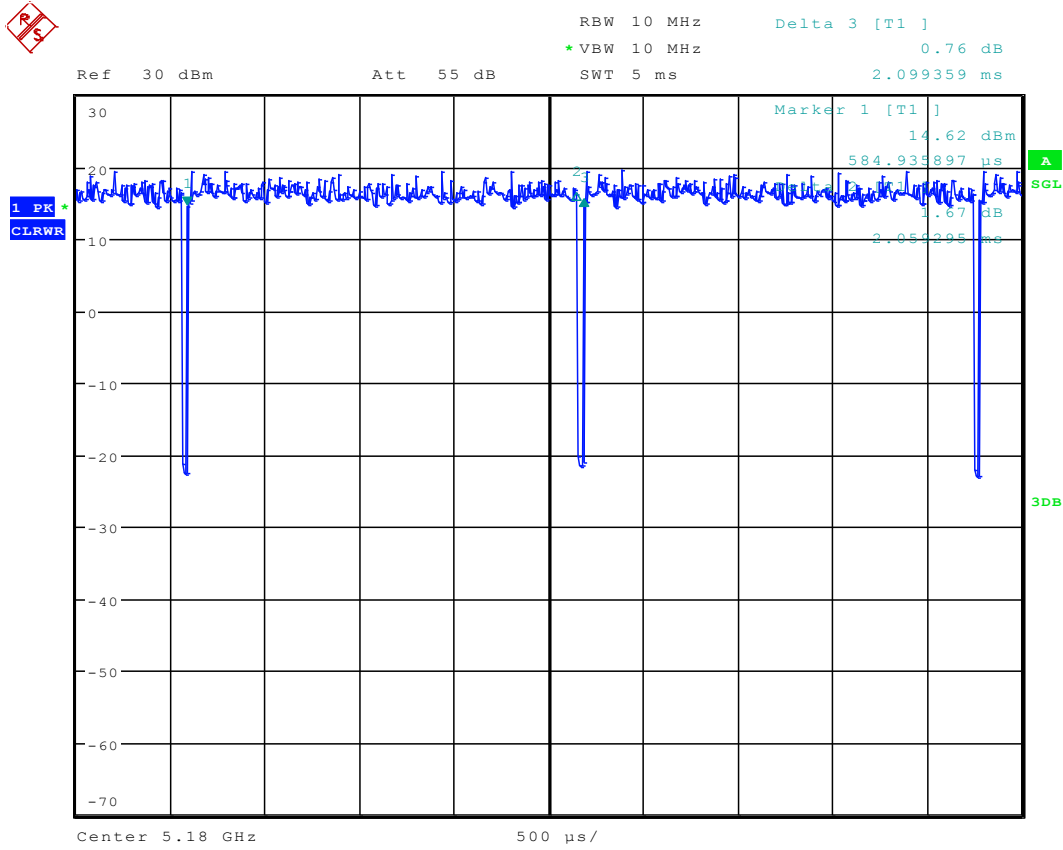
| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Duty cycle [%] |
|-----------|--------------|-----------------|--------------|----------------|
| 11A | 36, | 5180 | Ant 1 | 98 |
| 11A | 48 | 5240 | Ant 1 | 98 |
| 11A | 36, | 5180 | Ant 2 | 98 |
| 11A | 48 | 5240 | Ant 2 | 98 |
| 11A | 36, | 5180 | Ant 3 | 98 |
| 11A | 48 | 5240 | Ant 3 | 98 |
| 11N20 | 36 | 5180 | Ant 1 | 98 |
| 11N20 | 48 | 5240 | Ant 1 | 98 |
| 11N20 | 36 | 5180 | Ant 2 | 98 |
| 11N20 | 48 | 5240 | Ant 2 | 98 |
| 11N20 | 36 | 5180 | Ant 3 | 98 |
| 11N20 | 48 | 5240 | Ant 3 | 98 |
| 11N20M | 36 | 5180 | Ant 1 | 96 |
| 11N20M | 48 | 5240 | Ant 1 | 96 |
| 11N20M | 36 | 5180 | Ant 2 | 96 |
| 11N20M | 48 | 5240 | Ant 2 | 96 |
| 11N20M | 36 | 5180 | Ant 3 | 96 |
| 11N20M | 48 | 5240 | Ant 3 | 96 |
| 11N40 | 38 | 5190 | Ant 1 | 96 |
| 11N40 | 46 | 5230 | Ant 1 | 96 |
| 11N40 | 38 | 5190 | Ant 2 | 96 |
| 11N40 | 46 | 5230 | Ant 2 | 96 |
| 11N40 | 38 | 5190 | Ant 3 | 96 |
| 11N40 | 46 | 5230 | Ant 3 | 96 |
| 11N40M | 38 | 5190 | Ant 1 | 93 |
| 11N40M | 46 | 5230 | Ant 1 | 93 |
| 11N40M | 38 | 5190 | Ant 2 | 92 |
| 11N40M | 46 | 5230 | Ant 2 | 92 |
| 11N40M | 38 | 5190 | Ant 3 | 92 |
| 11N40M | 46 | 5230 | Ant 3 | 92 |
| 11AC20 | 36 | 5180 | Ant 1 | 98 |
| 11AC20 | 48 | 5240 | Ant 1 | 98 |
| 11AC20 | 36 | 5180 | Ant 2 | 98 |
| 11AC20 | 48 | 5240 | Ant 2 | 98 |

| | | | | |
|---------|----|------|-------|----|
| 11AC20 | 36 | 5180 | Ant 3 | 98 |
| 11AC20 | 48 | 5240 | Ant 3 | 98 |
| 11AC20M | 36 | 5180 | Ant 1 | 97 |
| 11AC20M | 48 | 5240 | Ant 1 | 97 |
| 11AC20M | 36 | 5180 | Ant 2 | 97 |
| 11AC20M | 48 | 5240 | Ant 2 | 97 |
| 11AC20M | 36 | 5180 | Ant 3 | 97 |
| 11AC20M | 48 | 5240 | Ant 3 | 97 |
| 11AC40 | 38 | 5190 | Ant 1 | 96 |
| 11AC40 | 46 | 5230 | Ant 1 | 96 |
| 11AC40 | 38 | 5190 | Ant 2 | 96 |
| 11AC40 | 46 | 5230 | Ant 2 | 96 |
| 11AC40 | 38 | 5190 | Ant 3 | 96 |
| 11AC40 | 46 | 5230 | Ant 3 | 96 |
| 11AC40M | 38 | 5190 | Ant 1 | 95 |
| 11AC40M | 46 | 5230 | Ant 1 | 95 |
| 11AC40M | 38 | 5190 | Ant 2 | 94 |
| 11AC40M | 46 | 5230 | Ant 2 | 94 |
| 11AC40M | 38 | 5190 | Ant 3 | 92 |
| 11AC40M | 46 | 5230 | Ant 3 | 92 |
| 11AC80 | 42 | 5210 | Ant 1 | 92 |
| 11AC80 | 42 | 5210 | Ant 2 | 92 |
| 11AC80 | 42 | 5210 | Ant 3 | 92 |
| 11AC80M | 42 | 5210 | Ant 1 | 90 |
| 11AC80M | 42 | 5210 | Ant 2 | 89 |
| 11AC80M | 42 | 5210 | Ant 3 | 89 |



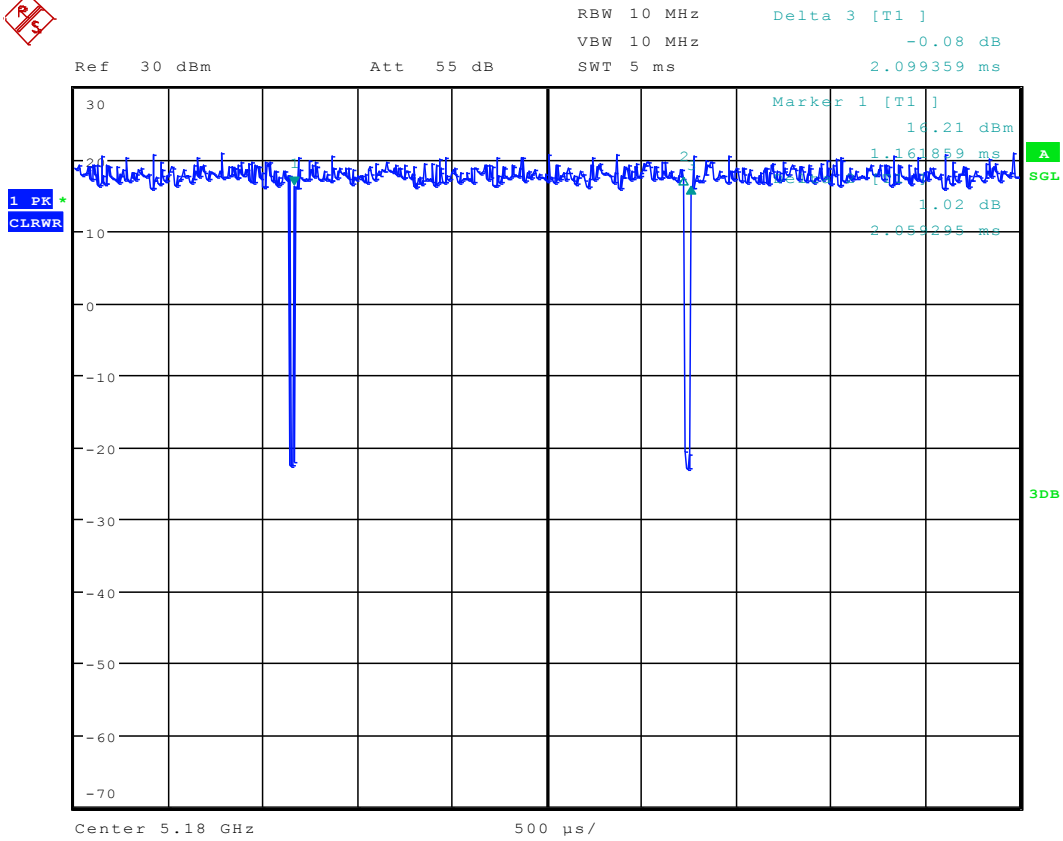
6 Test Plot

6.1 11A Ant 1



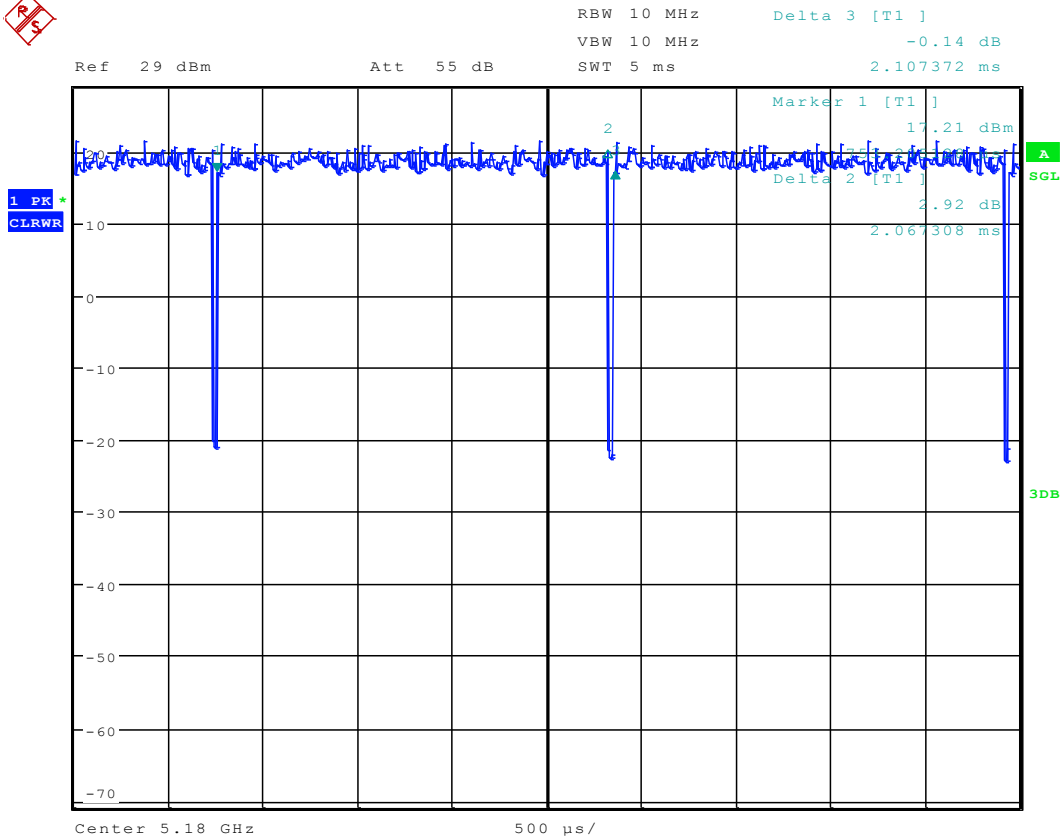
Date: 8.FEB.2017 16:42:15

6.2 11A Ant 2



Date: 9.FEB.2017 14:49:08

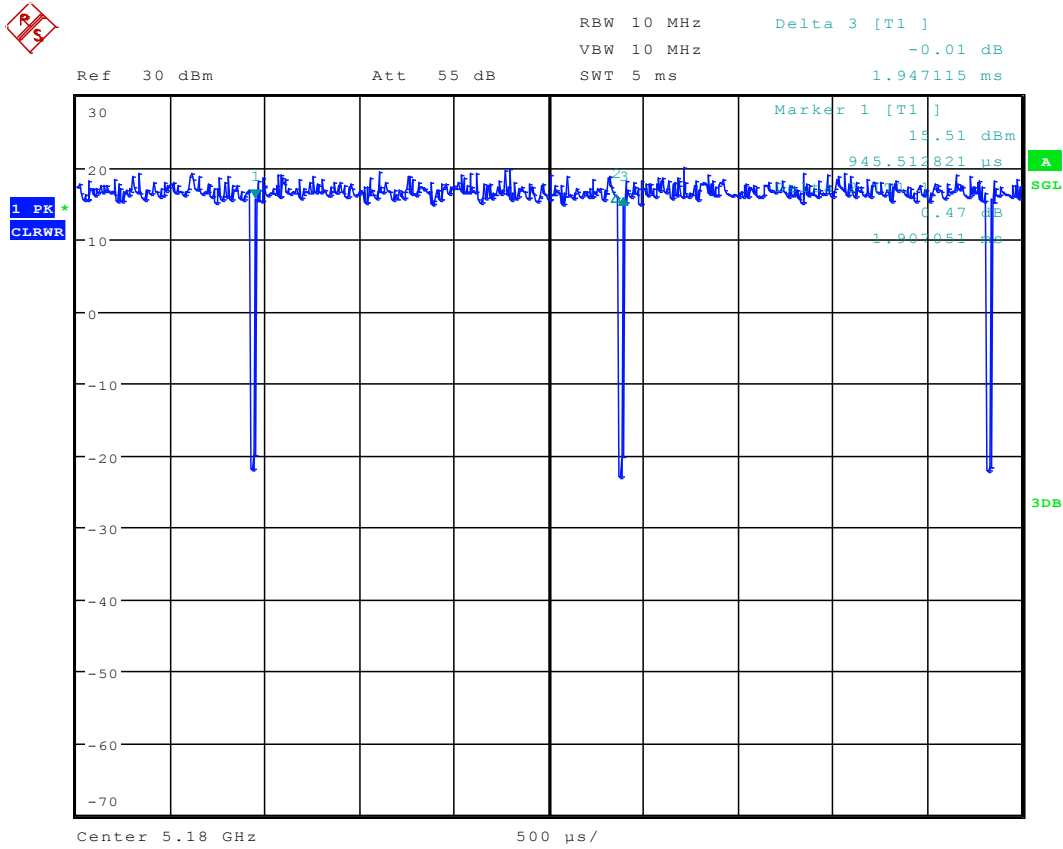
6.3 11A ANT3



Date: 9.FEB.2017 18:05:36

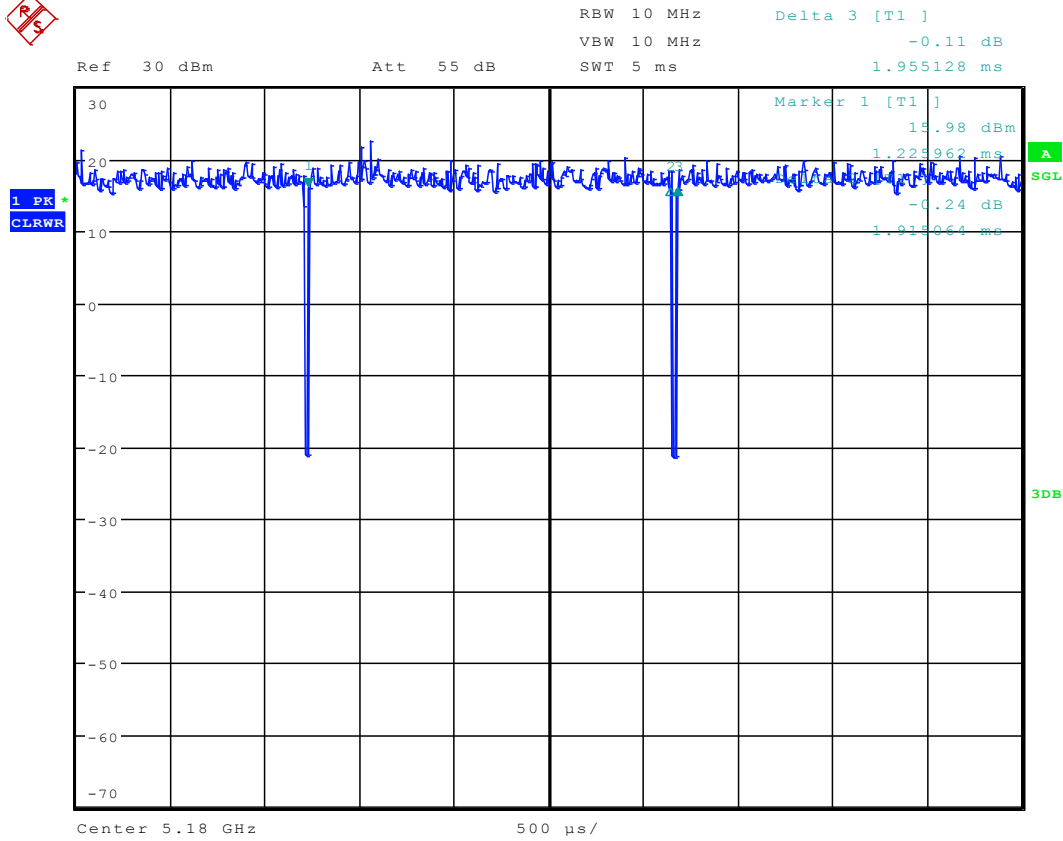


6.4 11n20 Ant 1



Date: 8.FEB.2017 18:22:28

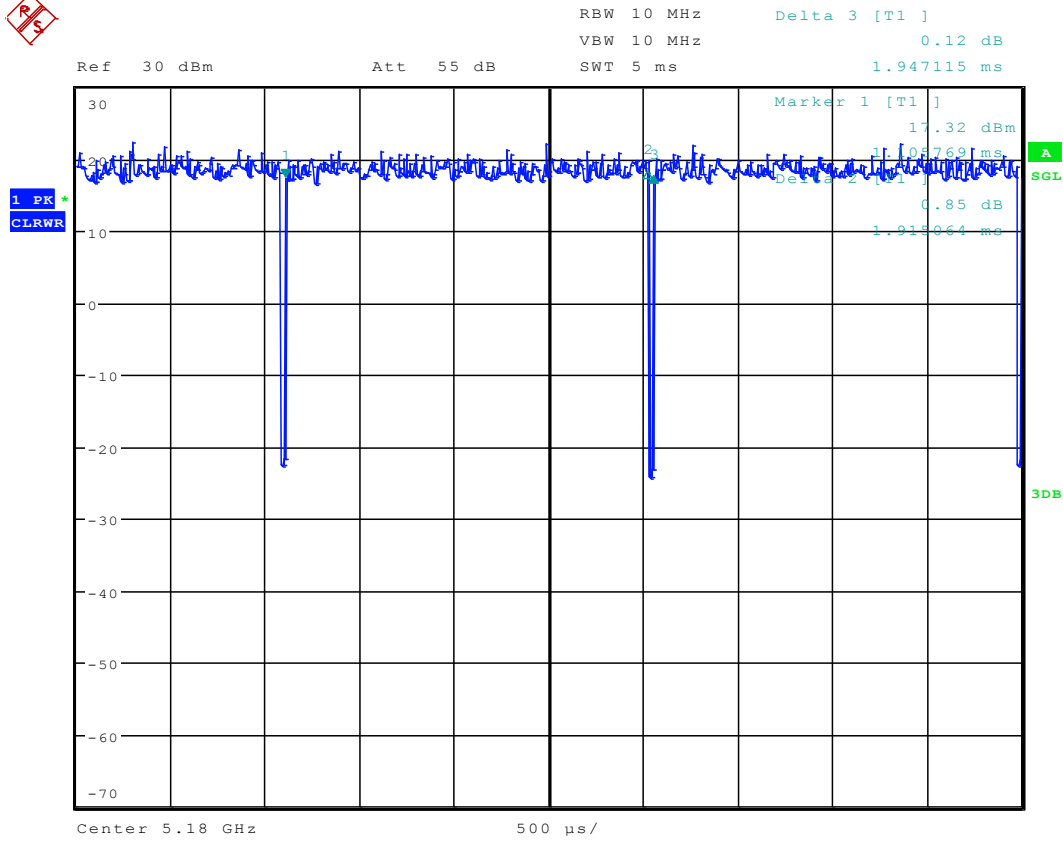
6.5 11n20 Ant 2



Date: 9.FEB.2017 15:34:15



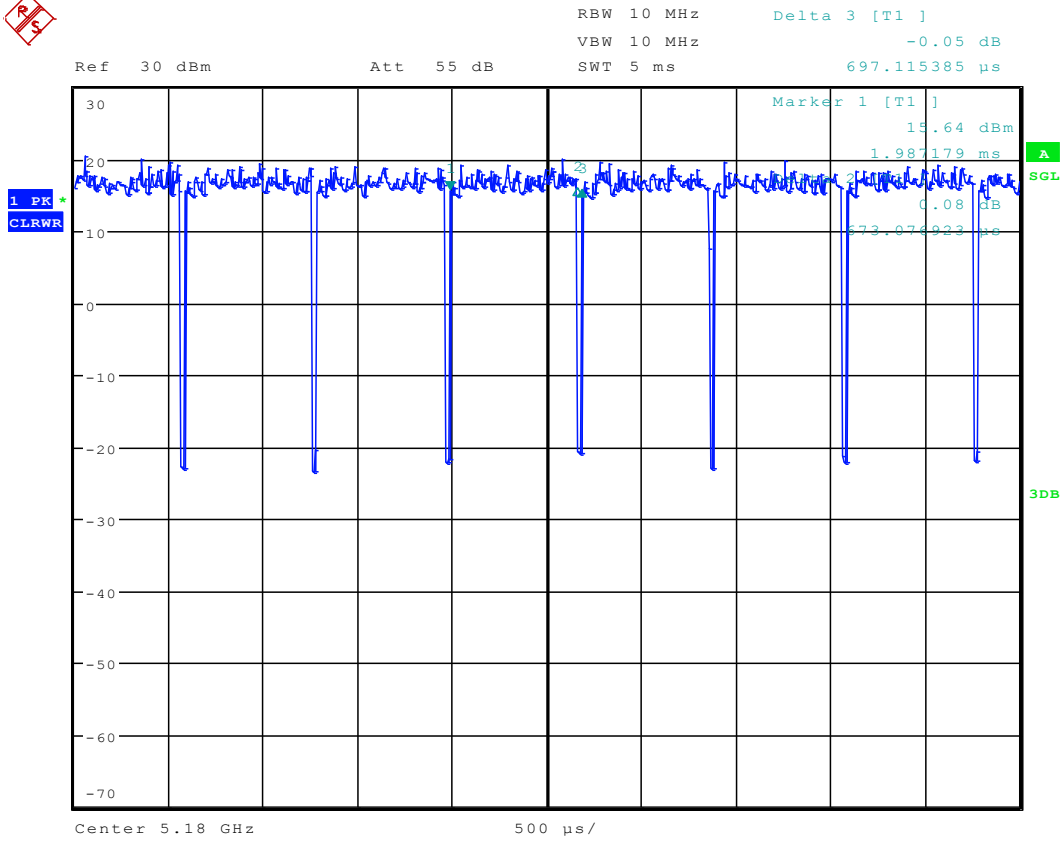
6.6 11n20 Ant 3



Date: 9.FEB.2017 18:31:03

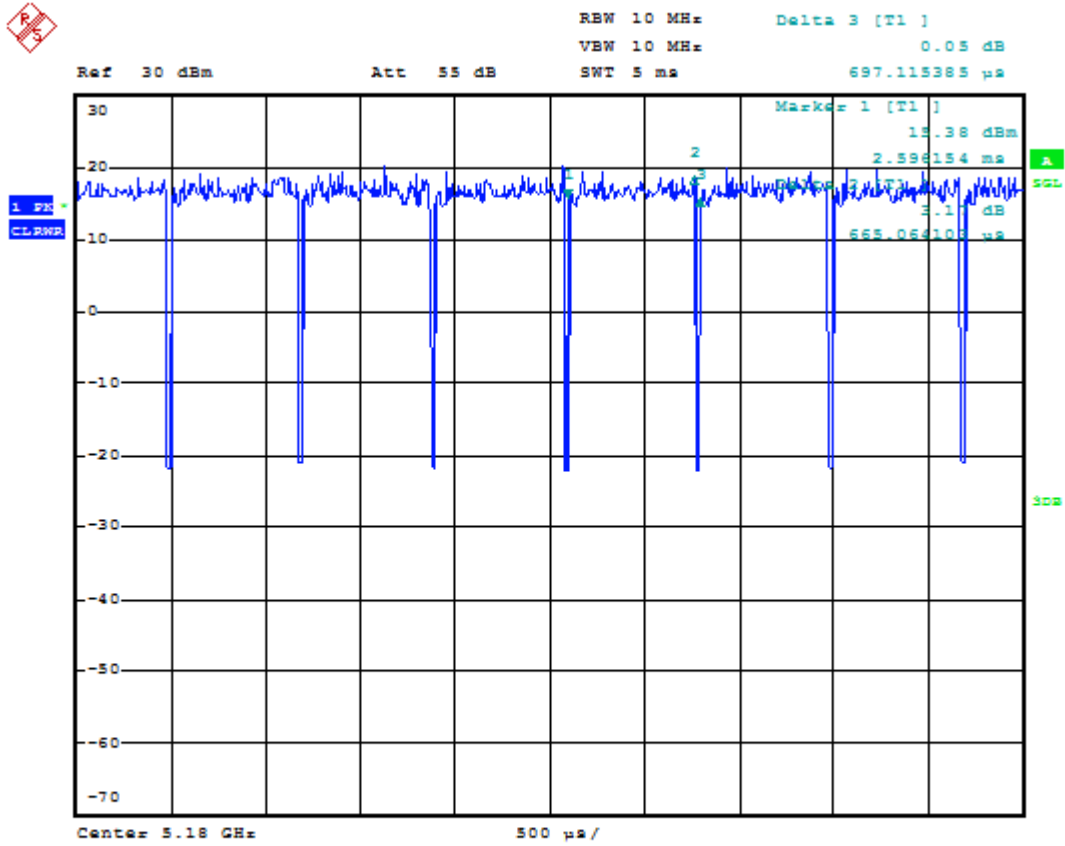


6.7 11n20M Ant 1



Date: 11.FEB.2017 18:30:19

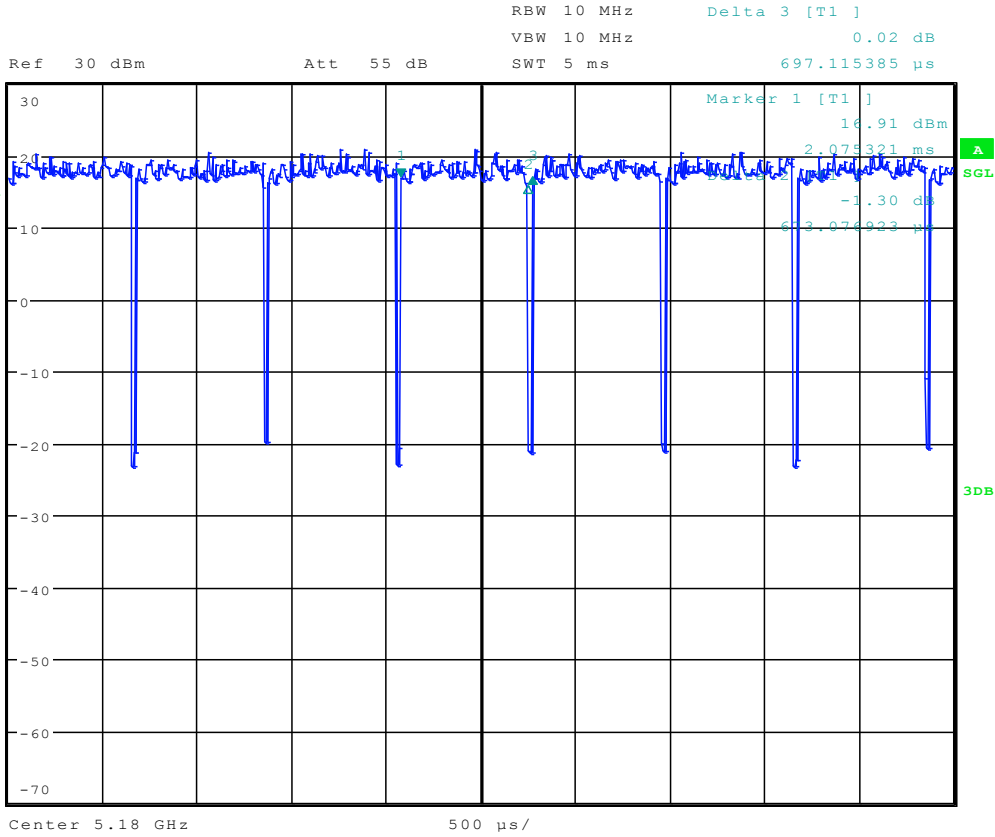
6.8 11n20M Ant 2



Date: 11.FEB.2017 17:09:55

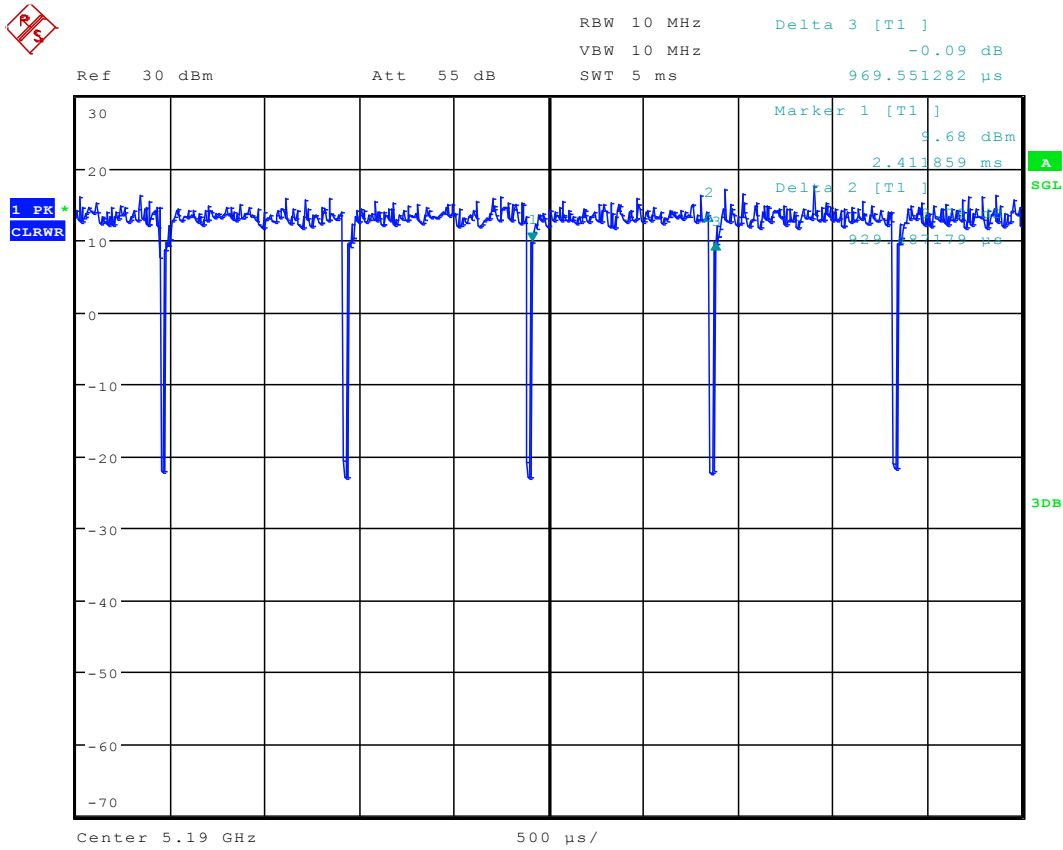


6.9 11n20M Ant 3



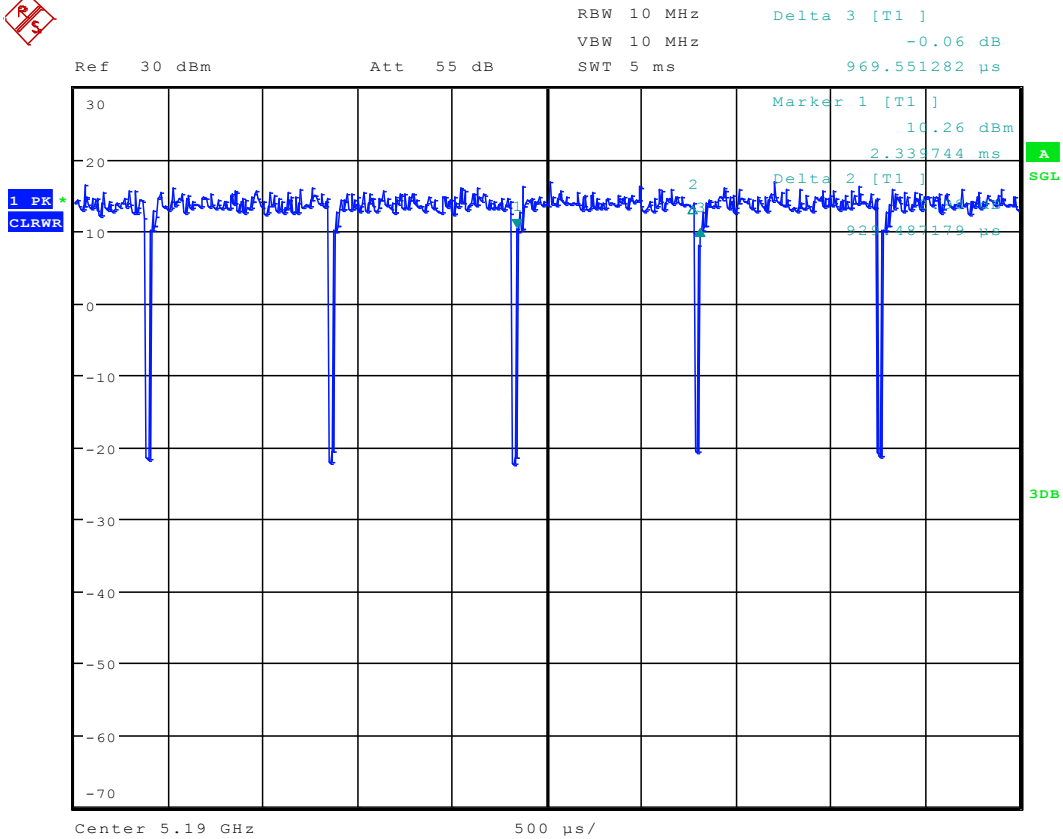
Date: 11.FEB.2017 16:26:31

6.10 11n40 Ant 1



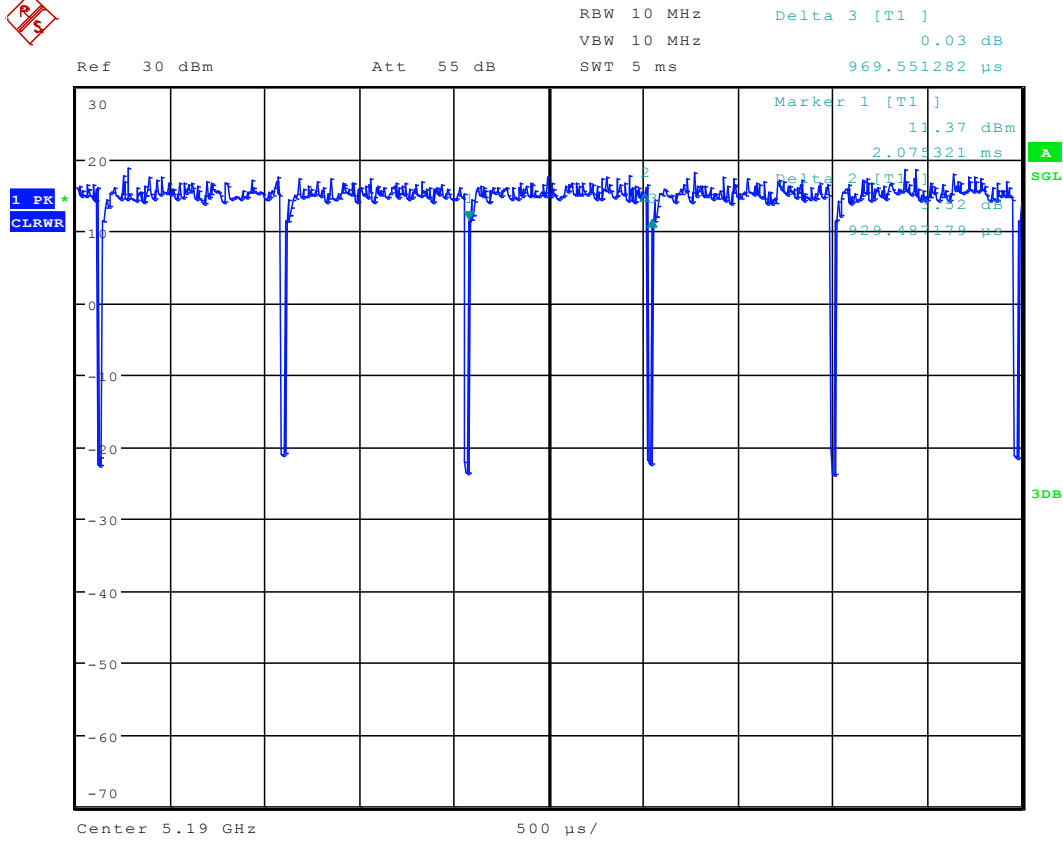
Date: 9.FEB.2017 11:24:34

6.11 11n40 Ant 2



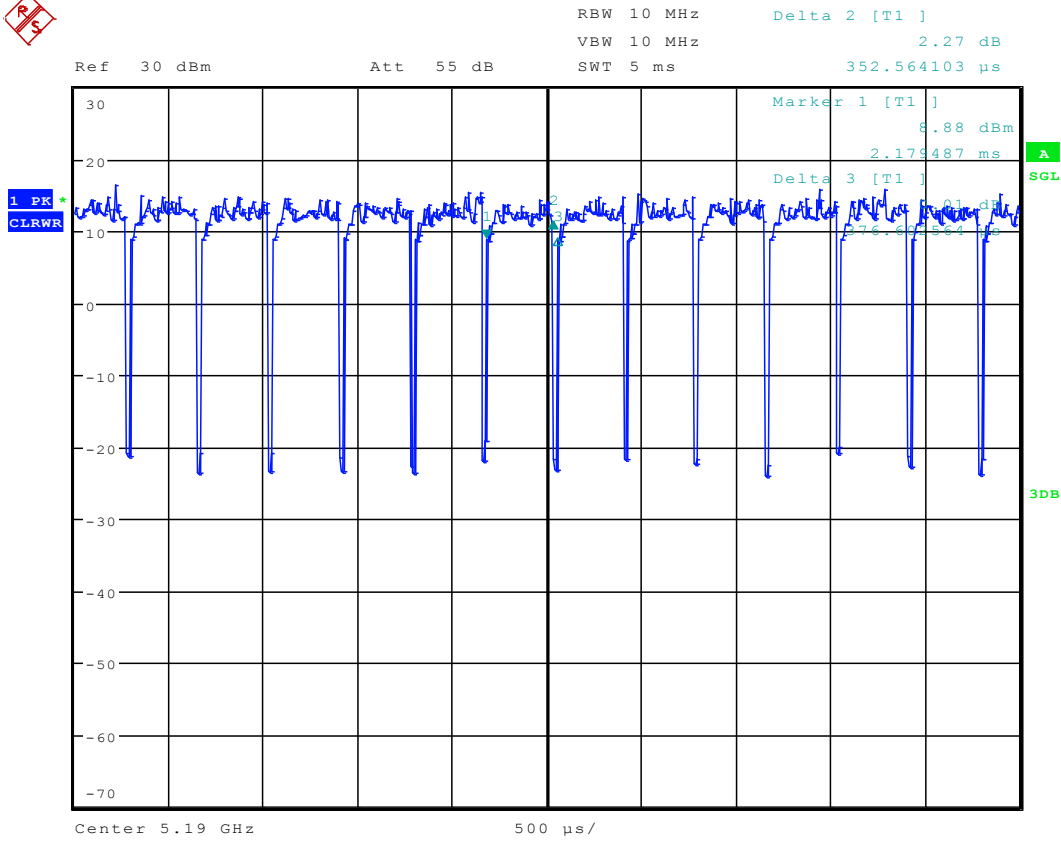
Date: 9.FEB.2017 16:14:03

6.12 11n40 Ant 3



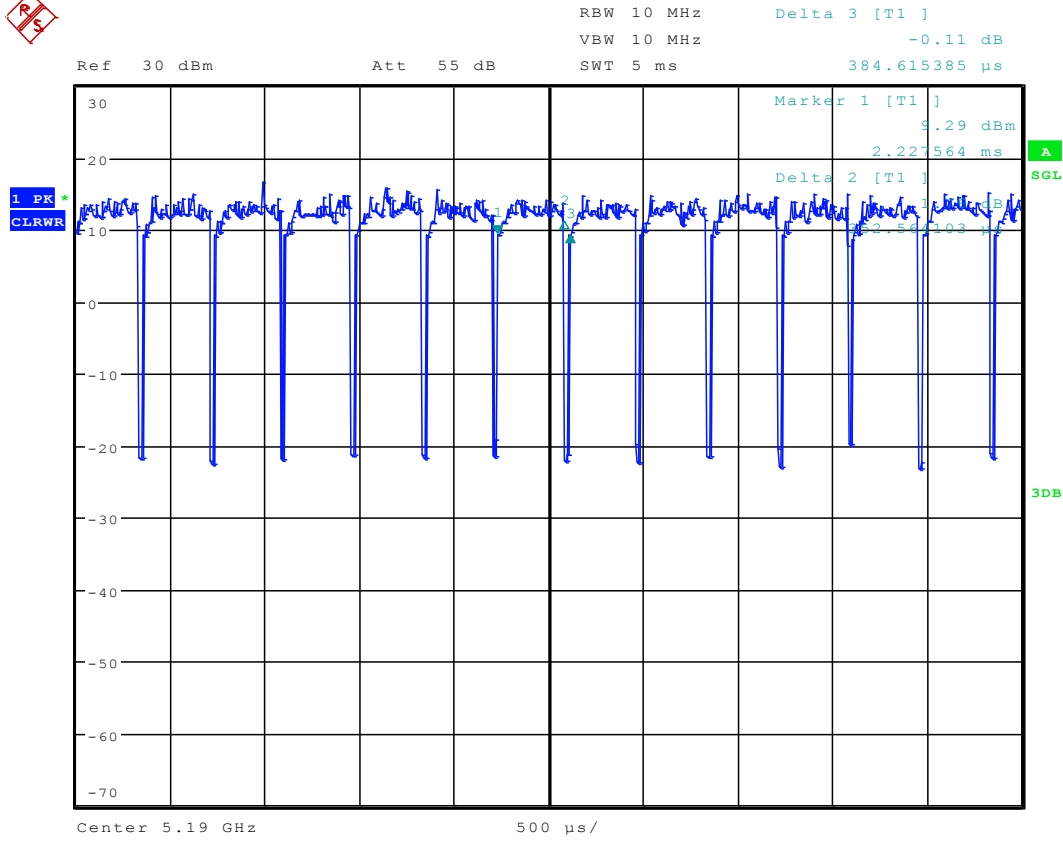
Date: 9.FEB.2017 19:47:39

6.13 11n40M Ant 1



Date: 11.FEB.2017 18:47:16

6.14 11n40M Ant 2



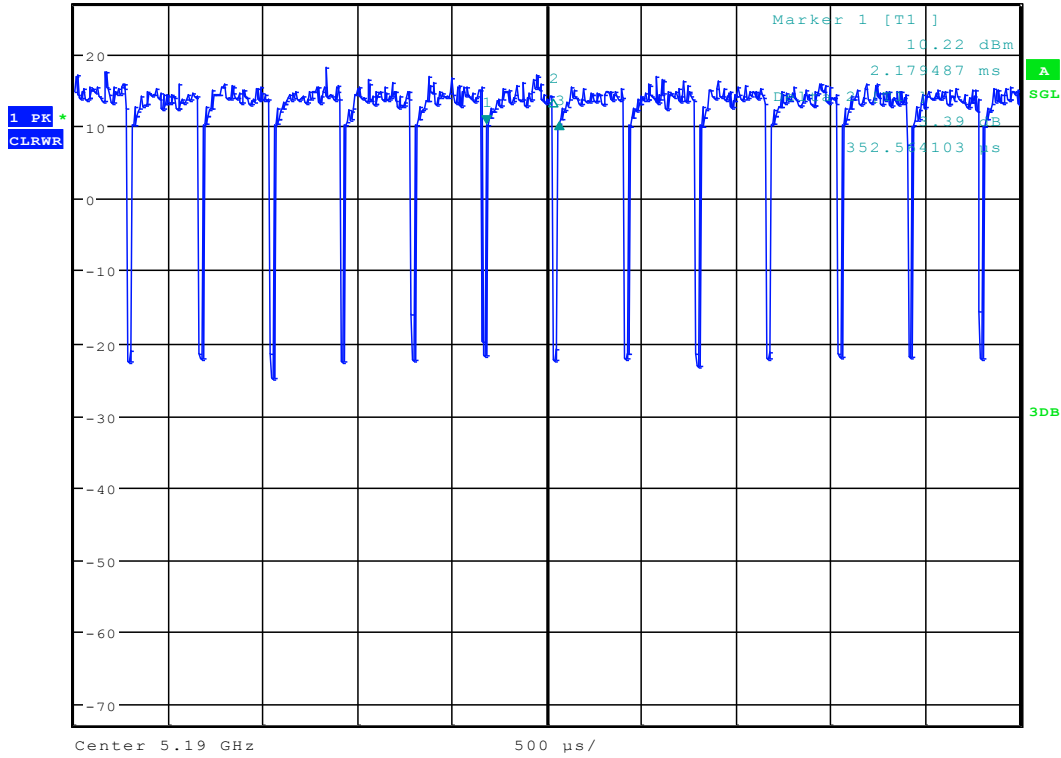
Date: 11.FEB.2017 17:31:07



6.15 11n40M Ant 3



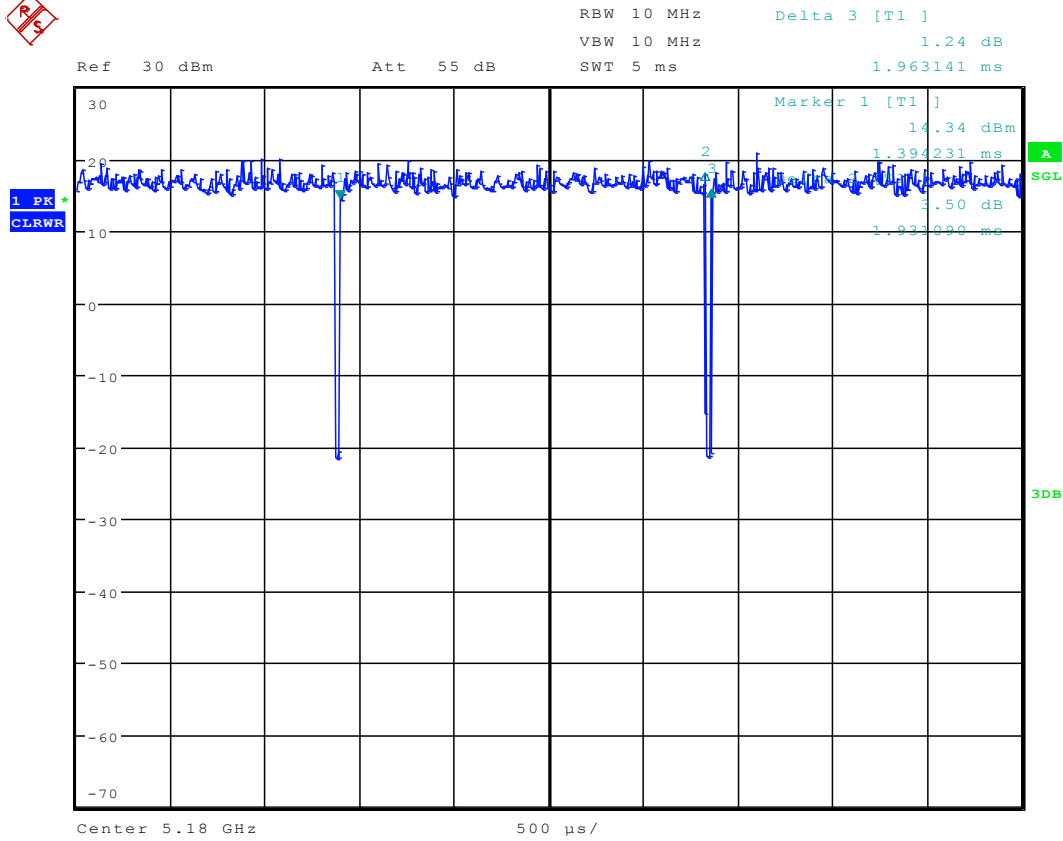
RBW 10 MHz Delta 3 [T1]
 VBW 10 MHz 0.29 dB
 Ref 27 dBm Att 55 dB SWT 5 ms 384.615385 μ s



Date: 11.FEB.2017 16:49:03



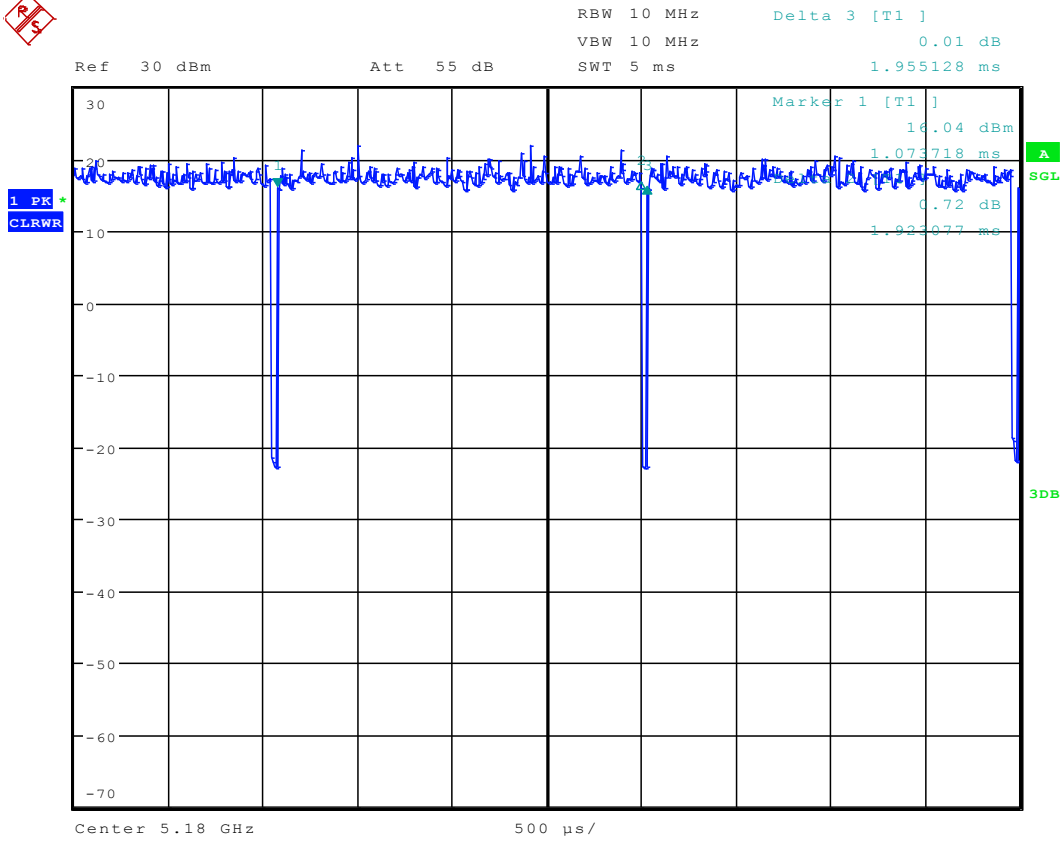
6.16 11ac20 Ant 1



Date: 9.FEB.2017 10:37:44



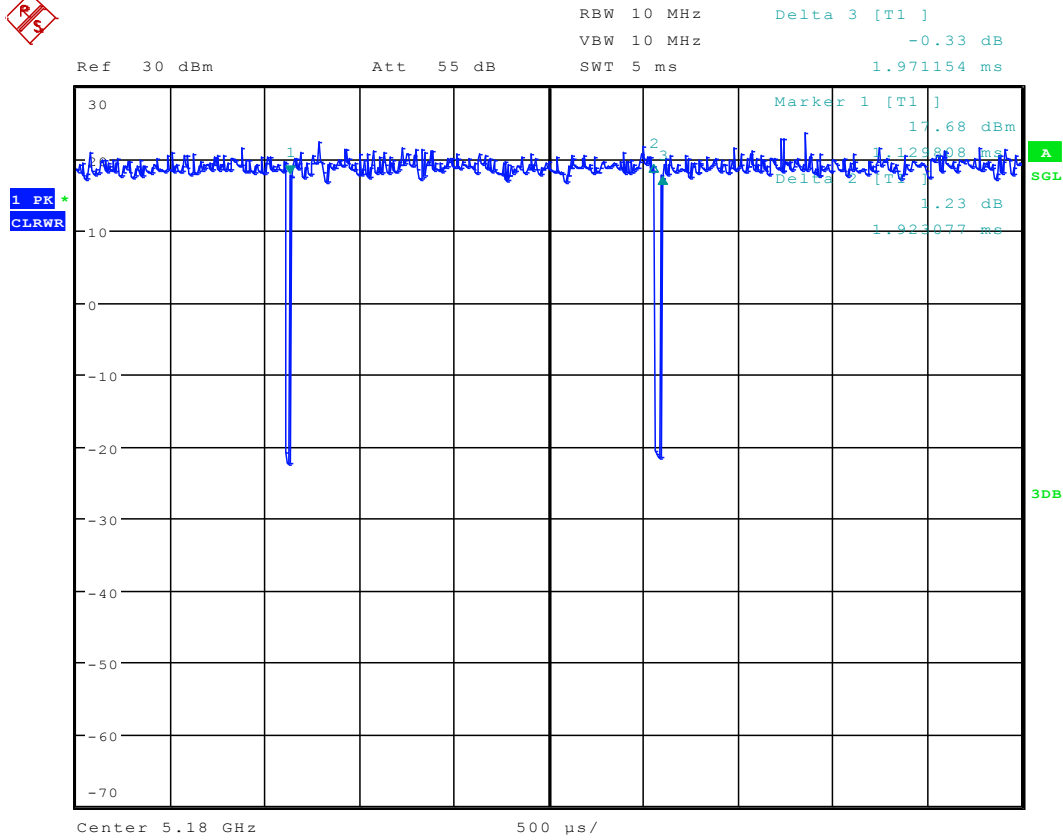
6.17 11ac20 Ant 2



Date: 9.FEB.2017 15:53:51

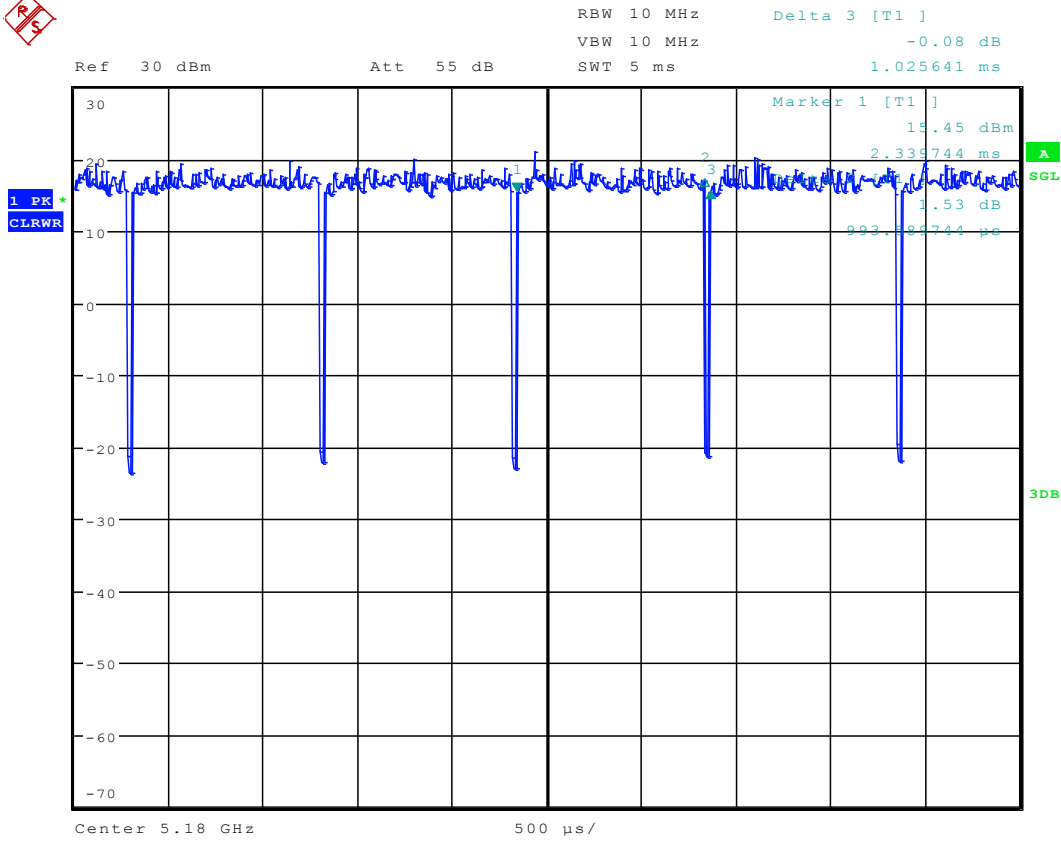


6.18 11ac20 Ant 3



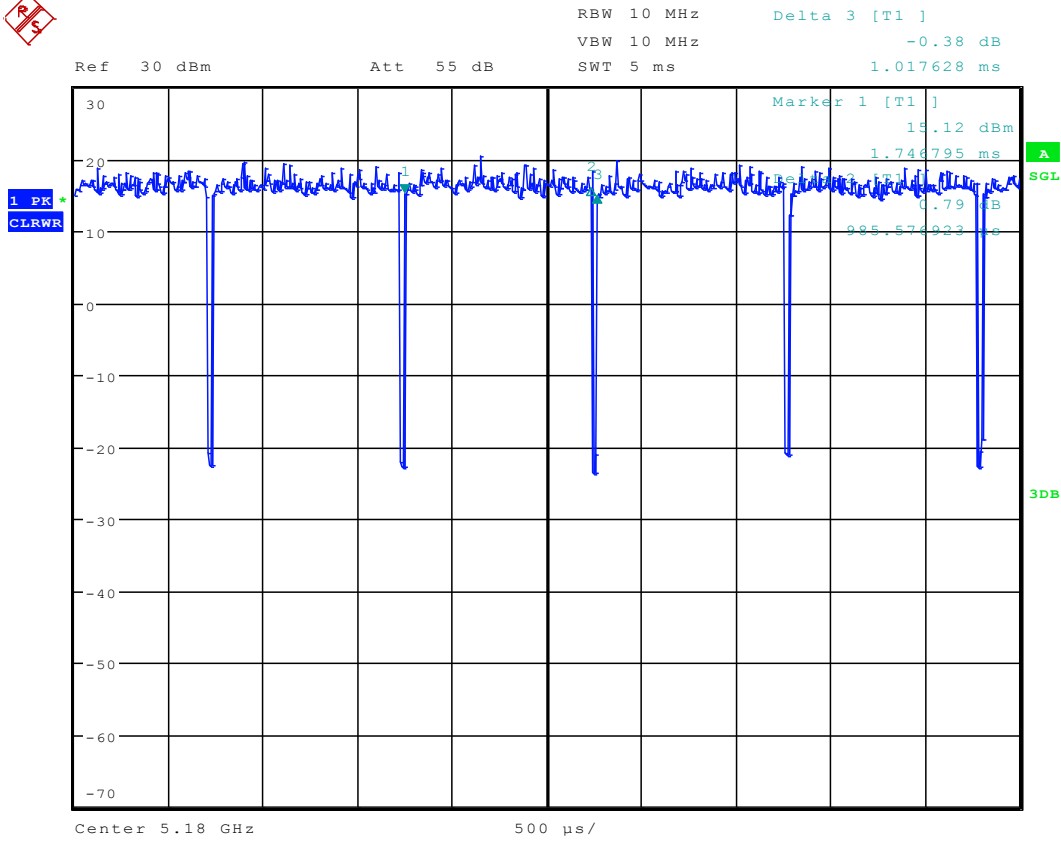
Date: 9.FEB.2017 19:26:02

6.19 11ac20M Ant 1



Date: 13.FEB.2017 09:45:06

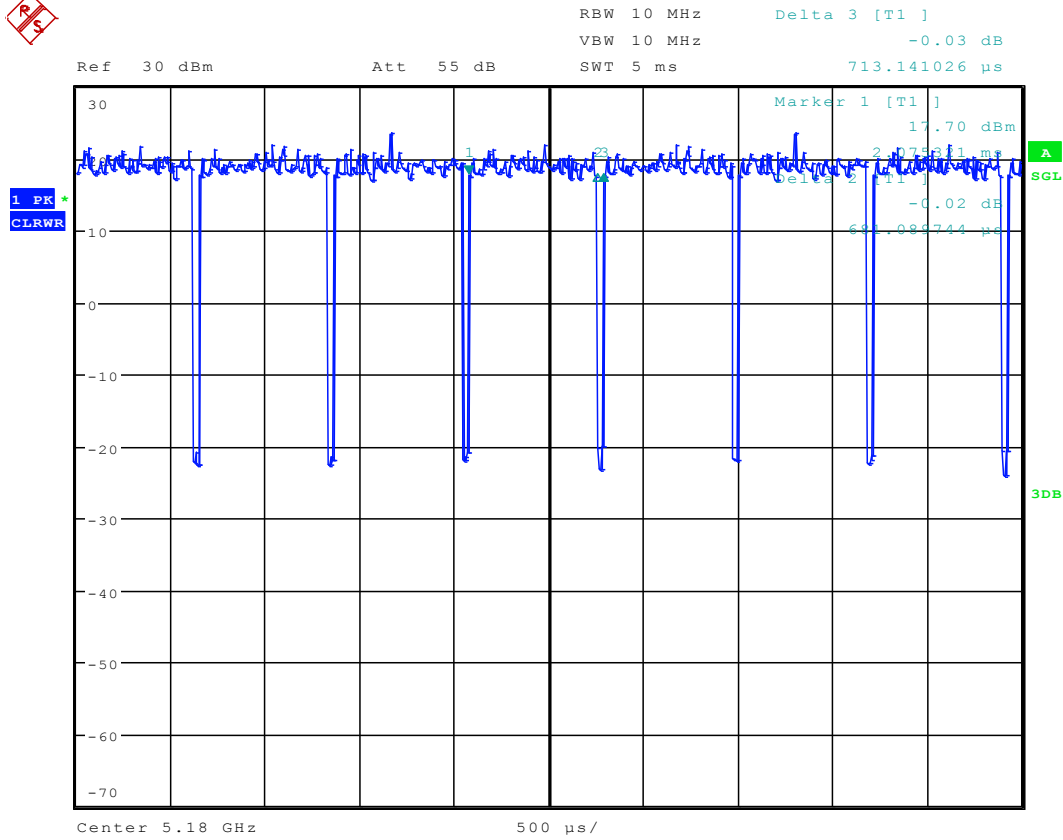
6.20 11ac20M Ant 2



Date: 11.FEB.2017 17:44:40

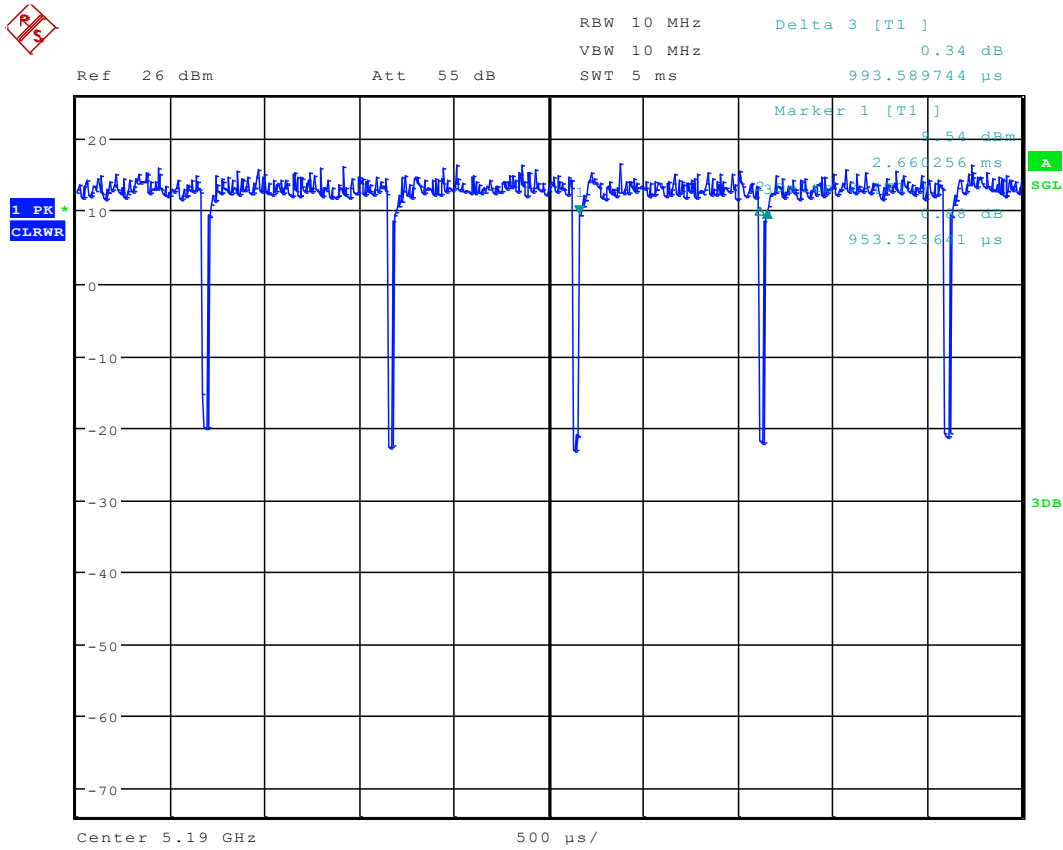


6.21 11ac20M Ant 3



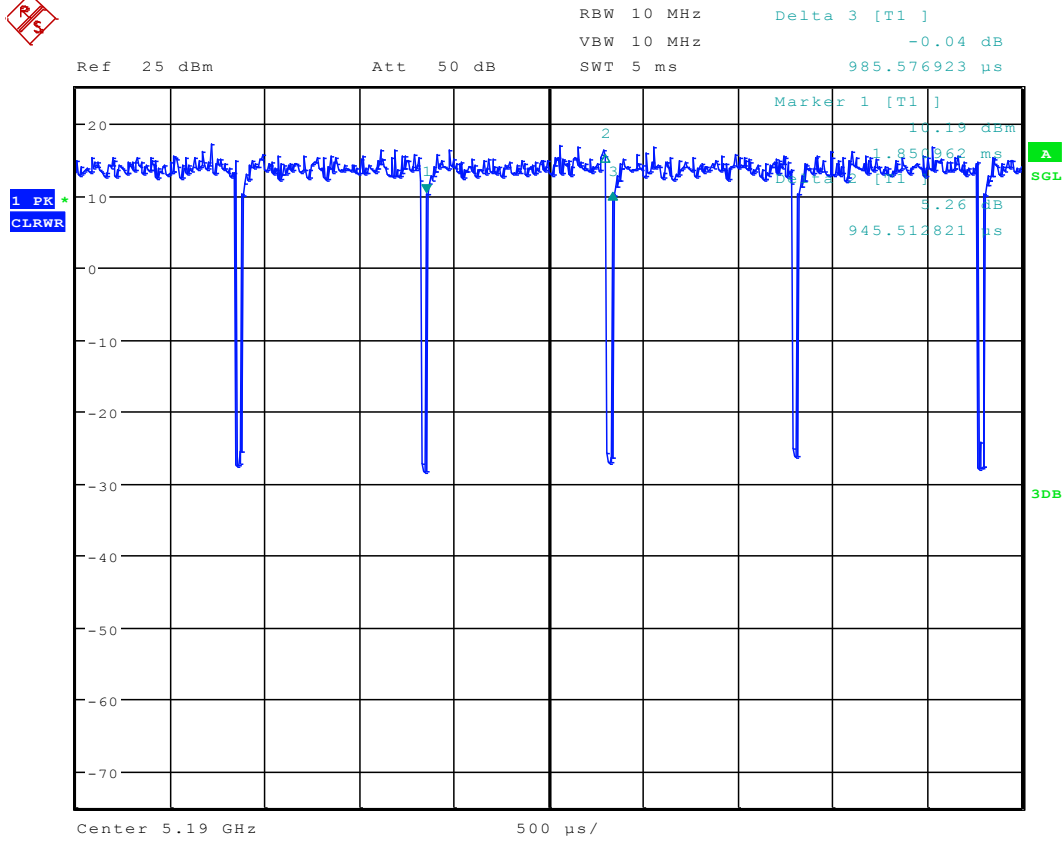
Date: 14.FEB.2017 15:18:48

6.22 11ac40 Ant 1



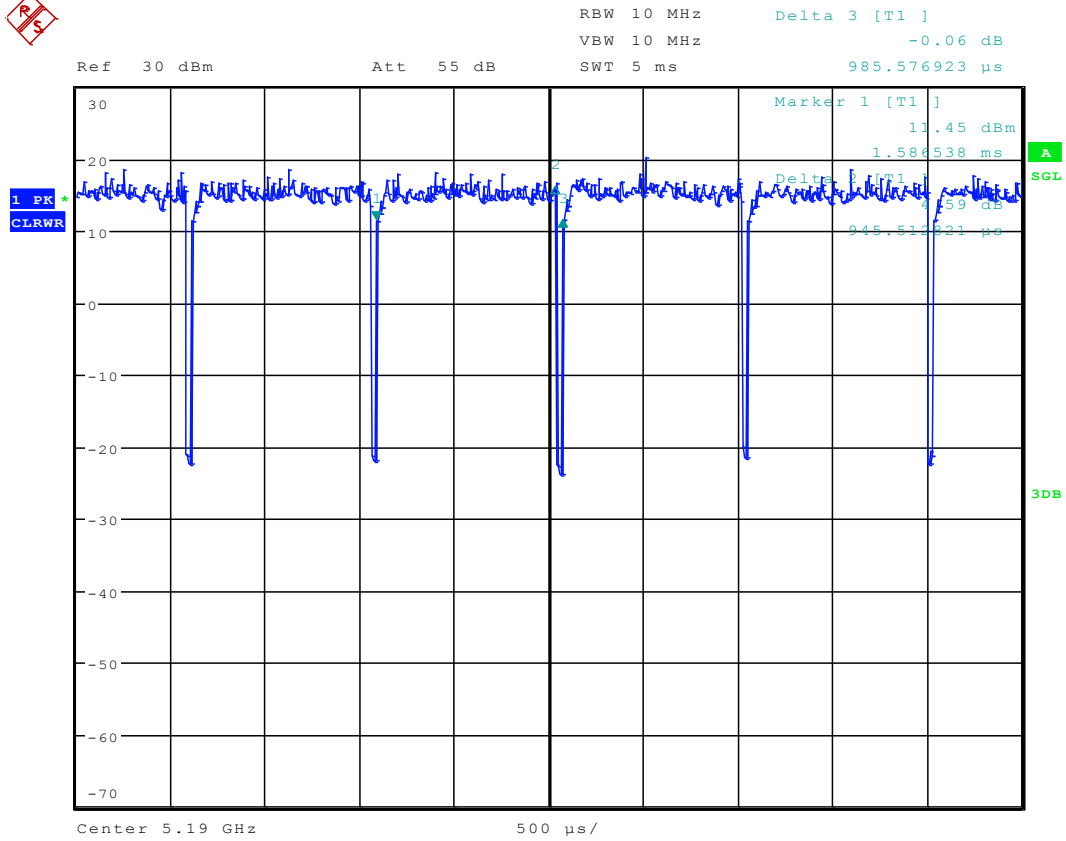
Date: 9.FEB.2017 12:12:55

6.23 11ac40 Ant 2



Date: 9.FEB.2017 16:28:35

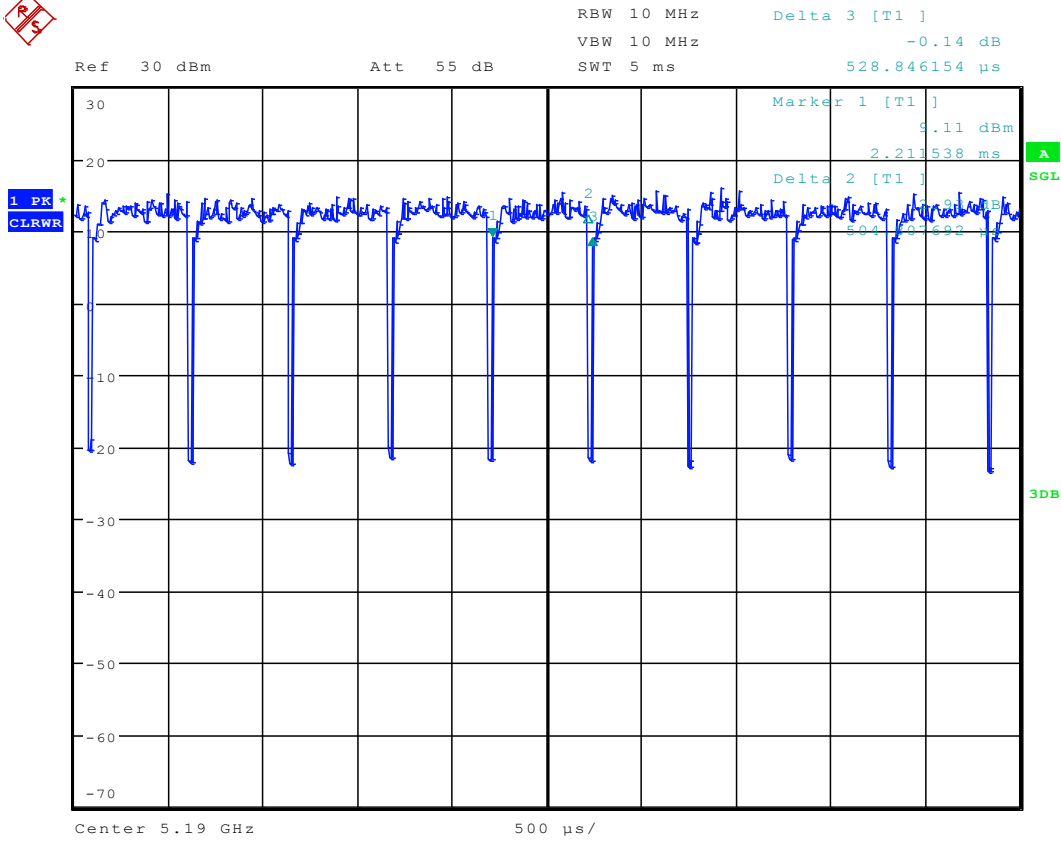
6.24 11ac40 Ant 3



Date: 9.FEB.2017 20:02:03

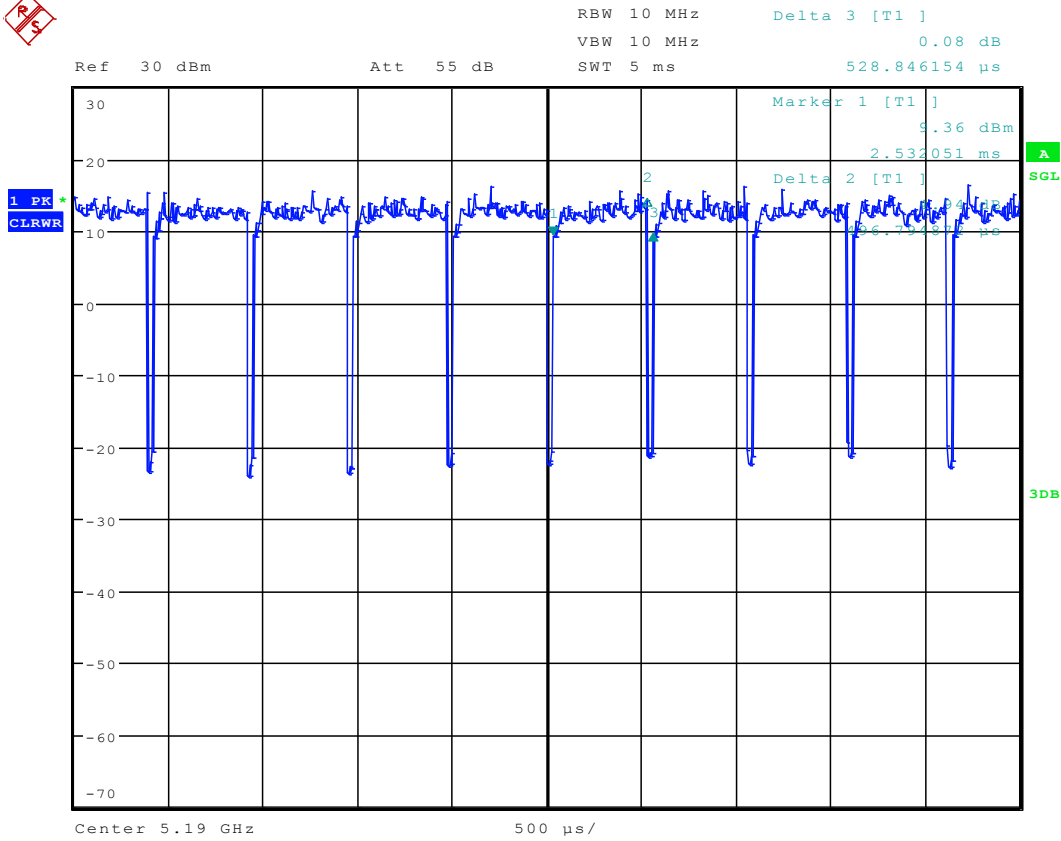


6.25 11ac40M Ant 1



Date: 13.FEB.2017 10:01:05

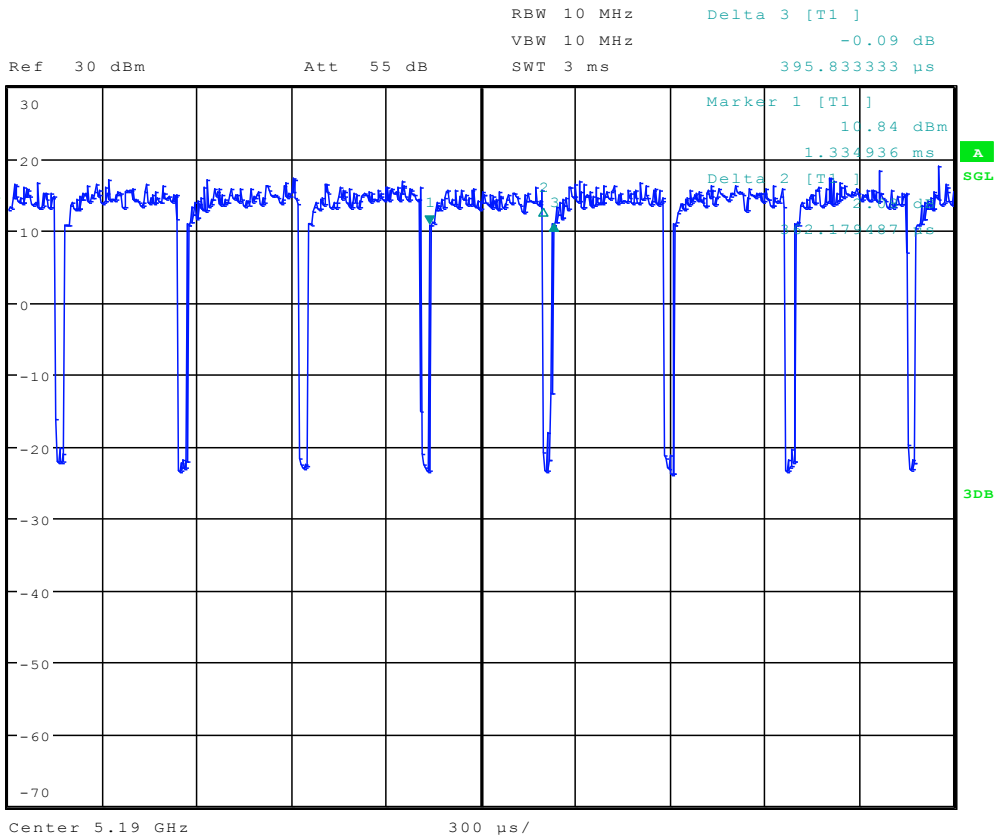
6.26 11ac40M Ant 2



Date: 11.FEB.2017 17:57:04

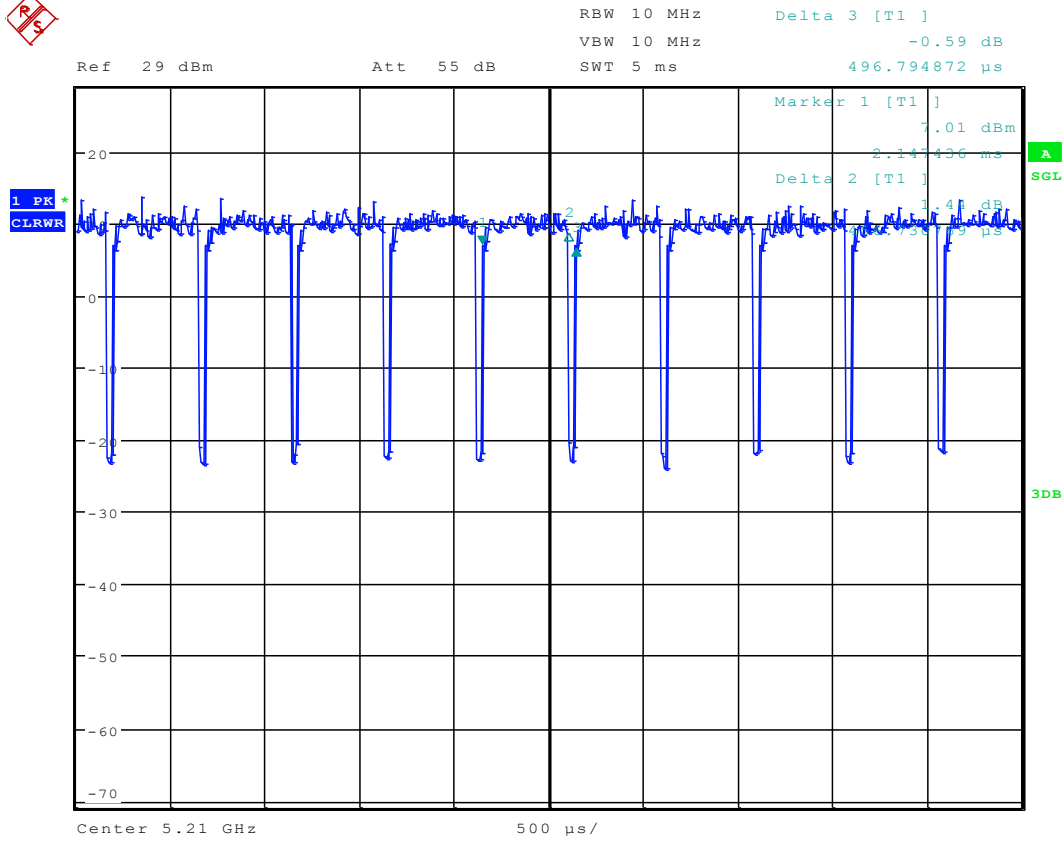


6.27 11ac40M Ant 3



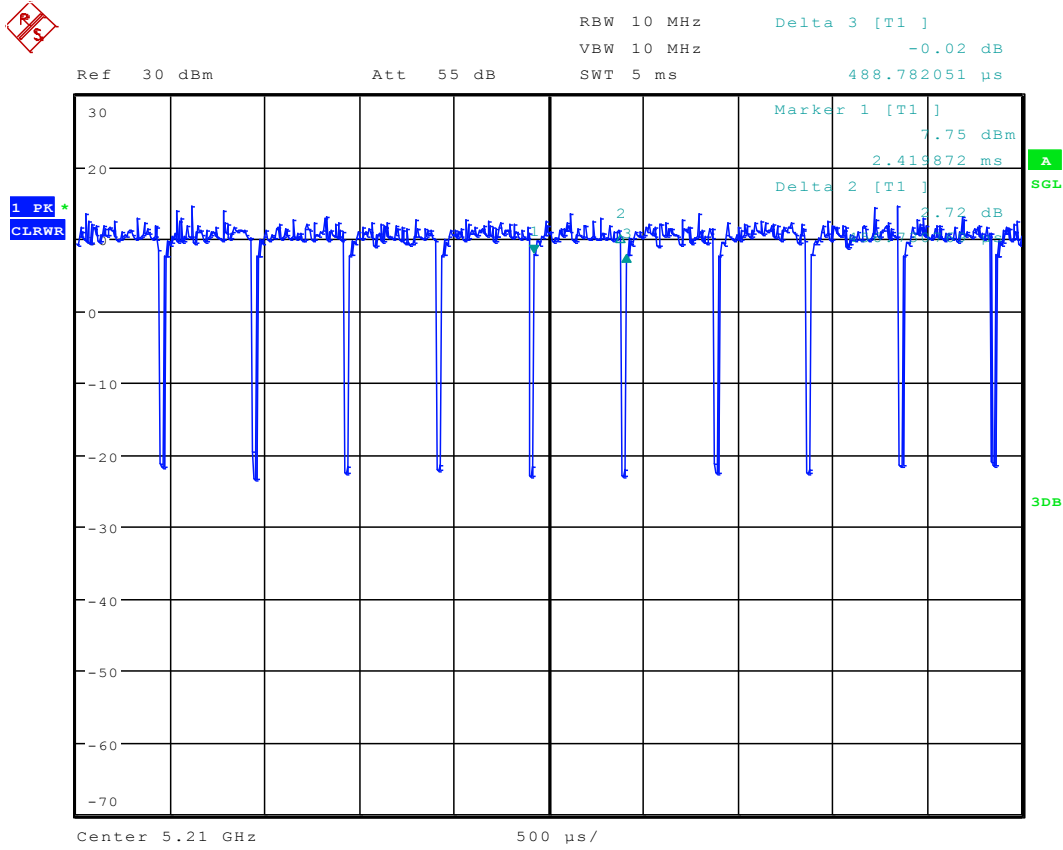
Date: 14.FEB.2017 15:41:53

6.28 11ac80 Ant 1



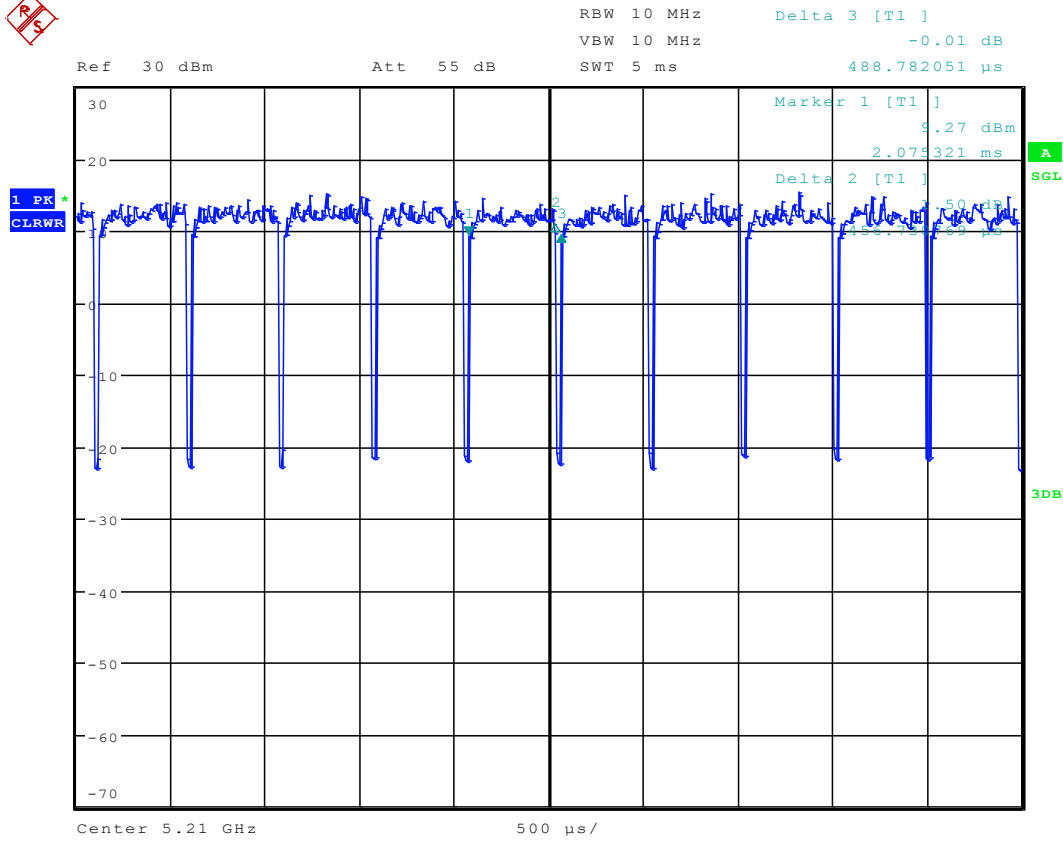
Date: 9.FEB.2017 12:55:17

6.29 11ac80 Ant 2



Date: 9.FEB.2017 16:43:01

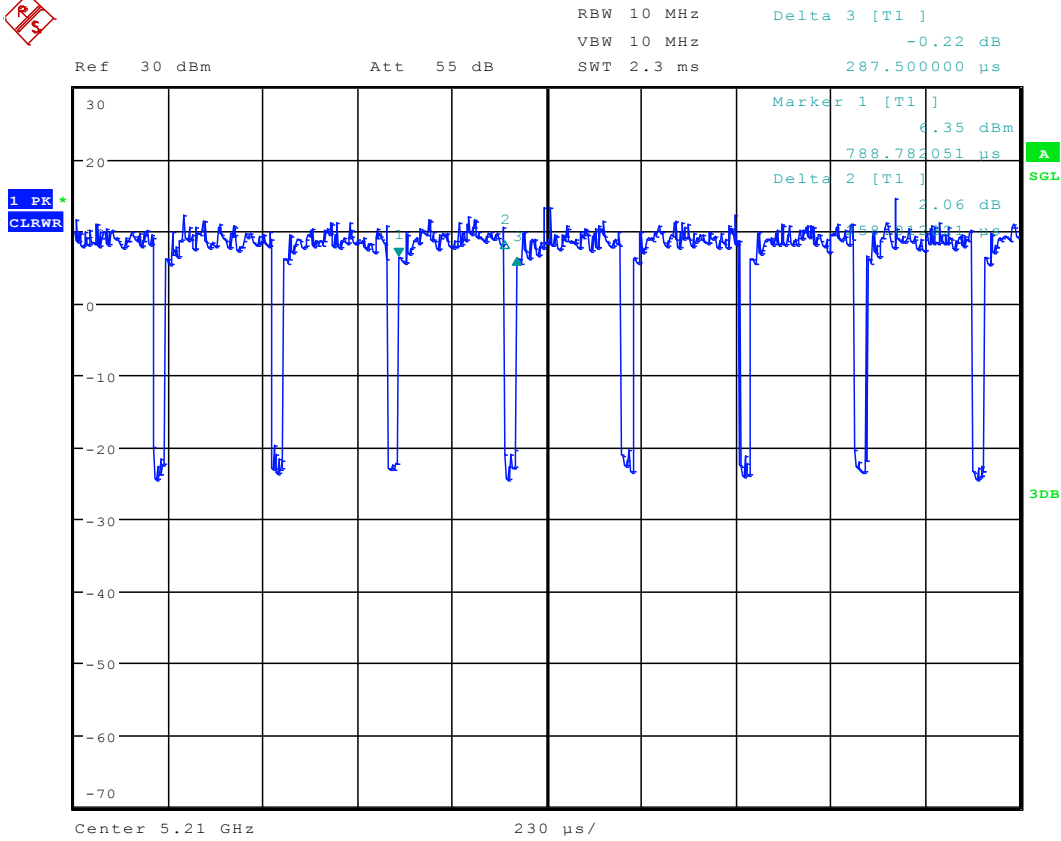
6.30 11ac80 Ant 3



Date: 9.FEB.2017 20:28:39



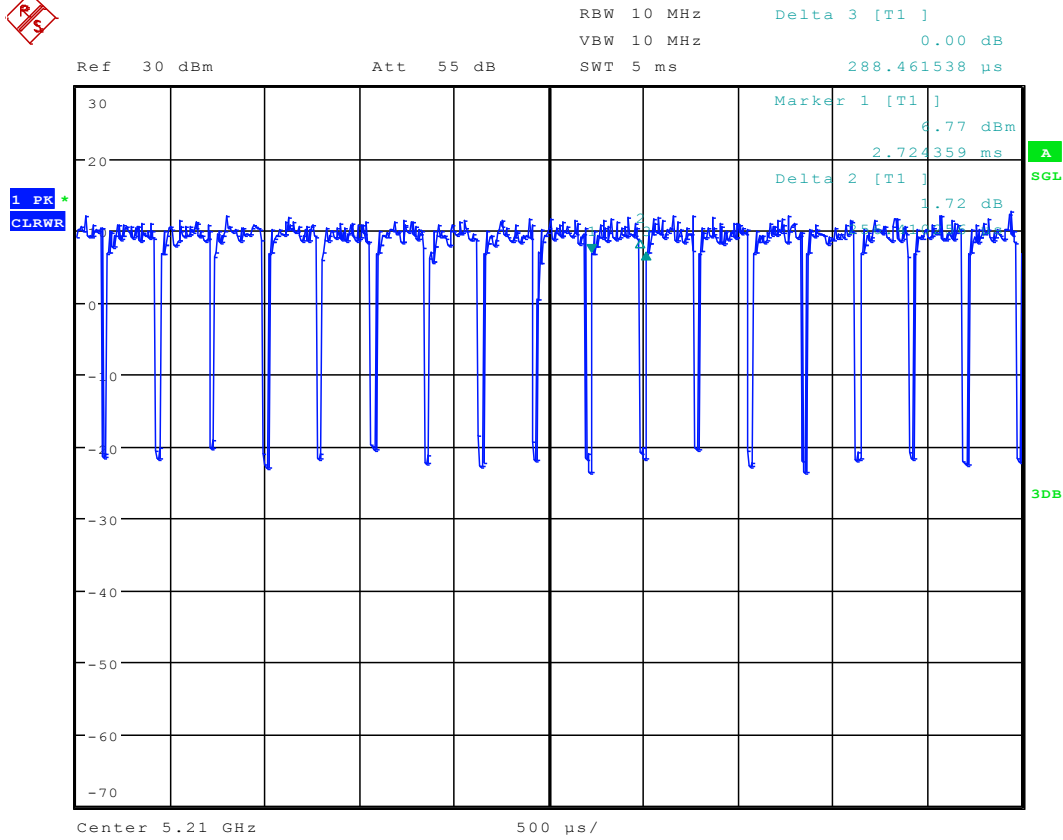
6.31 11ac80M Ant 1



Date: 13.FEB.2017 10:25:14



6.32 11ac80M Ant 2



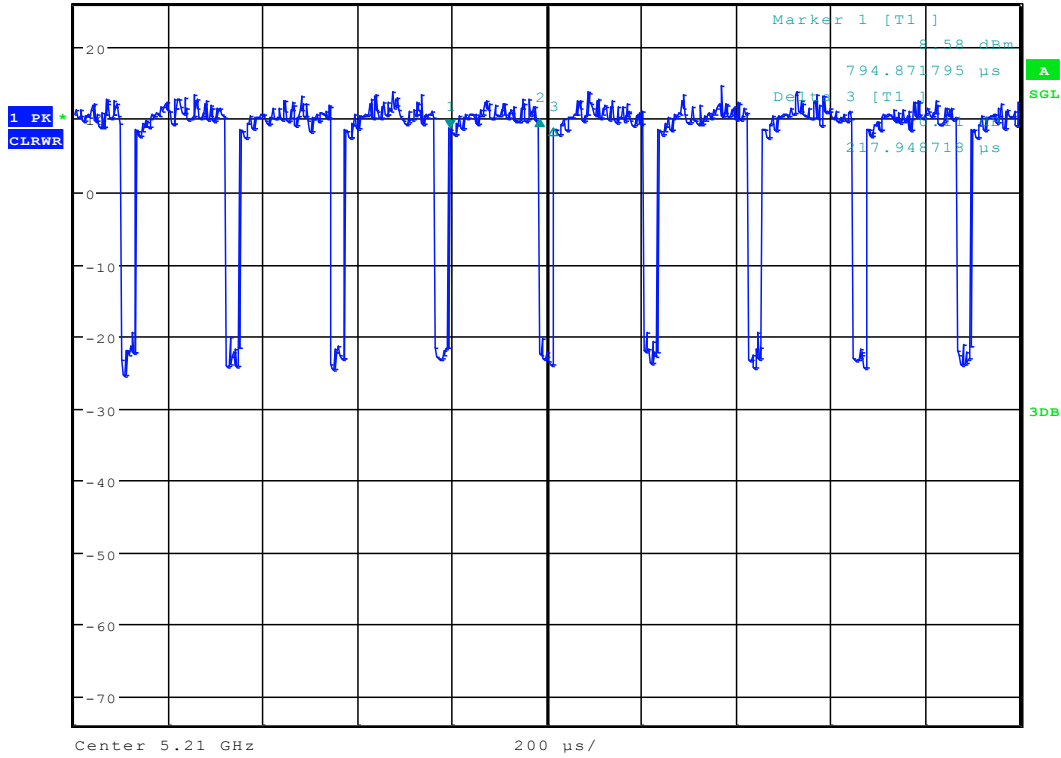
Date: 11.FEB.2017 18:11:03



6.33 11ac80M Ant 3



RBW 10 MHz Delta 2 [T1] 1.46 dB
 VBW 10 MHz
 Ref 26 dBm Att 55 dB SWT 2 ms 189.102564 μ s



Date: 14.FEB.2017 16:00:33



Appendix D: Maximum Conducted Output Power



7 Result Table

| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Meas. Level (Cond.) [dBm] | Verdict |
|-----------|--------------|-----------------|--------------|---------------------------|---------|
| 11A20 | 36 | 5180 | ANT 1 | 10.34 | PASS |
| | 36 | 5180 | ANT 2 | 11.88 | PASS |
| | 36 | 5180 | ANT 3 | 14.04 | PASS |
| | 48 | 5240 | ANT 1 | 10.14 | PASS |
| | 48 | 5240 | ANT 2 | 11.69 | PASS |
| | 48 | 5240 | ANT 3 | 14.16 | PASS |
| 11N20 | 36 | 5180 | ANT 1 | 9.71 | PASS |
| | 36 | 5180 | ANT 2 | 11.74 | PASS |
| | 36 | 5180 | ANT 3 | 14 | PASS |
| | 48 | 5240 | ANT 1 | 9.97 | PASS |
| | 48 | 5240 | ANT 2 | 11.65 | PASS |
| | 48 | 5240 | ANT 3 | 14.06 | PASS |
| 11N20MIMO | 36 | 5180 | ANT 1 | 10.22 | --- |
| | 36 | 5180 | ANT 2 | 11.16 | --- |
| | 36 | 5180 | ANT 3 | 13.22 | --- |
| | 36 | 5180 | SUM | 16.49 | PASS |
| | 48 | 5240 | ANT 1 | 10.51 | --- |
| | 48 | 5240 | ANT 2 | 10.89 | --- |
| | 48 | 5240 | ANT 3 | 13.09 | --- |
| | 48 | 5240 | SUM | 16.42 | PASS |
| 11N40 | 38 | 5190 | ANT 1 | 9.34 | PASS |
| | 38 | 5190 | ANT 2 | 10.37 | PASS |
| | 38 | 5190 | ANT 3 | 13.39 | PASS |
| | 46 | 5230 | ANT 1 | 9.14 | PASS |
| | 46 | 5230 | ANT 2 | 10.41 | PASS |
| | 46 | 5230 | ANT 3 | 13.4 | PASS |
| 11N40MIMO | 38 | 5190 | ANT 1 | 9.16 | --- |
| | 38 | 5190 | ANT 2 | 9.46 | --- |
| | 38 | 5190 | ANT 3 | 12.4 | --- |
| | 38 | 5190 | SUM | 15.37 | PASS |
| | 46 | 5230 | ANT 1 | 9.12 | --- |
| | 46 | 5230 | ANT 2 | 9.41 | --- |
| | 46 | 5230 | ANT 3 | 12.16 | --- |
| | 46 | 5230 | SUM | 15.23 | PASS |
| 11AC20 | 36 | 5180 | ANT 1 | 10.48 | PASS |



| | | | | | |
|------------|----|------|-------|-------|------|
| | 36 | 5180 | ANT 2 | 11.71 | PASS |
| | 36 | 5180 | ANT 3 | 14.1 | PASS |
| | 48 | 5240 | ANT 1 | 10.7 | PASS |
| | 48 | 5240 | ANT 2 | 11.64 | PASS |
| | 48 | 5240 | ANT 3 | 14.12 | PASS |
| 11AC20MIMO | 36 | 5180 | ANT 1 | 10.13 | --- |
| | 36 | 5180 | ANT 2 | 10.89 | --- |
| | 36 | 5180 | ANT 3 | 13.17 | --- |
| | 36 | 5180 | SUM | 16.37 | PASS |
| | 48 | 5240 | ANT 1 | 10.47 | --- |
| | 48 | 5240 | ANT 2 | 10.82 | --- |
| | 48 | 5240 | ANT 3 | 13.03 | --- |
| | 48 | 5240 | SUM | 16.37 | PASS |
| 11AC40 | 38 | 5190 | ANT 1 | 9.71 | PASS |
| | 38 | 5190 | ANT 2 | 10.5 | PASS |
| | 38 | 5190 | ANT 3 | 13.31 | PASS |
| | 46 | 5230 | ANT 1 | 9.93 | PASS |
| | 46 | 5230 | ANT 2 | 10.56 | PASS |
| | 46 | 5230 | ANT 3 | 13.39 | PASS |
| 11AC40MIMO | 38 | 5190 | ANT 1 | 9.07 | PASS |
| | 38 | 5190 | ANT 2 | 9.32 | PASS |
| | 38 | 5190 | ANT 3 | 12.38 | PASS |
| | 38 | 5190 | SUM | 15.3 | PASS |
| | 46 | 5230 | ANT 1 | 9.04 | --- |
| | 46 | 5230 | ANT 2 | 9.36 | --- |
| | 46 | 5230 | ANT 3 | 12.11 | --- |
| | 46 | 5230 | SUM | 15.17 | PASS |
| 11AC80 | 42 | 5210 | ANT 1 | 10.98 | PASS |
| | 42 | 5210 | ANT 2 | 11.74 | PASS |
| | 42 | 5210 | ANT 3 | 13.86 | PASS |
| 11AC80MIMO | 42 | 5210 | ANT 1 | 10 | --- |
| | 42 | 5210 | ANT 2 | 10.83 | --- |
| | 42 | 5210 | ANT 3 | 12.69 | --- |
| | 42 | 5210 | SUM | 16.09 | PASS |



Appendix E: Peak Power Spectral Density Level



8 Result Table

| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Meas. Level (Cond.) [dBm] | Verdict |
|-----------|--------------|-----------------|--------------|---------------------------|---------|
| 11A20 | 36 | 5180 | ANT 1 | 5.23 | PASS |
| | 36 | 5180 | ANT 2 | 6.05 | PASS |
| | 36 | 5180 | ANT 3 | 7.25 | PASS |
| | 48 | 5240 | ANT 1 | 5.22 | PASS |
| | 48 | 5240 | ANT 2 | 6.09 | PASS |
| | 48 | 5240 | ANT 3 | 7 | PASS |
| 11N20 | 36 | 5180 | ANT 1 | 5.08 | PASS |
| | 36 | 5180 | ANT 2 | 6.02 | PASS |
| | 36 | 5180 | ANT 3 | 7.03 | PASS |
| | 48 | 5240 | ANT 1 | 4.95 | PASS |
| | 48 | 5240 | ANT 2 | 5.5 | PASS |
| | 48 | 5240 | ANT 3 | 6.98 | PASS |
| 11N20MIMO | 36 | 5180 | ANT 1 | 4.68 | --- |
| | 36 | 5180 | ANT 2 | 5.2 | --- |
| | 36 | 5180 | ANT 3 | 6.35 | --- |
| | 36 | 5180 | SUM | 10.24 | PASS |
| | 48 | 5240 | ANT 1 | 4.65 | --- |
| | 48 | 5240 | ANT 2 | 5.26 | --- |
| | 48 | 5240 | ANT 3 | 6.22 | --- |
| | 48 | 5240 | SUM | 10.20 | PASS |
| 11N40 | 38 | 5190 | ANT 1 | 1.84 | PASS |
| | 38 | 5190 | ANT 2 | 2.39 | PASS |
| | 38 | 5190 | ANT 3 | 3.91 | PASS |
| | 46 | 5230 | ANT 1 | 2.08 | PASS |
| | 46 | 5230 | ANT 2 | 2.4 | PASS |
| | 46 | 5230 | ANT 3 | 4.11 | PASS |
| 11N40MIMO | 38 | 5190 | ANT 1 | 1.42 | --- |
| | 38 | 5190 | ANT 2 | 1.9 | --- |
| | 38 | 5190 | ANT 3 | 3.26 | --- |
| | 38 | 5190 | SUM | 7.04 | PASS |
| | 46 | 5230 | ANT 1 | 1.56 | --- |
| | 46 | 5230 | ANT 2 | 1.81 | --- |
| | 46 | 5230 | ANT 3 | 3.38 | --- |
| | 46 | 5230 | SUM | 7.1 | PASS |
| 11AC20 | 36 | 5180 | ANT 1 | 5.34 | PASS |

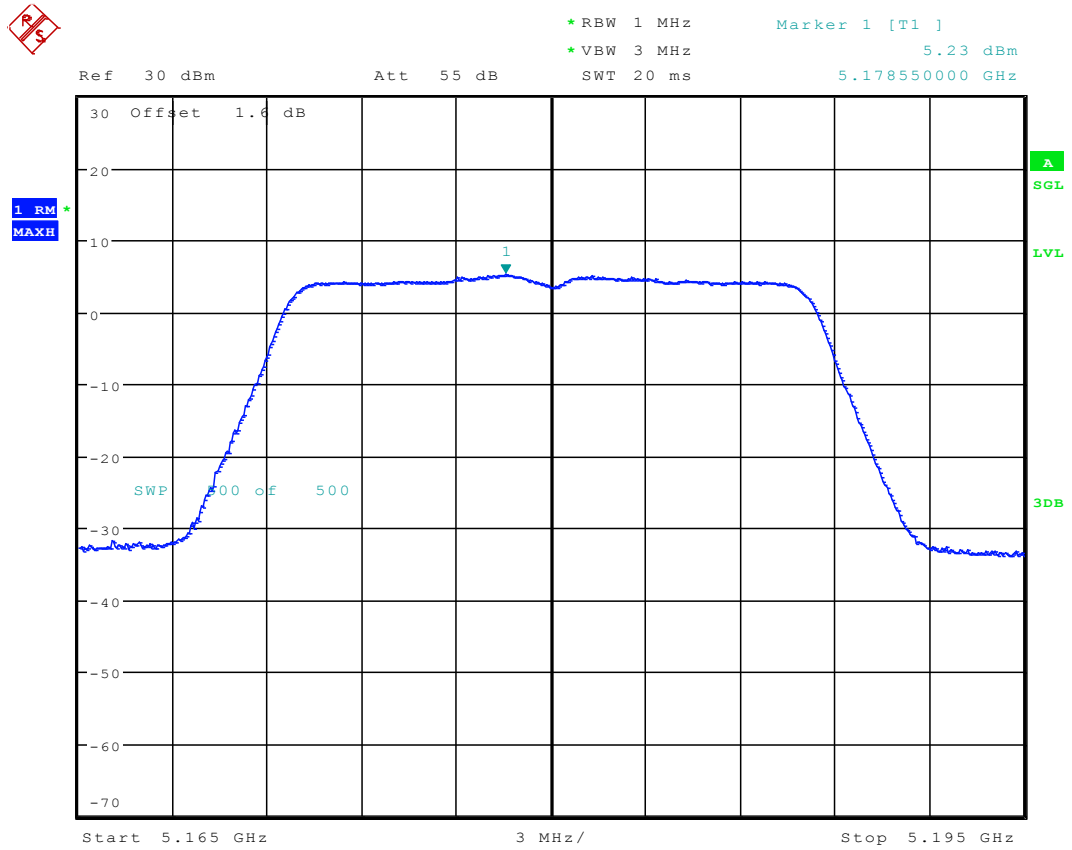


| | | | | | |
|------------|----|------|-------|-------|------|
| | 36 | 5180 | ANT 2 | 6 | PASS |
| | 36 | 5180 | ANT 3 | 7.38 | PASS |
| | 48 | 5240 | ANT 1 | 5.26 | PASS |
| | 48 | 5240 | ANT 2 | 5.63 | PASS |
| | 48 | 5240 | ANT 3 | 7.1 | PASS |
| 11AC20MIMO | 36 | 5180 | ANT 1 | 5.06 | --- |
| | 36 | 5180 | ANT 2 | 5.28 | --- |
| | 36 | 5180 | ANT 3 | 7.09 | --- |
| | 36 | 5180 | SUM | 10.68 | PASS |
| | 48 | 5240 | ANT 1 | 4.68 | --- |
| | 48 | 5240 | ANT 2 | 5.07 | --- |
| | 48 | 5240 | ANT 3 | 6.75 | --- |
| | 48 | 5240 | SUM | 10.37 | PASS |
| 11AC40 | 38 | 5190 | ANT 1 | 1.89 | PASS |
| | 38 | 5190 | ANT 2 | 2.42 | PASS |
| | 38 | 5190 | ANT 3 | 3.99 | PASS |
| | 46 | 5230 | ANT 1 | 2.11 | PASS |
| | 46 | 5230 | ANT 2 | 2.44 | PASS |
| | 46 | 5230 | ANT 3 | 4.06 | PASS |
| 11AC40MIMO | 38 | 5190 | ANT 1 | 1.17 | --- |
| | 38 | 5190 | ANT 2 | 1.73 | --- |
| | 38 | 5190 | ANT 3 | 3.96 | --- |
| | 38 | 5190 | SUM | 7.23 | PASS |
| | 46 | 5230 | ANT 1 | 1.33 | --- |
| | 46 | 5230 | ANT 2 | 1.96 | --- |
| | 46 | 5230 | ANT 3 | 3.95 | --- |
| | 46 | 5230 | SUM | 7.33 | PASS |
| 11AC80 | 42 | 5210 | ANT 1 | 0.36 | PASS |
| | 42 | 5210 | ANT 2 | 0.2 | PASS |
| | 42 | 5210 | ANT 3 | 1.66 | PASS |
| 11AC80MIMO | 42 | 5210 | ANT 1 | -0.53 | --- |
| | 42 | 5210 | ANT 2 | -0.36 | --- |
| | 42 | 5210 | ANT 3 | 1.3 | --- |
| | 42 | 5210 | SUM | 4.99 | PASS |



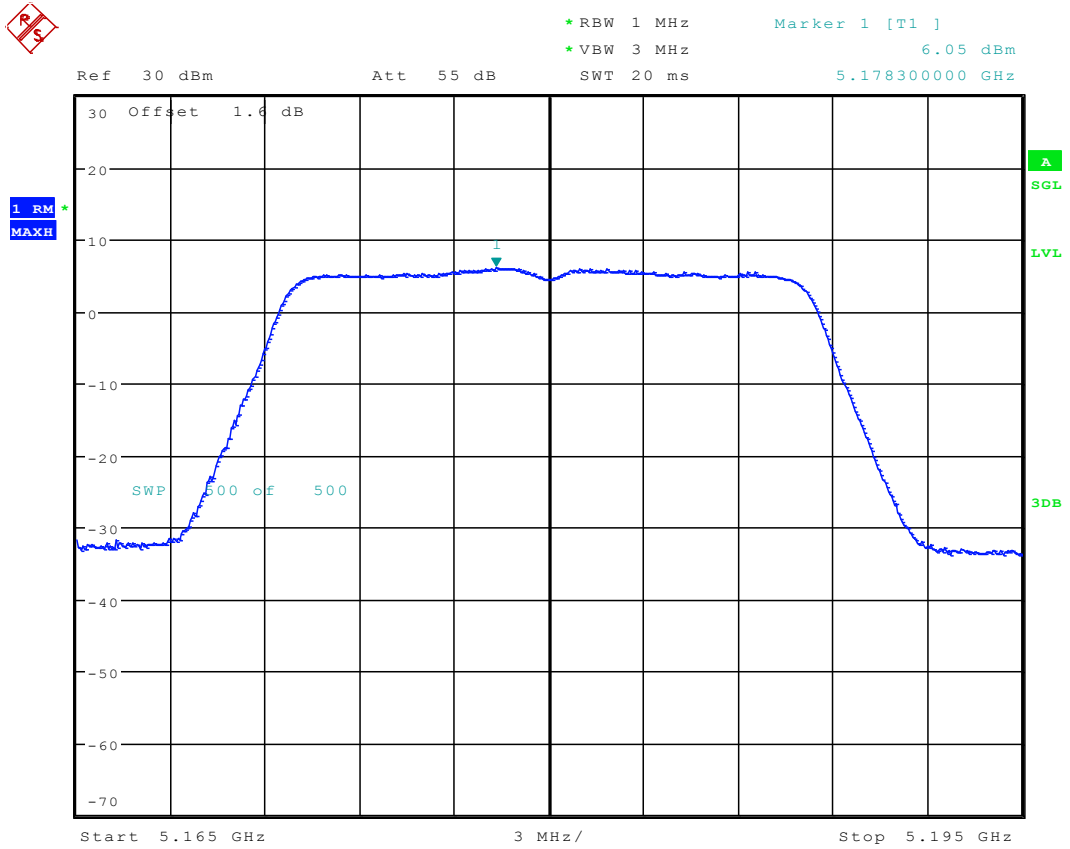
9 Test Plot

9.1 11A20_36 ANT 1



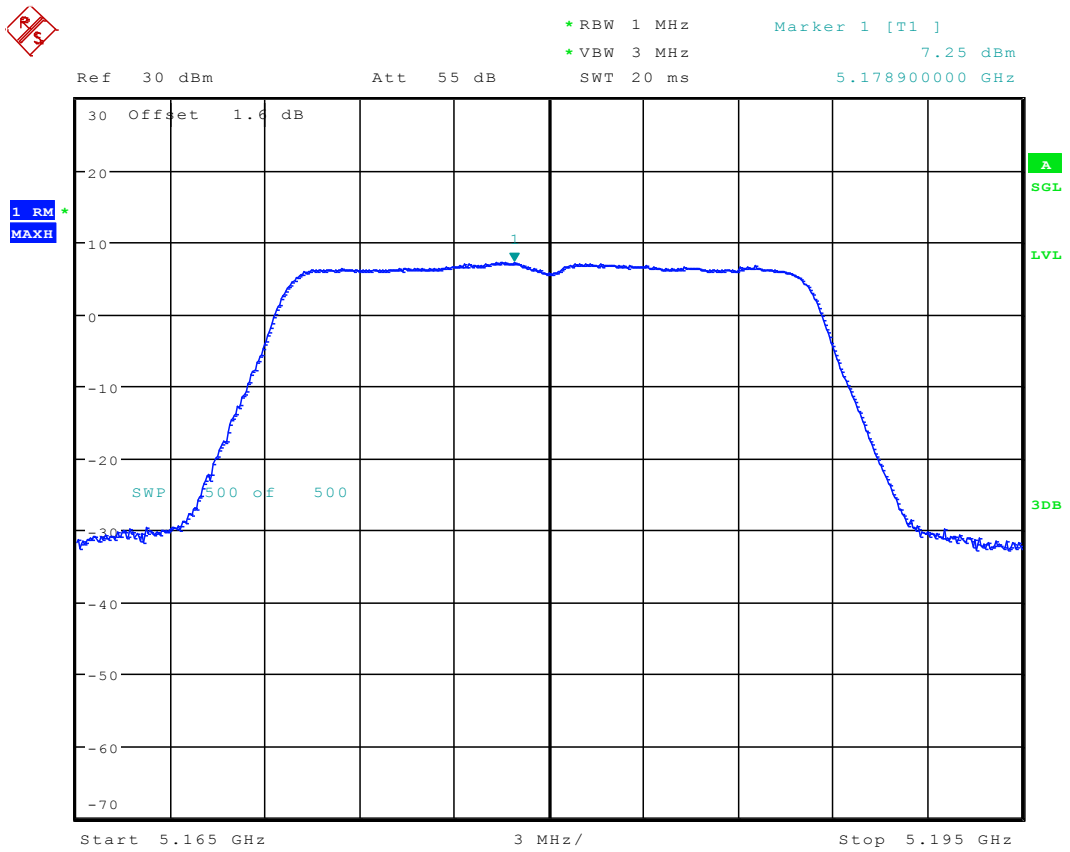
Date: 8.FEB.2017 16:52:12

9.2 11A20_36 ANT 2



Date: 9.FEB.2017 14:52:49

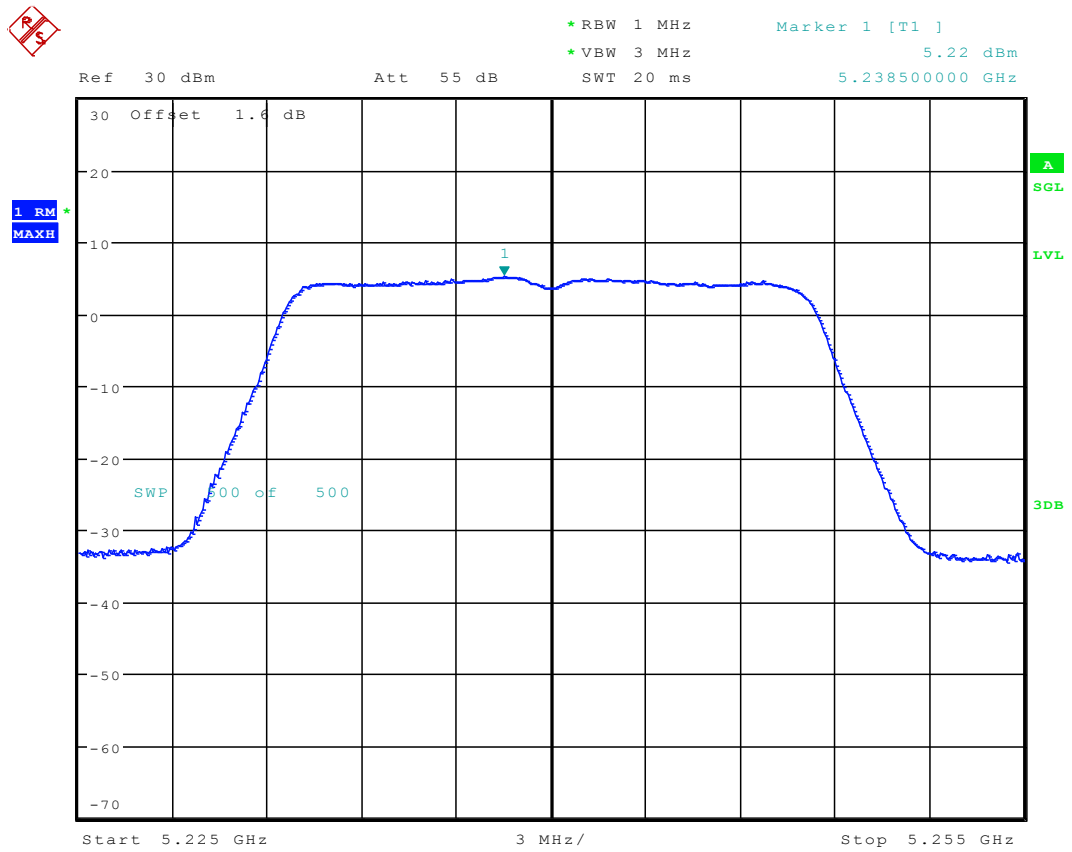
9.3 11A20_36 ANT 3



Date: 9.FEB.2017 18:19:46



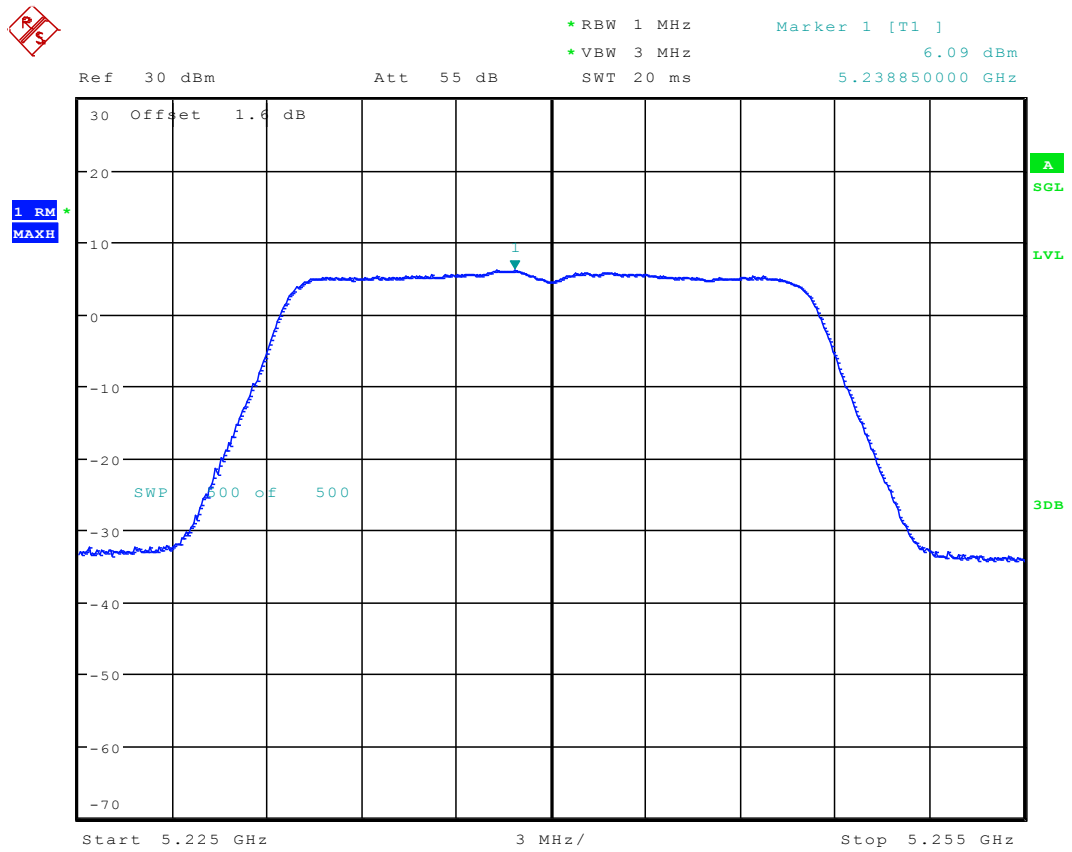
9.4 11A20_48 ANT 1



Date: 8.FEB.2017 17:11:21



9.5 11A20_48 ANT 2

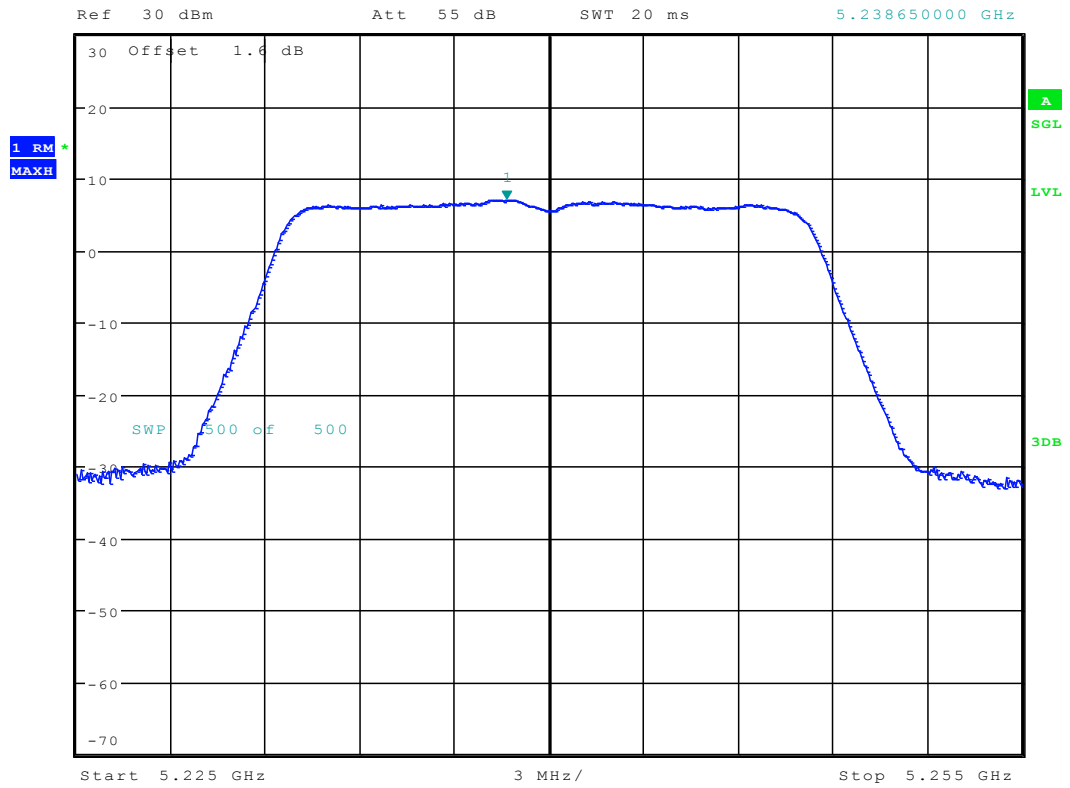


Date: 9.FEB.2017 15:24:17

9.6 11A20_48 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 7.00 dBm
SWT 20 ms 5.238650000 GHz

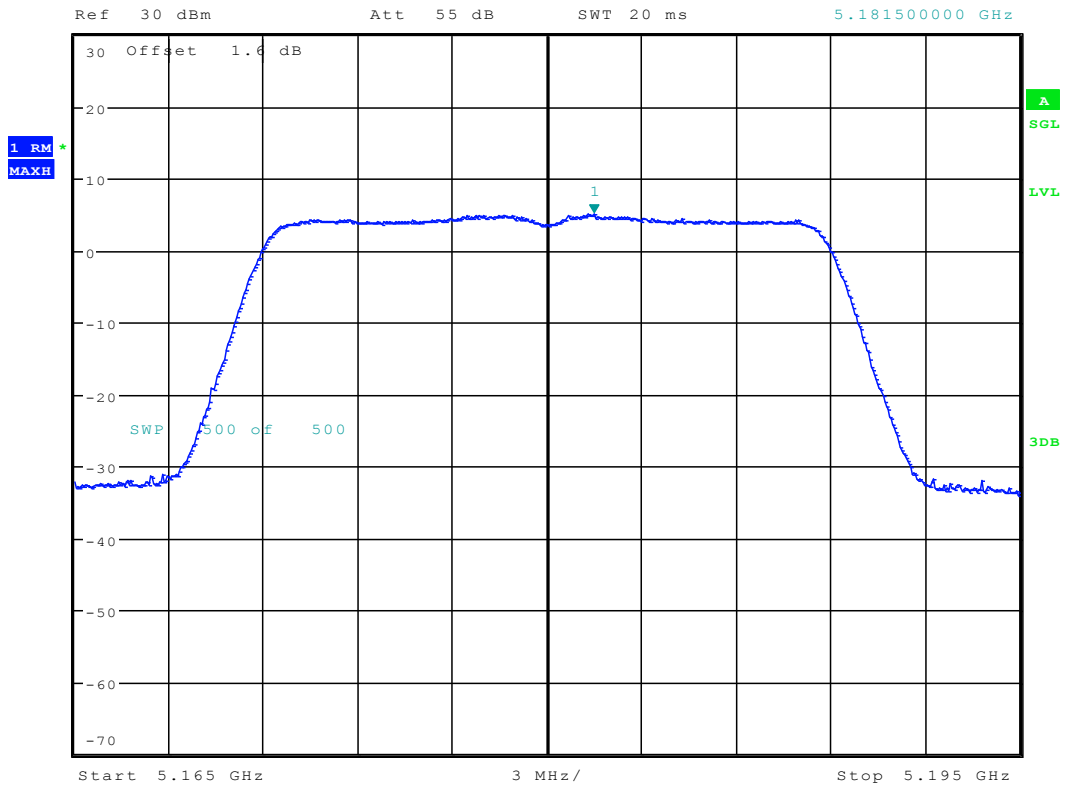


Date: 9.FEB.2017 18:25:11

9.7 11N20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.08 dBm
SWT 20 ms 5.181500000 GHz

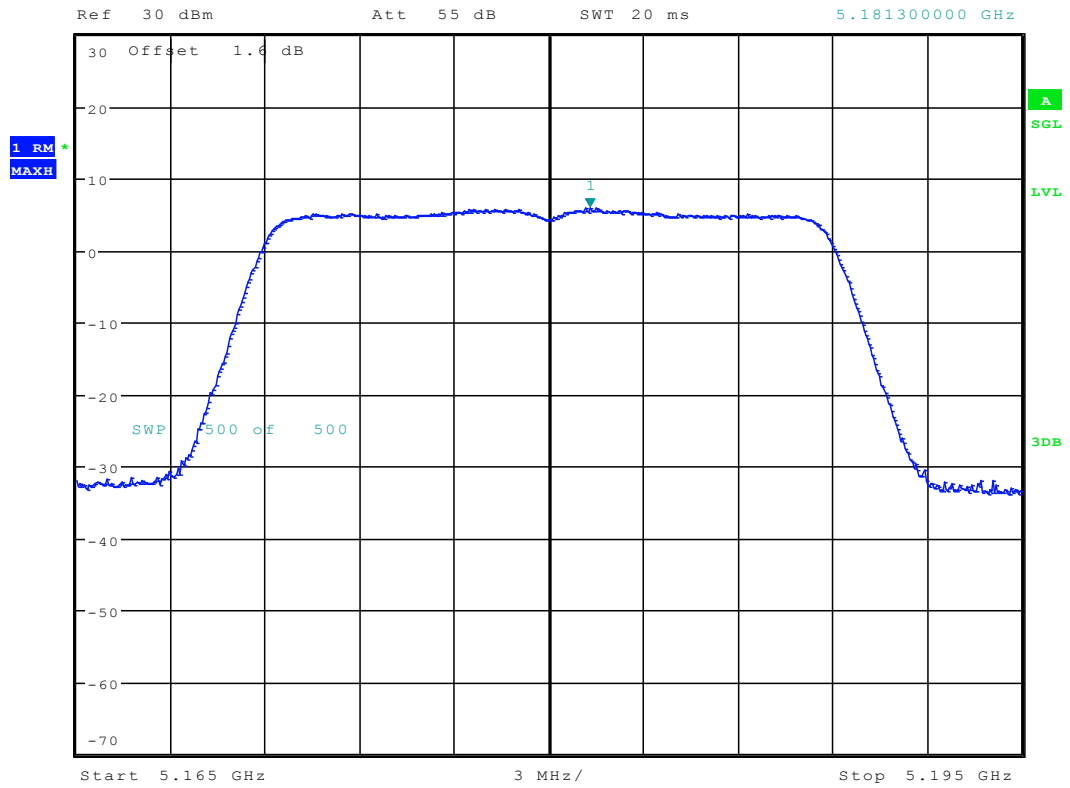


Date: 8.FEB.2017 18:25:35

9.8 11N20_36 ANT 2

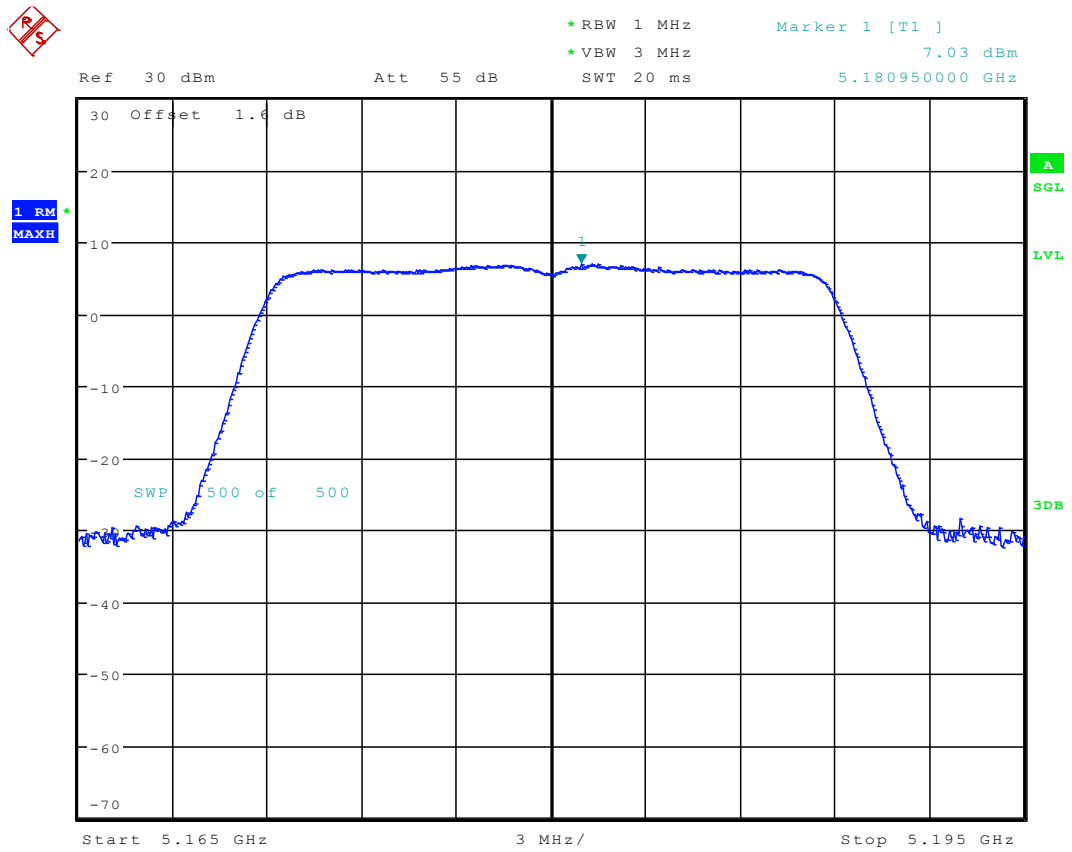


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.02 dBm
SWT 20 ms 5.181300000 GHz



Date: 9.FEB.2017 15:37:19

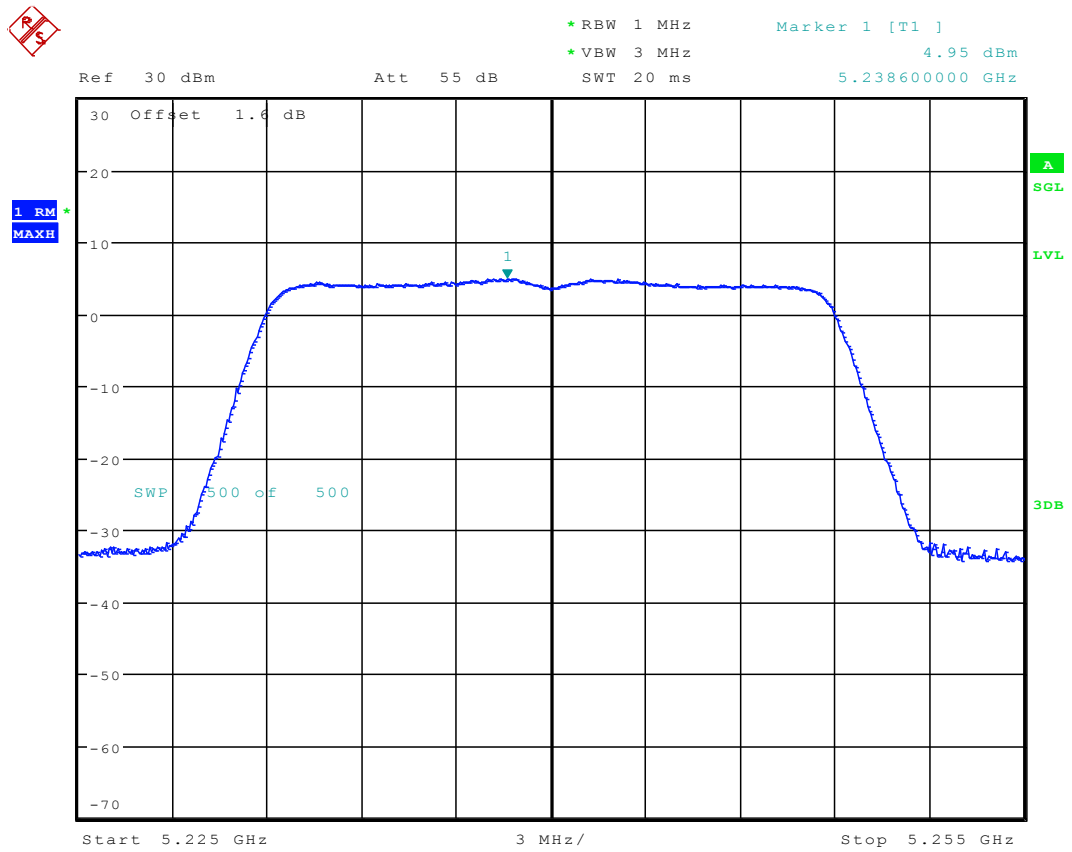
9.9 11N20_36 ANT 3



Date: 9.FEB.2017 18:34:08



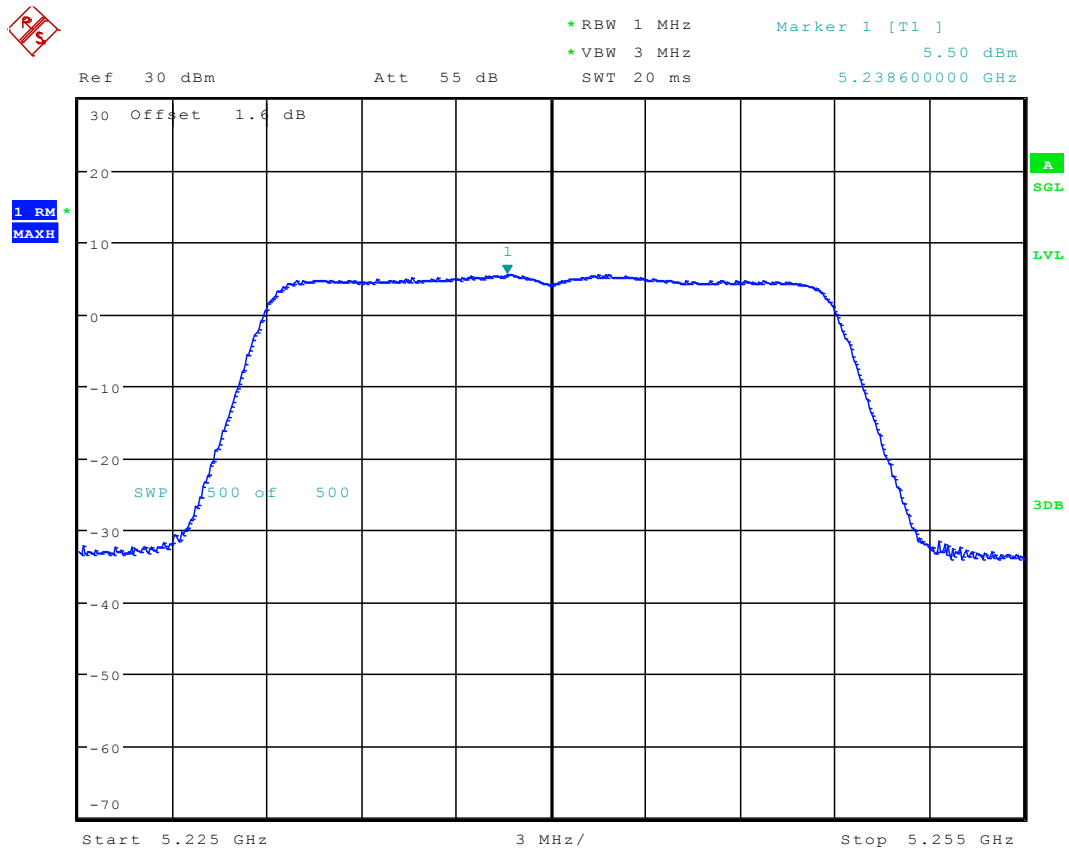
9.10 11N20_48 ANT 1



Date: 8.FEB.2017 18:31:49



9.11 11N20_48 ANT 2

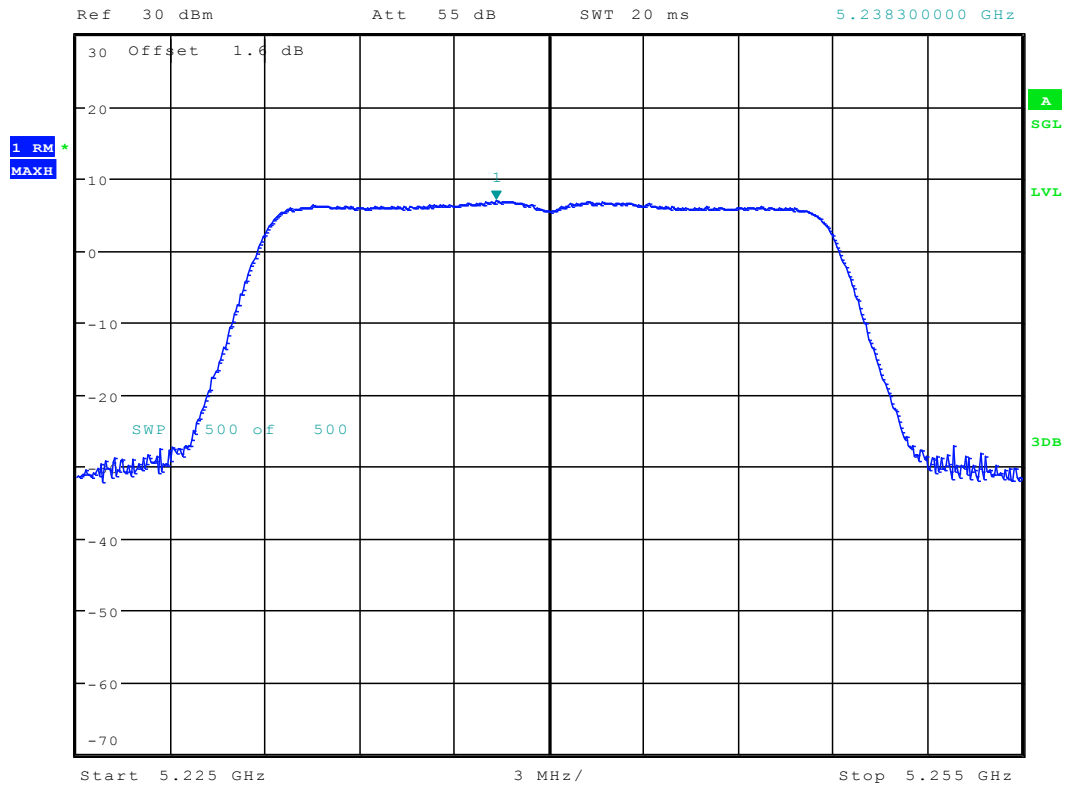


Date: 9.FEB.2017 15:48:09

9.12 11N20_48 ANT 3



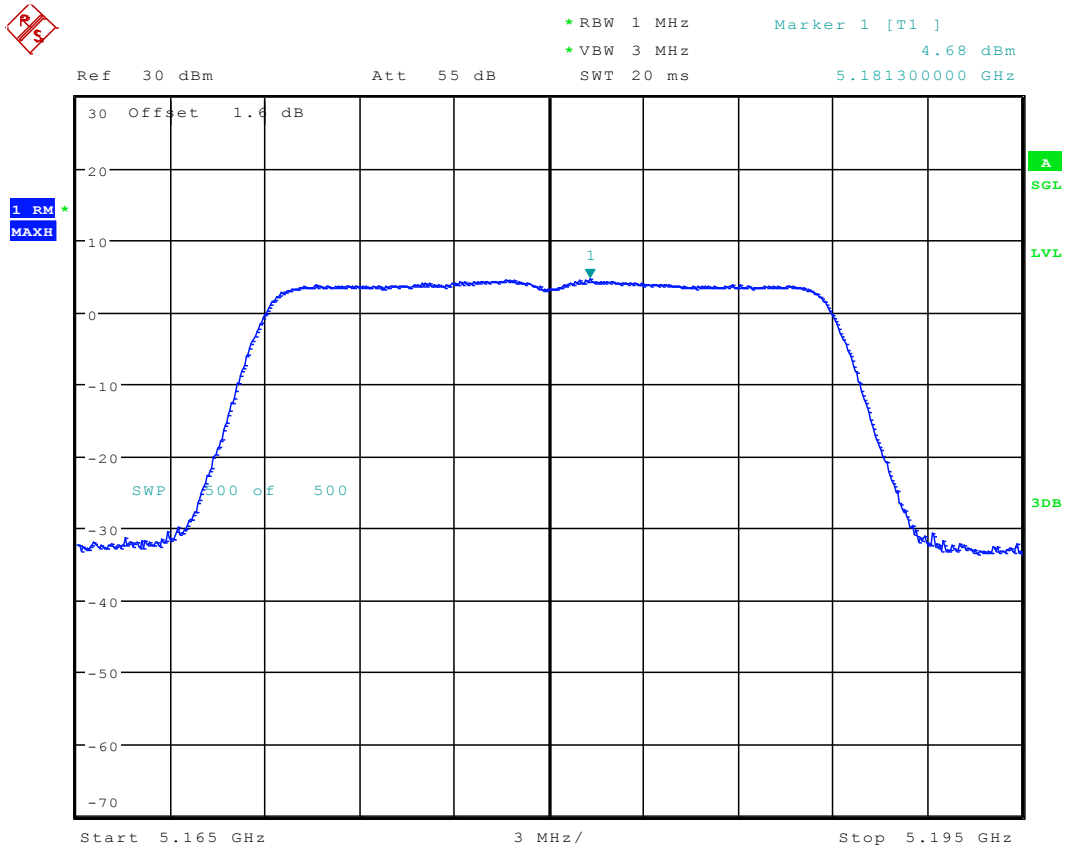
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.98 dBm
SWT 20 ms 5.238300000 GHz



Date: 9.FEB.2017 18:43:42

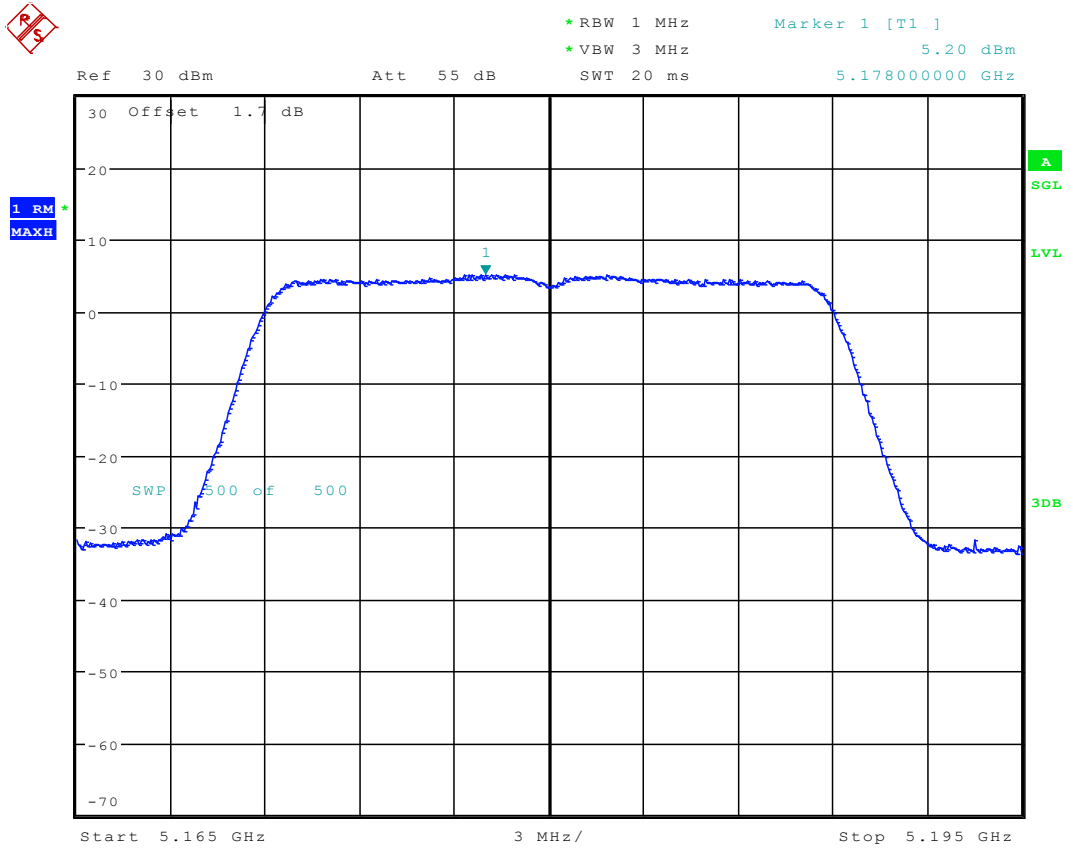


9.13 11N20MIMO_36 ANT 1



Date: 11.FEB.2017 18:33:46

9.14 11N20MIMO_36 ANT 2



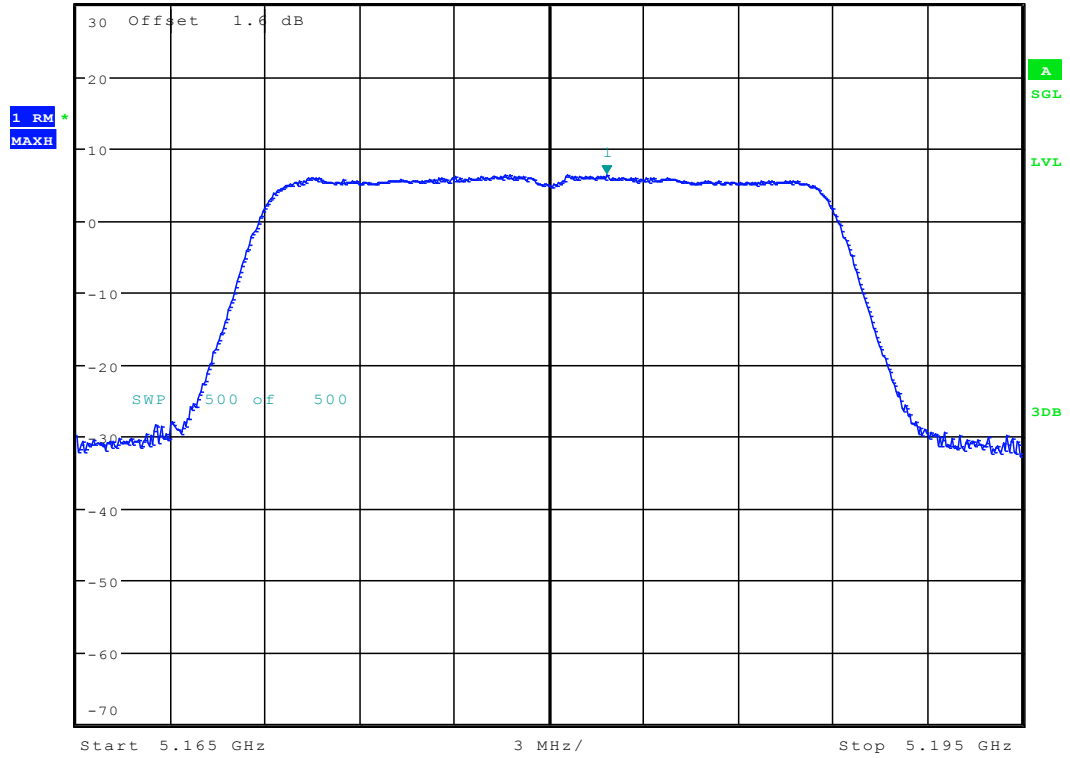
Date: 11.FEB.2017 17:25:42



9.15 11N20MIMO_36 ANT 3



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 6.35 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.181850000 GHz

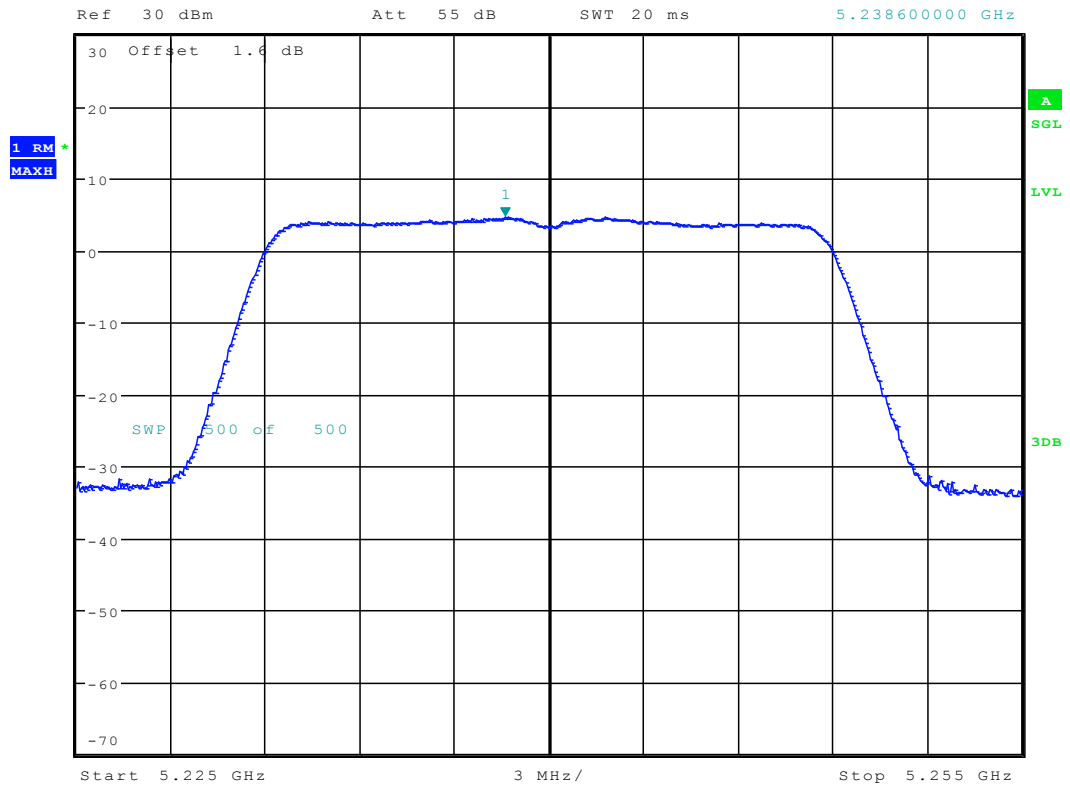


Date: 11.FEB.2017 16:30:00

9.16 11N20MIMO_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.65 dBm
SWT 20 ms 5.238600000 GHz



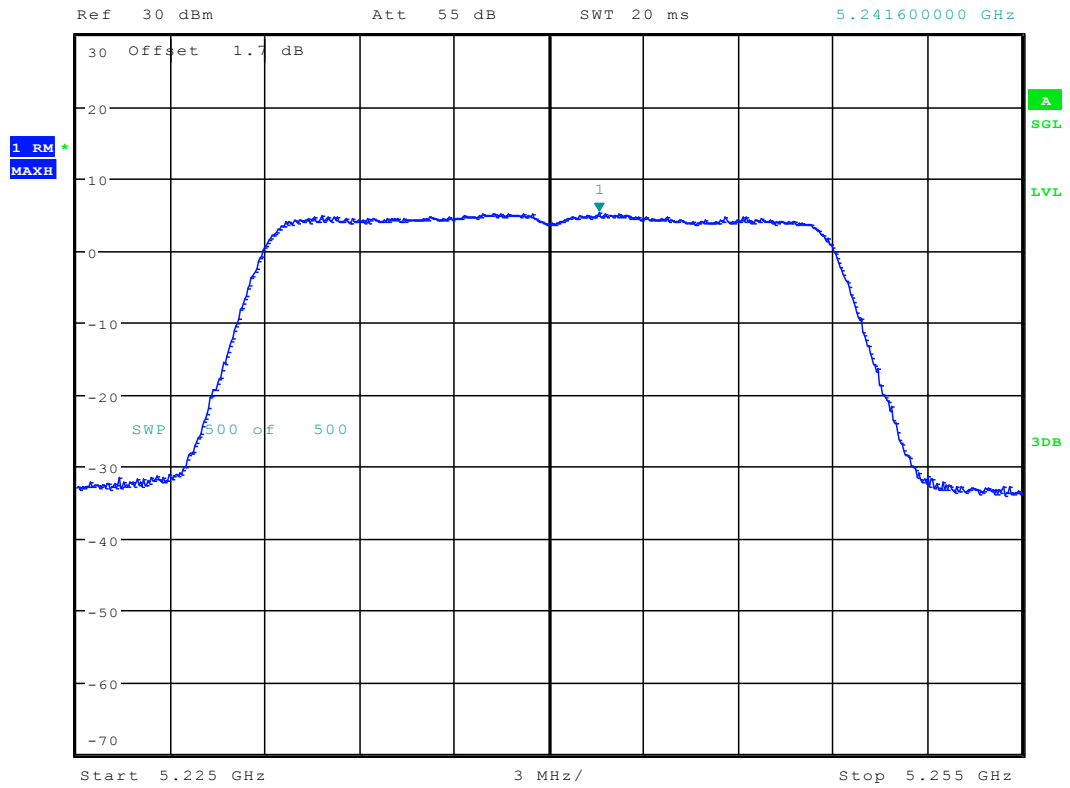
Date: 11.FEB.2017 18:38:53



9.17 11N20MIMO_48 ANT 2



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.26 dBm
SWT 20 ms 5.241600000 GHz

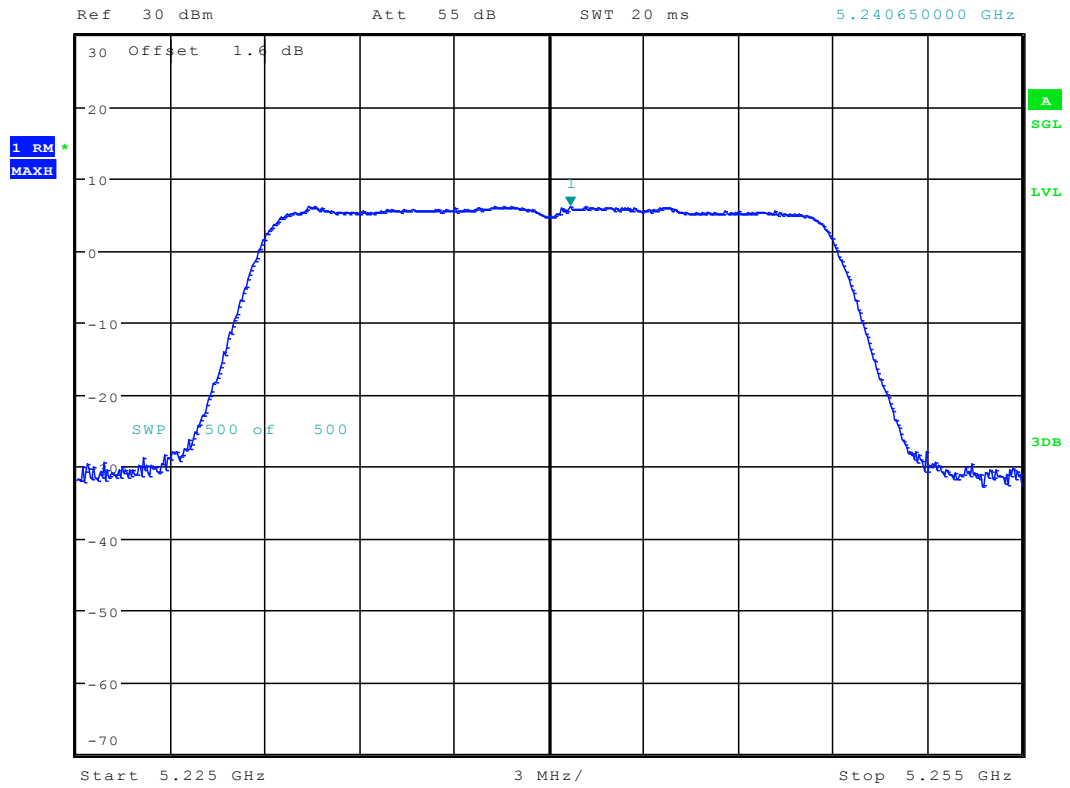


Date: 11.FEB.2017 17:20:20

9.18 11N20MIMO_48 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.22 dBm
SWT 20 ms 5.240650000 GHz



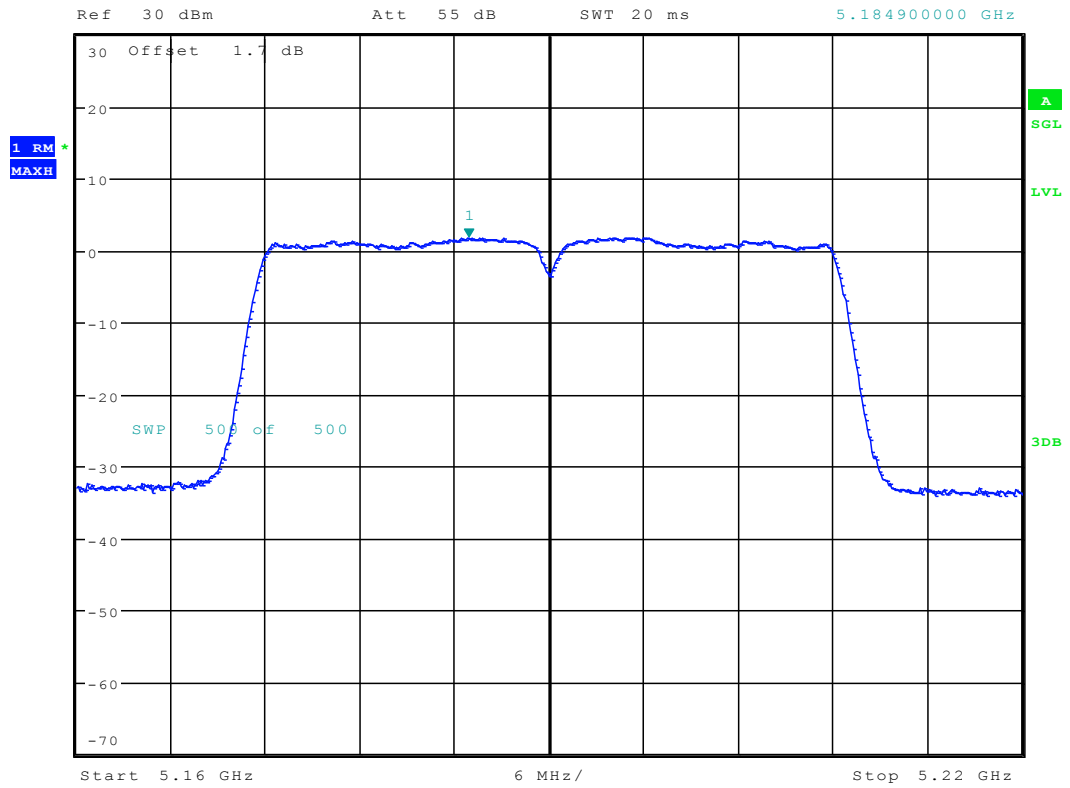
Date: 11.FEB.2017 16:38:24



9.19 11N40_38 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 1.84 dBm
SWT 20 ms 5.184900000 GHz



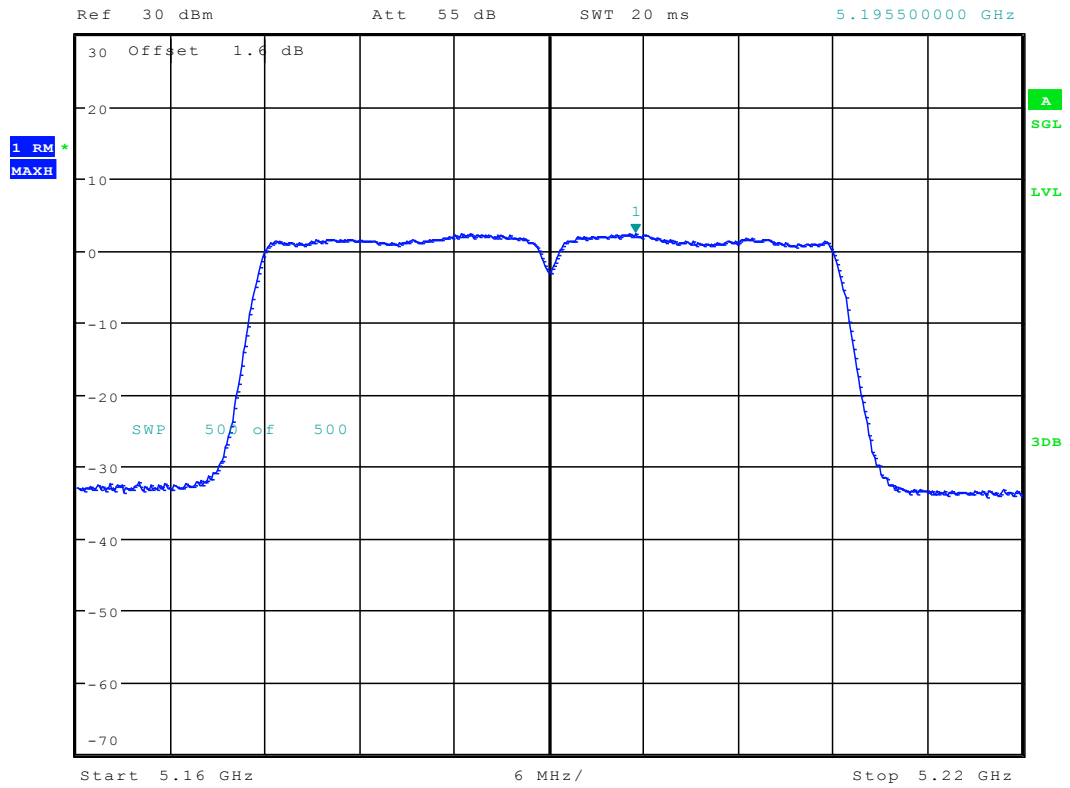
Date: 9.FEB.2017 11:27:35



9.20 11N40_38 ANT 2



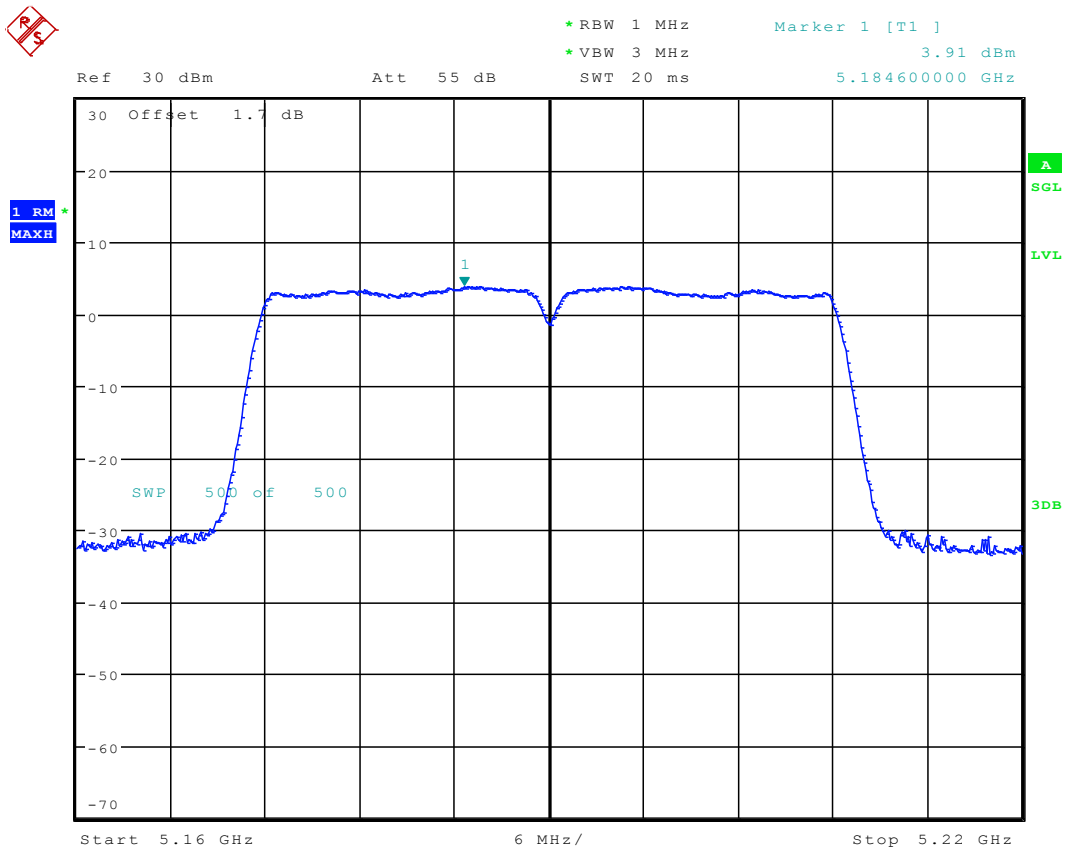
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.39 dBm
SWT 20 ms 5.195500000 GHz



Date: 9.FEB.2017 16:17:25

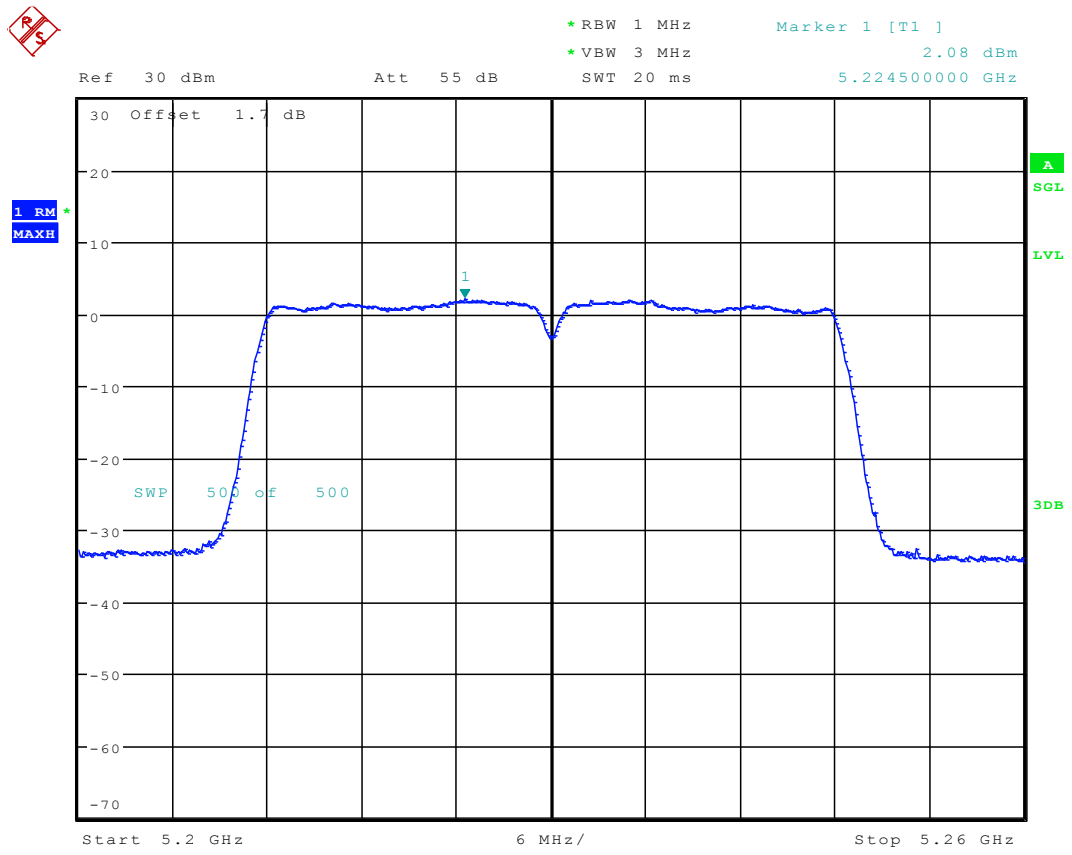


9.21 11N40_38 ANT 3



Date: 9.FEB.2017 19:50:41

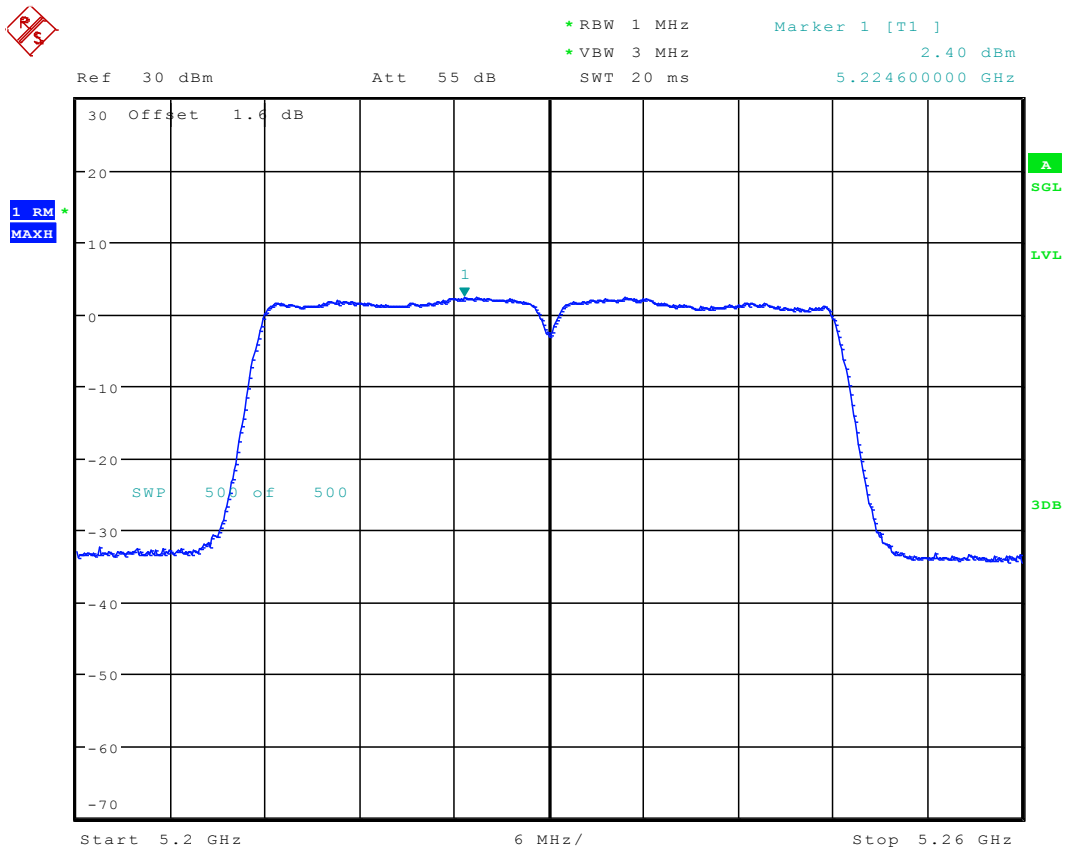
9.22 11N40_46 ANT 1



Date: 9.FEB.2017 11:34:50



9.23 11N40_46 ANT 2

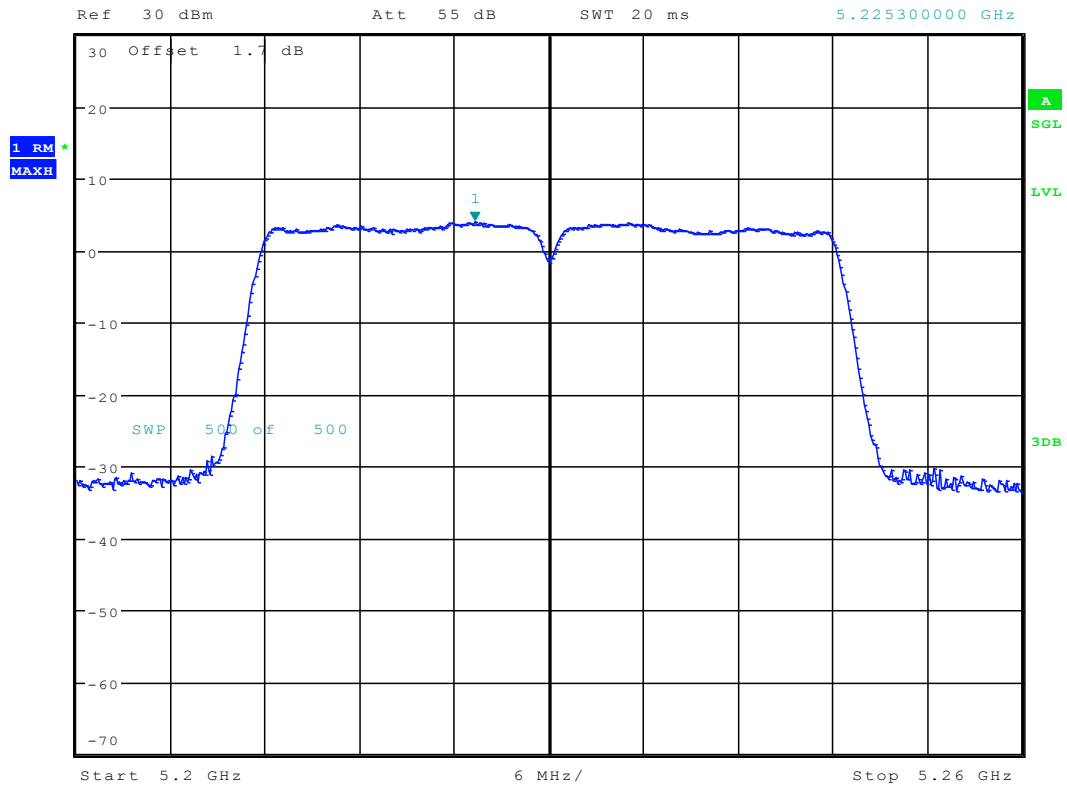


Date: 9.FEB.2017 16:23:16

9.24 11N40_46 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.11 dBm
SWT 20 ms 5.225300000 GHz

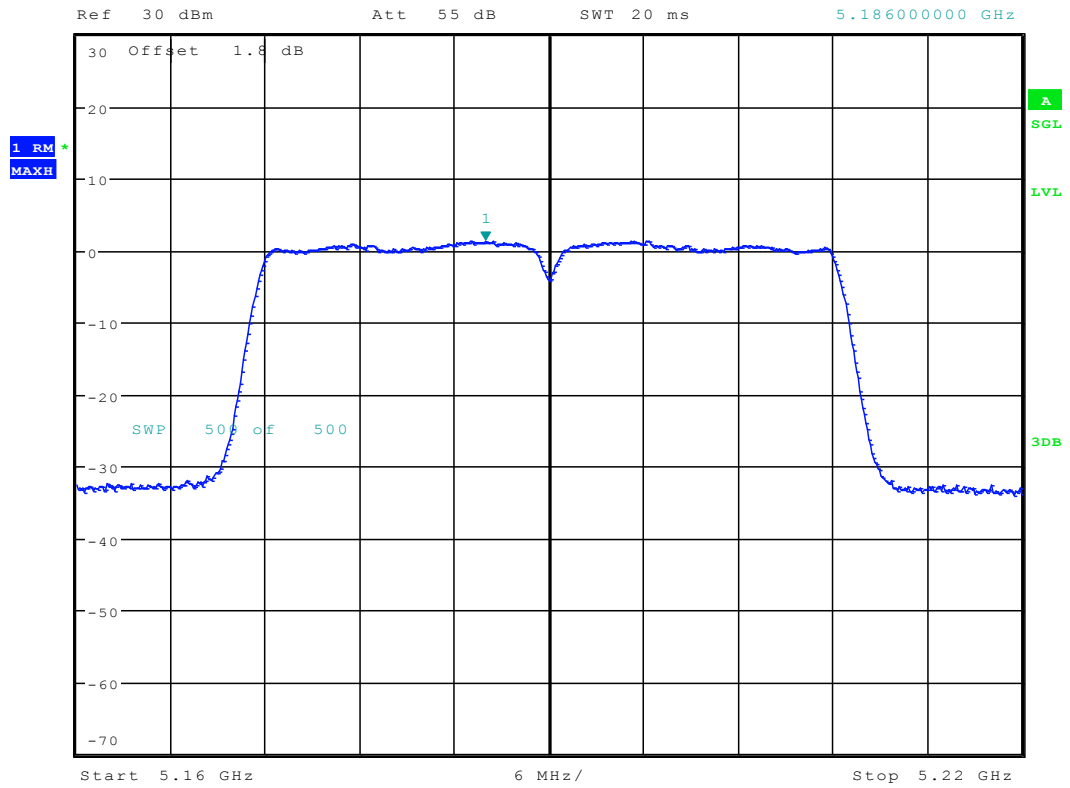


Date: 9.FEB.2017 19:57:01

9.25 11N40MIMO_38 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 1.42 dBm
SWT 20 ms 5.18600000 GHz



Date: 11.FEB.2017 18:49:51

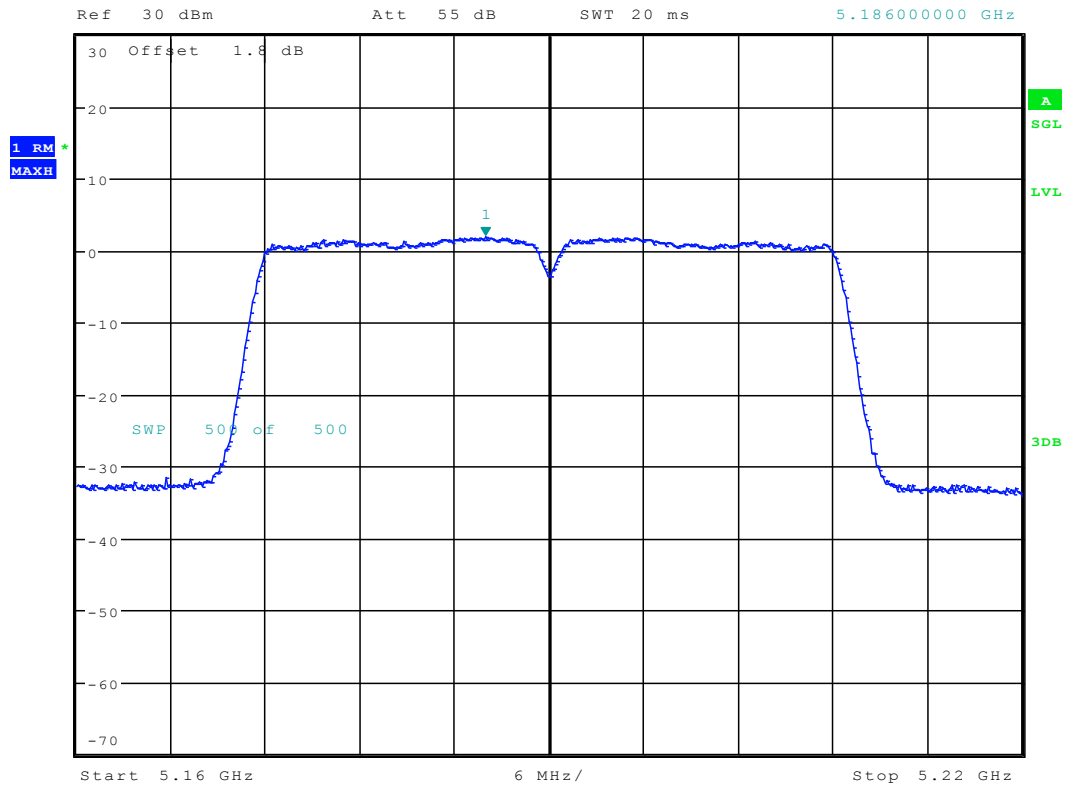


9.26 11N40MIMO_38 ANT 2



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
1.90 dBm
5.186000000 GHz



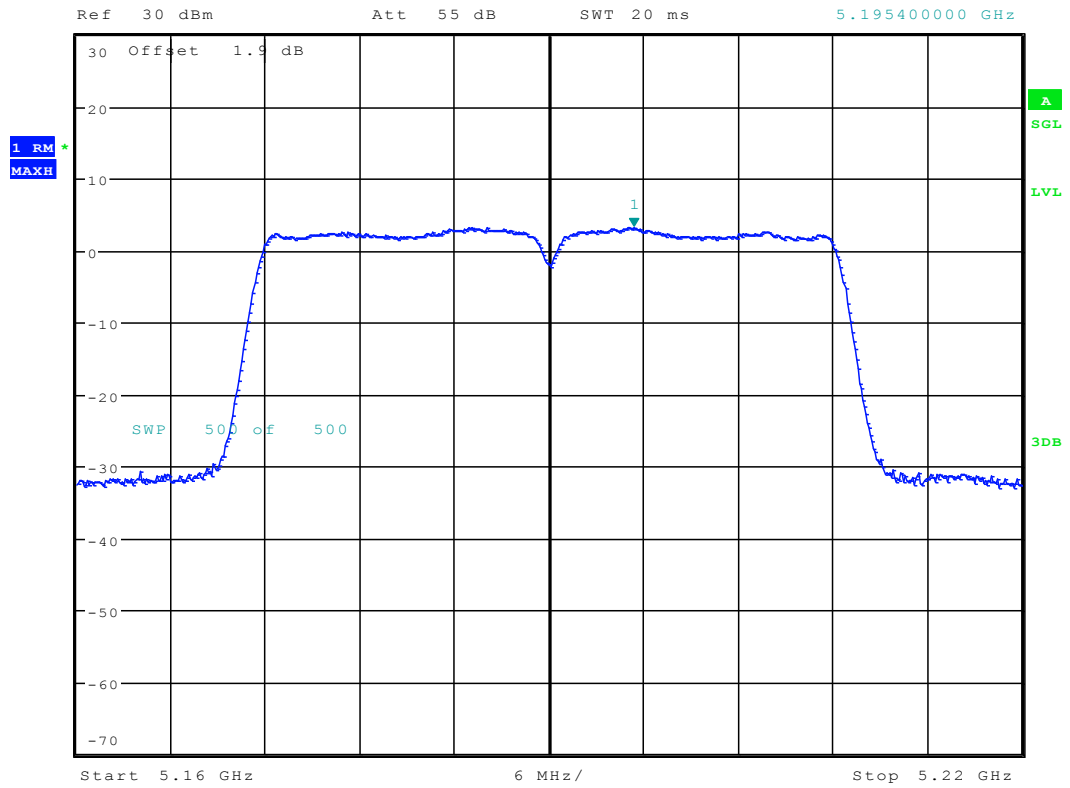
Date: 11.FEB.2017 17:34:03



9.27 11N40MIMO_38 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.26 dBm
SWT 20 ms 5.195400000 GHz



Date: 11.FEB.2017 16:51:49

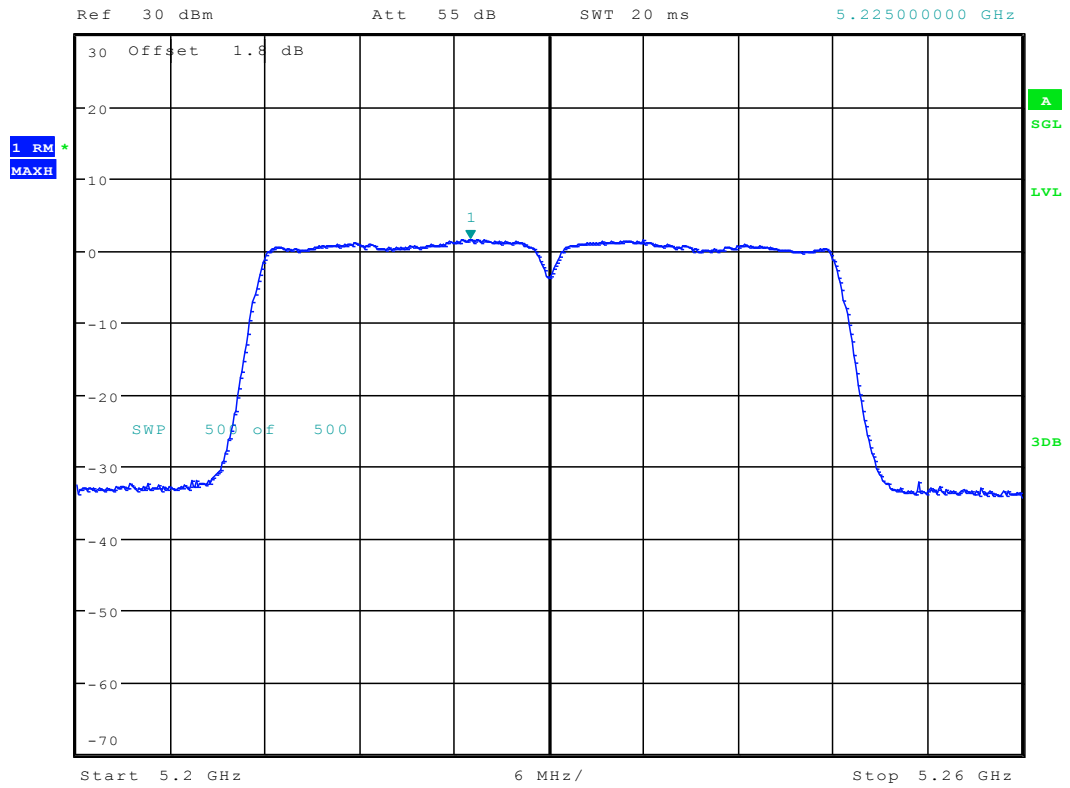


9.28 11N40MIMO_46 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
1.56 dBm
5.225000000 GHz



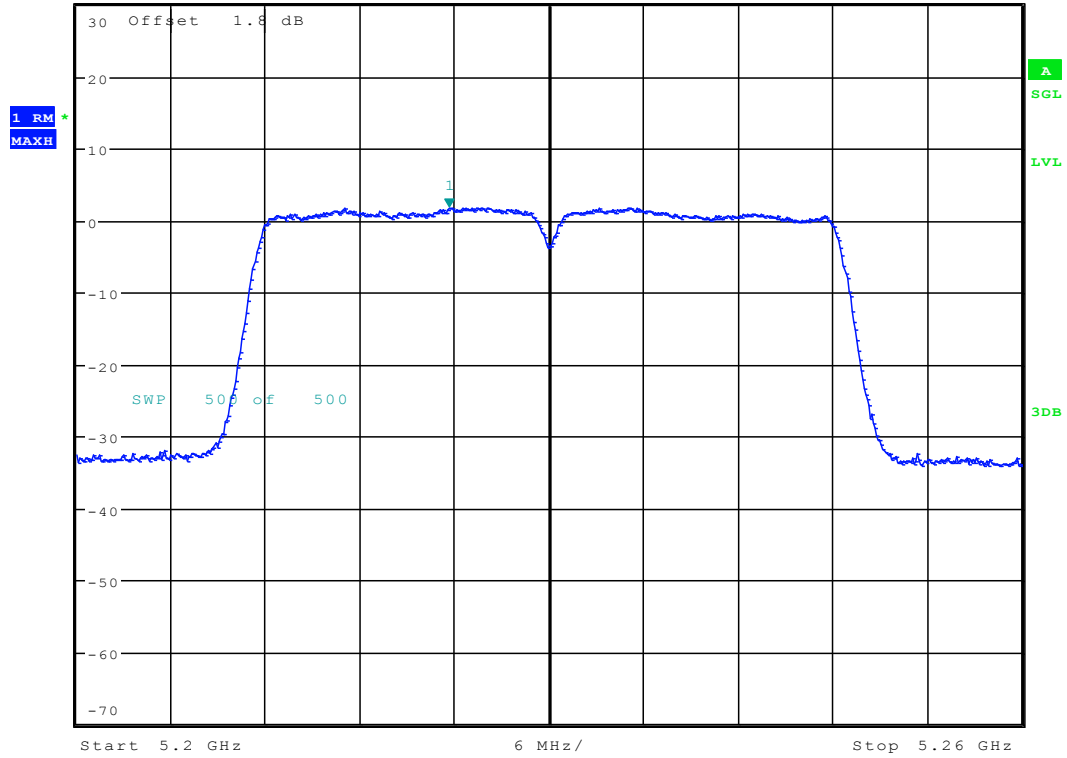
Date: 11.FEB.2017 18:55:01



9.29 11N40MIMO_46 ANT 2



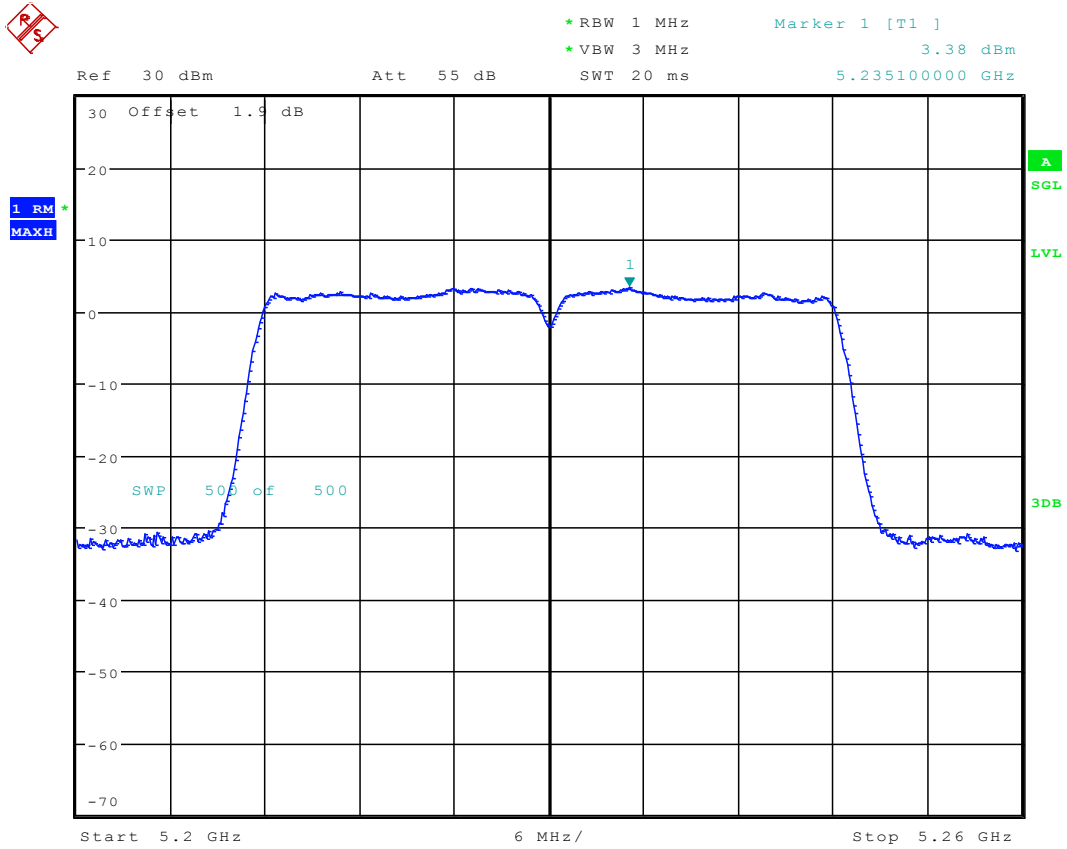
*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 1.81 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.223700000 GHz



Date: 11.FEB.2017 17:39:27



9.30 11N40MIMO_46 ANT 3



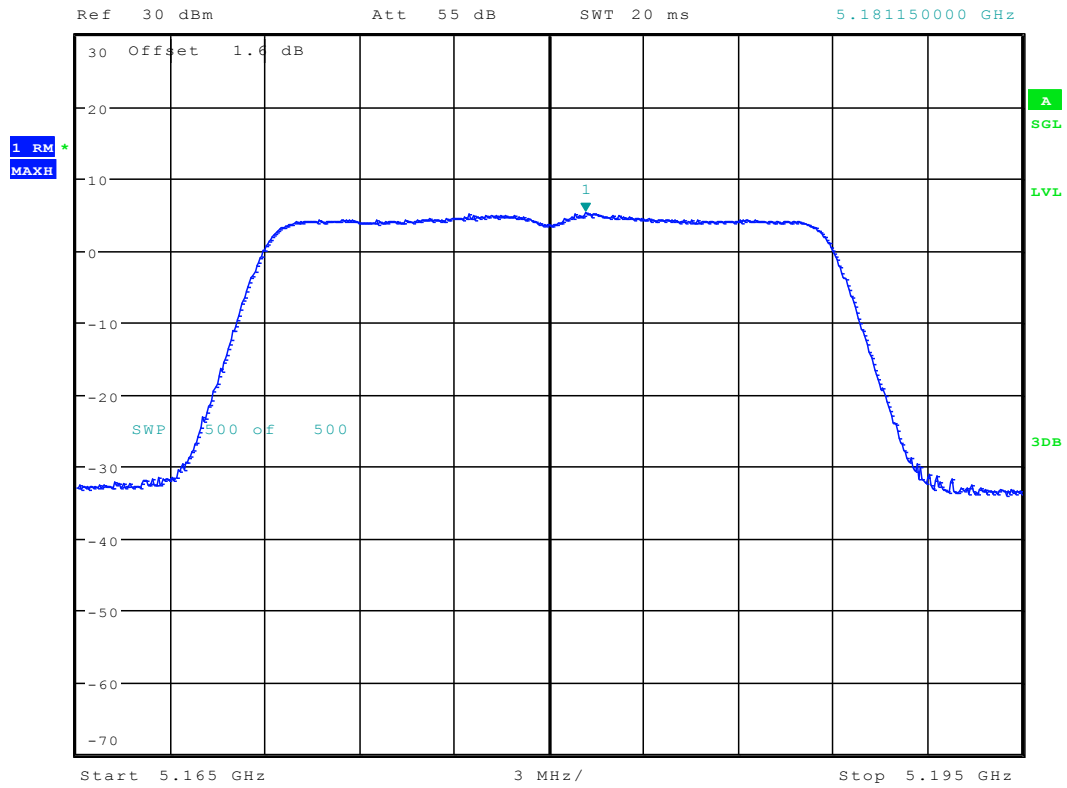
Date: 11.FEB.2017 16:57:13



9.31 11AC20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.34 dBm
SWT 20 ms 5.181150000 GHz



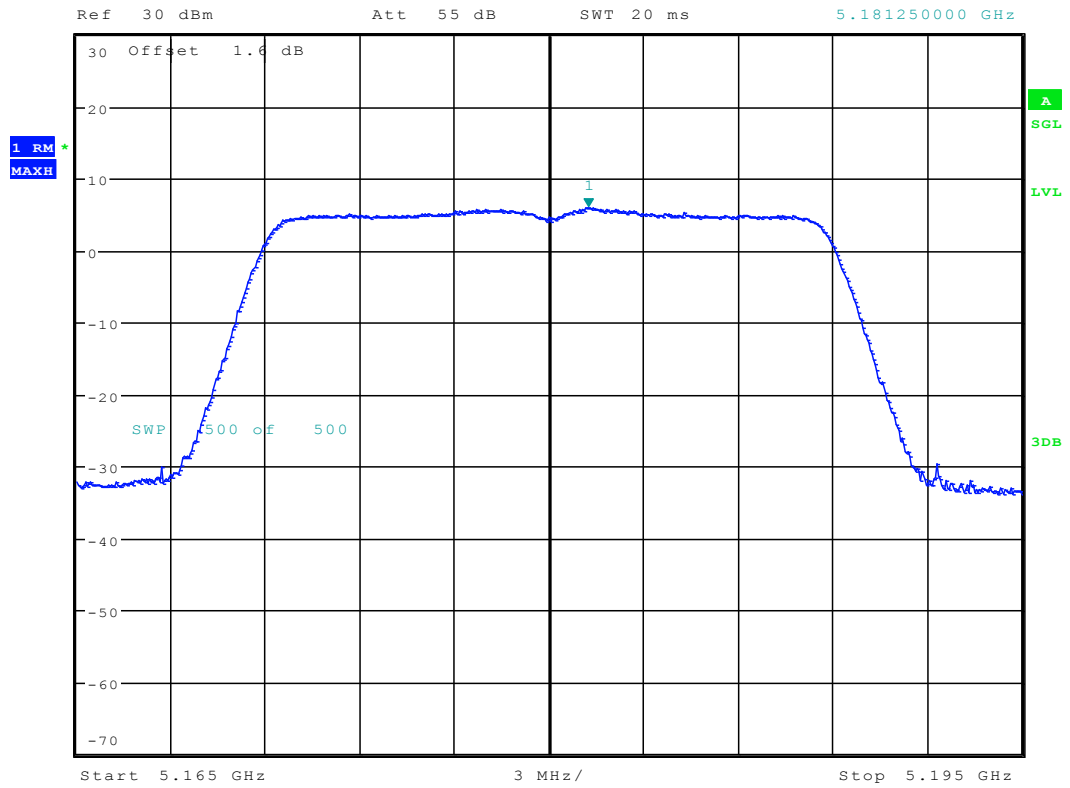
Date: 9.FEB.2017 10:41:11



9.32 11AC20_36 ANT 2



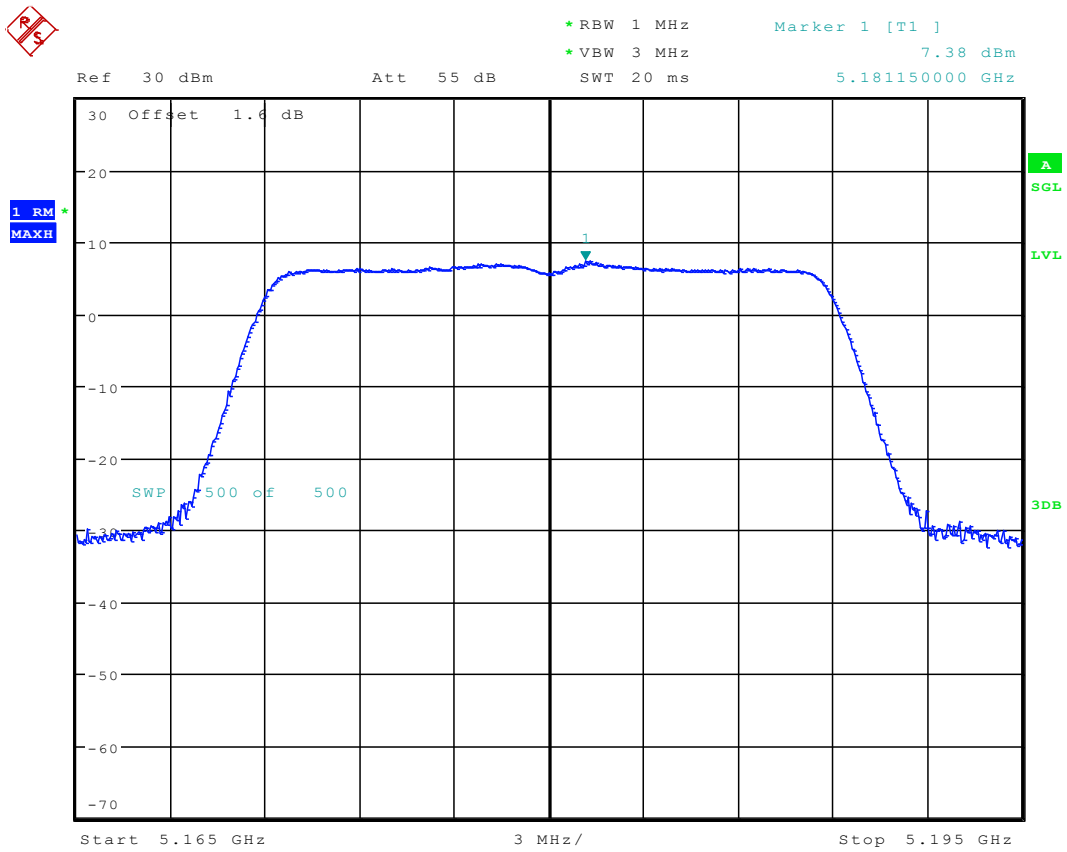
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.00 dBm
SWT 20 ms 5.181250000 GHz



Date: 9.FEB.2017 15:56:44

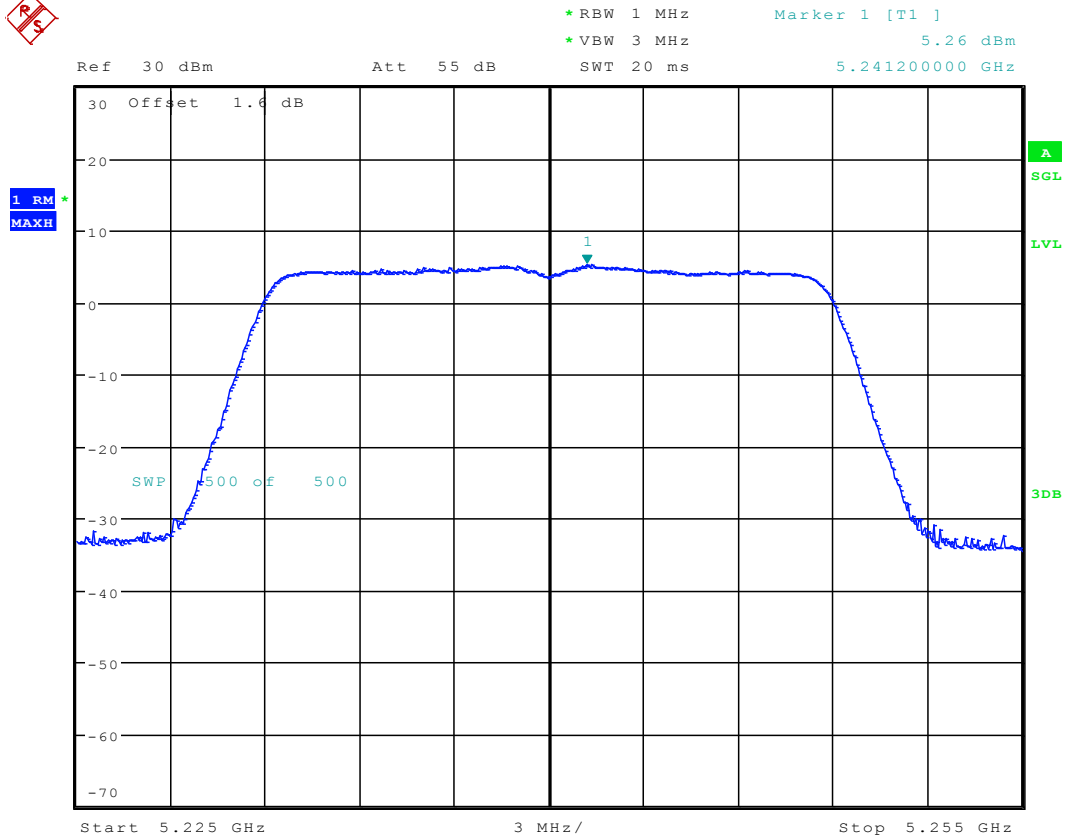


9.33 11AC20_36 ANT 3



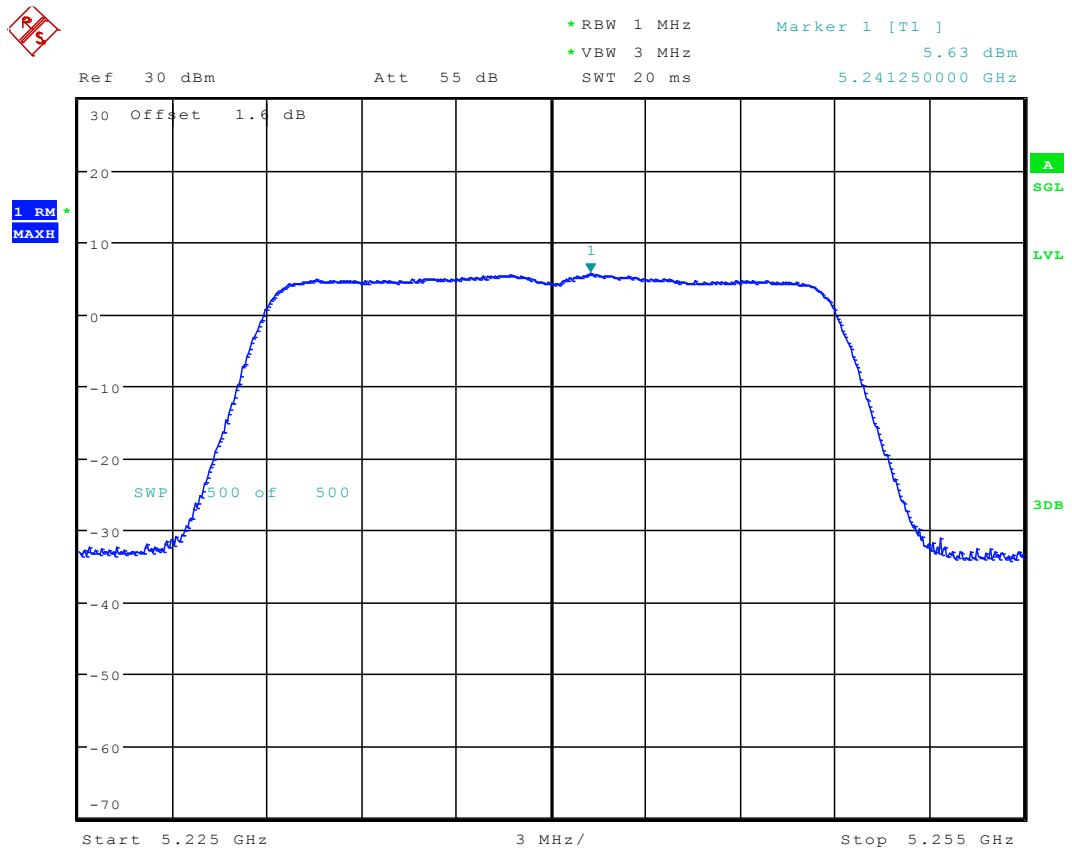
Date: 9.FEB.2017 19:29:15

9.34 11AC20_48 ANT 1



Date: 9.FEB.2017 10:46:33

9.35 11AC20_48 ANT 2



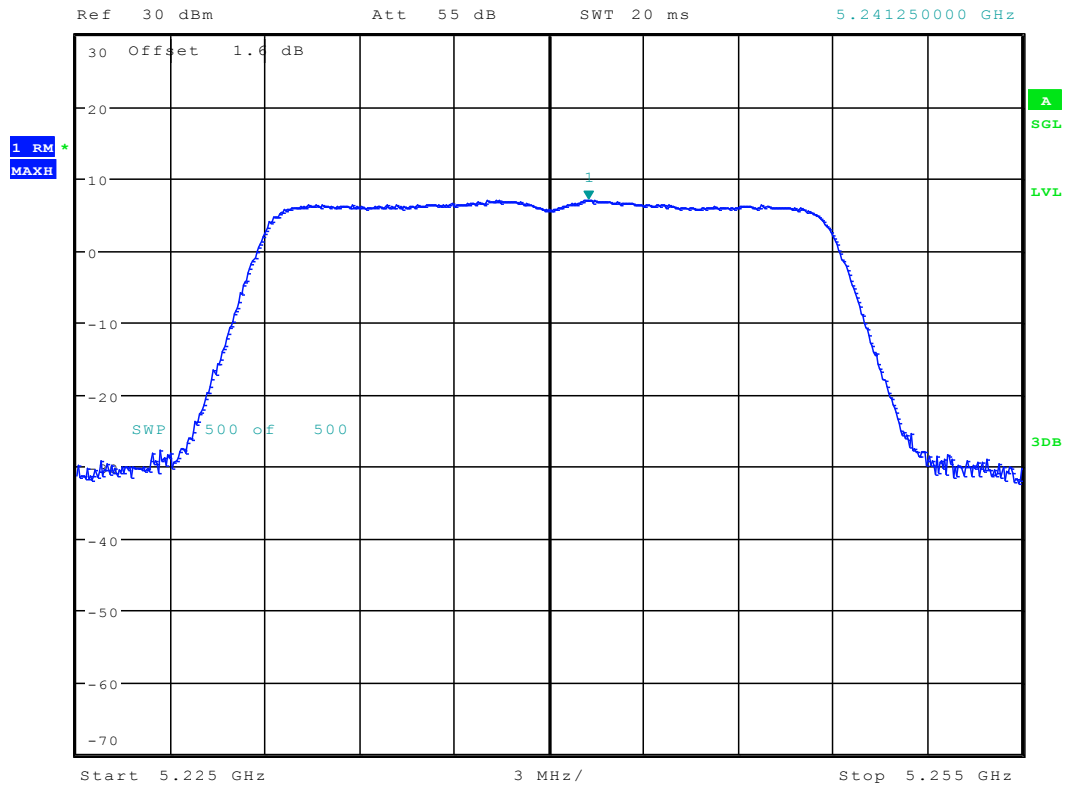
Date: 9.FEB.2017 16:02:28



9.36 11AC20_48 ANT 3



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms
Marker 1 [T1]
7.10 dBm
5.241250000 GHz



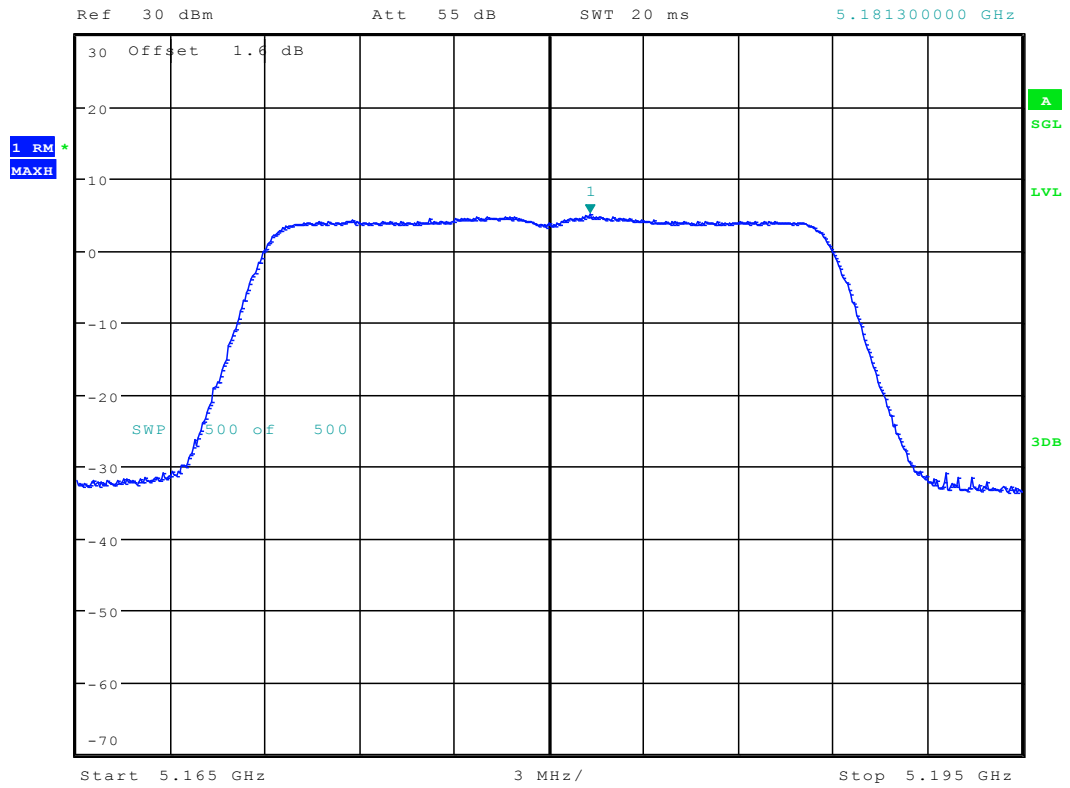
Date: 9.FEB.2017 19:36:46



9.37 11AC20MIMO_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.06 dBm
SWT 20 ms 5.181300000 GHz

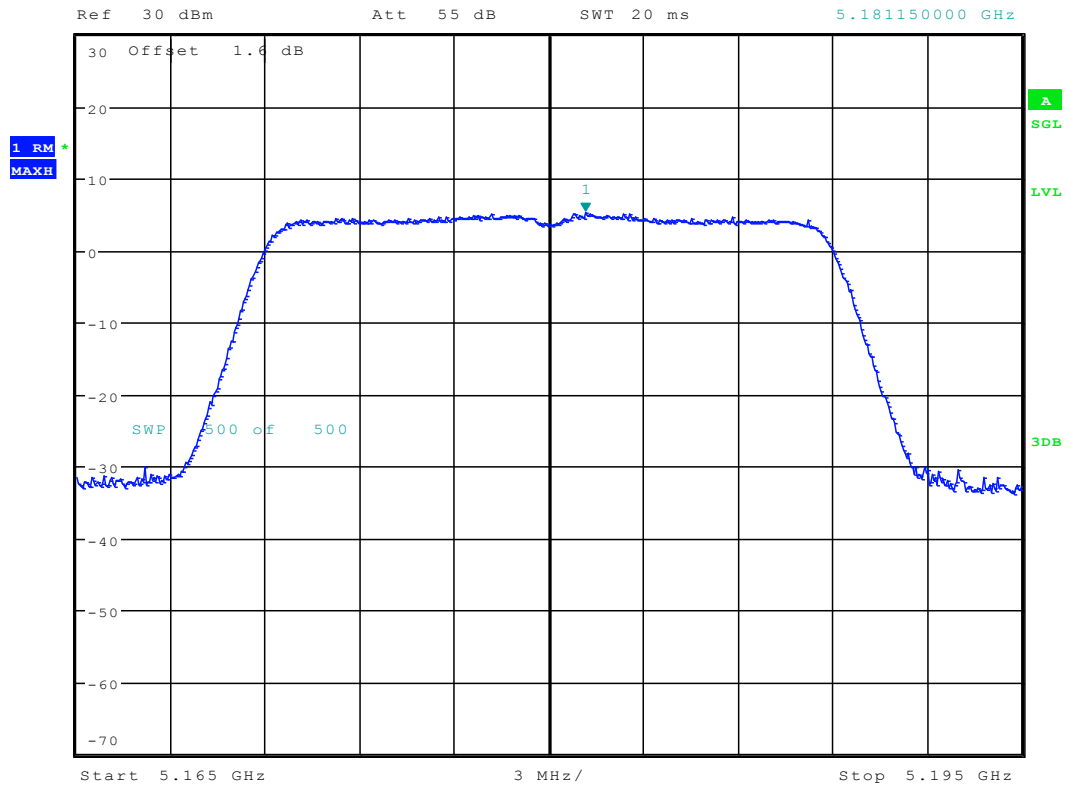


Date: 13.FEB.2017 09:48:31

9.38 11AC20MIMO_36 ANT 2



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.28 dBm
SWT 20 ms 5.181150000 GHz



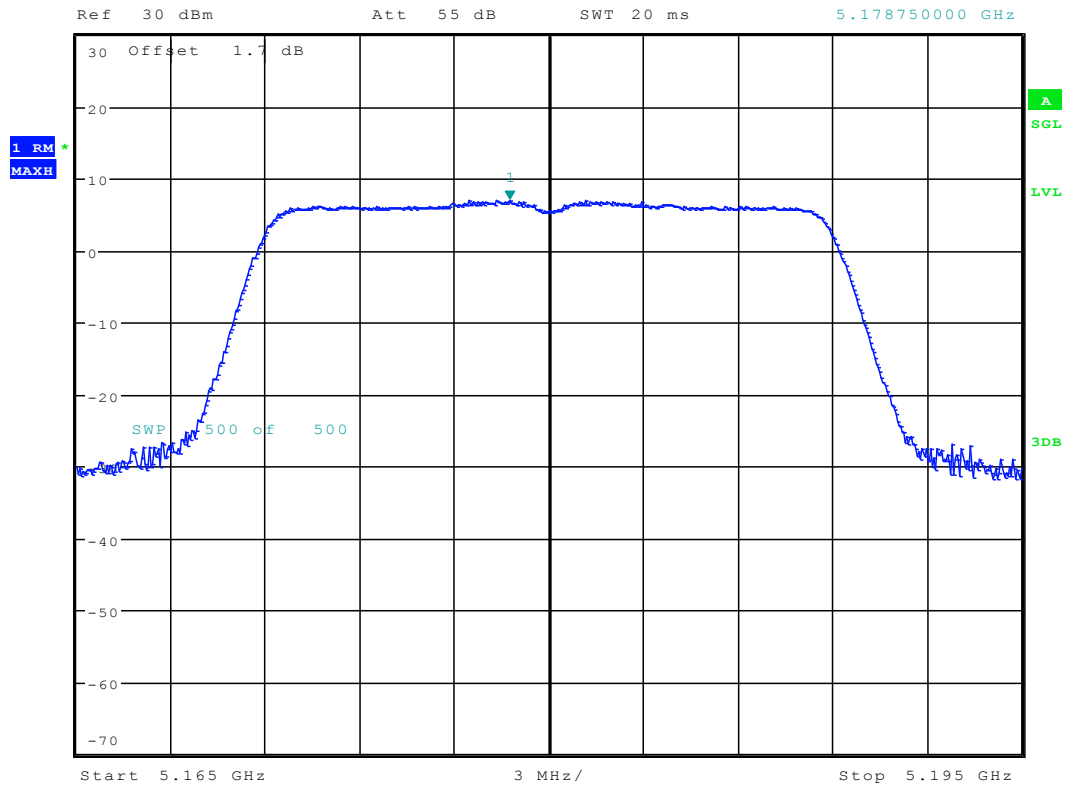
Date: 11.FEB.2017 17:47:42



9.39 11AC20MIMO_36 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 7.09 dBm
SWT 20 ms 5.178750000 GHz



Date: 14.FEB.2017 15:23:01

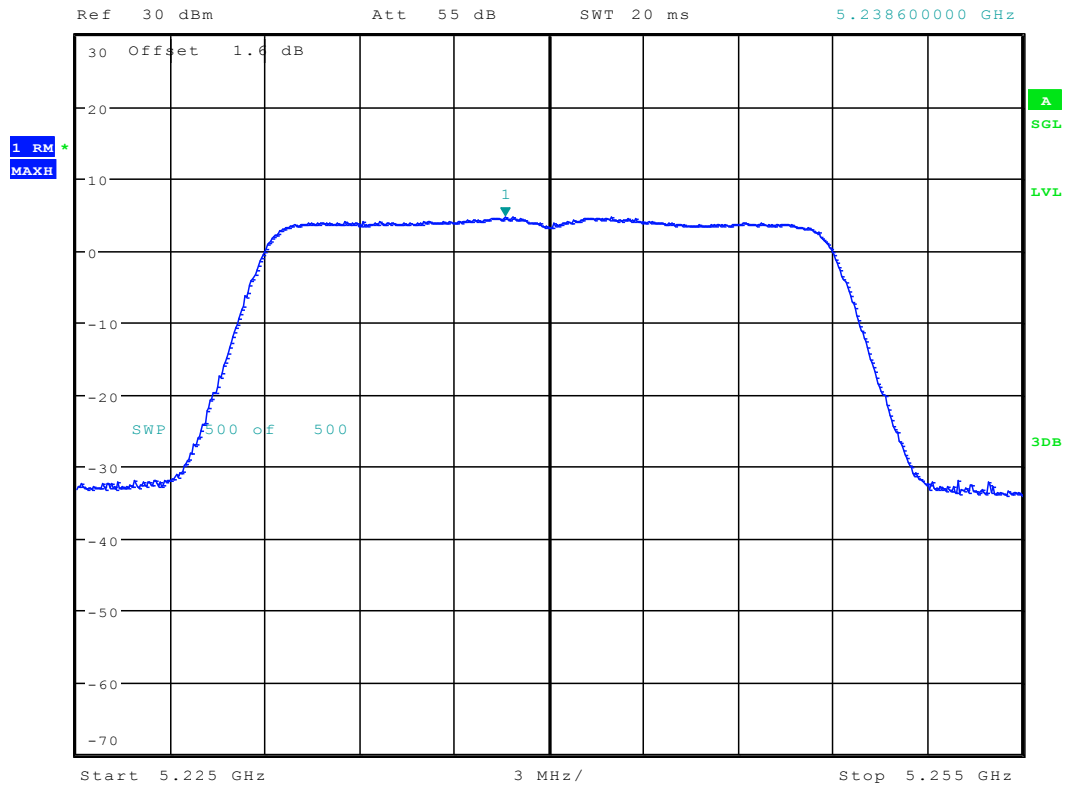


9.40 11AC20MIMO_48 ANT 1



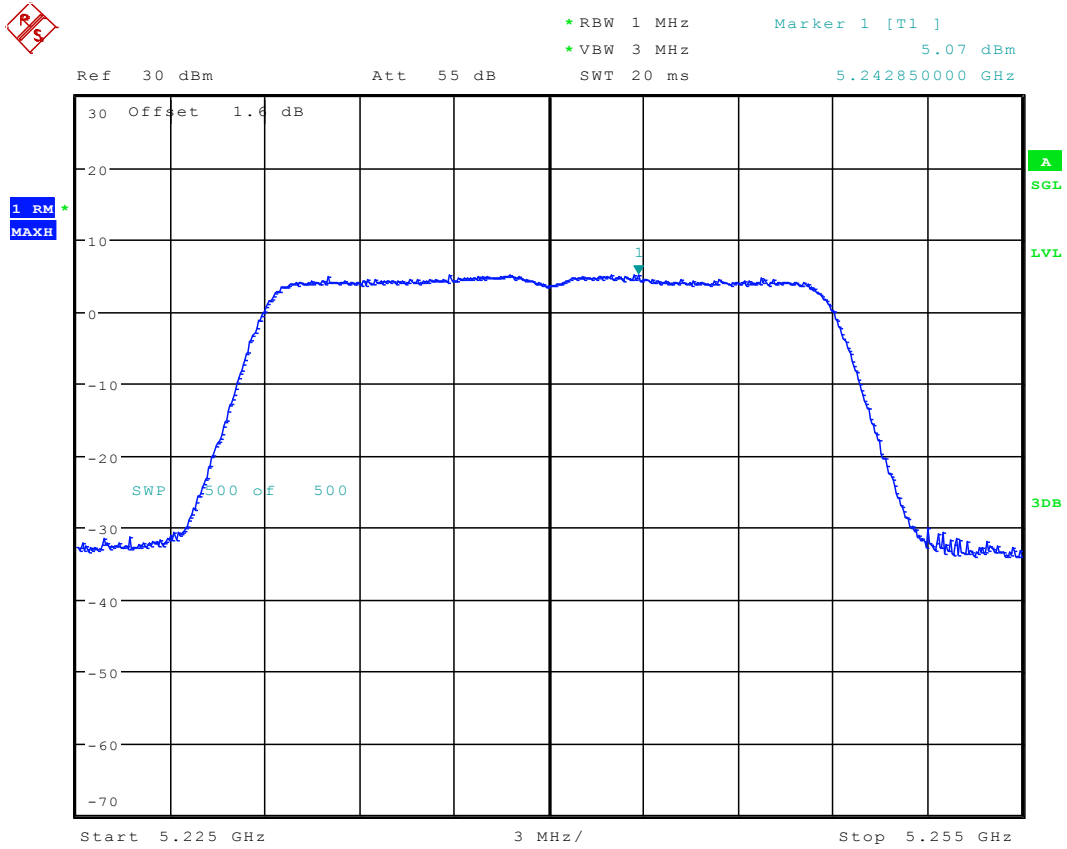
*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
4.68 dBm
5.238600000 GHz



Date: 13.FEB.2017 09:53:52

9.41 11AC20MIMO_48 ANT 2

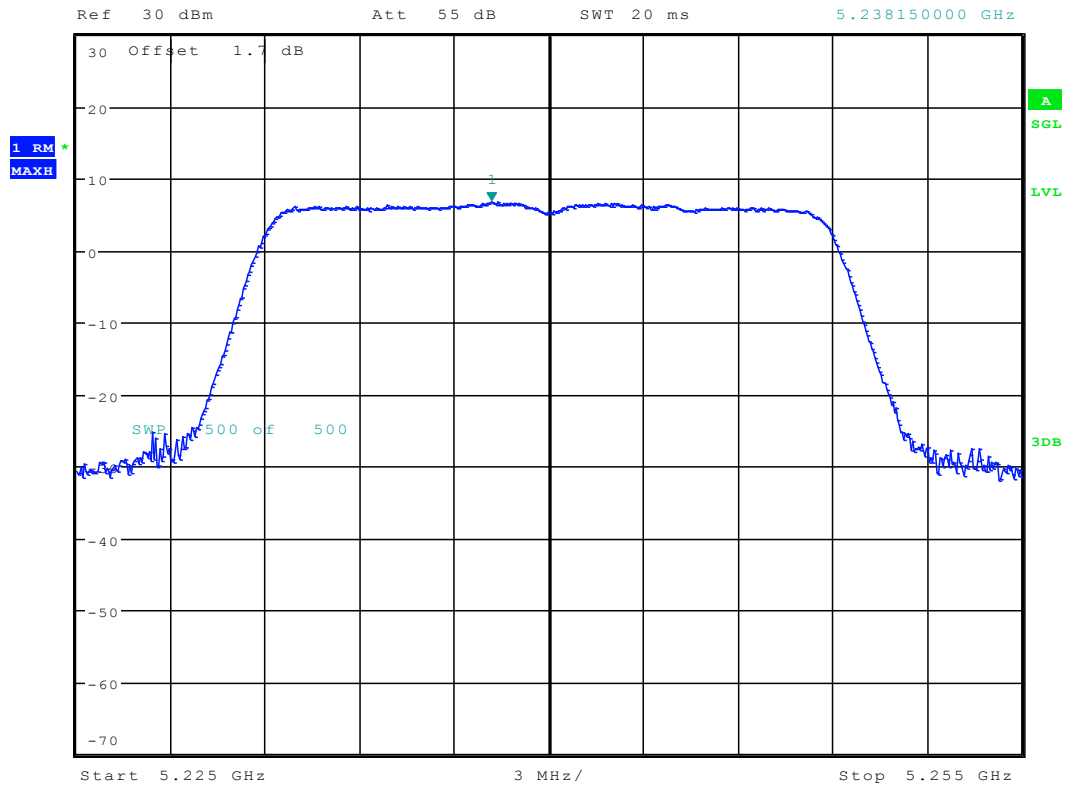


Date: 11.FEB.2017 17:52:51

9.42 11AC20MIMO_48 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.75 dBm
SWT 20 ms 5.238150000 GHz



Date: 14.FEB.2017 15:28:22

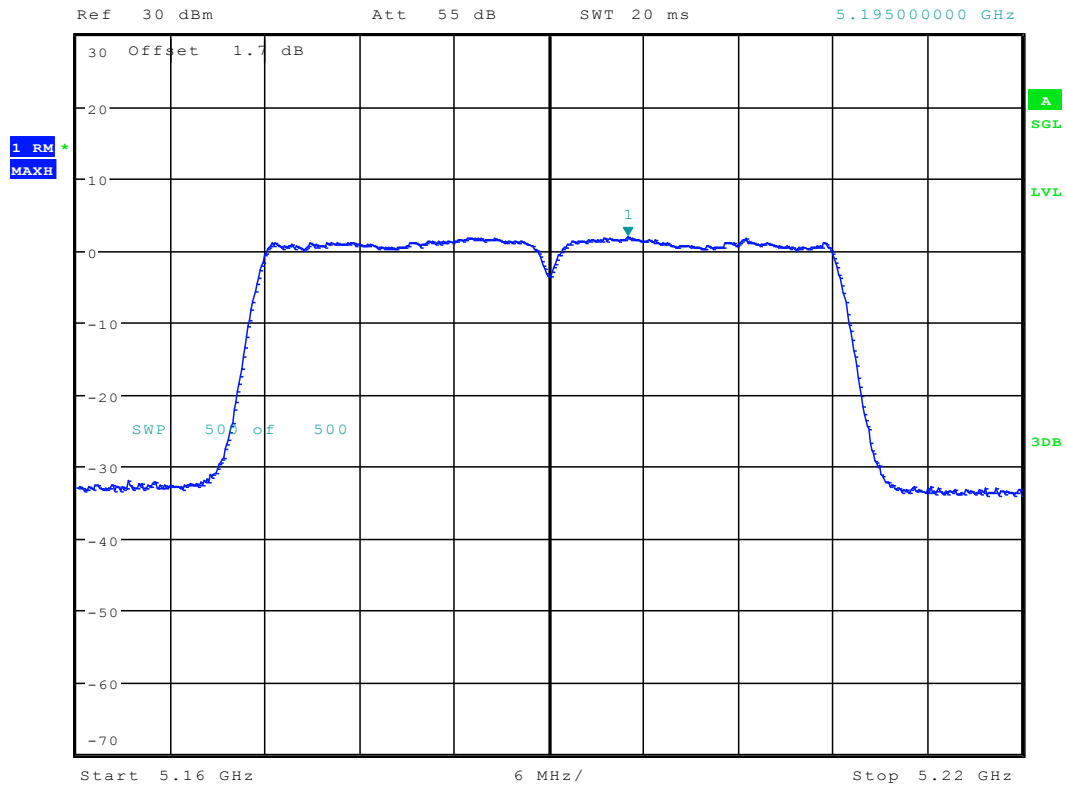


9.43 11AC40_38 ANT 1



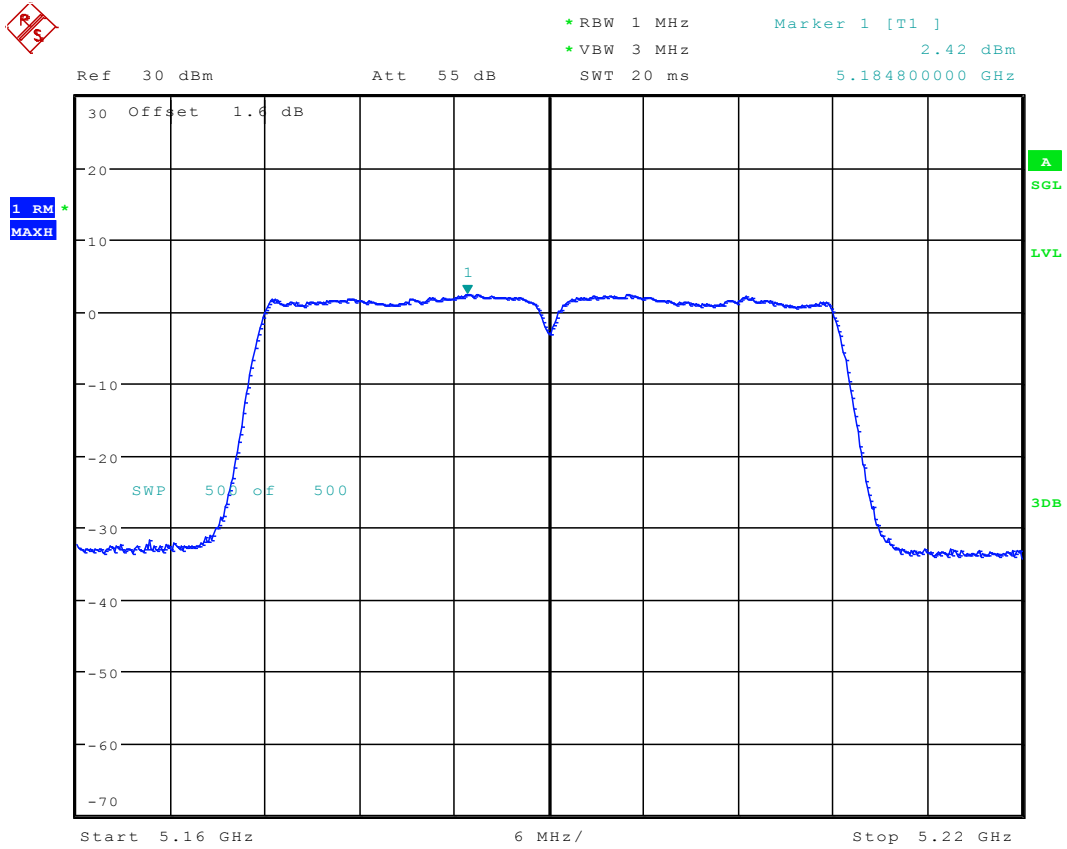
*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
1.89 dBm
5.195000000 GHz



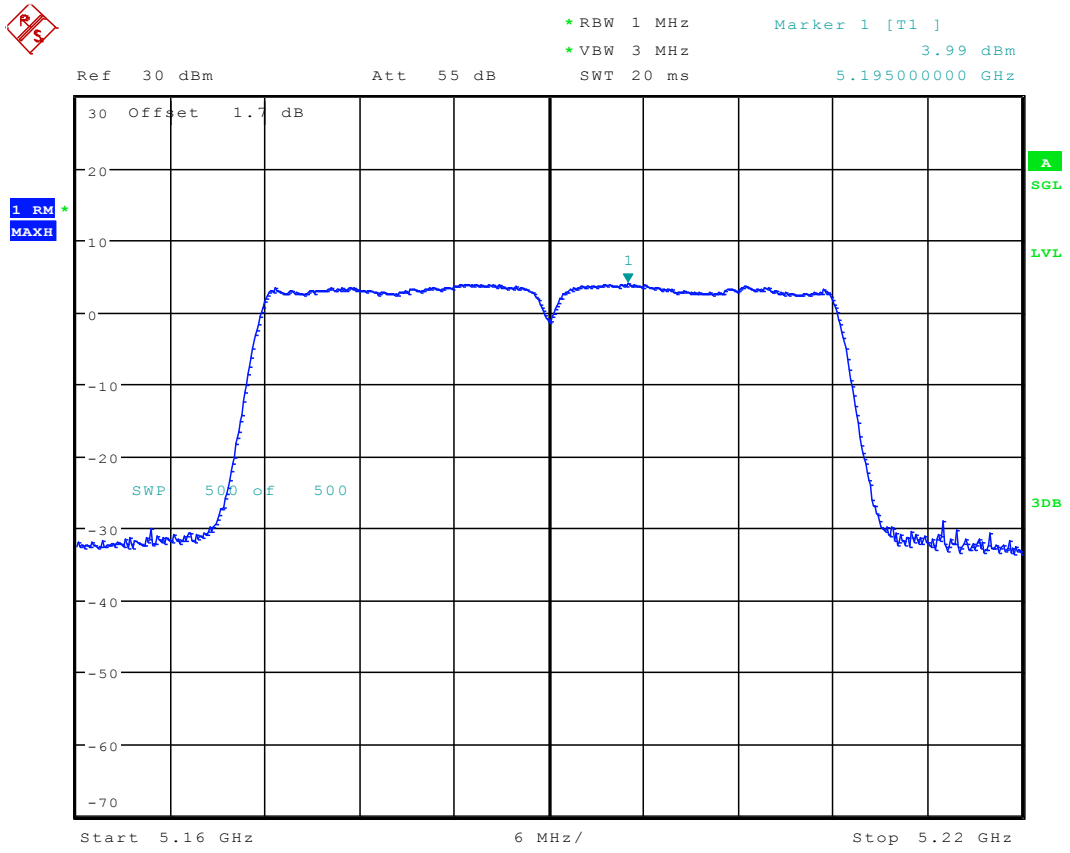
Date: 9.FEB.2017 12:15:46

9.44 11AC40_38 ANT 2



Date: 9.FEB.2017 16:31:33

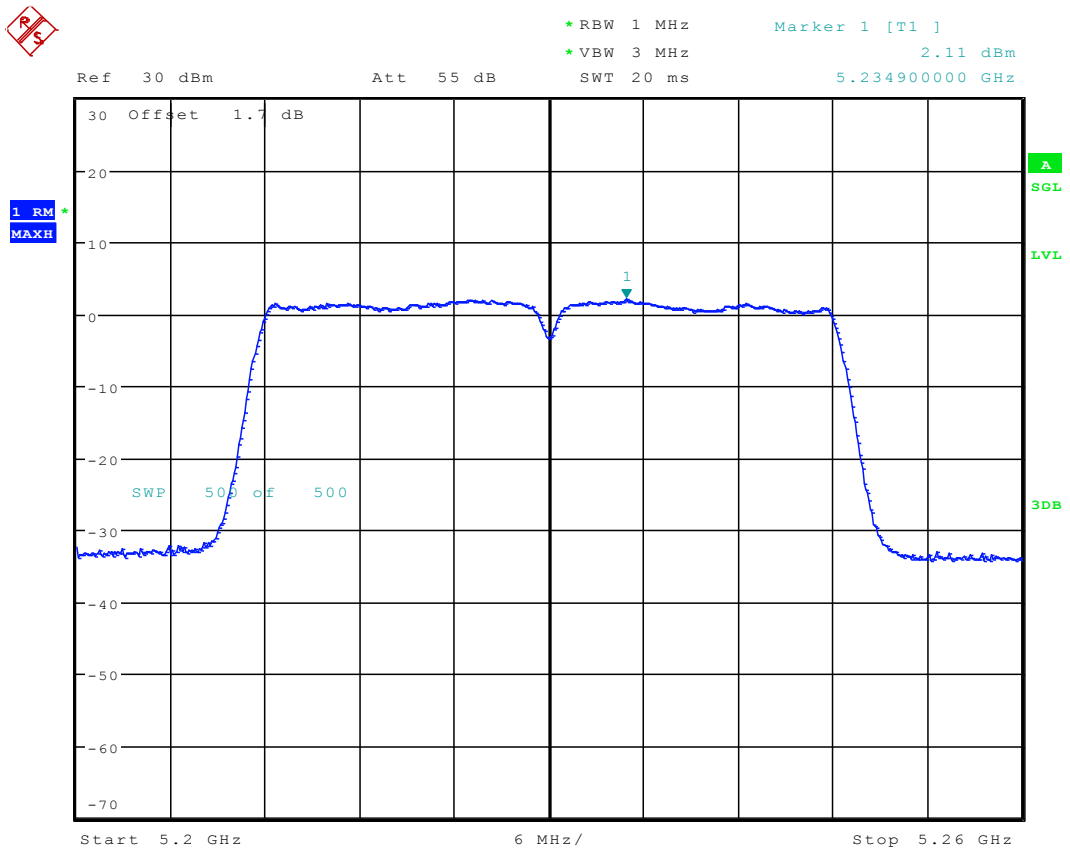
9.45 11AC40_38 ANT 3



Date: 9.FEB.2017 20:05:03



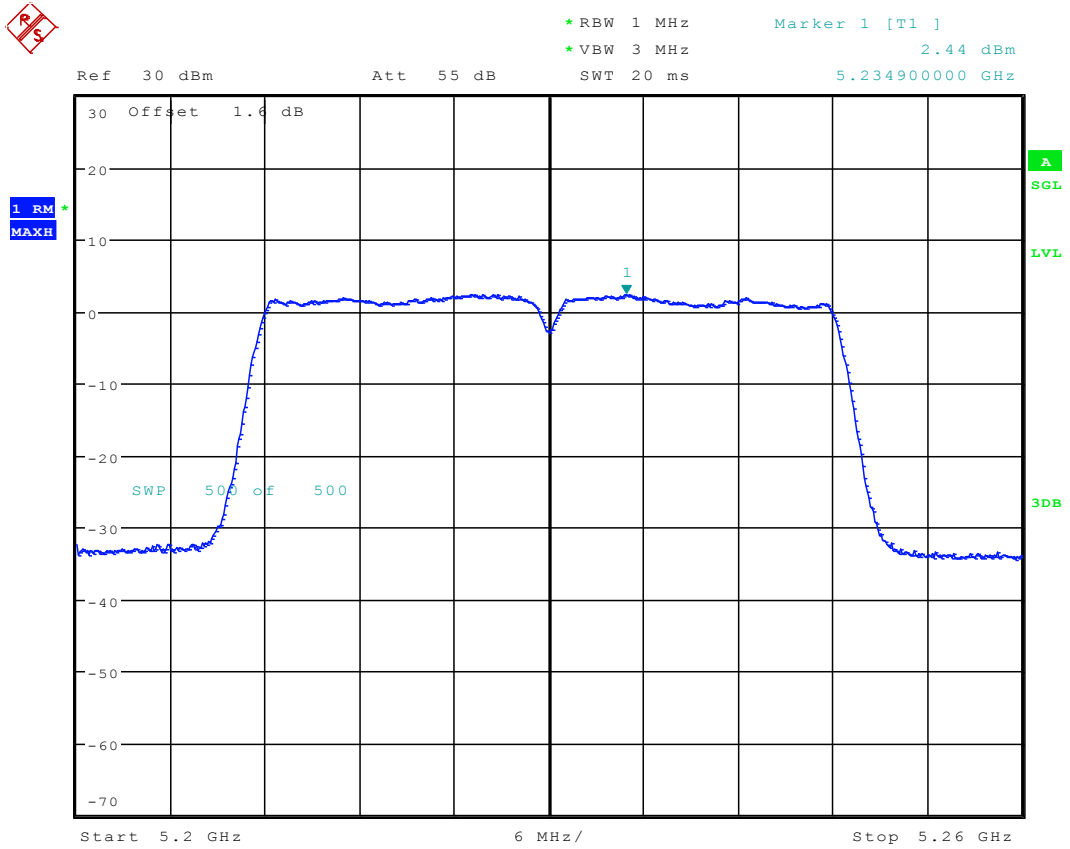
9.46 11AC40_46 ANT 1



Date: 9.FEB.2017 12:21:02



9.47 11AC40_46 ANT 2

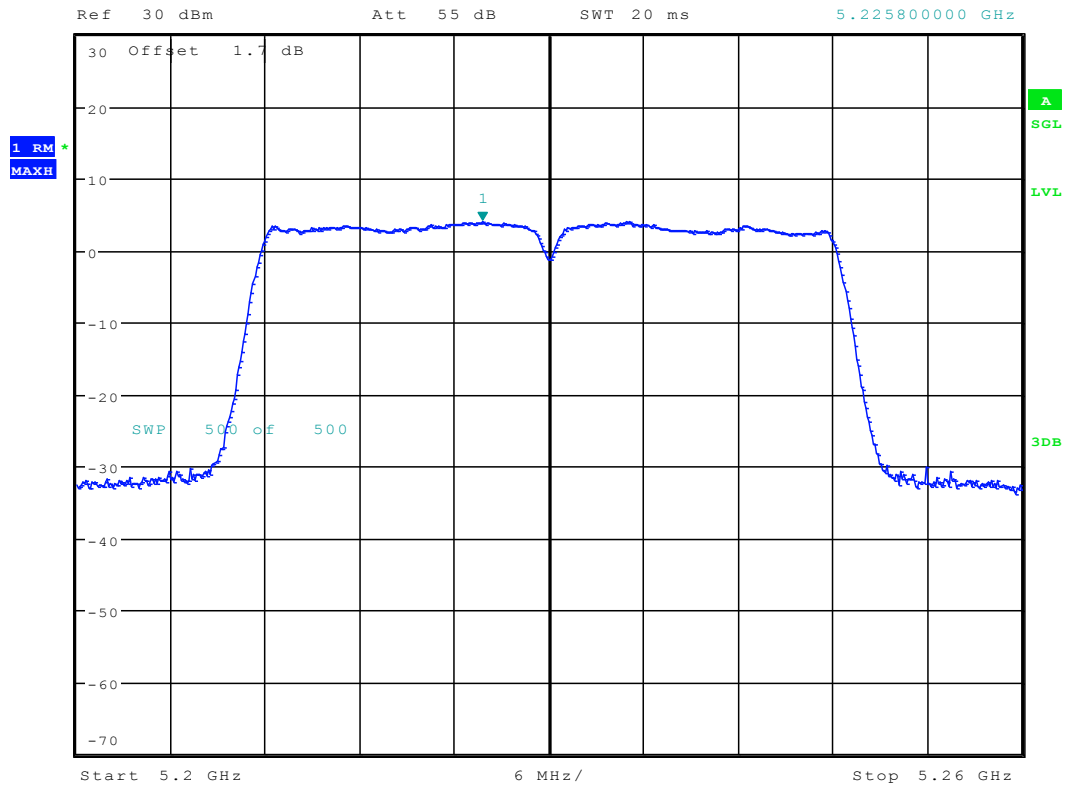


Date: 9.FEB.2017 16:36:58

9.48 11AC40_46 ANT 3

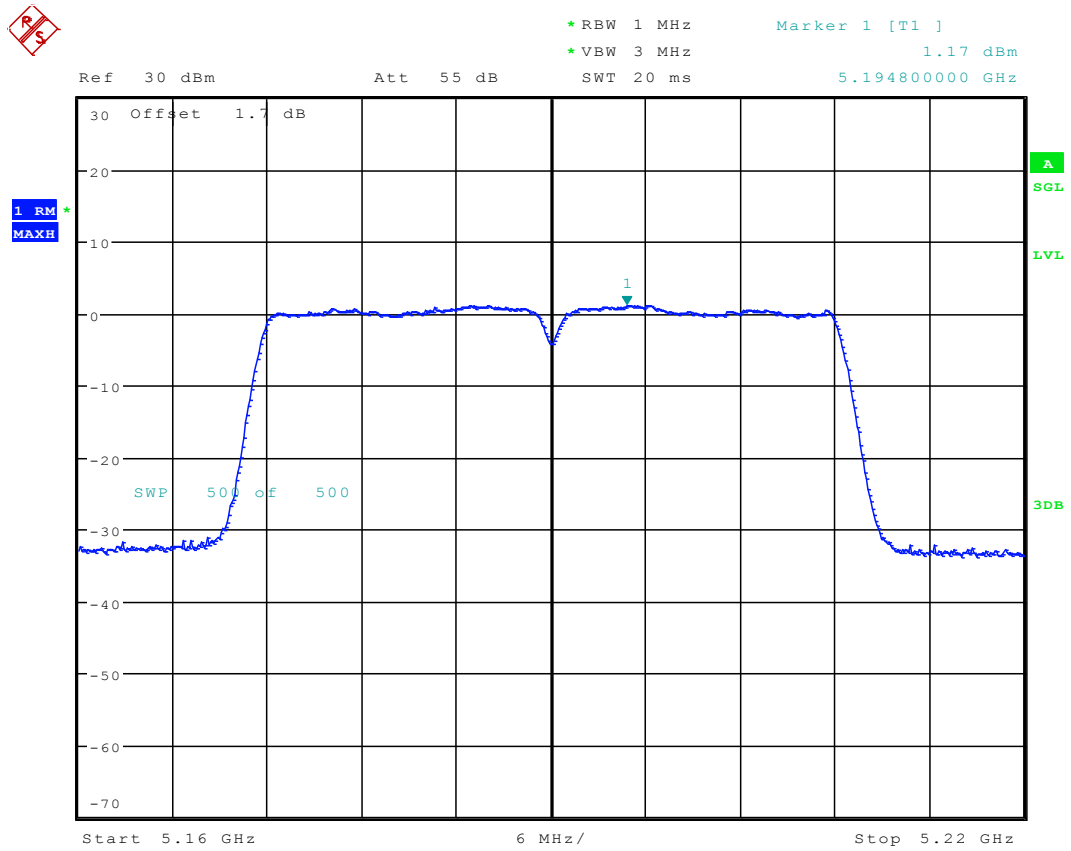


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.06 dBm
SWT 20 ms 5.225800000 GHz



Date: 9.FEB.2017 20:14:05

9.49 11AC40MIMO_38 ANT 1



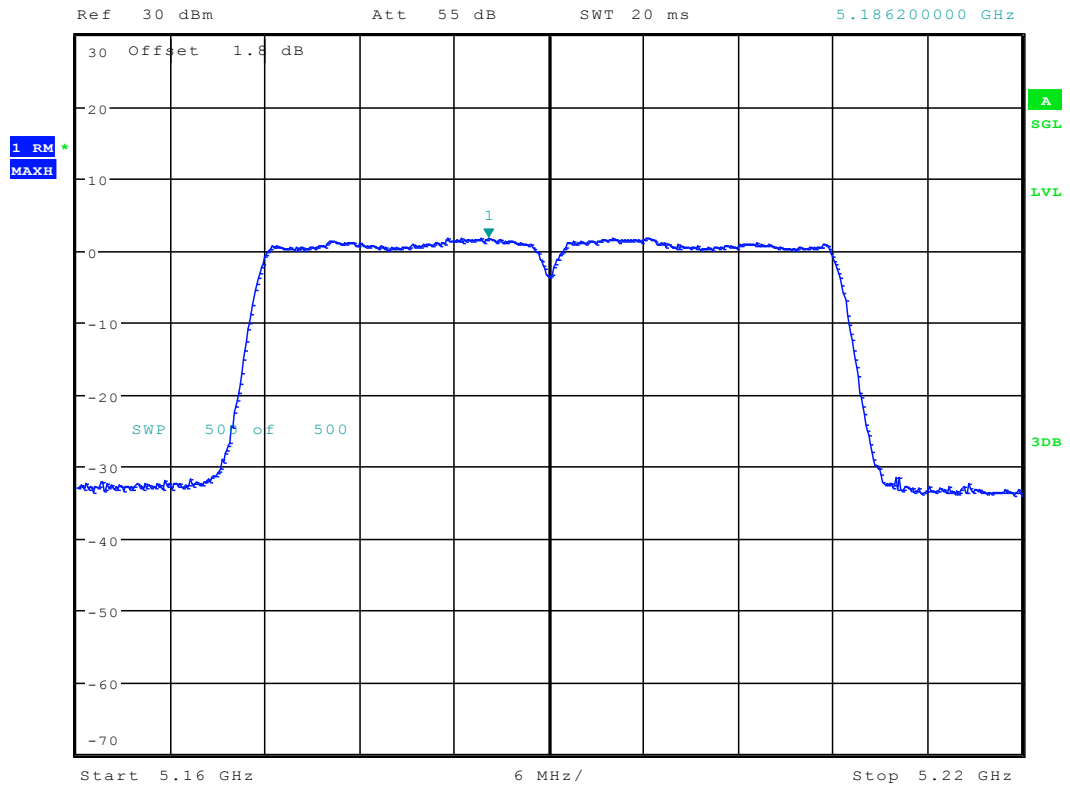
Date: 13.FEB.2017 10:04:08



9.50 11AC40MIMO_38 ANT 2



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 1.73 dBm
SWT 20 ms 5.186200000 GHz



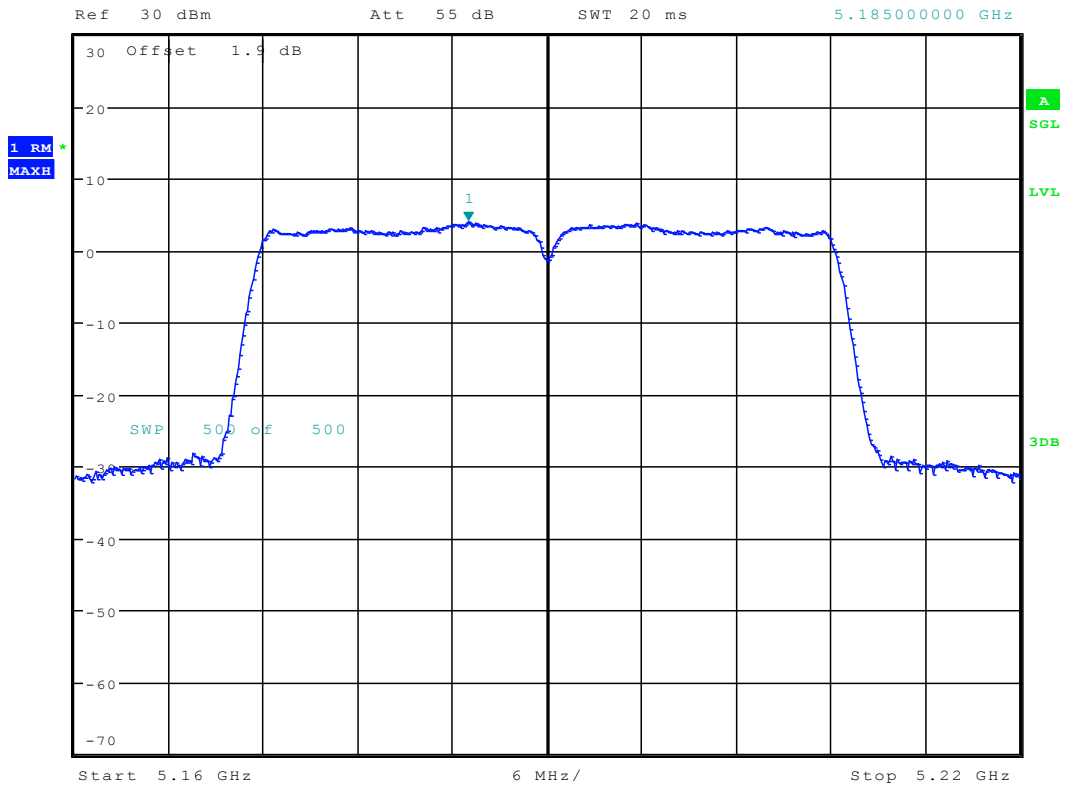
Date: 11.FEB.2017 18:00:03



9.51 11AC40MIMO_38 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.96 dBm
SWT 20 ms 5.185000000 GHz



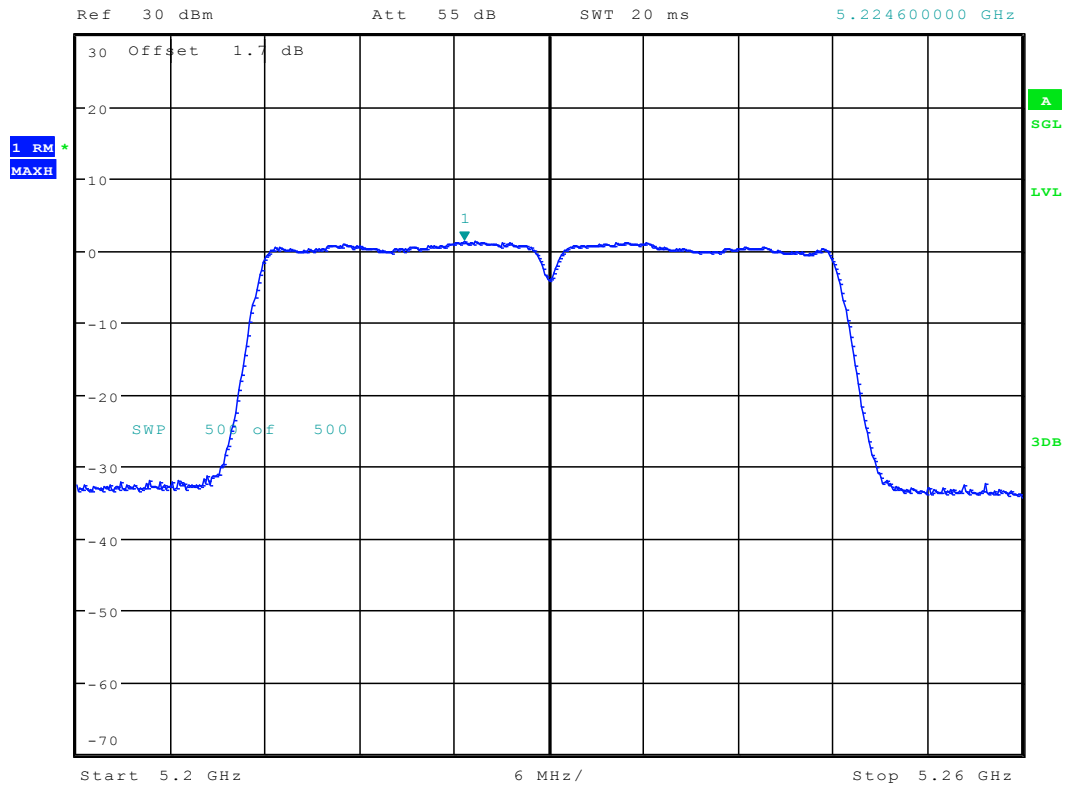
Date: 14.FEB.2017 15:44:49



9.52 11AC40MIMO_46 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 1.33 dBm
SWT 20 ms 5.224600000 GHz

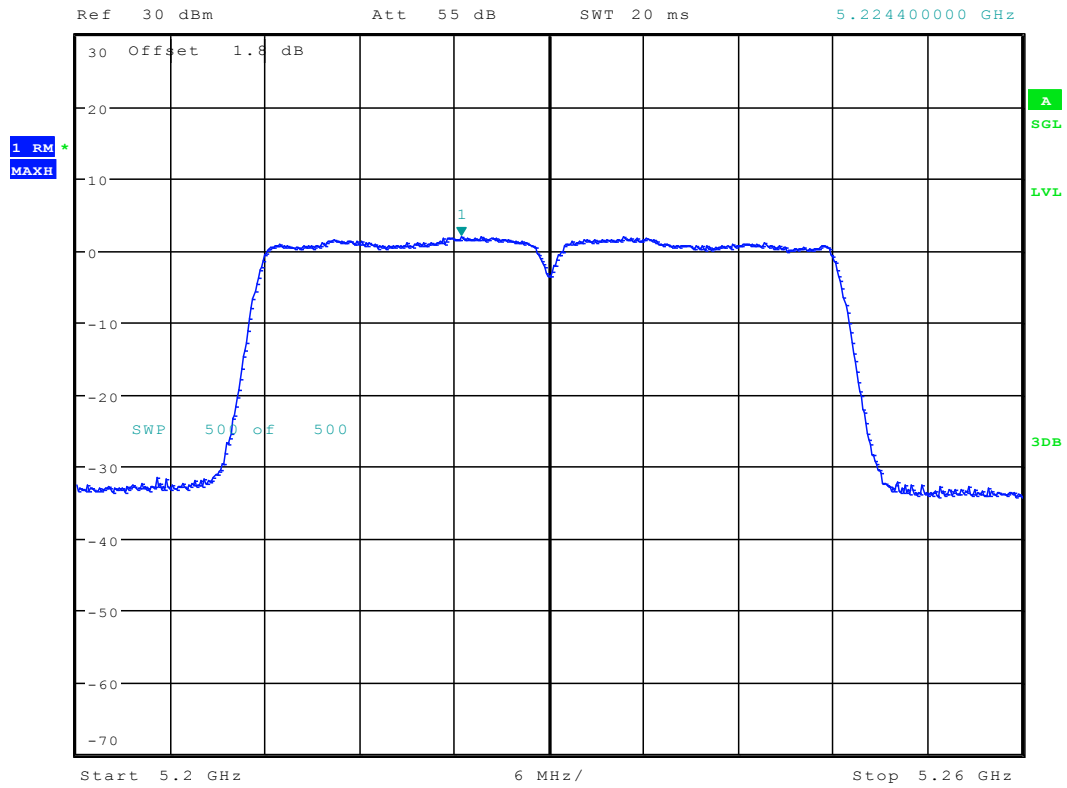


Date: 13.FEB.2017 10:10:21

9.53 11AC40MIMO_46 ANT 2



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 1.96 dBm
SWT 20 ms 5.224400000 GHz



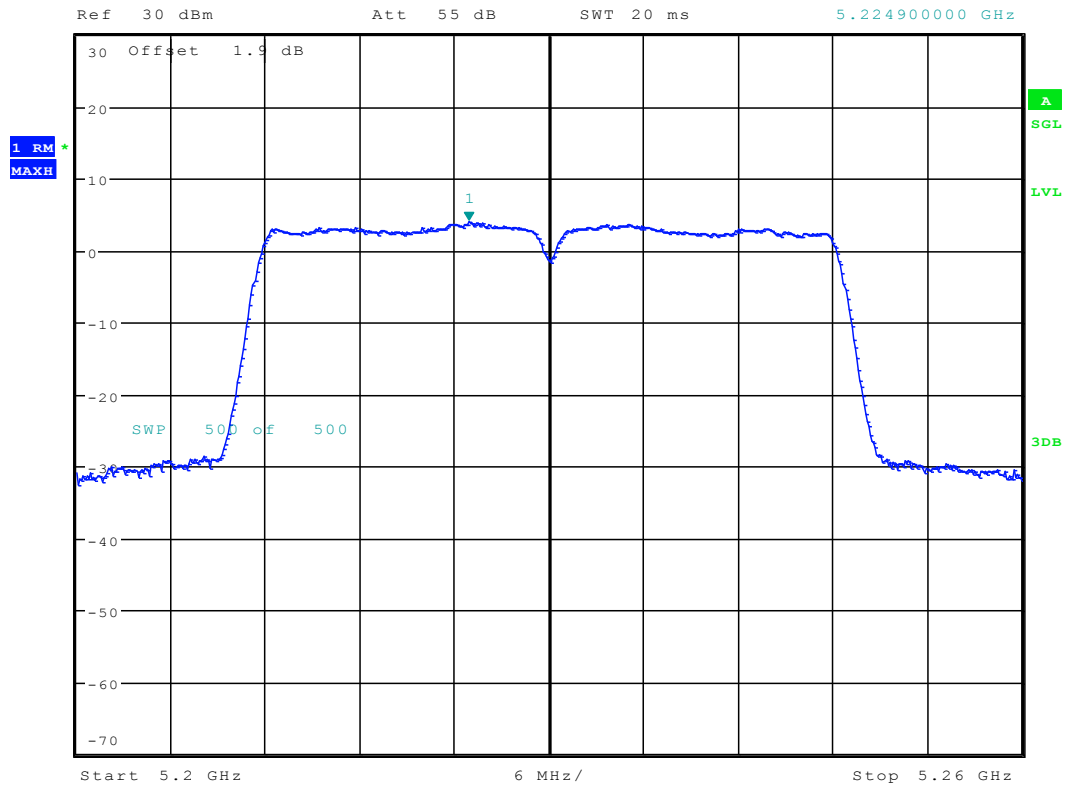
Date: 11.FEB.2017 18:05:19



9.54 11AC40MIMO_46 ANT 3



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.95 dBm
SWT 20 ms 5.224900000 GHz



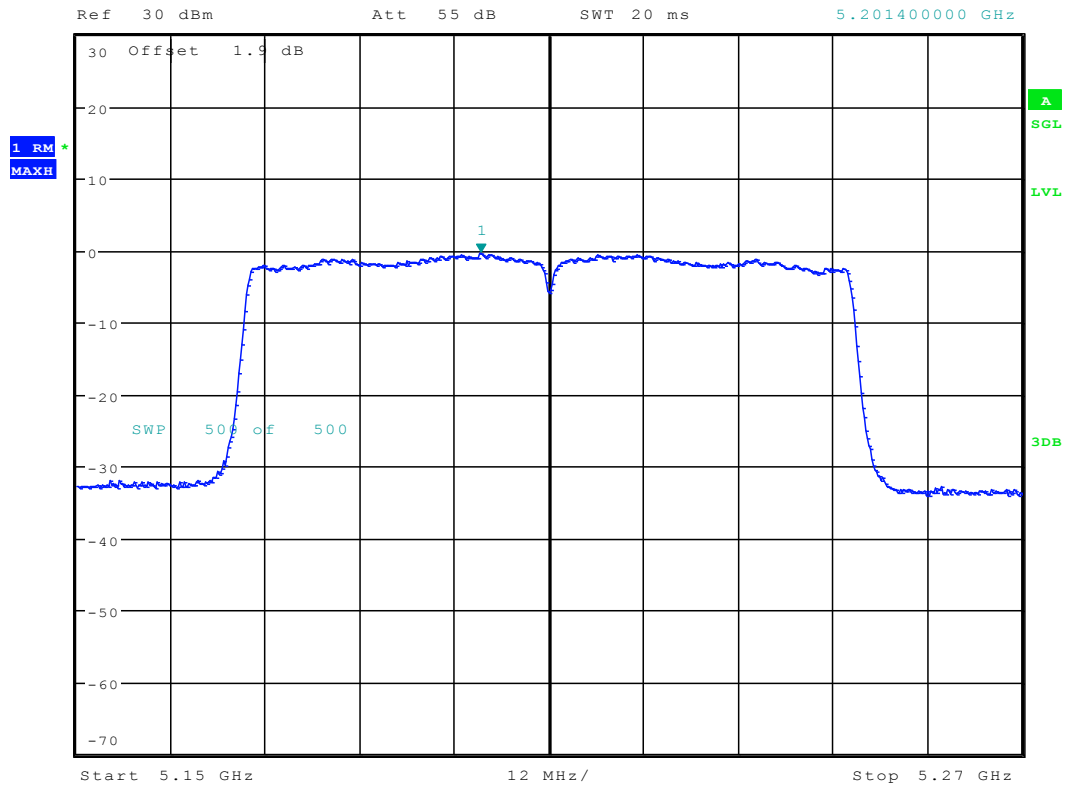
Date: 14.FEB.2017 15:53:22



9.55 11AC80_42 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -0.36 dBm
SWT 20 ms 5.201400000 GHz



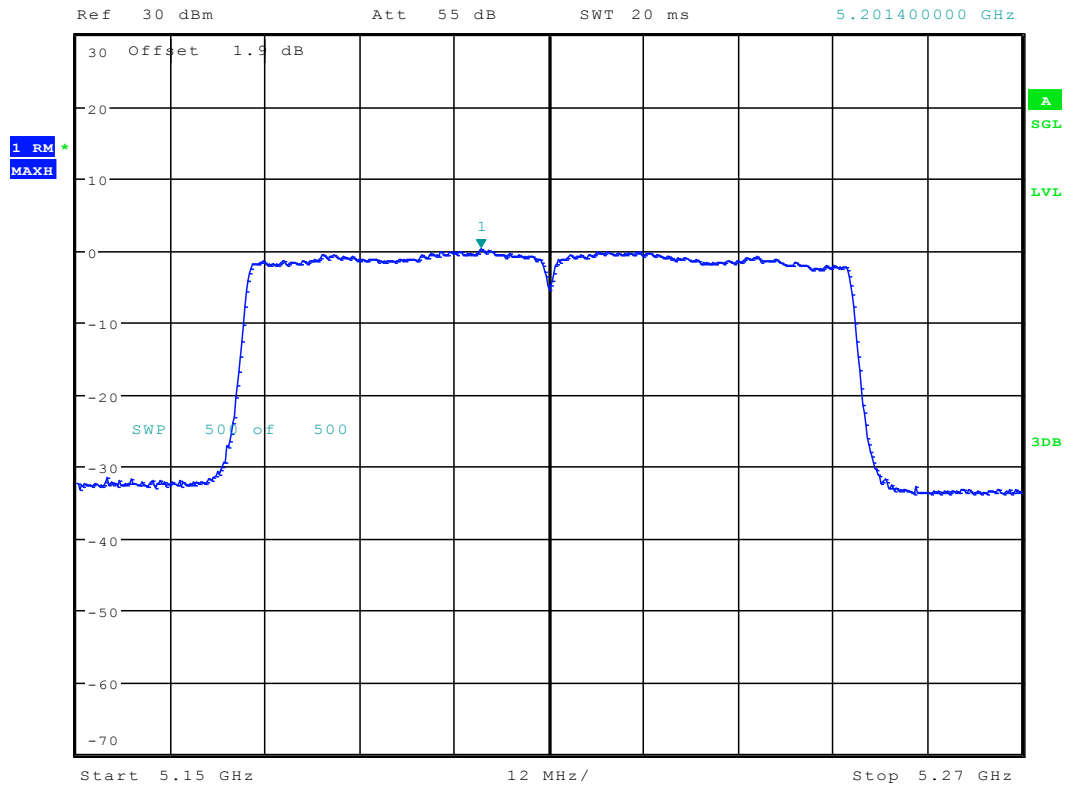
Date: 9.FEB.2017 12:58:24



9.56 11AC80_42 ANT 2



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.20 dBm
SWT 20 ms 5.201400000 GHz



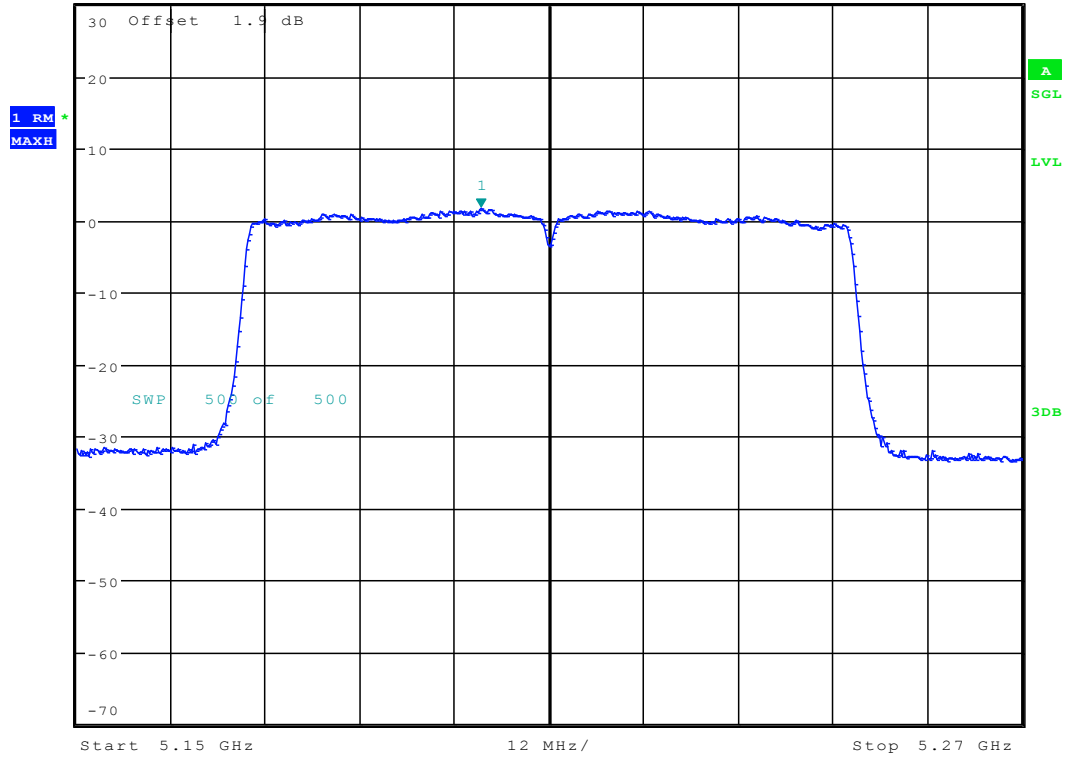
Date: 9.FEB.2017 16:45:59



9.57 11AC80_42 ANT 3

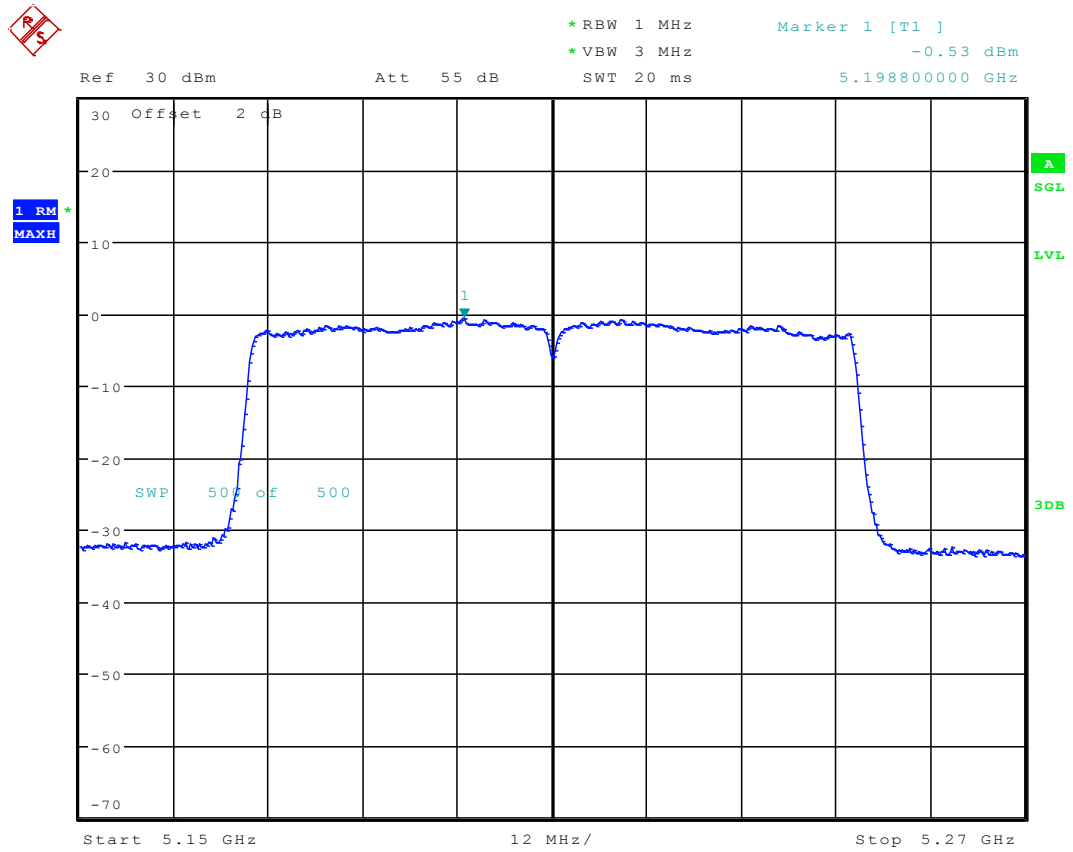


*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 1.66 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.201400000 GHz



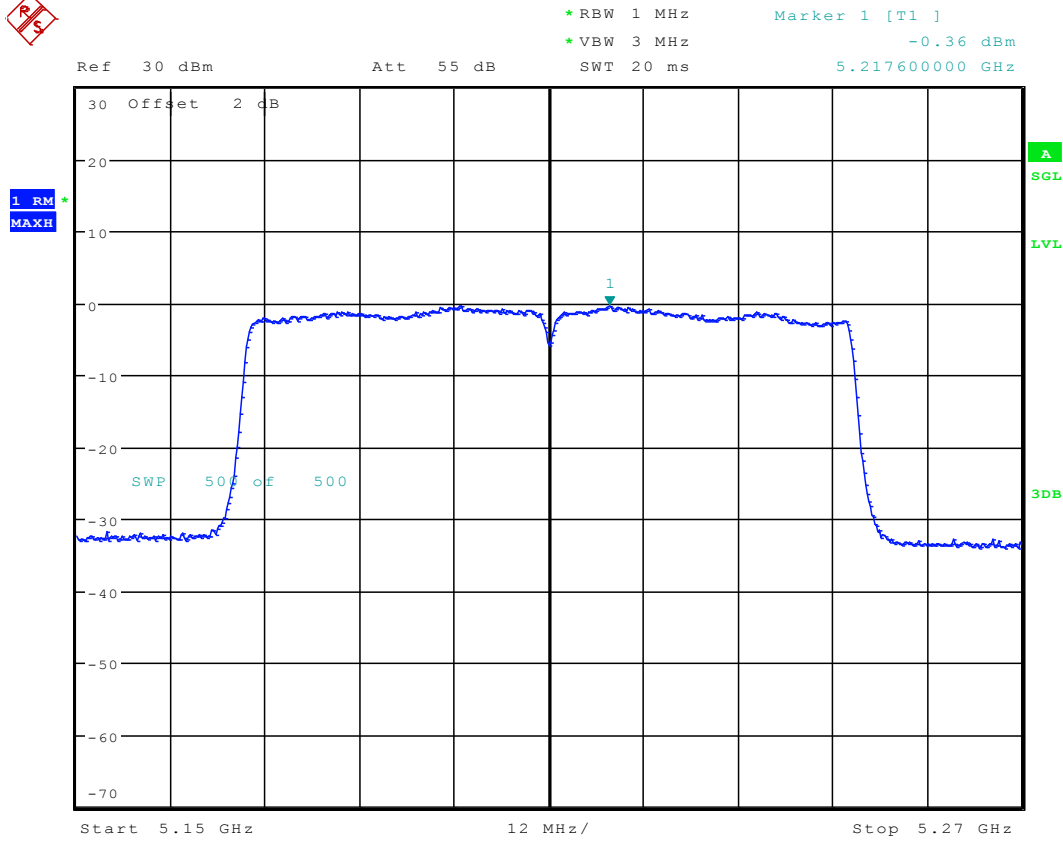
Date: 9.FEB.2017 20:31:50

9.58 11AC80 MIMO _42 ANT 1



Date: 13.FEB.2017 10:28:15

9.59 11AC80 MIMO _42 ANT 2



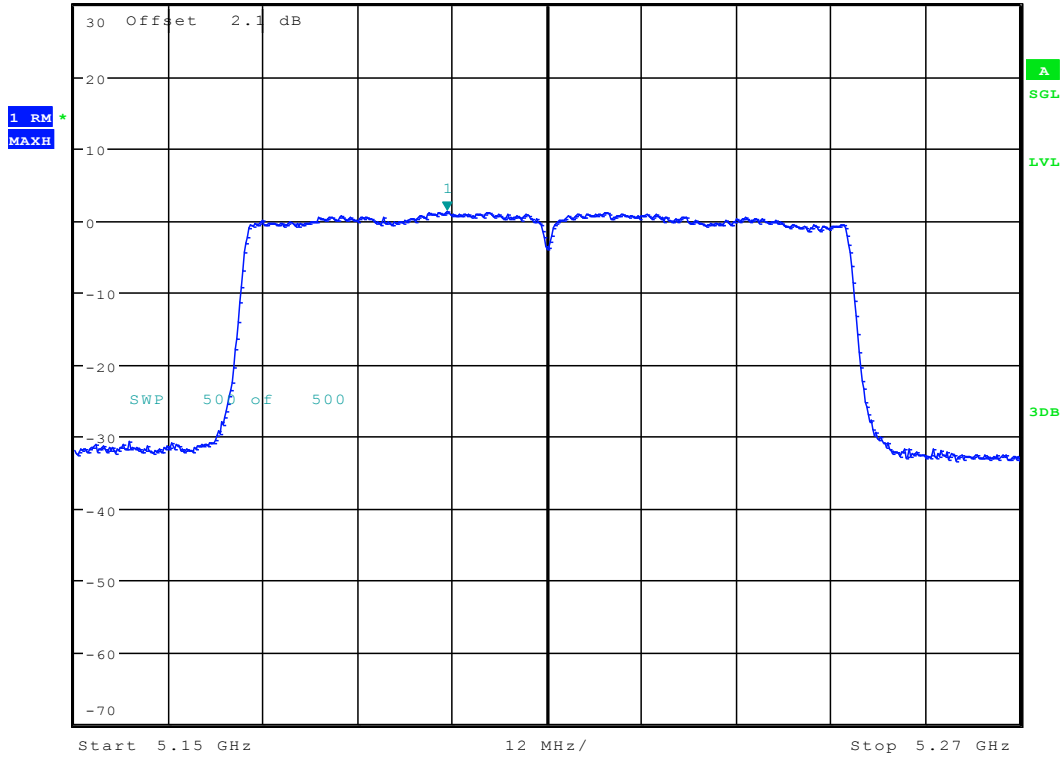
Date: 11.FEB.2017 18:14:16



9.60 11AC80 MIMO _42 ANT3



Ref 30 dBm Att 55 dB SWT 20 ms Marker 1 [T1] 5.197400000 GHz
* RBW 1 MHz 1.30 dBm
* VBW 3 MHz



Date: 14.FEB.2017 16:03:36



Appendix F: Unwanted Emissions into Non-Restricted Frequency Bands

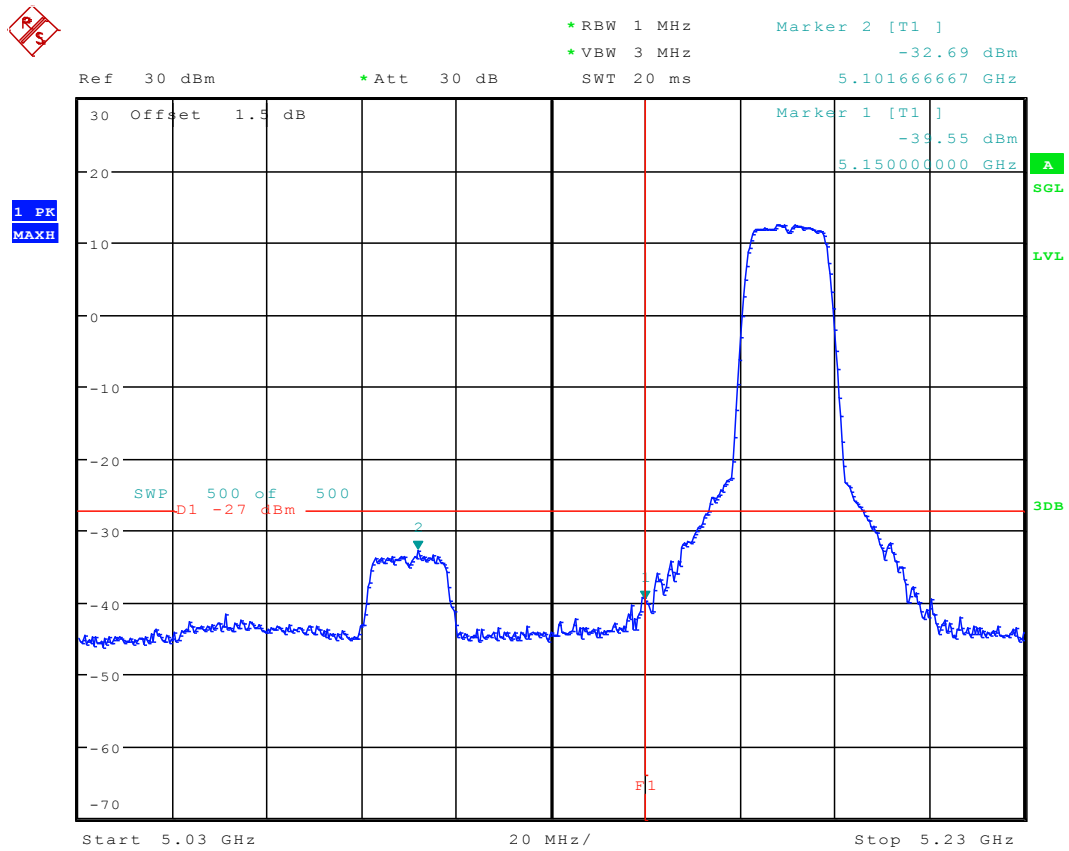


10 Result Table

| FCC Part15, Subpart E | | |
|--|-----------------|--------|
| Test Item | Frequency Range | Result |
| Unwanted Emissions into Non-Restricted Frequency Bands | 5150-5250 | PASS |

11 Test Plot

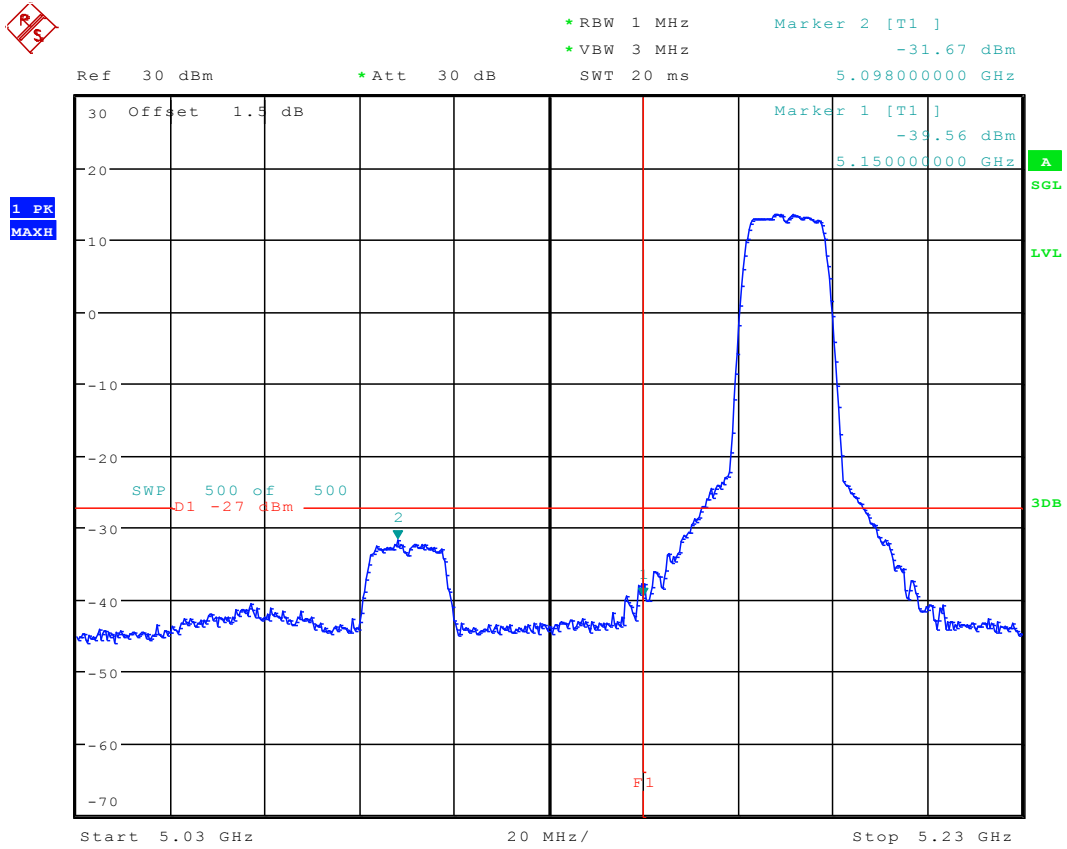
11.1 11A20_36 ANT 1



Date: 8.FEB.2017 16:58:50



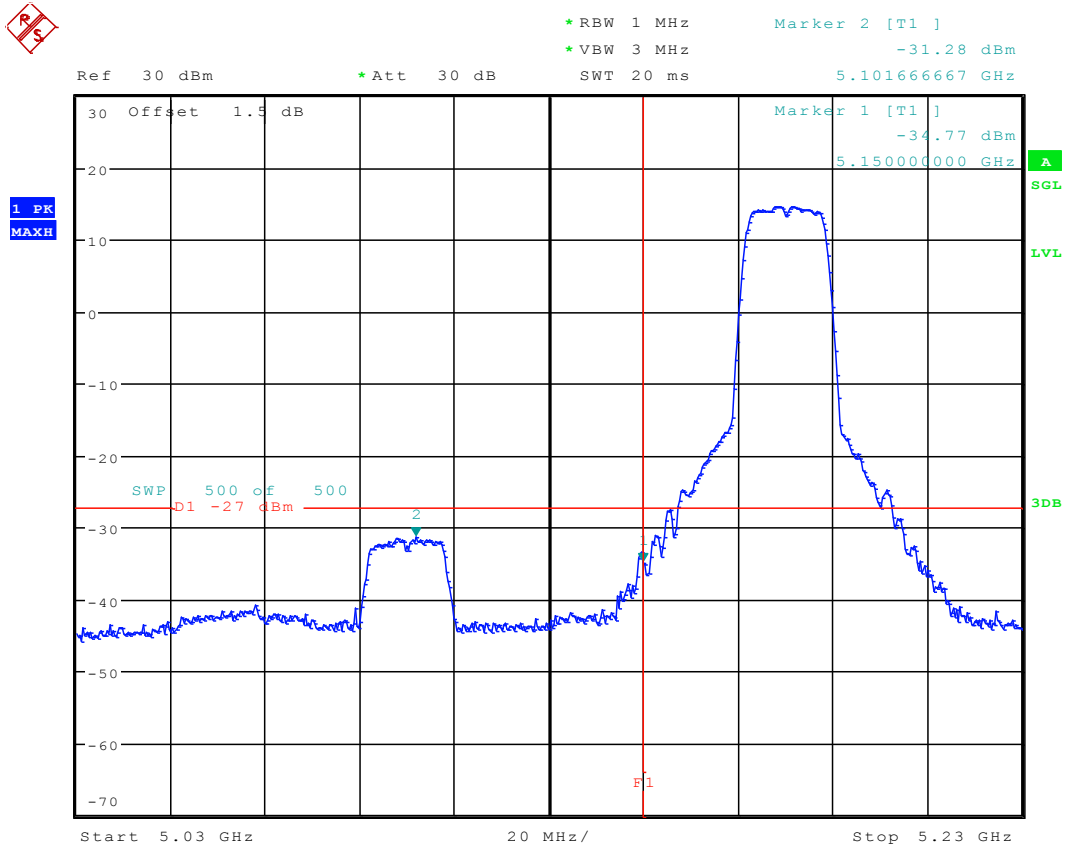
11.2 11A20_36 ANT 2



Date: 9.FEB.2017 14:54:58

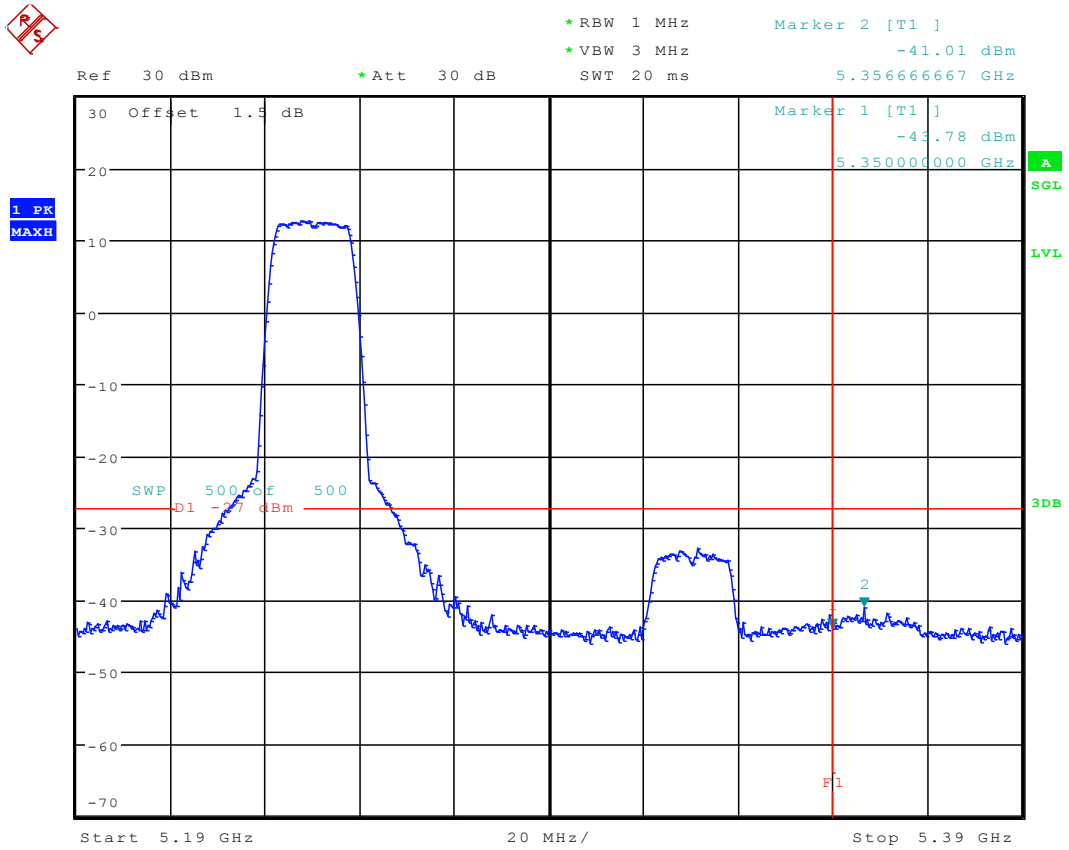


11.3 11A20_36 ANT 3



Date: 9.FEB.2017 18:21:53

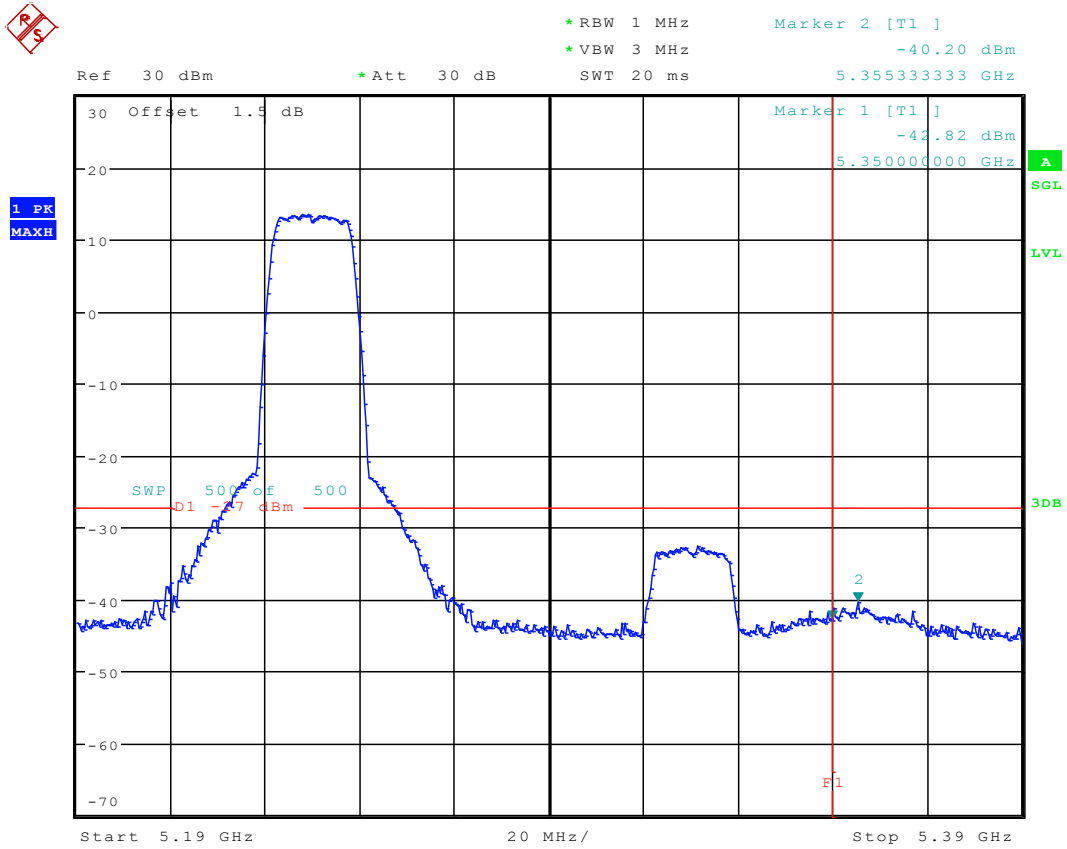
11.4 11A20_48 ANT 1



Date: 8.FEB.2017 17:13:29

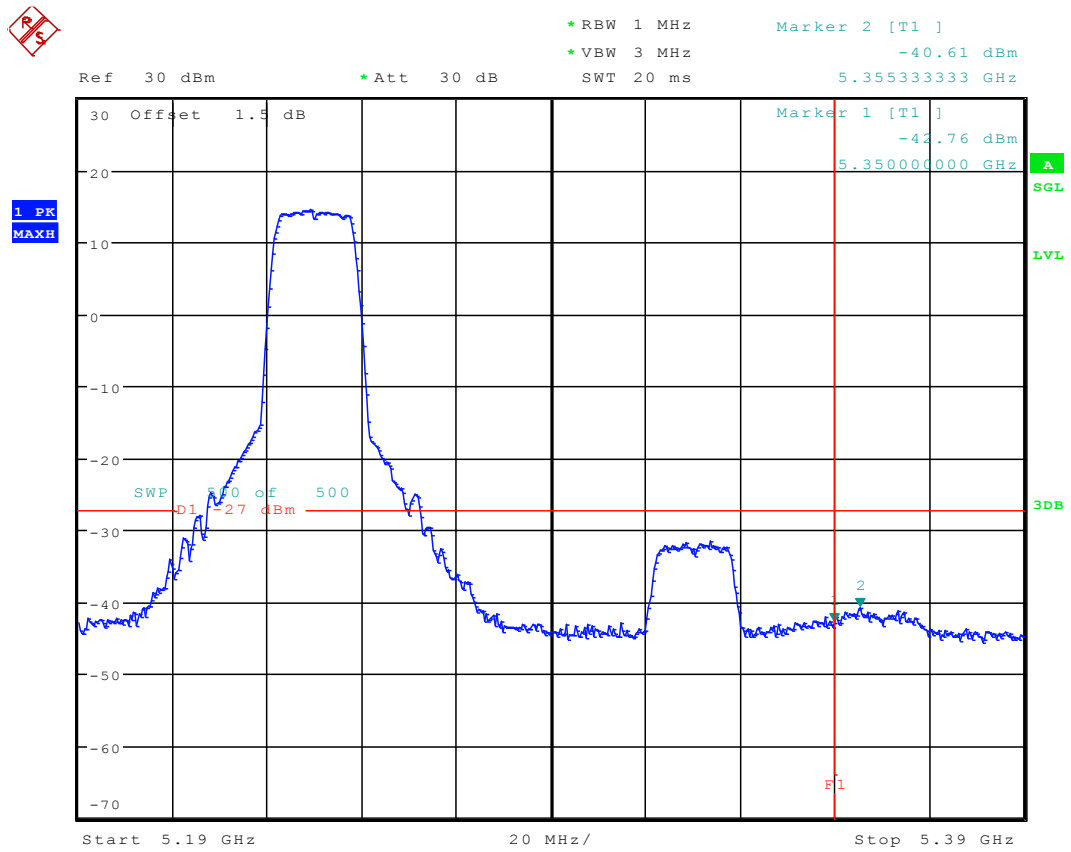


11.5 11A20_48 ANT 2



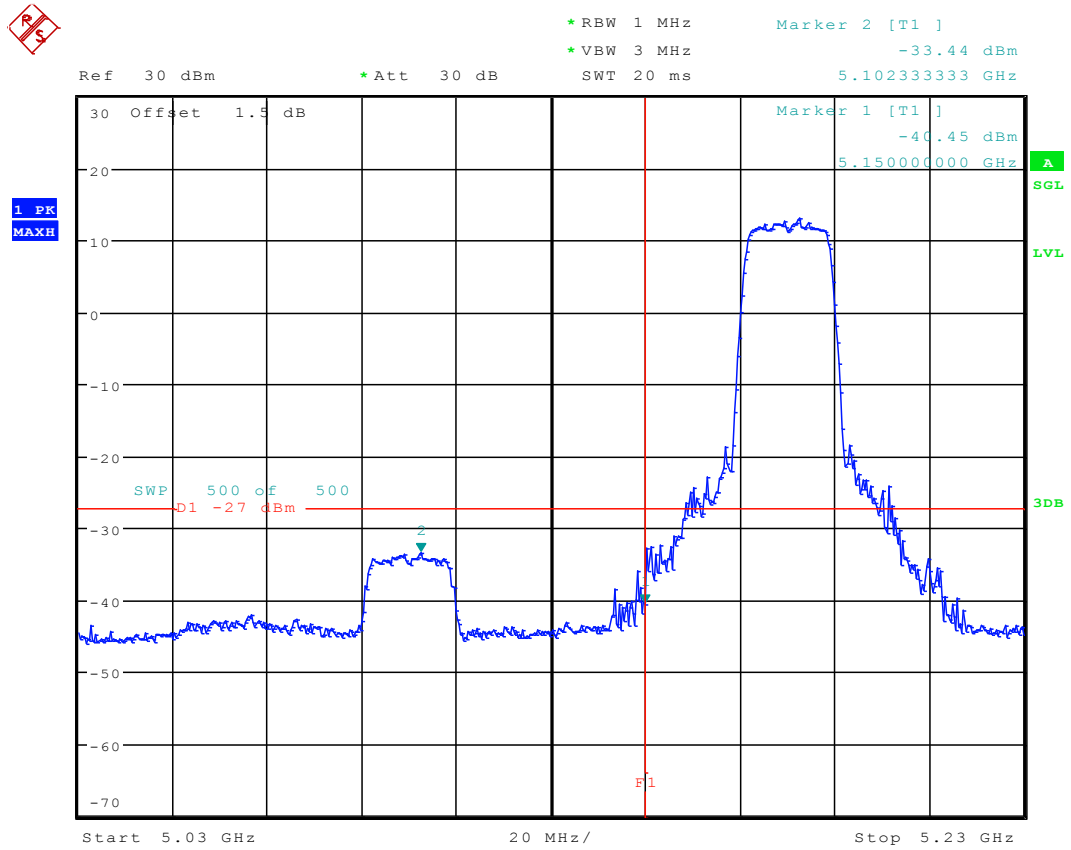
Date: 9.FEB.2017 15:26:25

11.6 11A20_48 ANT 3



Date: 9.FEB.2017 18:27:19

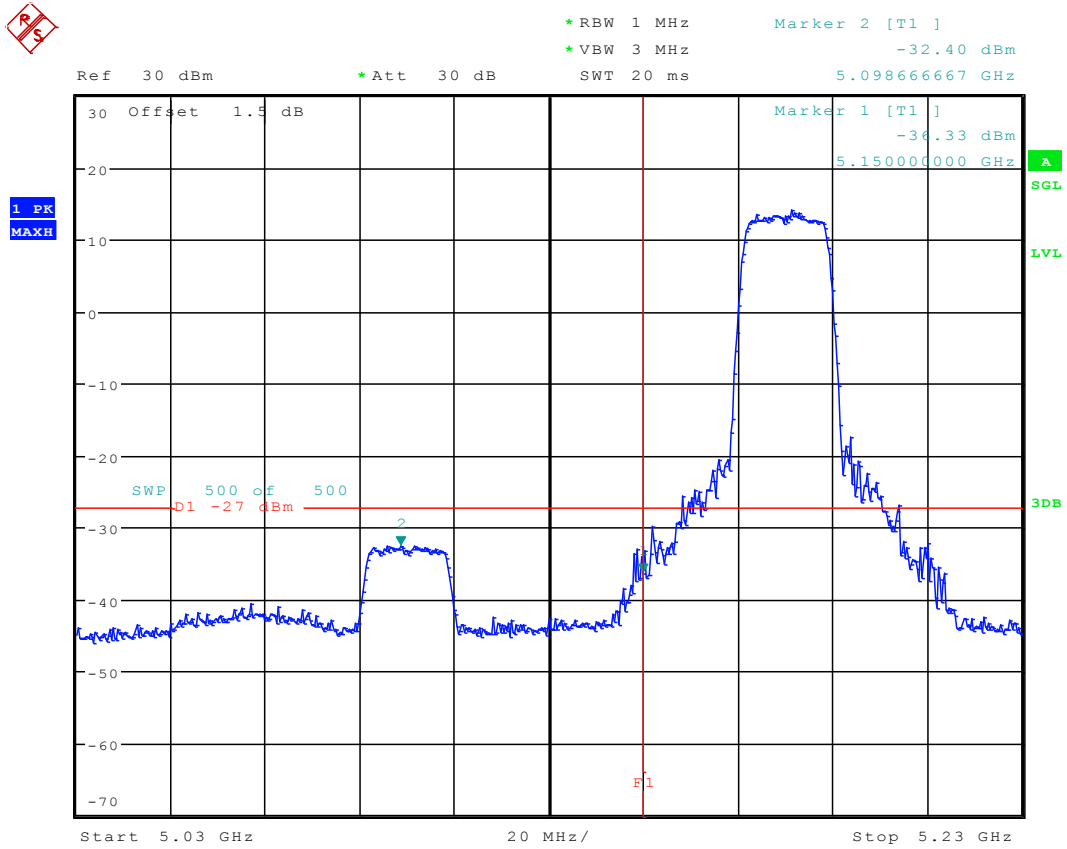
11.7 11N20_36 ANT 1



Date: 8.FEB.2017 18:27:43



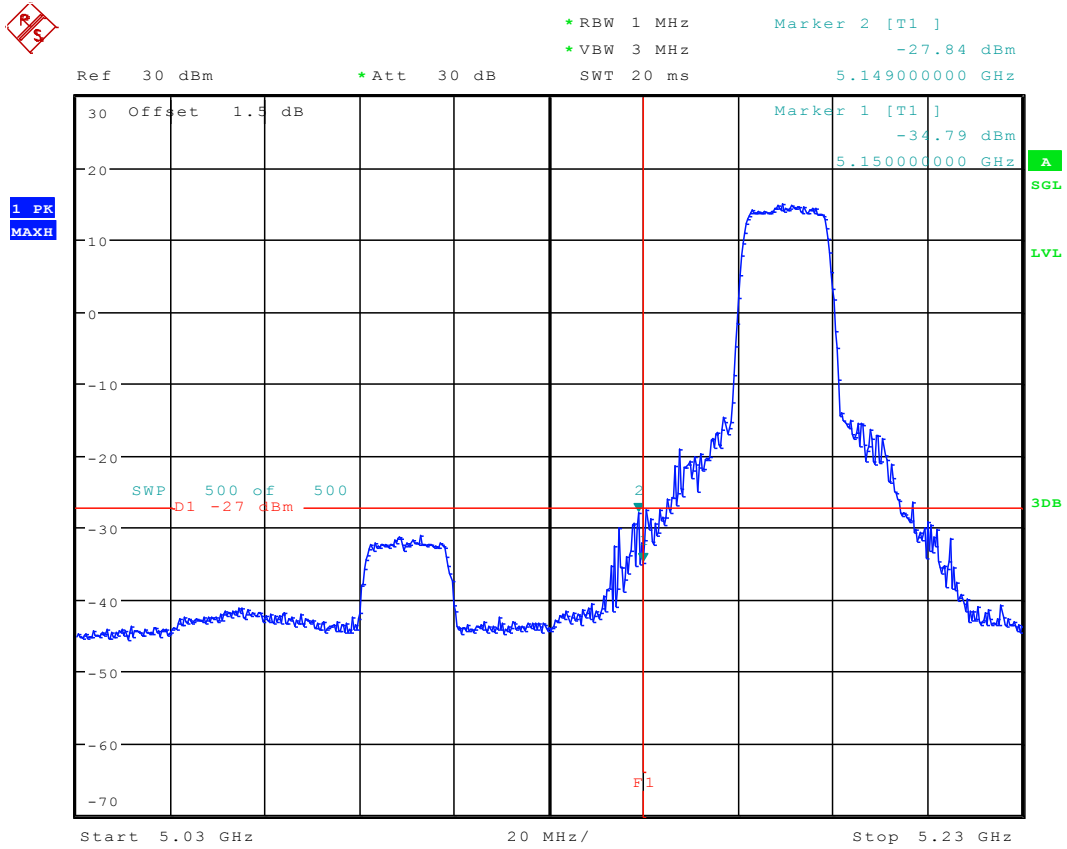
11.8 11N20_36 ANT 2



Date: 9.FEB.2017 15:39:27



11.9 11N20_36 ANT 3



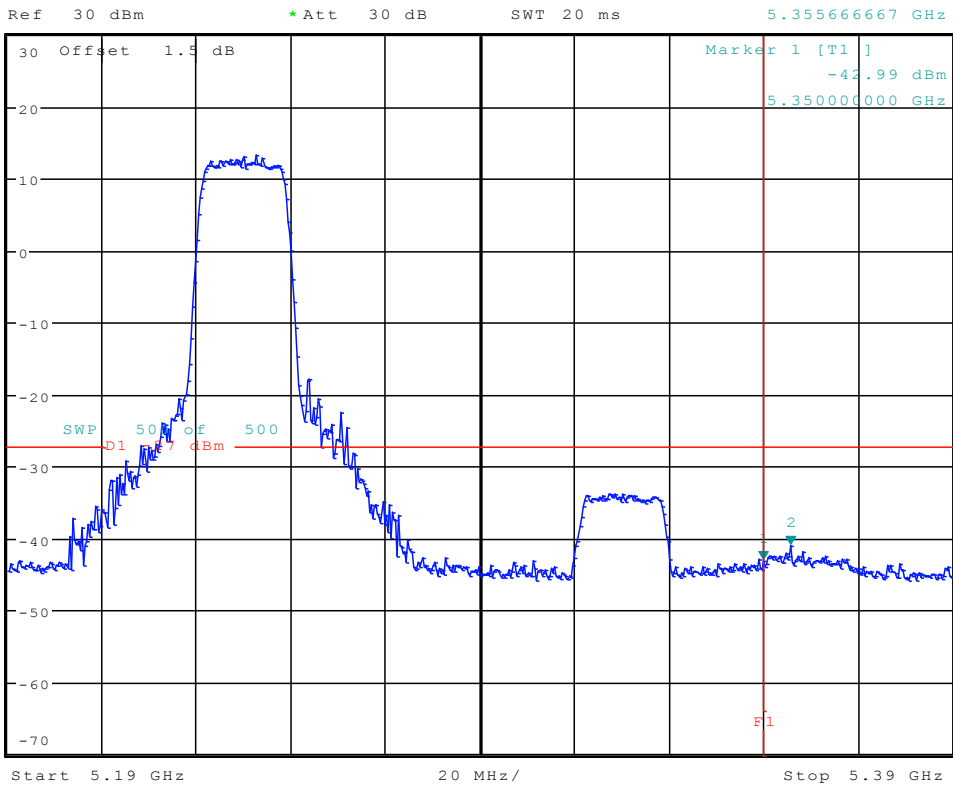
Date: 9.FEB.2017 18:36:15



11.10 11N20_48 ANT 1



*RBW 1 MHz Marker 2 [T1]
 *VBW 3 MHz -40.96 dBm
 SWT 20 ms 5.355666667 GHz

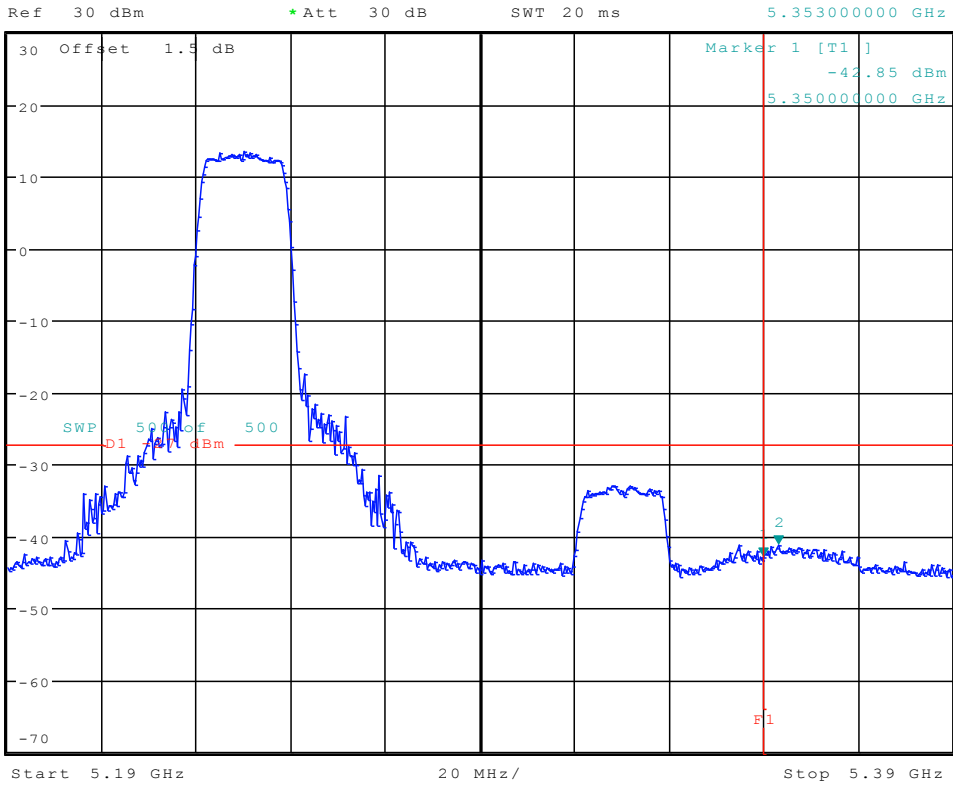


Date: 8.FEB.2017 18:33:56

11.11 11N20_48 ANT 2



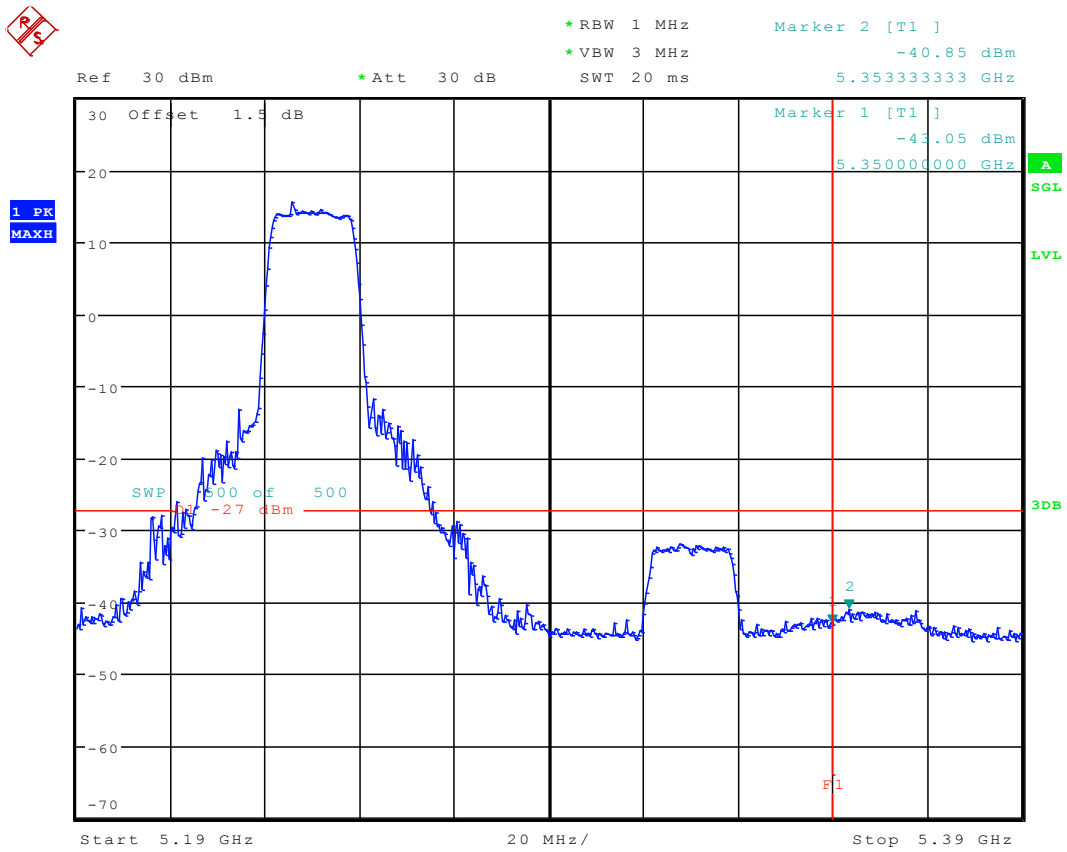
*RBW 1 MHz Marker 2 [T1]
*VBW 3 MHz -41.11 dBm
SWT 20 ms 5.353000000 GHz



Date: 9.FEB.2017 15:50:16

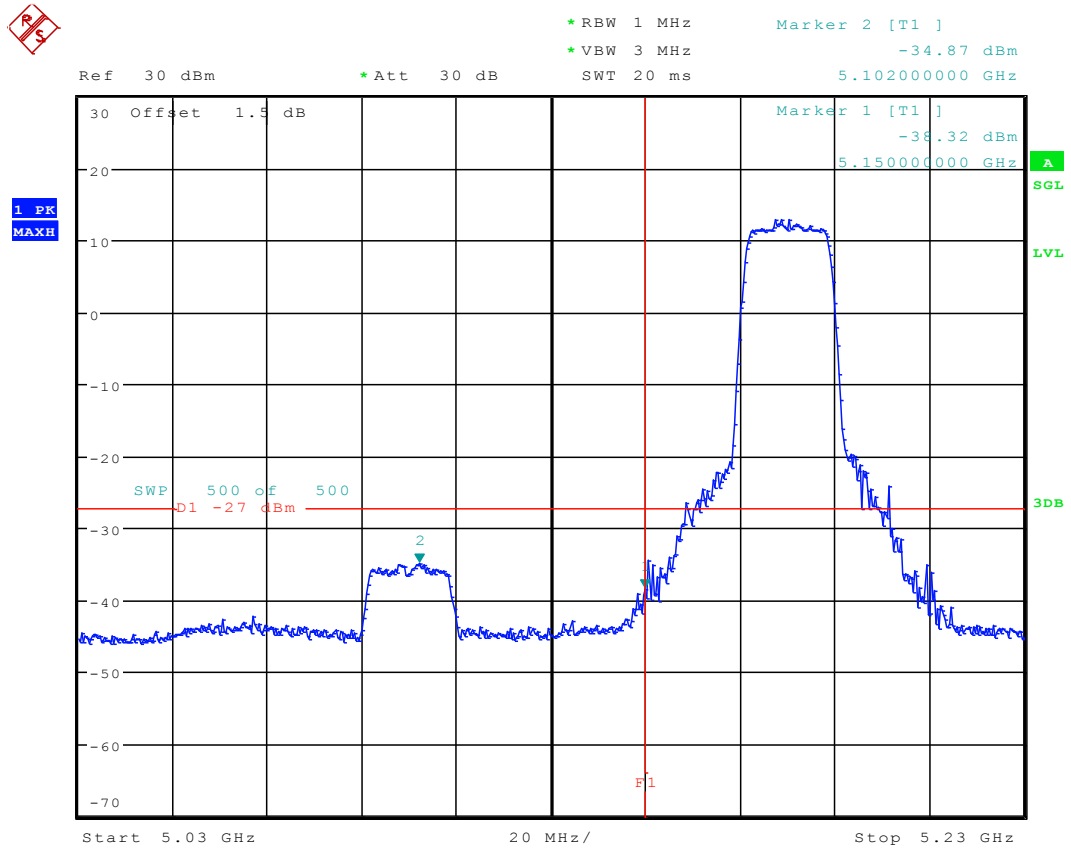


11.12 11N20_48 ANT 3



Date: 9.FEB.2017 18:45:50

11.13 11N20MIMO_36 ANT 1



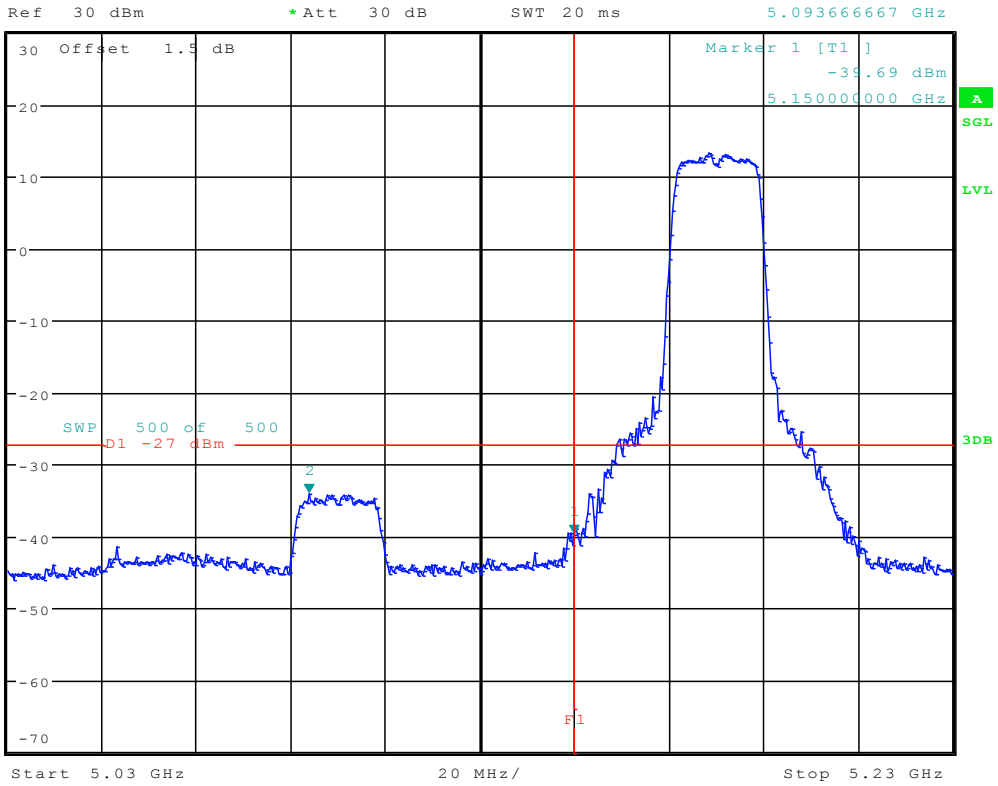
Date: 11.FEB.2017 18:35:53



11.14 11N20MIMO_36 ANT 2



*RBW 1 MHz Marker 2 [T1]
 *VBW 3 MHz -34.02 dBm
 SWT 20 ms 5.093666667 GHz



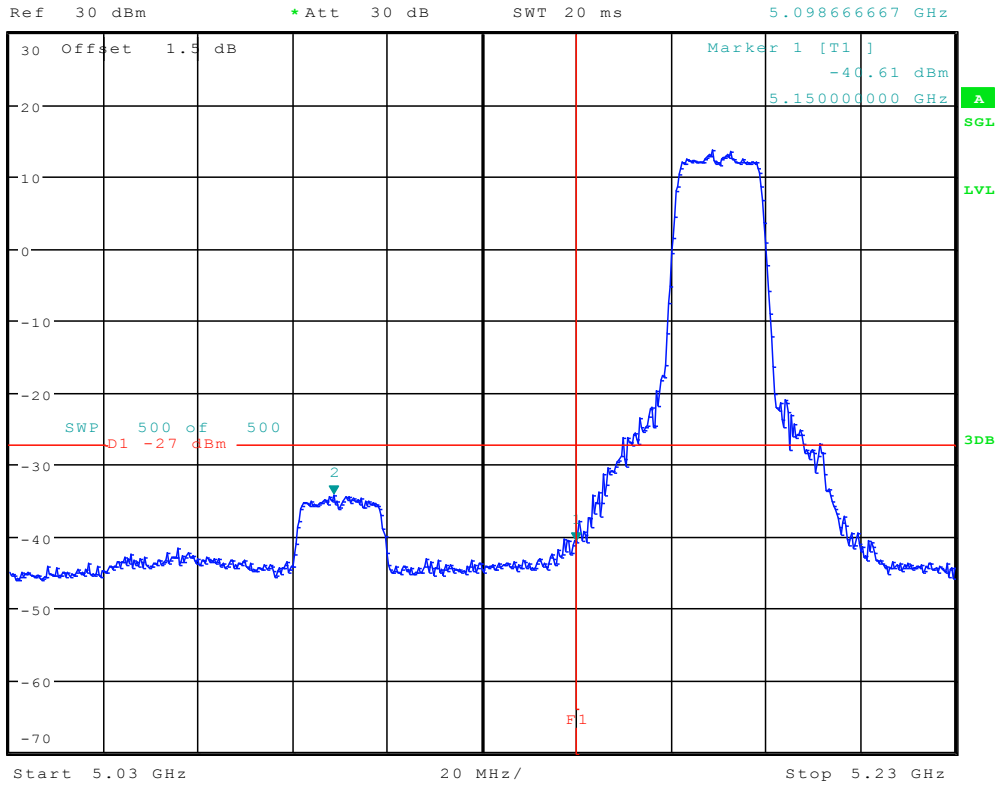
Date: 11.FEB.2017 17:27:50



11.15 11N20MIMO_36 ANT 3



*RBW 1 MHz Marker 2 [T1]
 *VBW 3 MHz -34.23 dBm
 SWT 20 ms 5.098666667 GHz



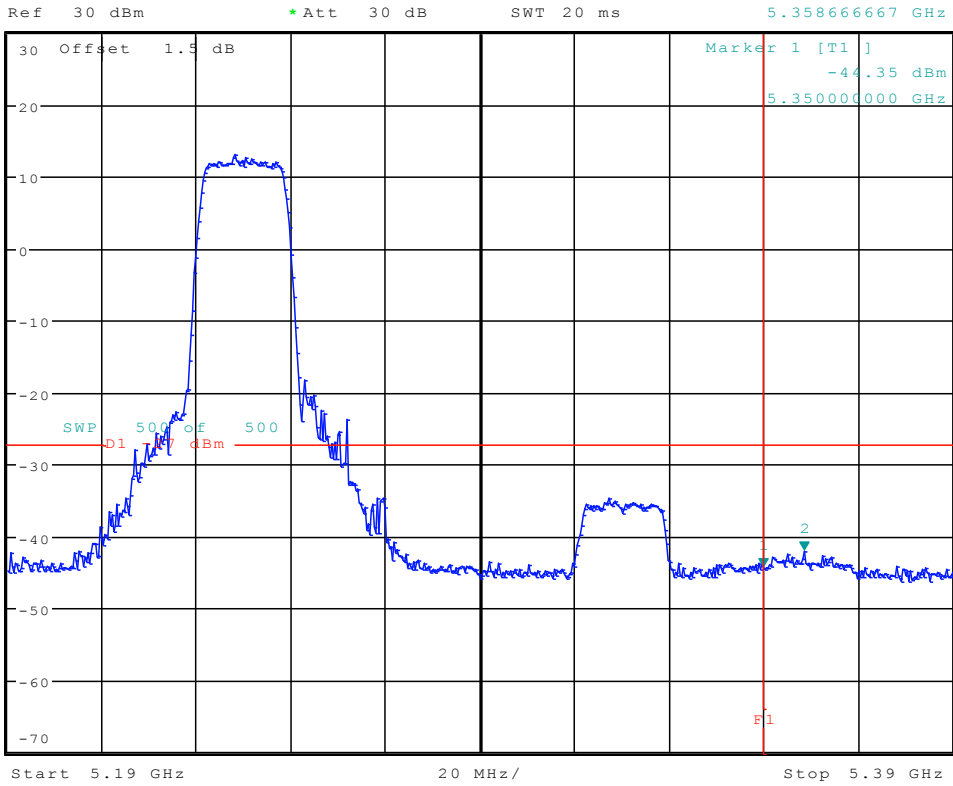
Date: 11.FEB.2017 17:15:04



11.16 11N20MIMO_48 ANT 1



*RBW 1 MHz Marker 2 [T1]
 *VBW 3 MHz -42.06 dBm
 SWT 20 ms 5.358666667 GHz

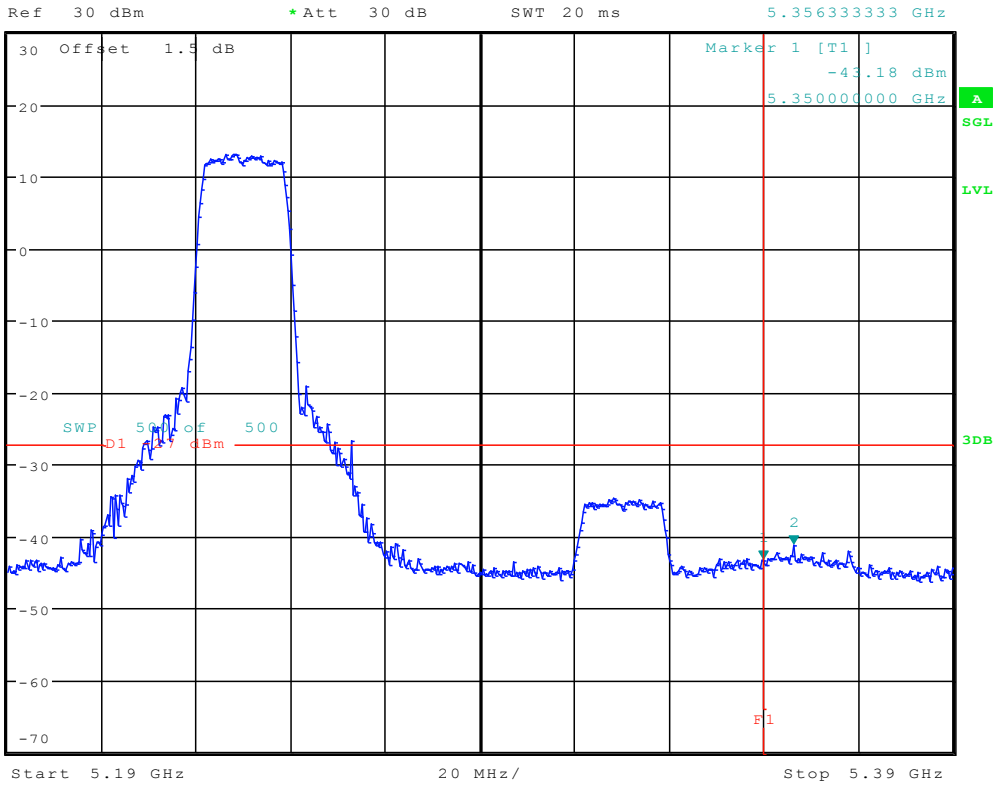


Date: 11.FEB.2017 18:41:00

11.17 11N20MIMO_48 ANT 2



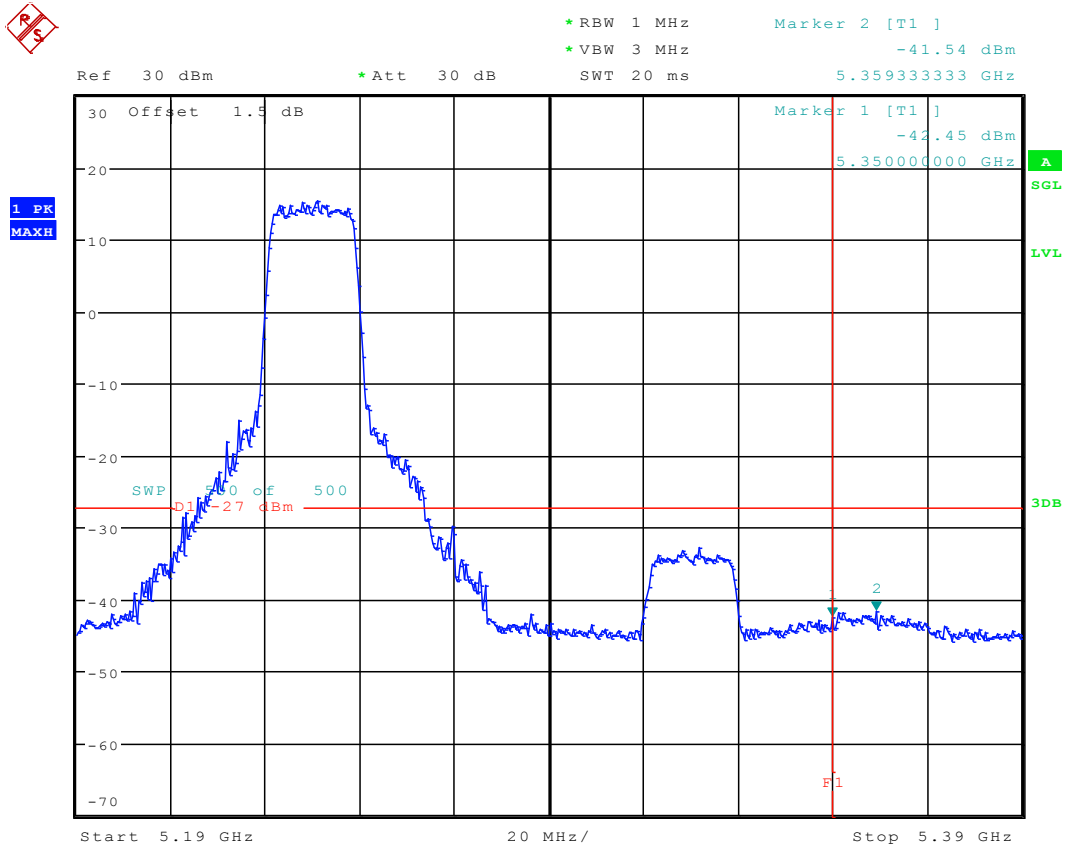
*RBW 1 MHz Marker 2 [T1]
*VBW 3 MHz -41.20 dBm
SWT 20 ms 5.356333333 GHz



Date: 11.FEB.2017 17:22:27



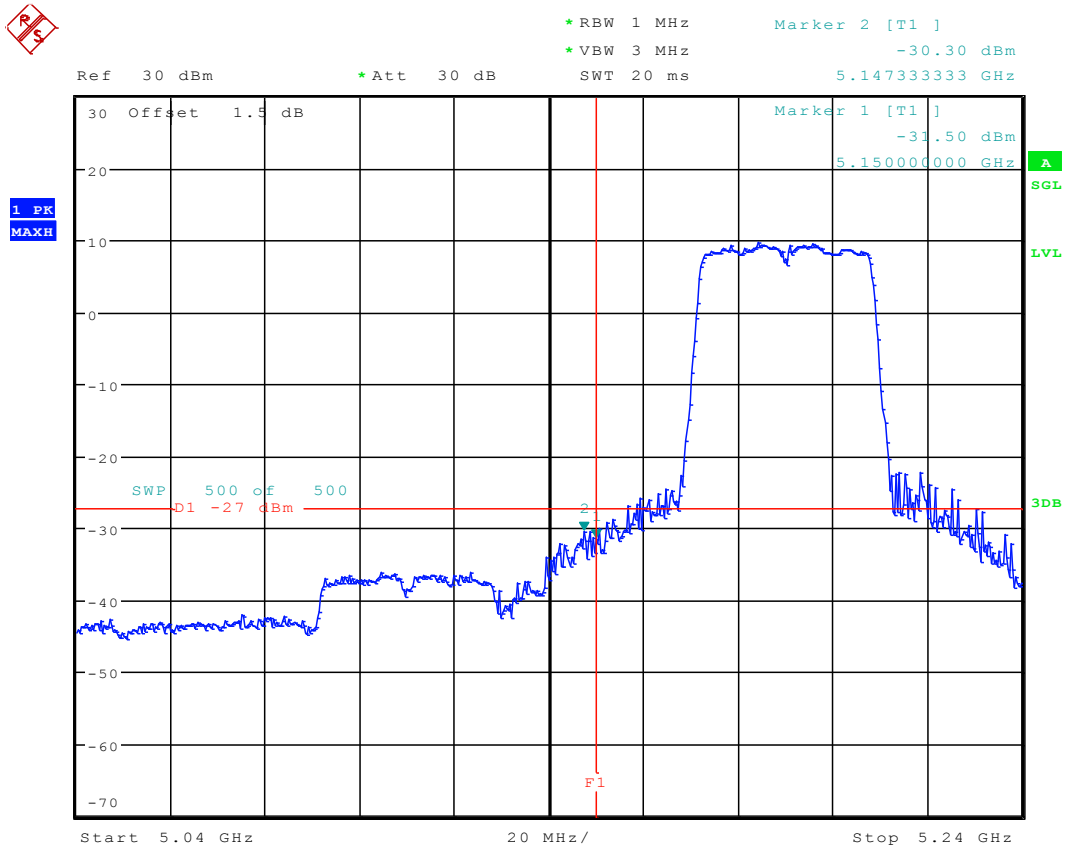
11.18 11N20MIMO_48 ANT 3



Date: 11.FEB.2017 16:40:31



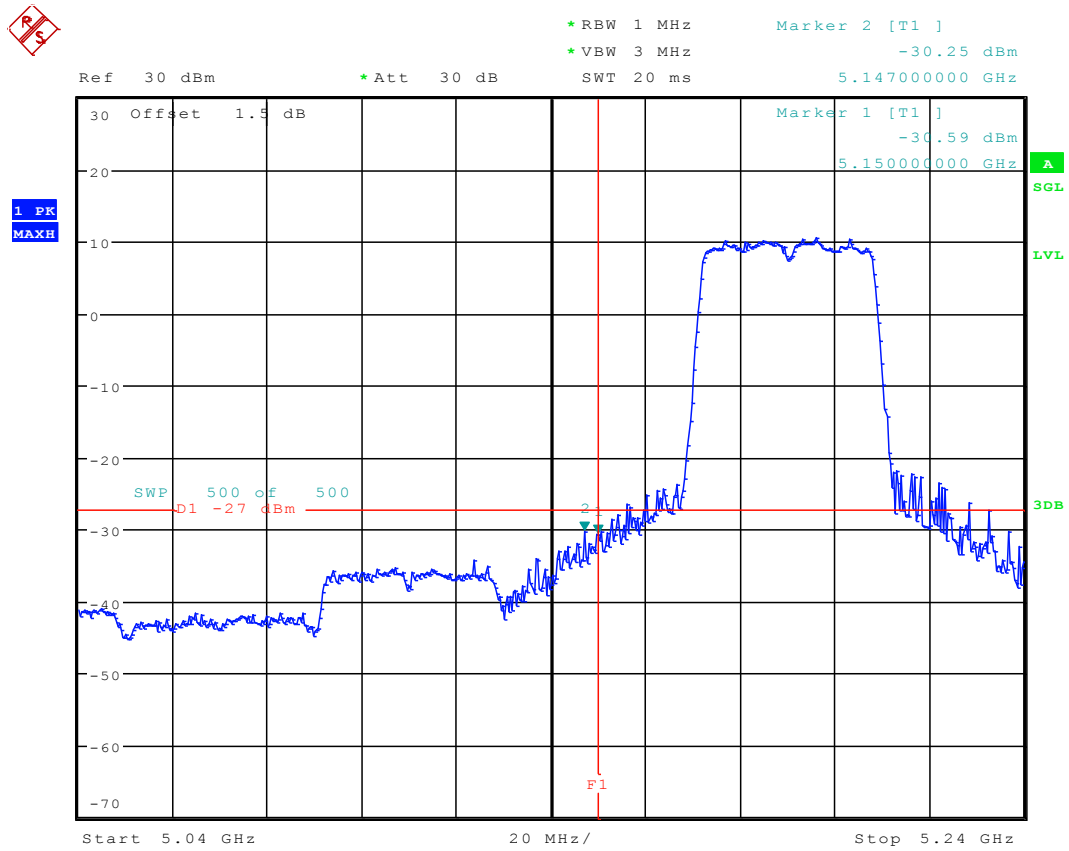
11.19 11N40_38 ANT 1



Date: 9.FEB.2017 11:29:44



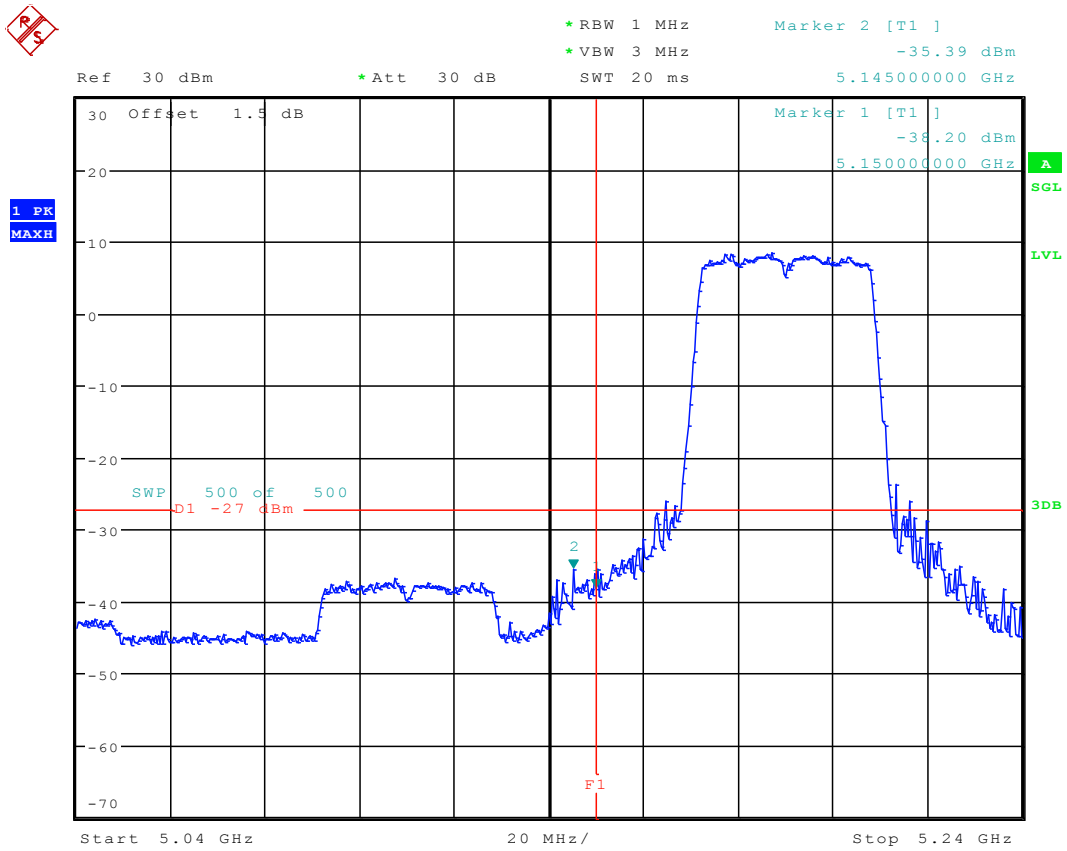
11.20 11N40_38 ANT 2



Date: 9.FEB.2017 16:19:33



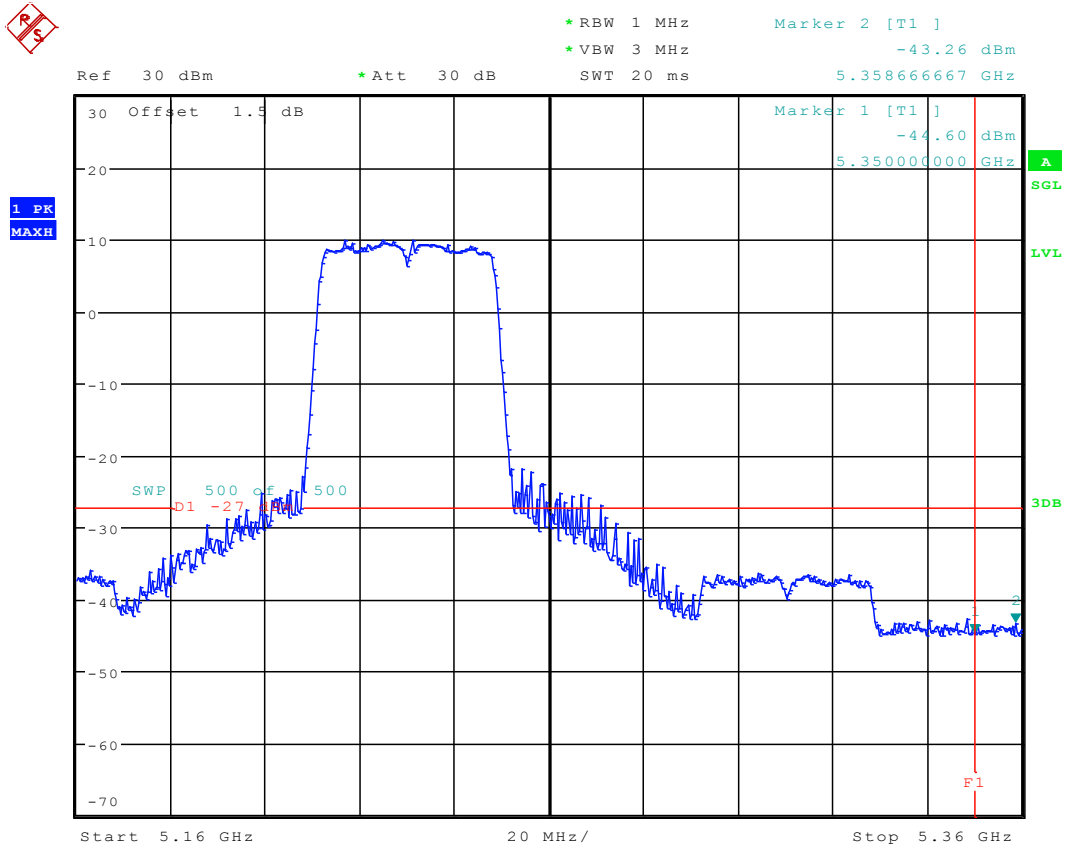
11.21 11N40_38 ANT 3



Date: 15.FEB.2017 11:35:10



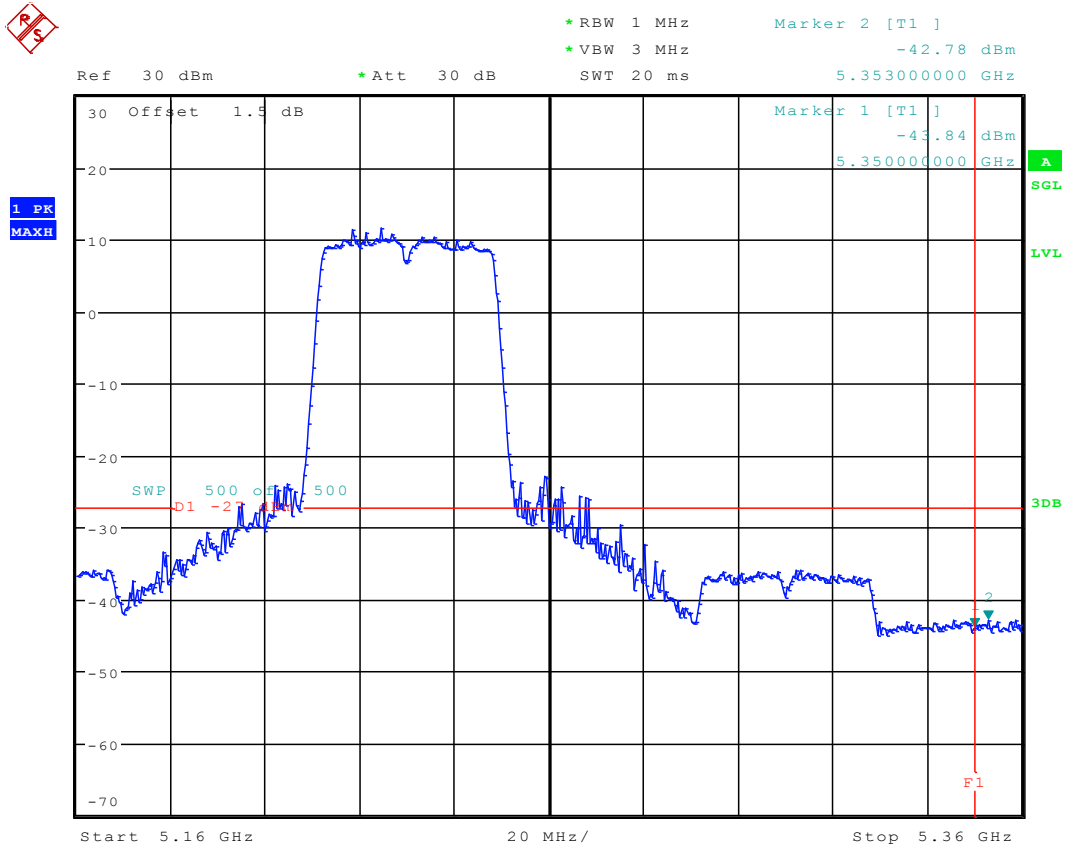
11.22 11N40_46 ANT 1



Date: 9.FEB.2017 11:36:59



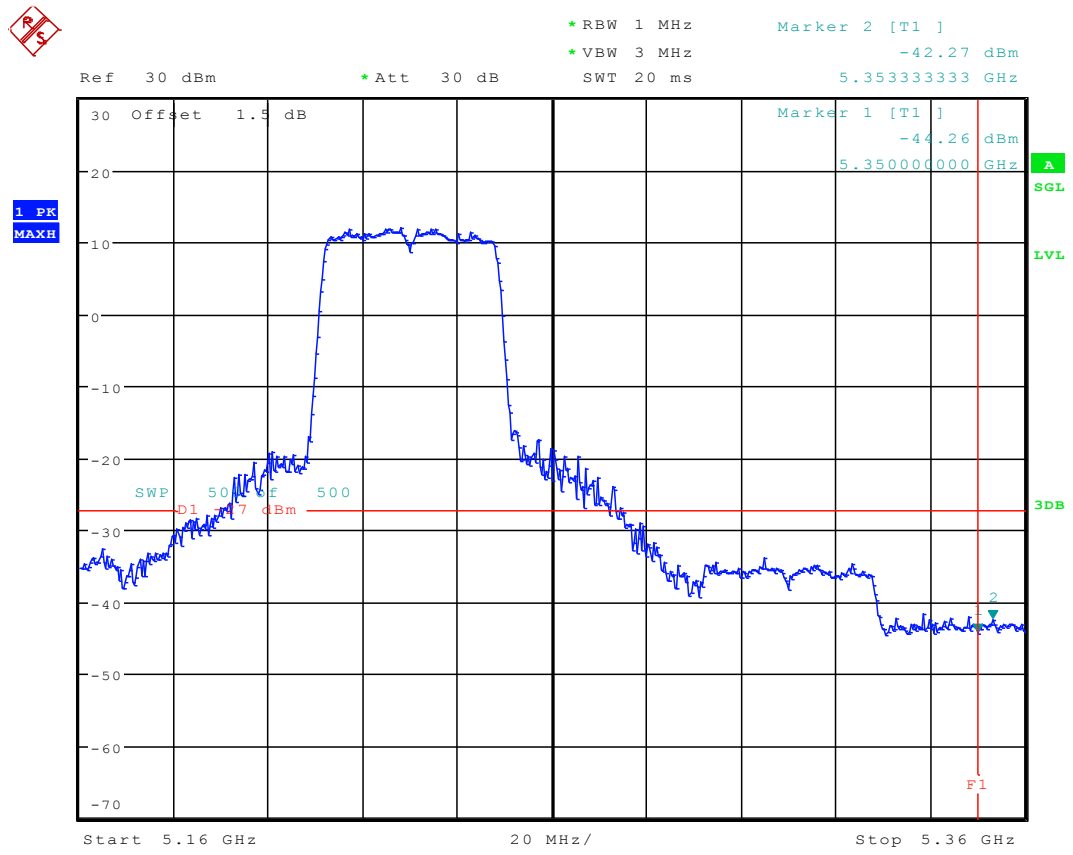
11.23 11N40_46 ANT 2



Date: 9.FEB.2017 16:25:25

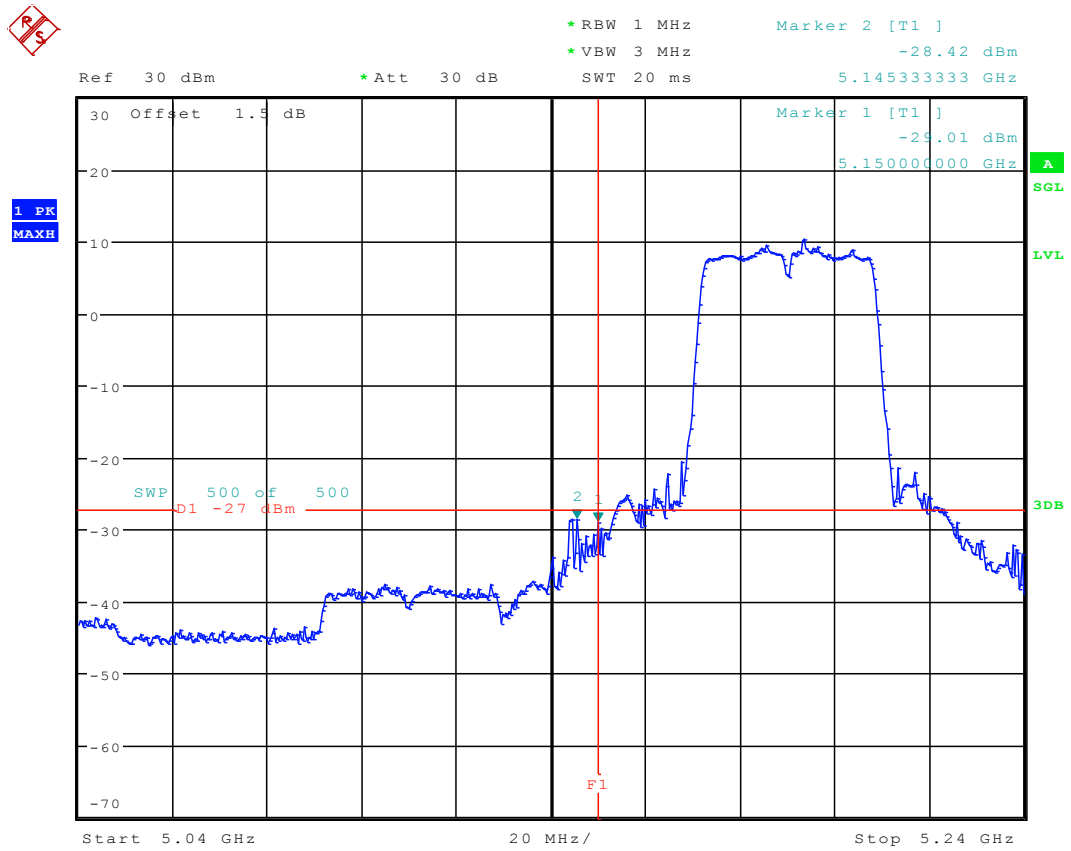


11.24 11N40_46 ANT 3



Date: 9.FEB.2017 19:59:09

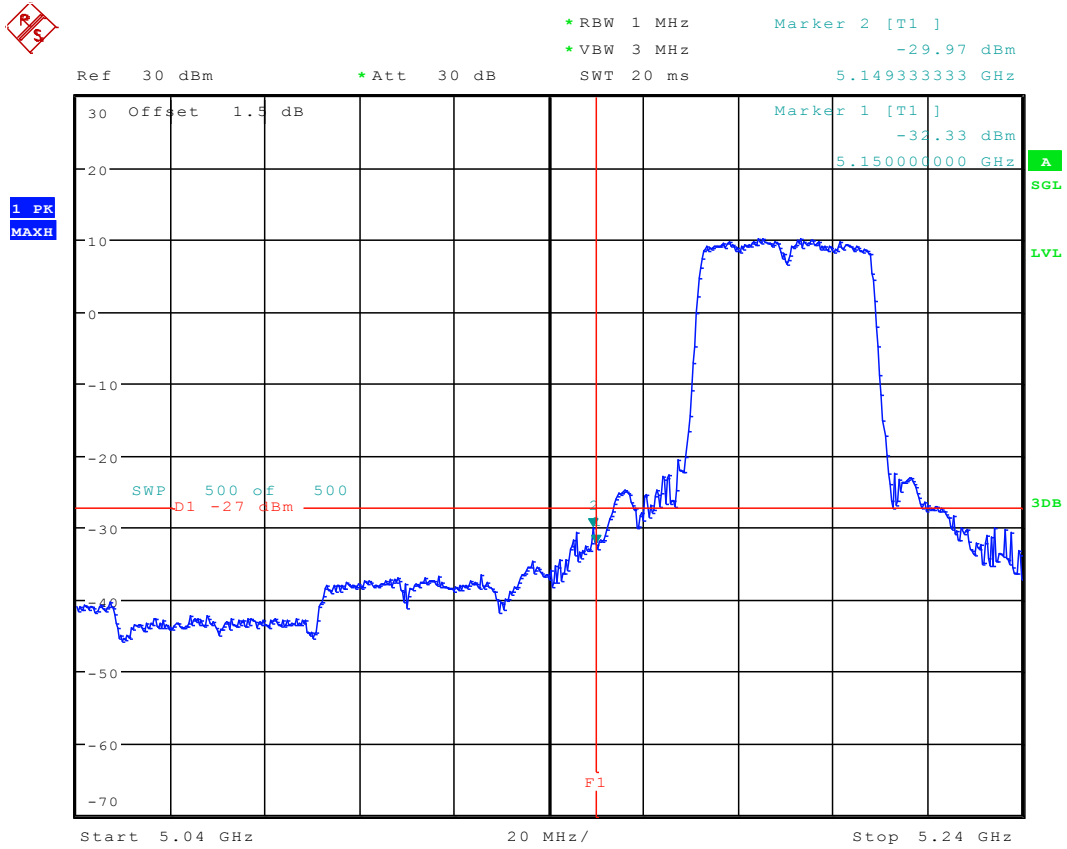
11.25 11N40MIMO_38 ANT 1



Date: 11.FEB.2017 18:51:58



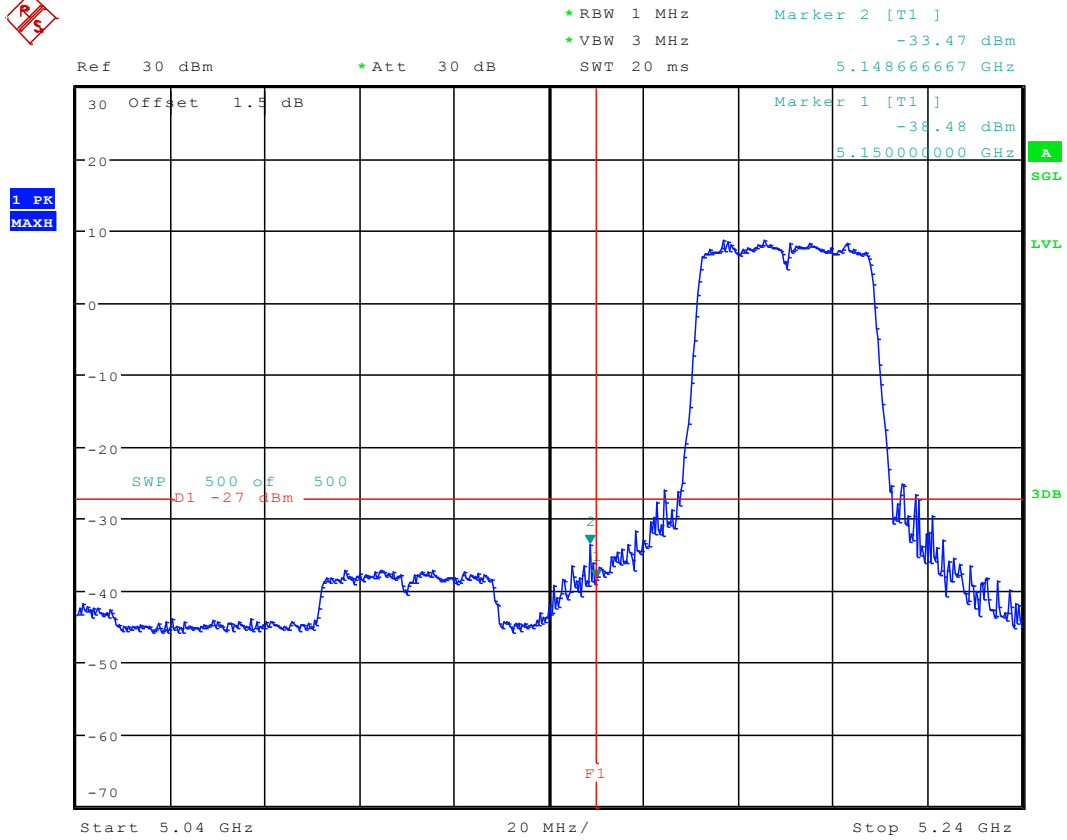
11.26 11N40MIMO_38 ANT 2



Date: 11.FEB.2017 17:36:10

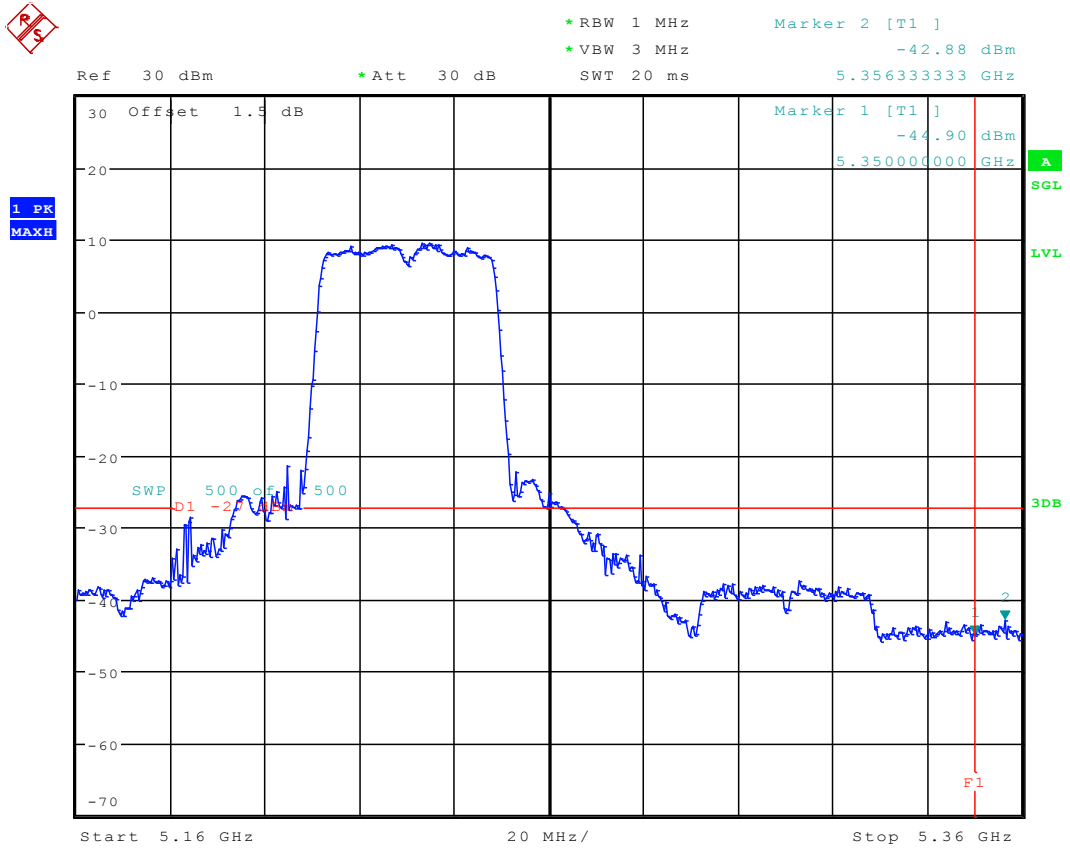


11.27 11N40MIMO_38 ANT 3



Date: 15.FEB.2017 12:08:47

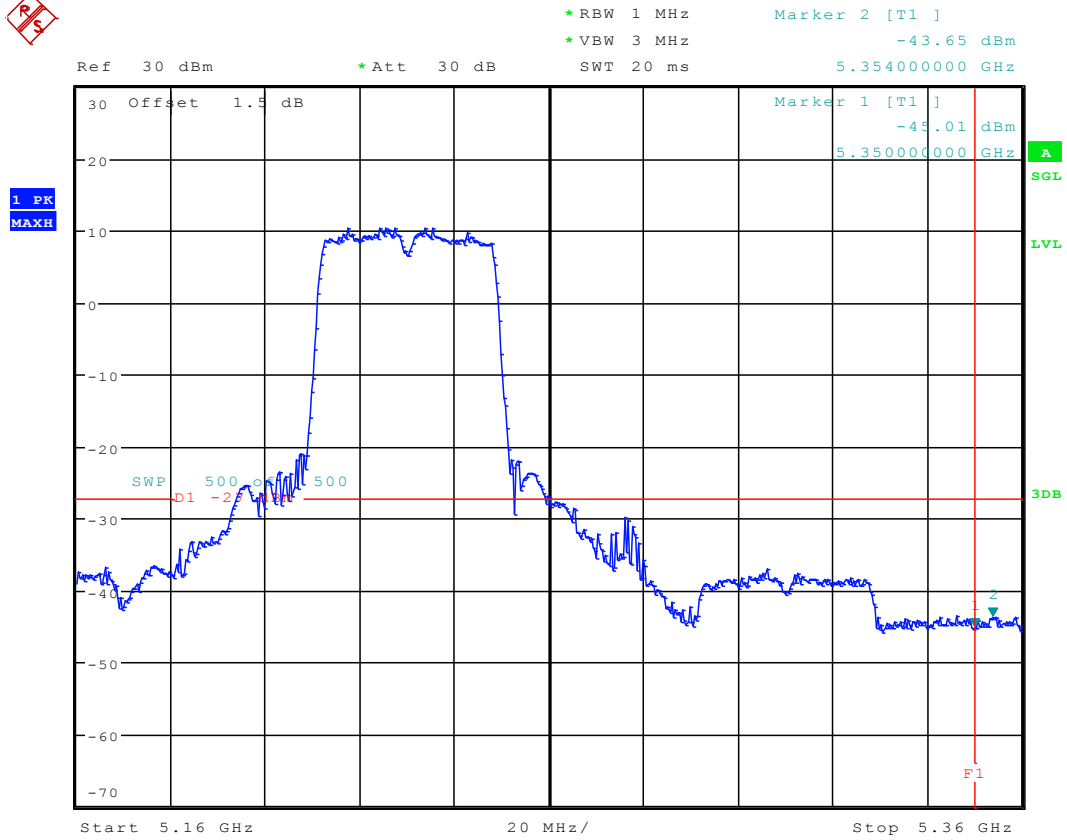
11.28 11N40MIMO_46 ANT 1



Date: 11.FEB.2017 18:57:09



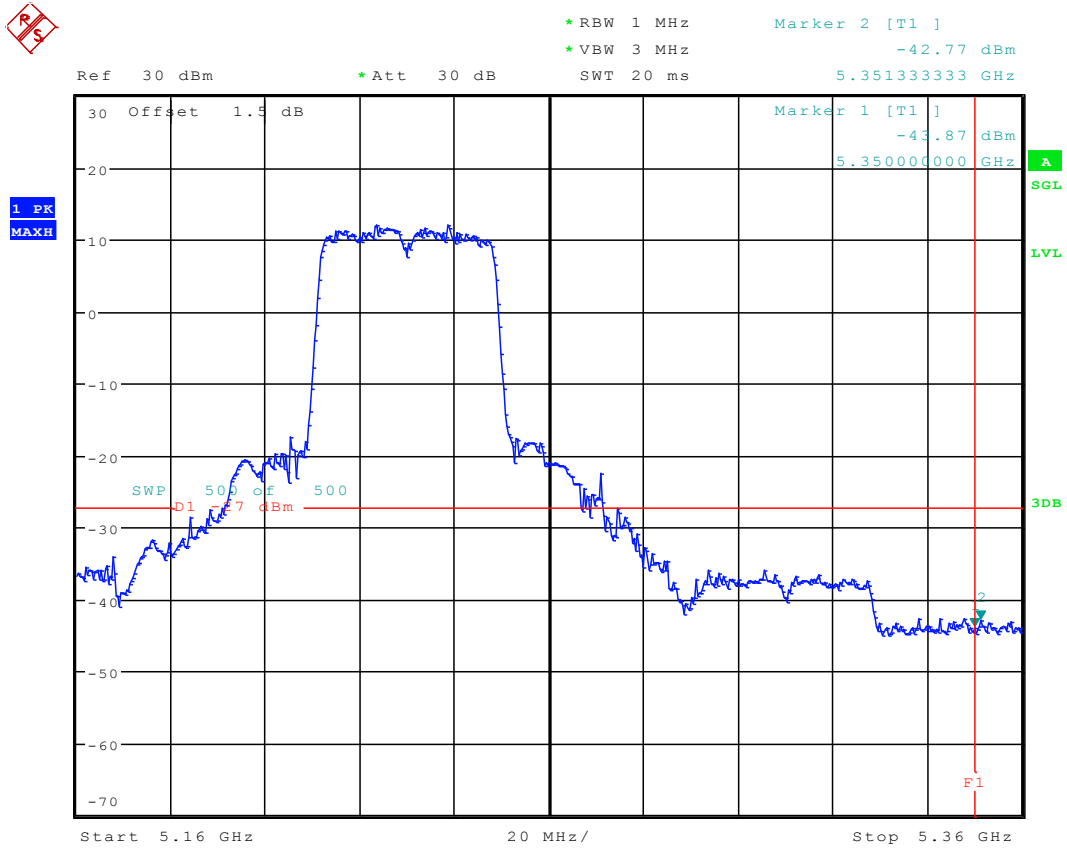
11.29 11N40MIMO_46 ANT 2



Date: 11.FEB.2017 17:41:35



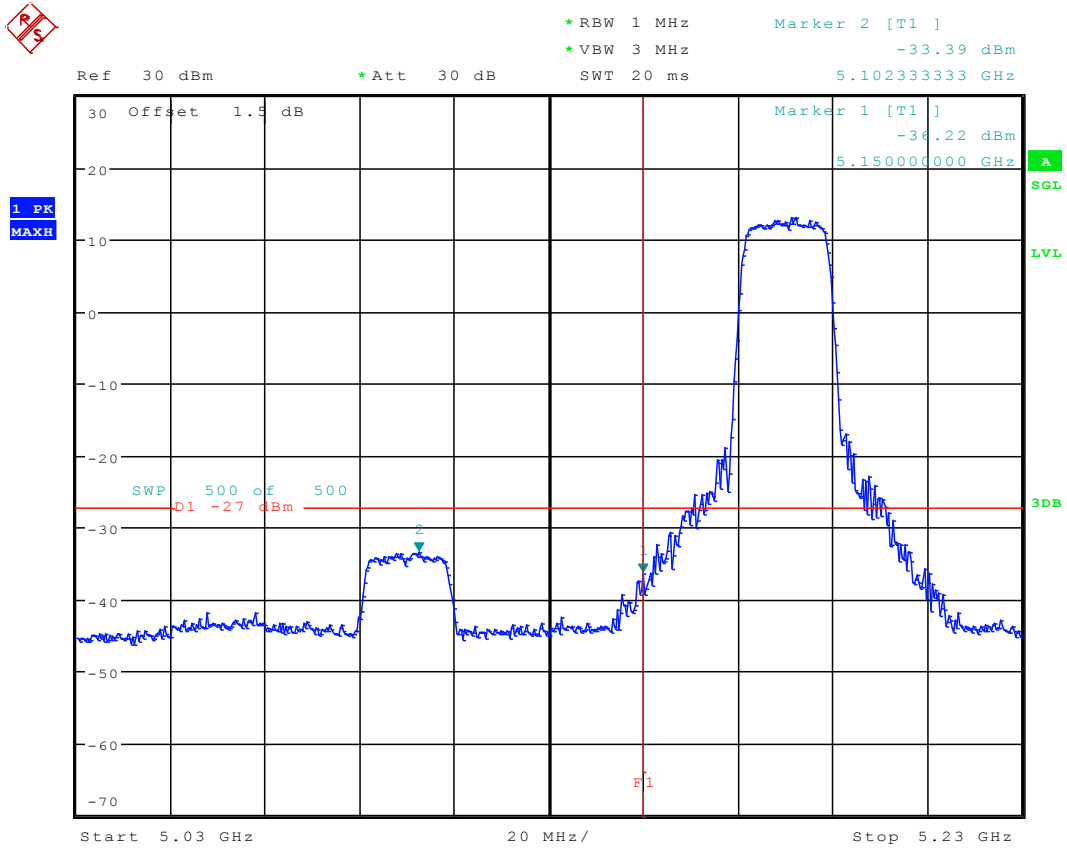
11.30 11N40MIMO_46 ANT 3



Date: 11.FEB.2017 16:59:21



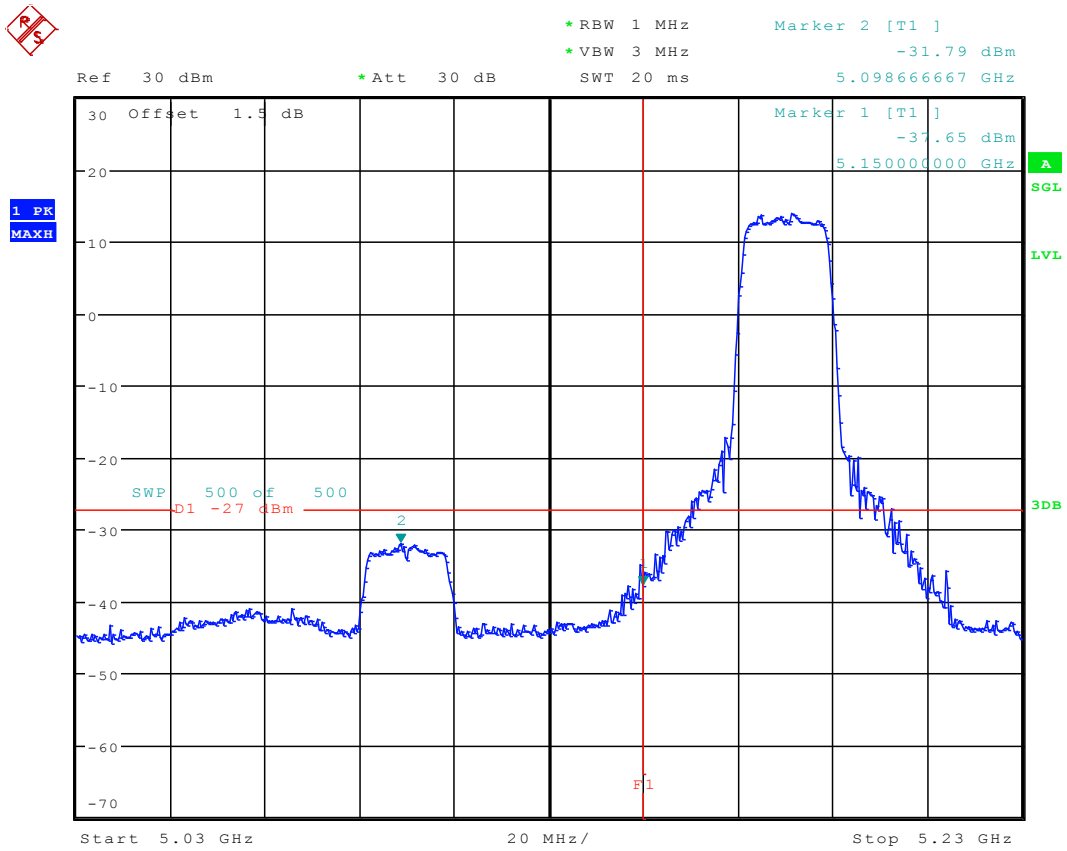
11.31 11AC20_36 ANT 1



Date: 9.FEB.2017 10:43:19



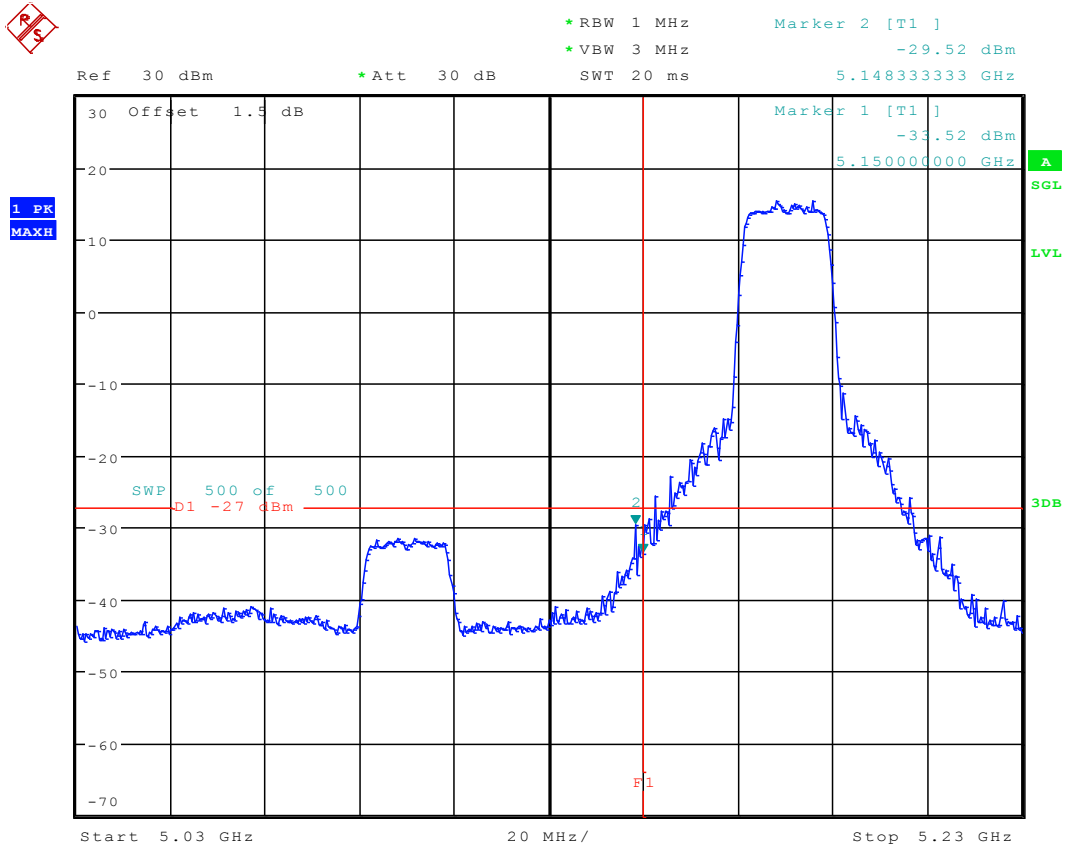
11.32 11AC20_36 ANT 2



Date: 9.FEB.2017 15:58:52

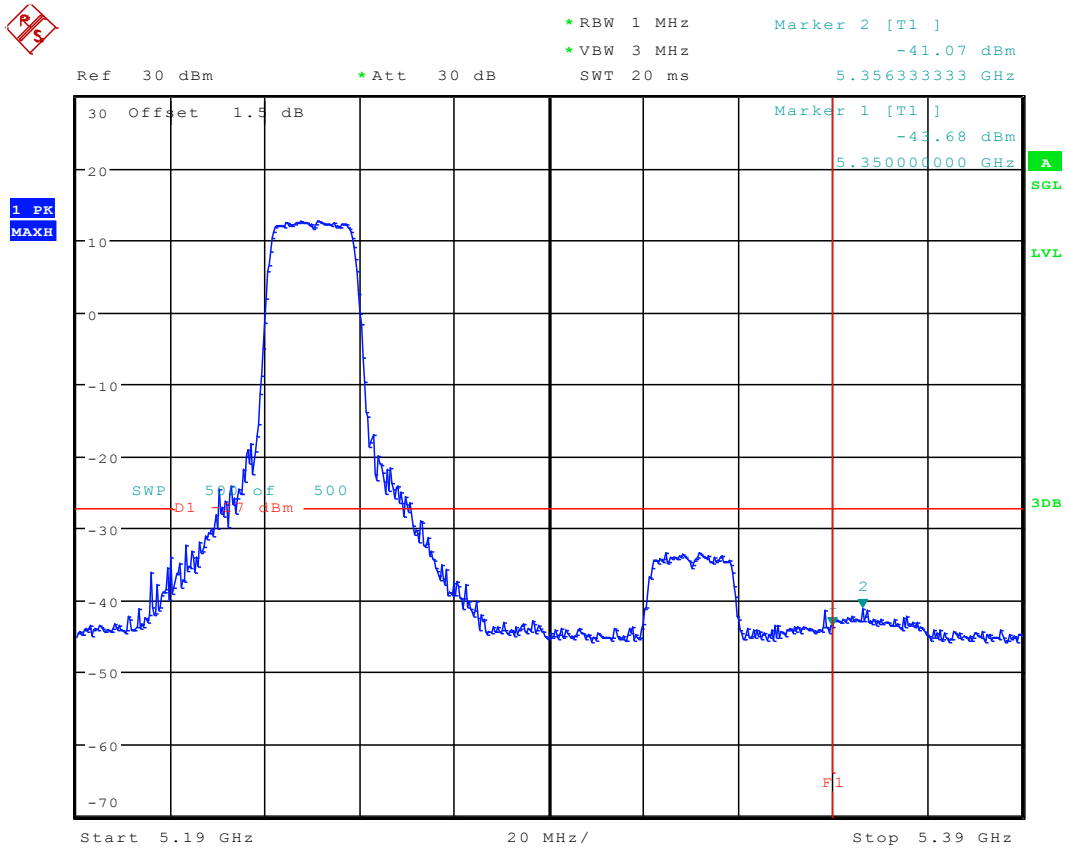


11.33 11AC20_36 ANT 3



Date: 9.FEB.2017 19:31:23

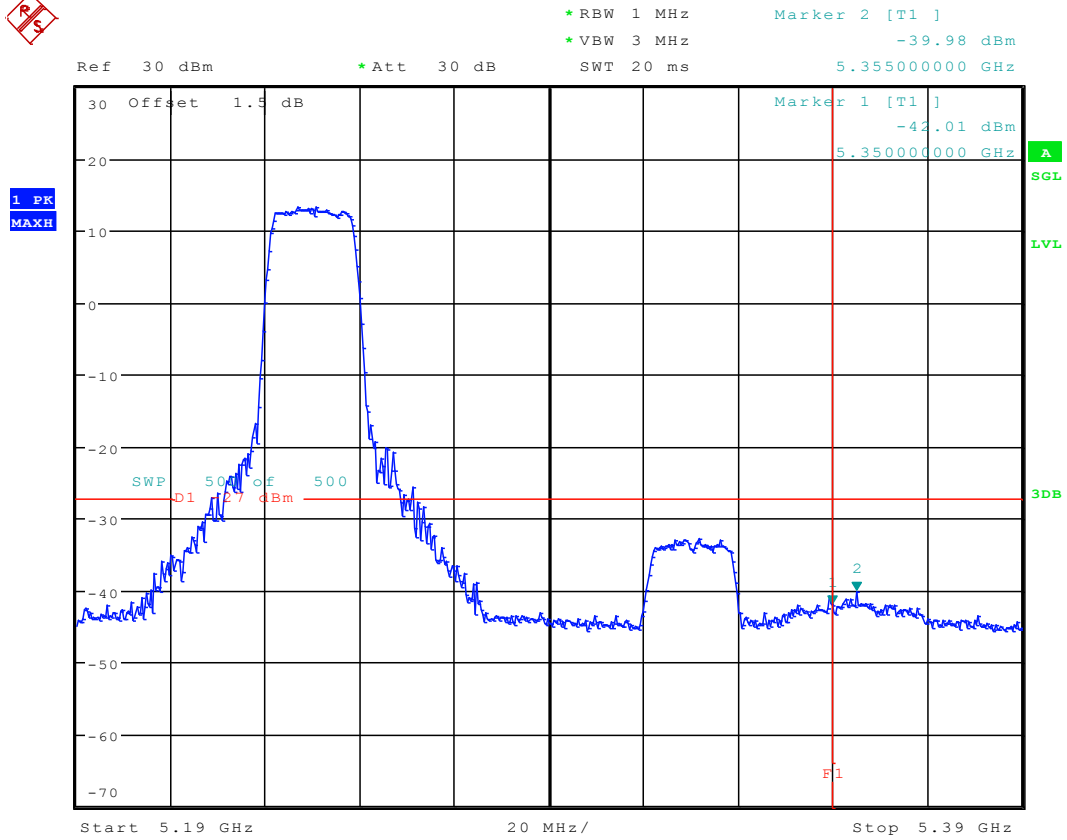
11.34 11AC20_48 ANT 1



Date: 9.FEB.2017 10:48:40



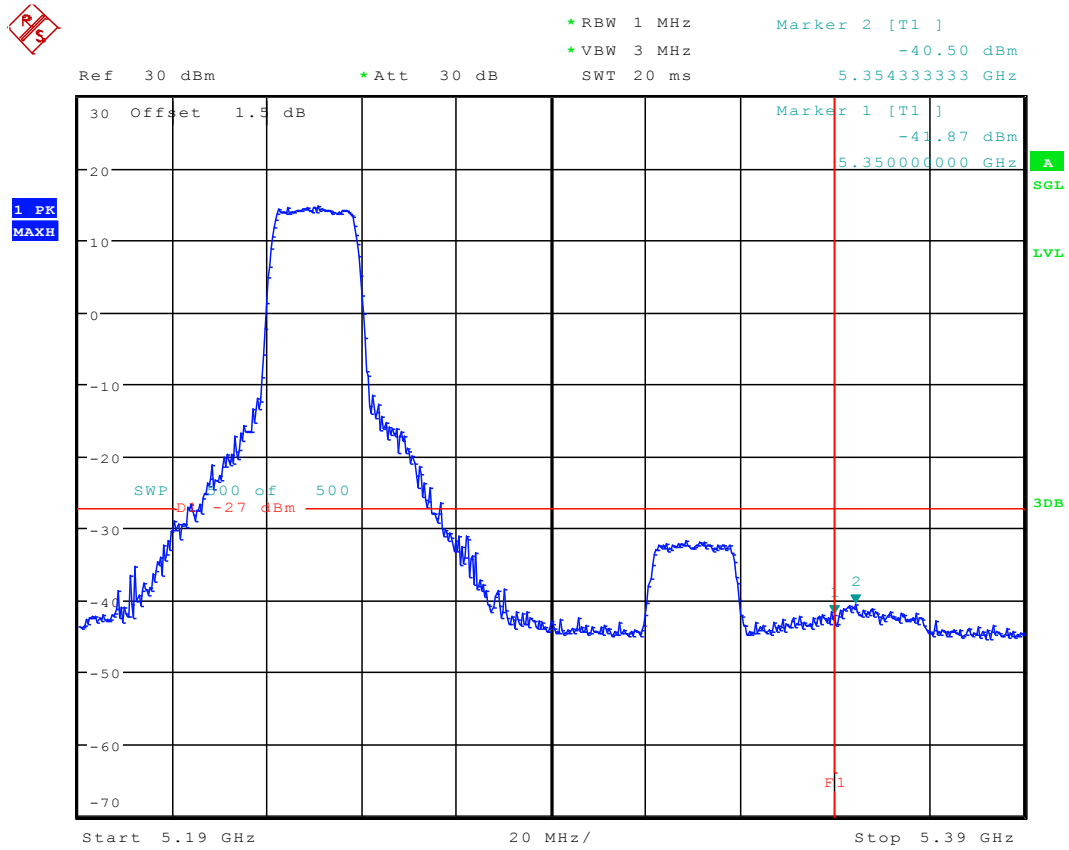
11.35 11AC20_48 ANT 2



Date: 9.FEB.2017 16:04:37

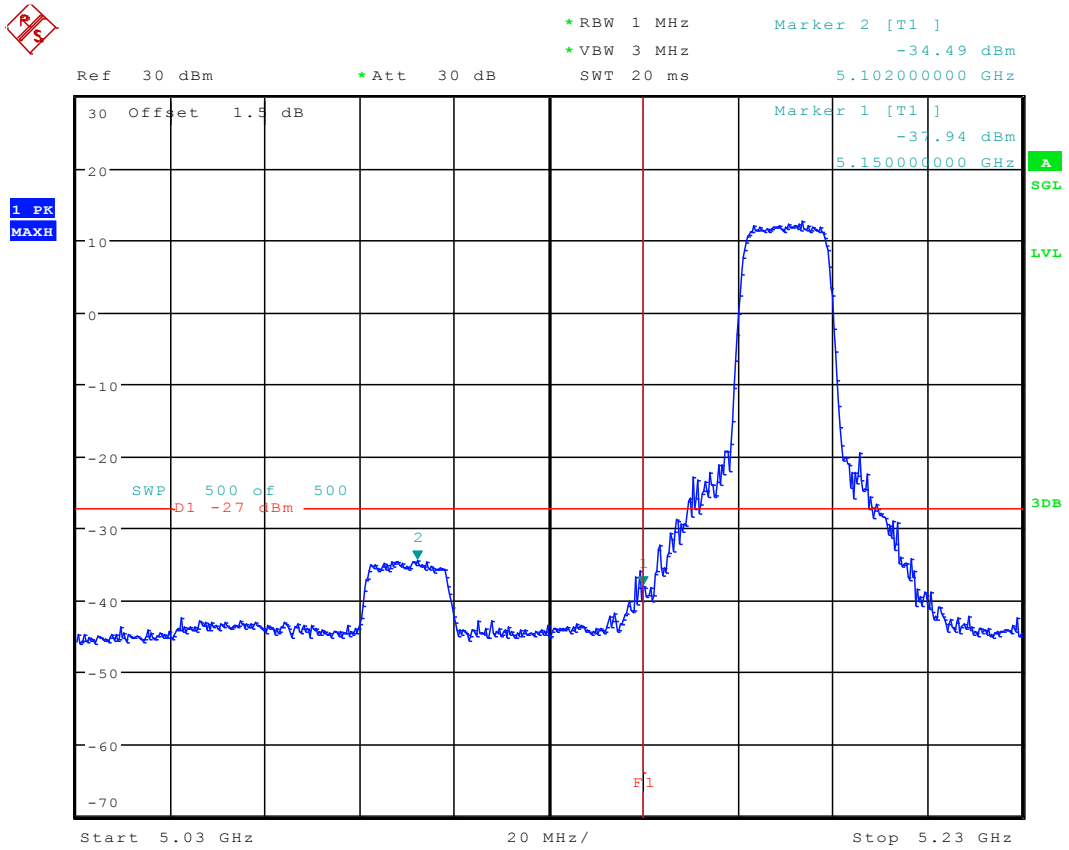


11.36 11AC20_48 ANT 3



Date: 9.FEB.2017 19:38:53

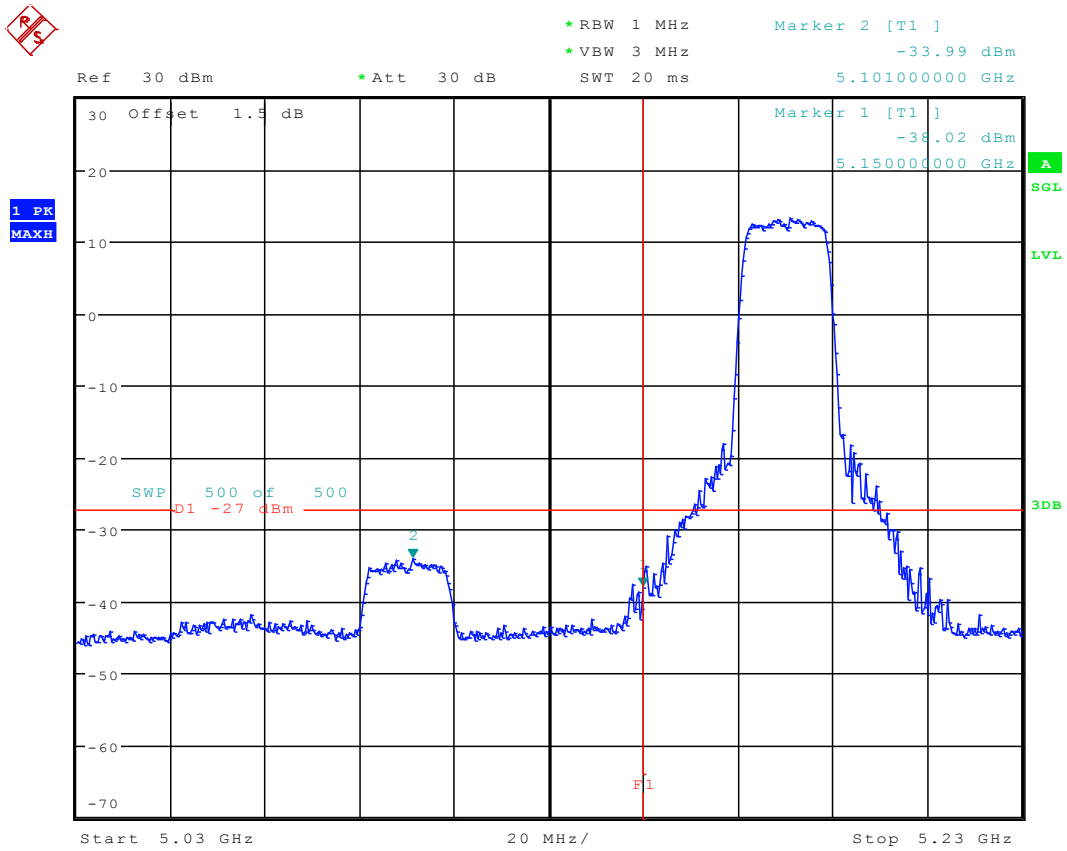
11.37 11AC20MIMO_36 ANT 1



Date: 13.FEB.2017 09:50:38



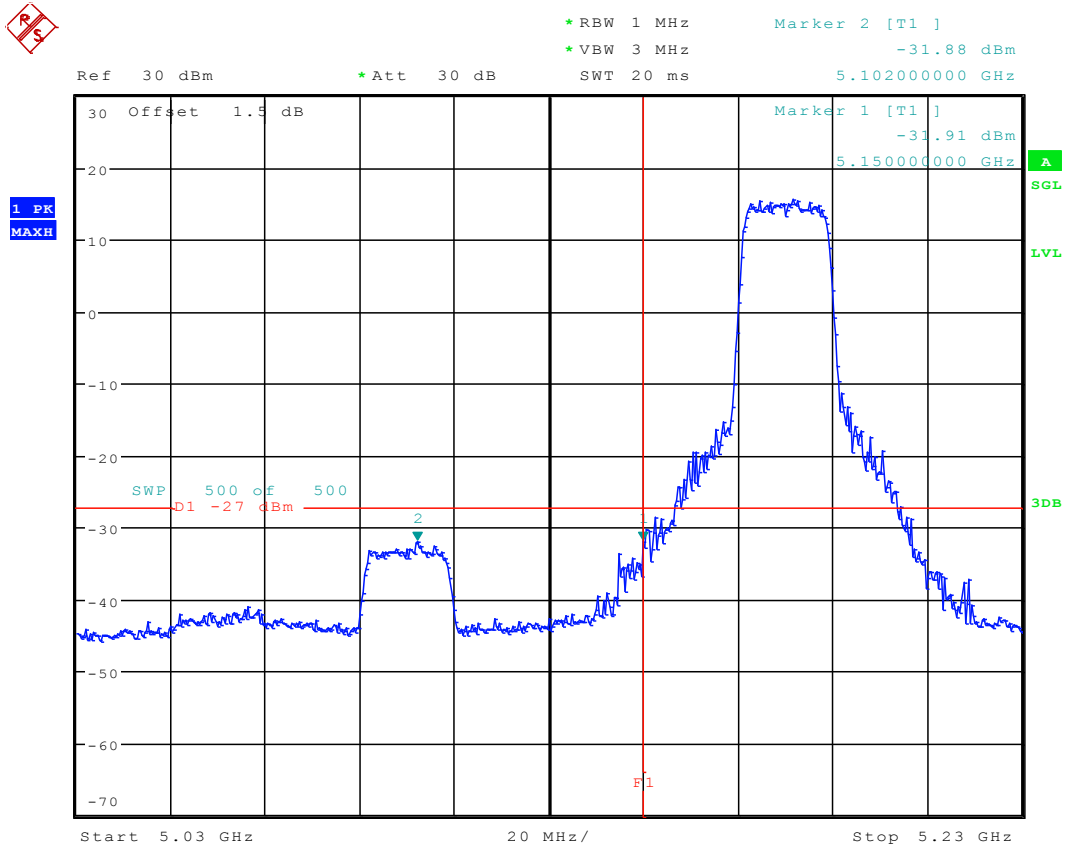
11.38 11AC20MIMO_36 ANT 2



Date: 11.FEB.2017 17:49:50



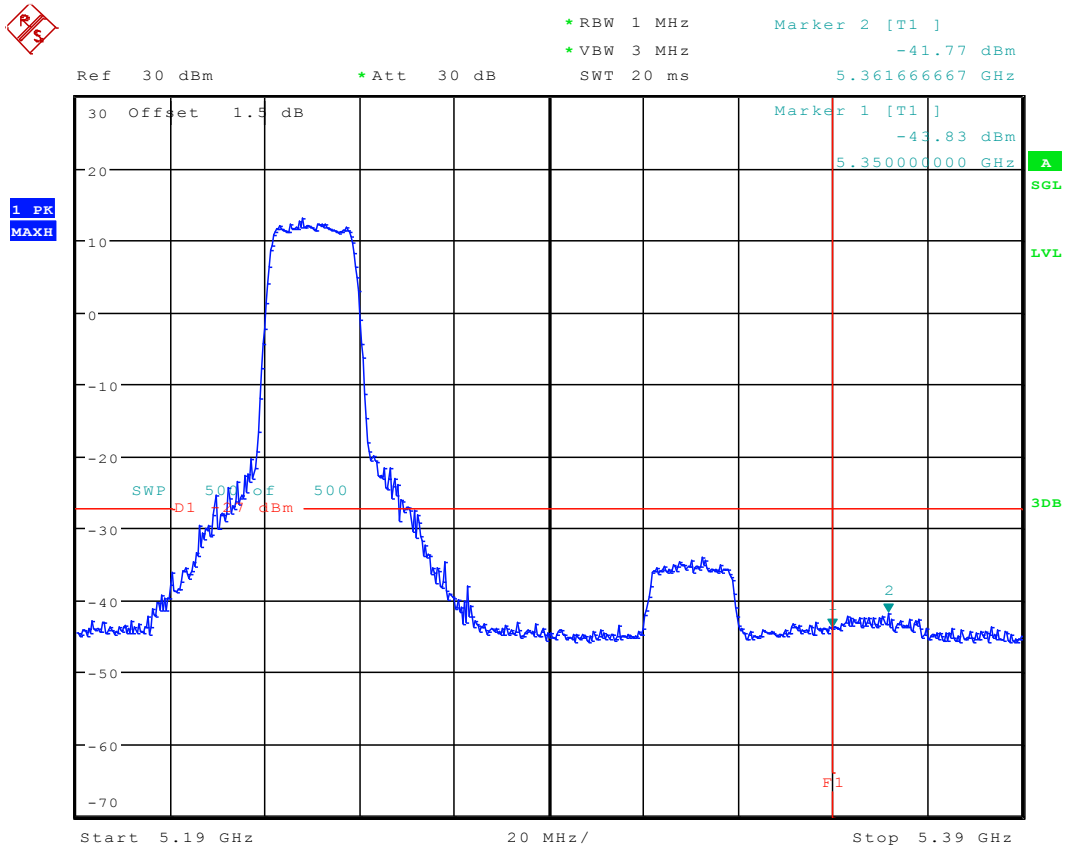
11.39 11AC20MIMO_36 ANT 3



Date: 14.FEB.2017 15:25:09



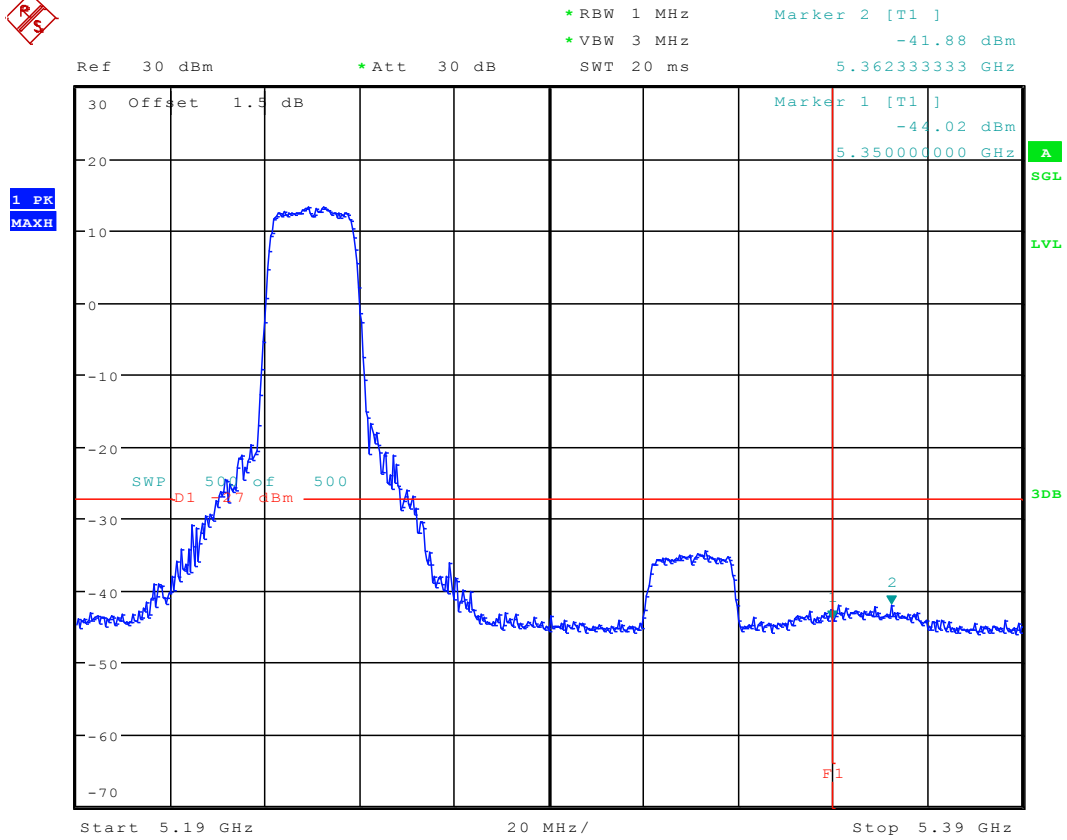
11.40 11AC20MIMO_48 ANT 1



Date: 13.FEB.2017 09:55:59



11.41 11AC20MIMO_48 ANT 2



Date: 11.FEB.2017 17:54:59

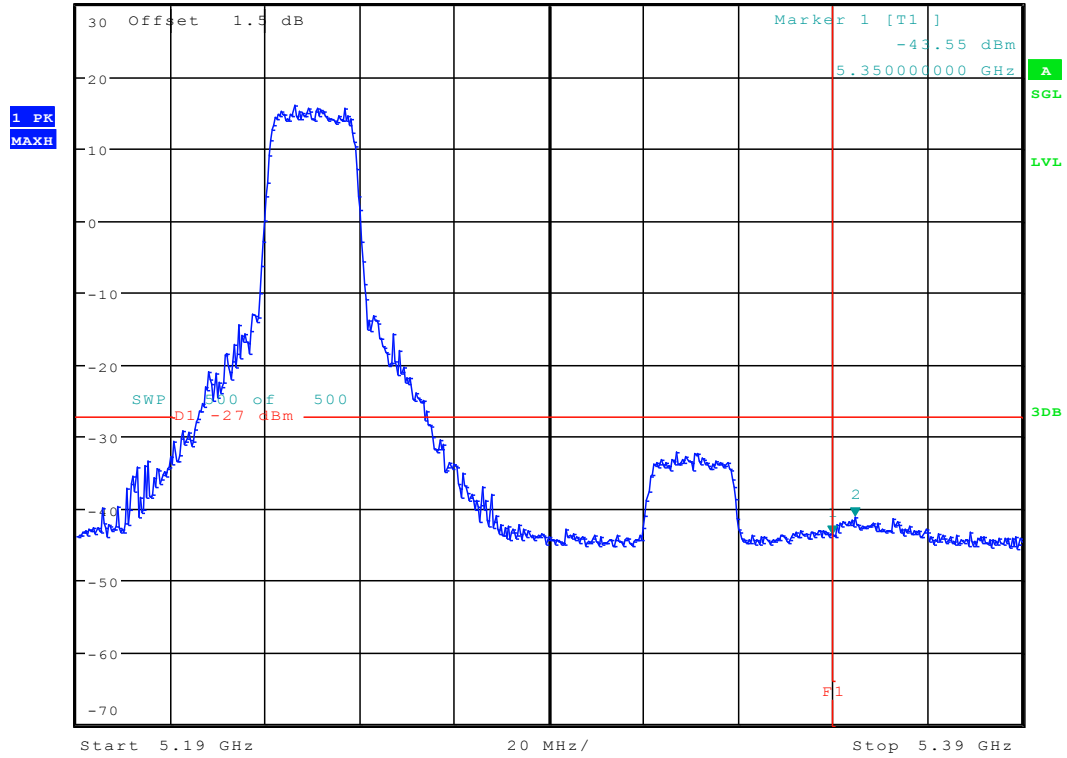
11.42 11AC20MIMO_48 ANT 3



*RBW 1 MHz
 *VBW 3 MHz
 SWT 20 ms

Marker 2 [T1]
 -41.20 dBm
 5.354666667 GHz

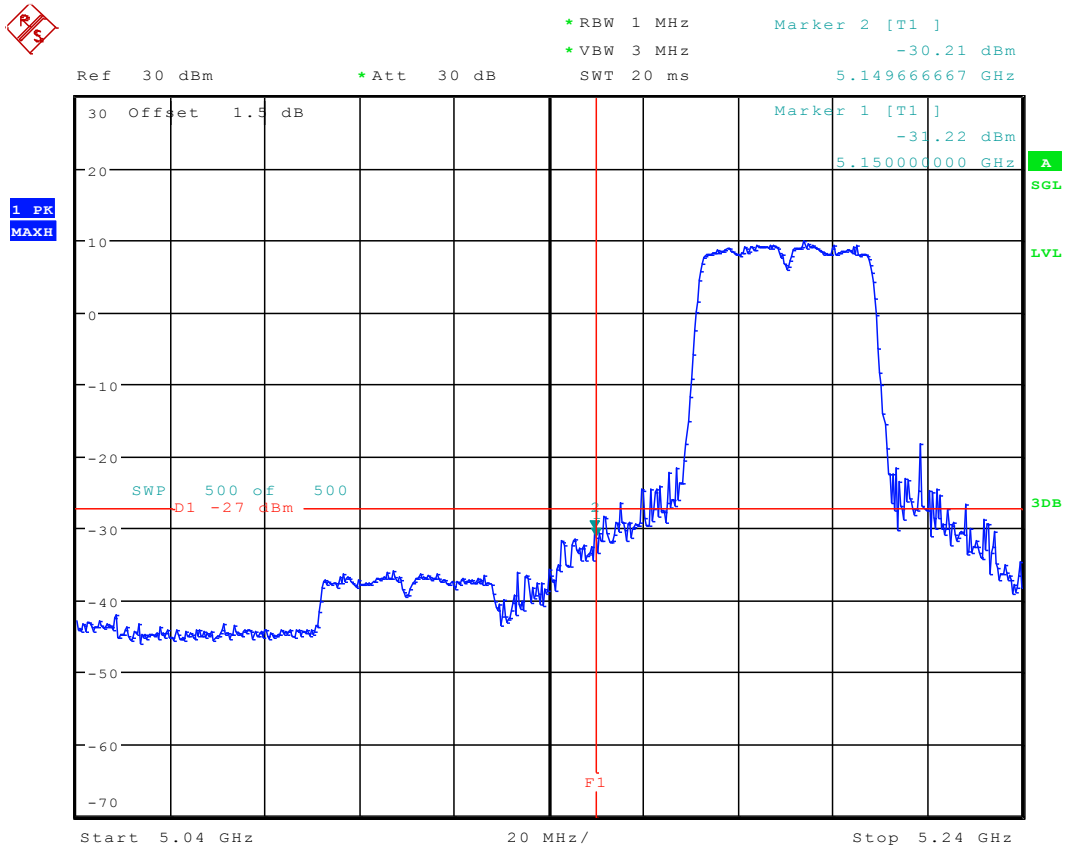
Ref 30 dBm *Att 30 dB



Date: 14.FEB.2017 15:30:30



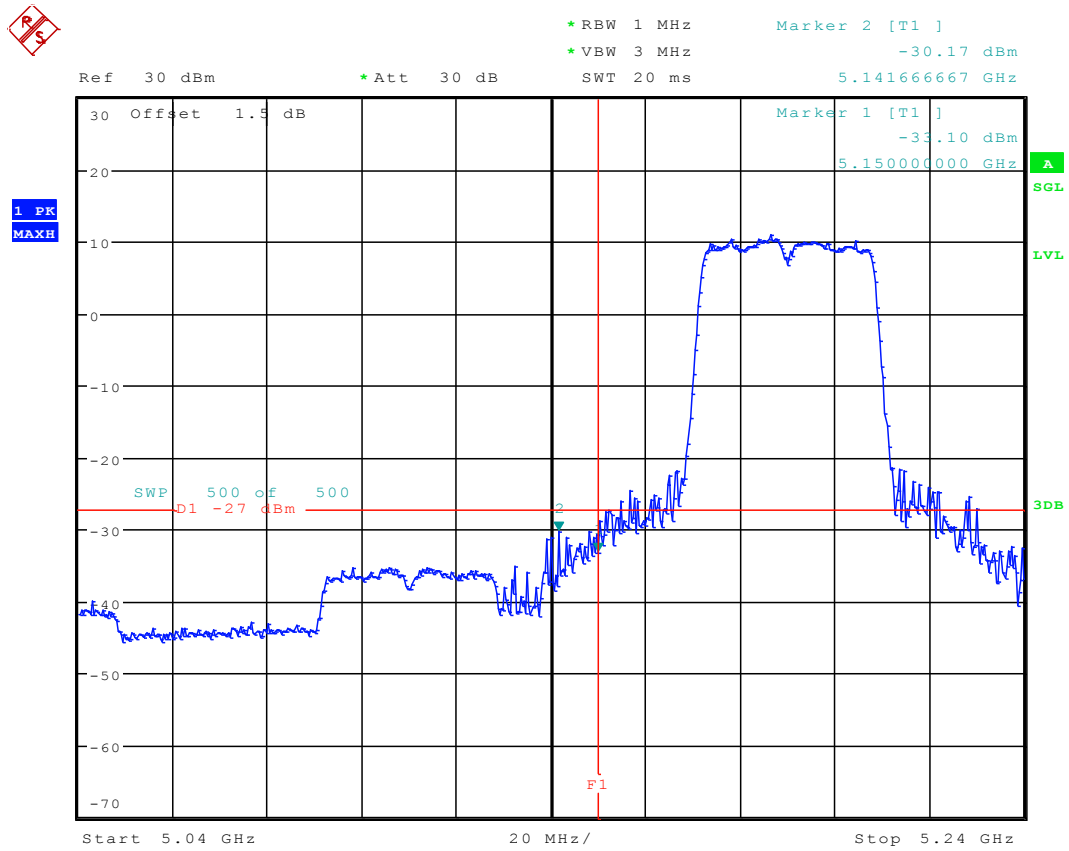
11.43 11AC40_38 ANT 1



Date: 9.FEB.2017 12:17:55

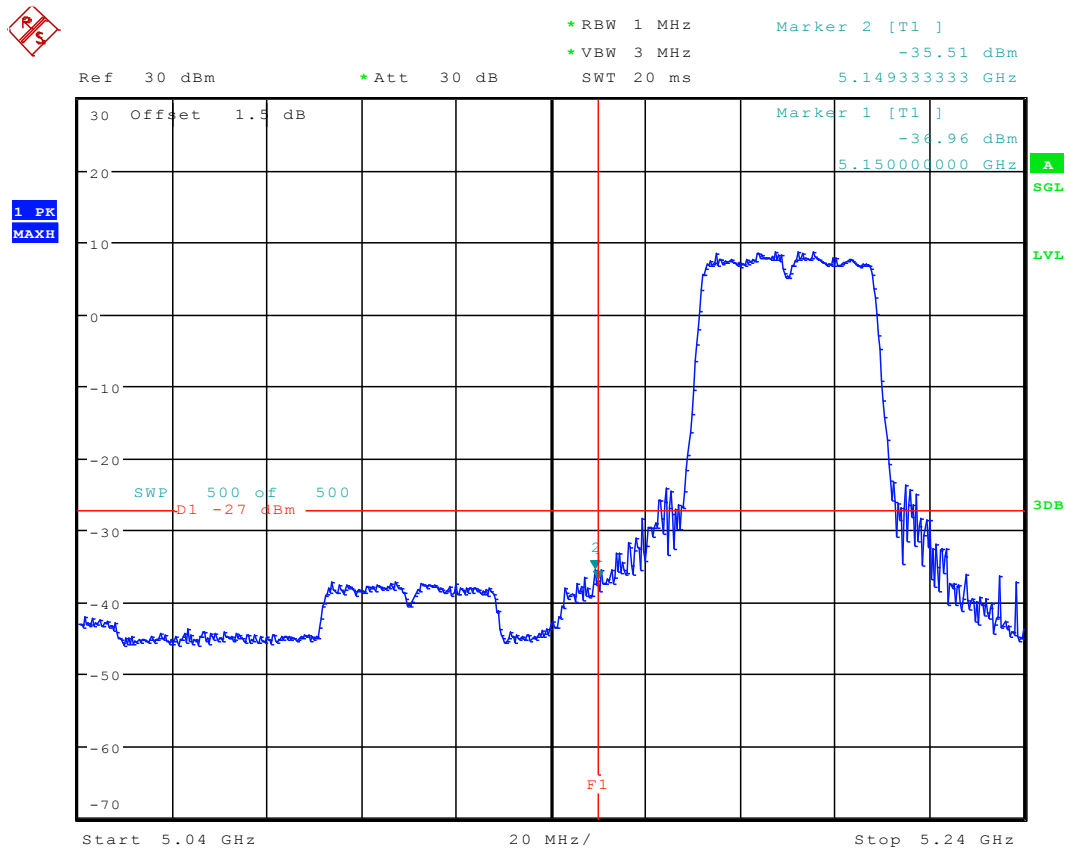


11.44 11AC40_38 ANT 2



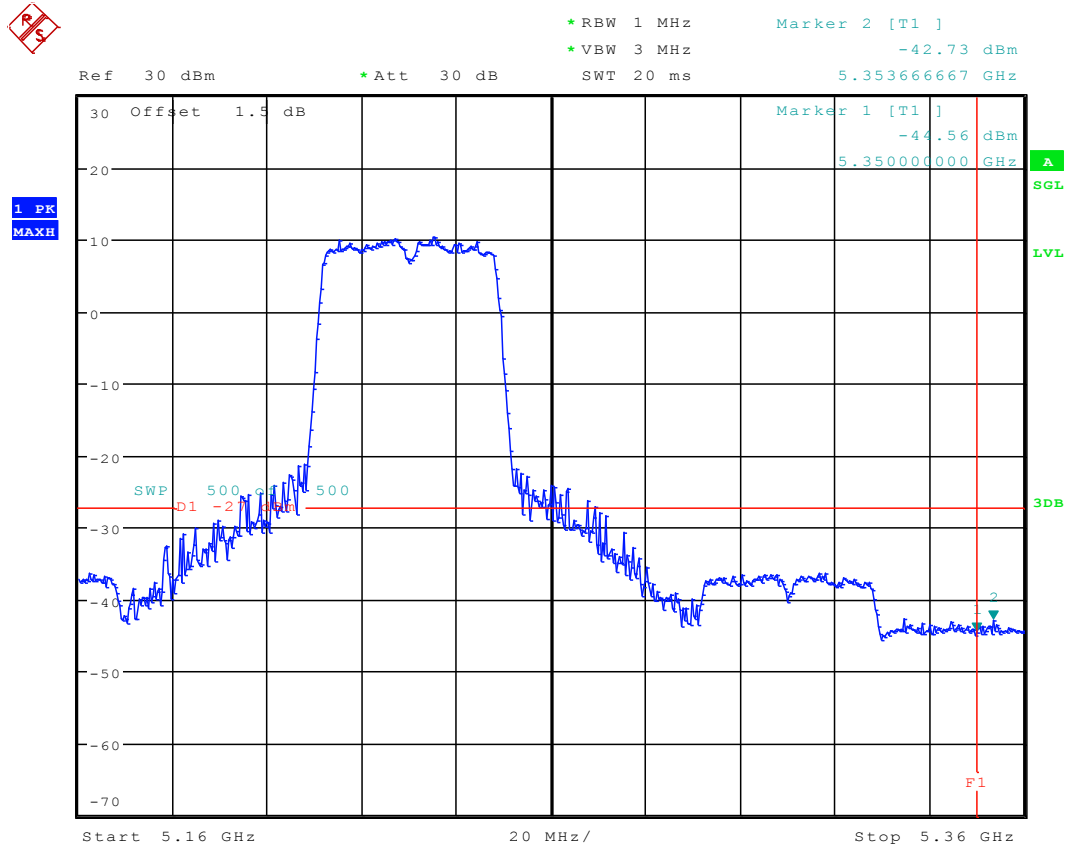
Date: 9.FEB.2017 16:33:41

11.45 11AC40_38 ANT 3



Date: 15.FEB.2017 12:13:22

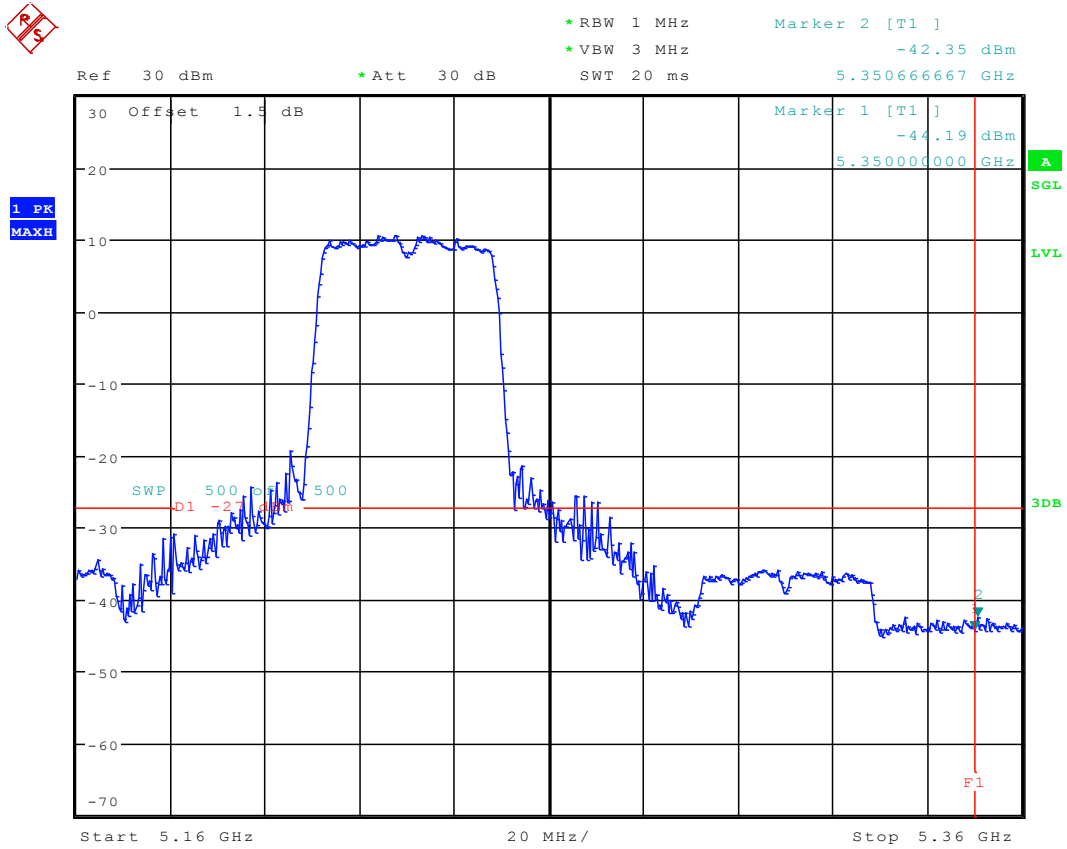
11.46 11AC40_46 ANT 1



Date: 9.FEB.2017 12:23:11



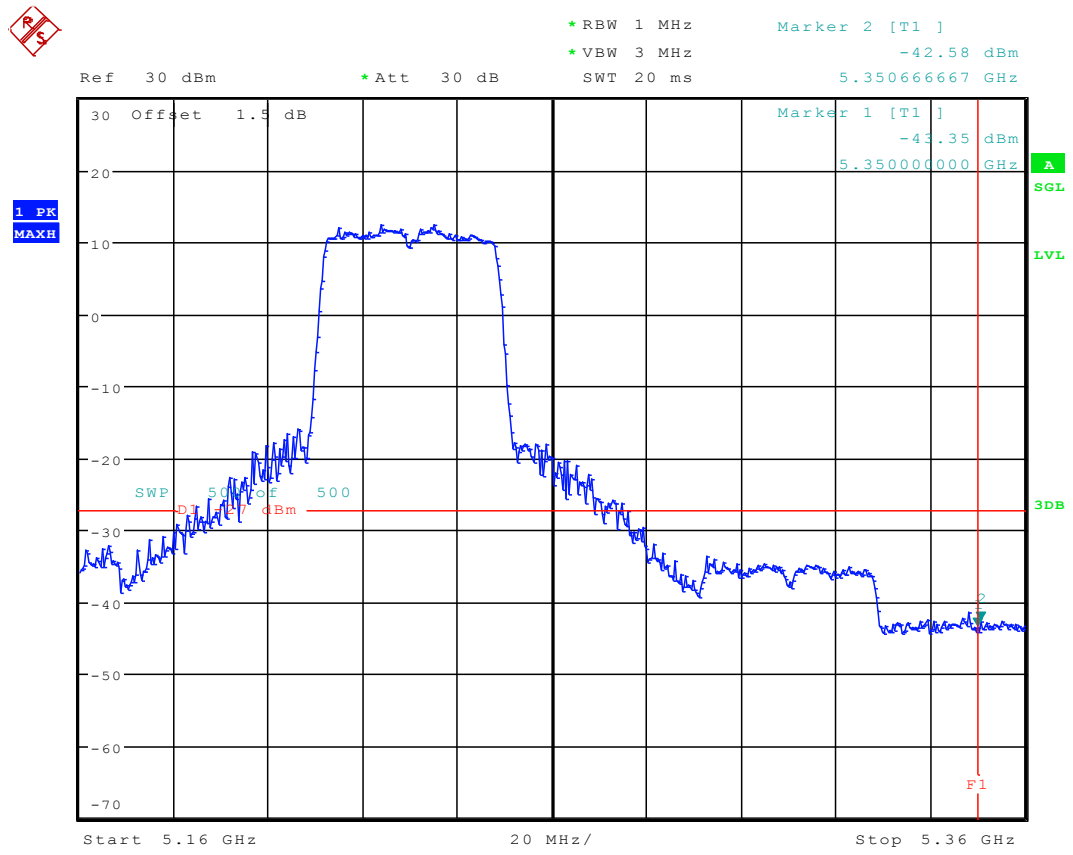
11.47 11AC40_46 ANT 2



Date: 9.FEB.2017 16:39:07

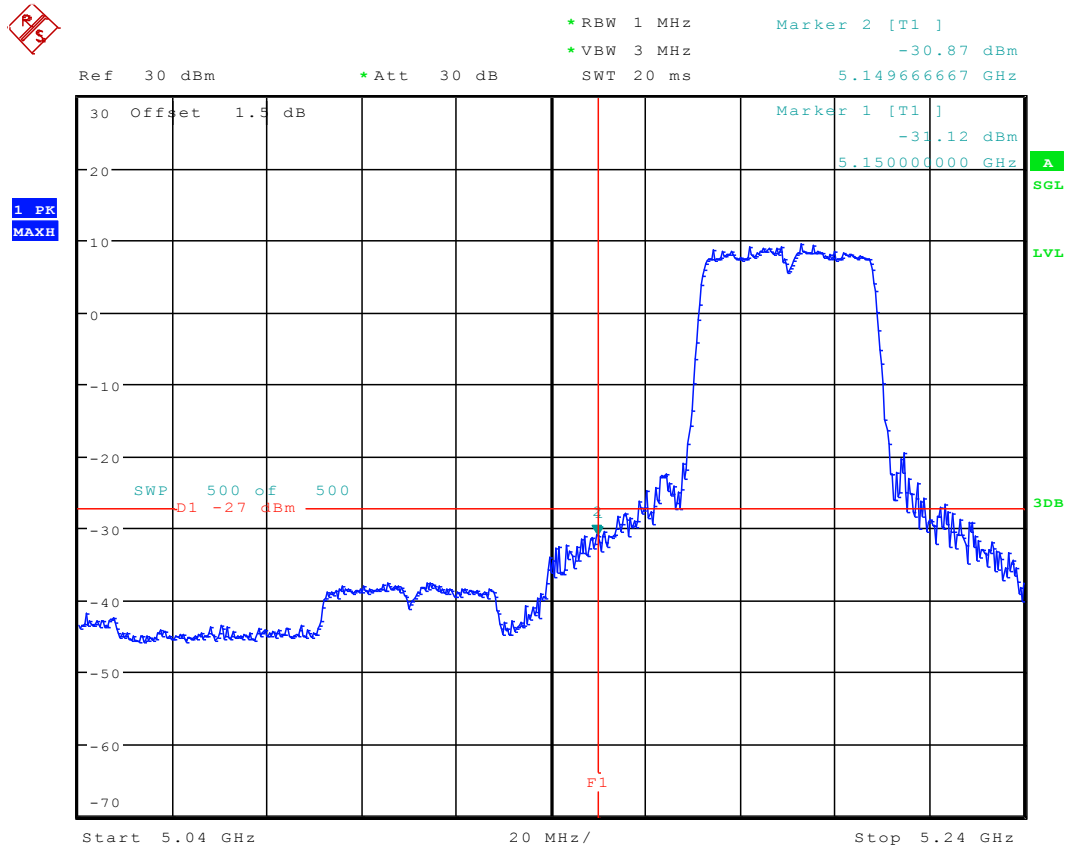


11.48 11AC40_46 ANT 3



Date: 9.FEB.2017 20:16:14

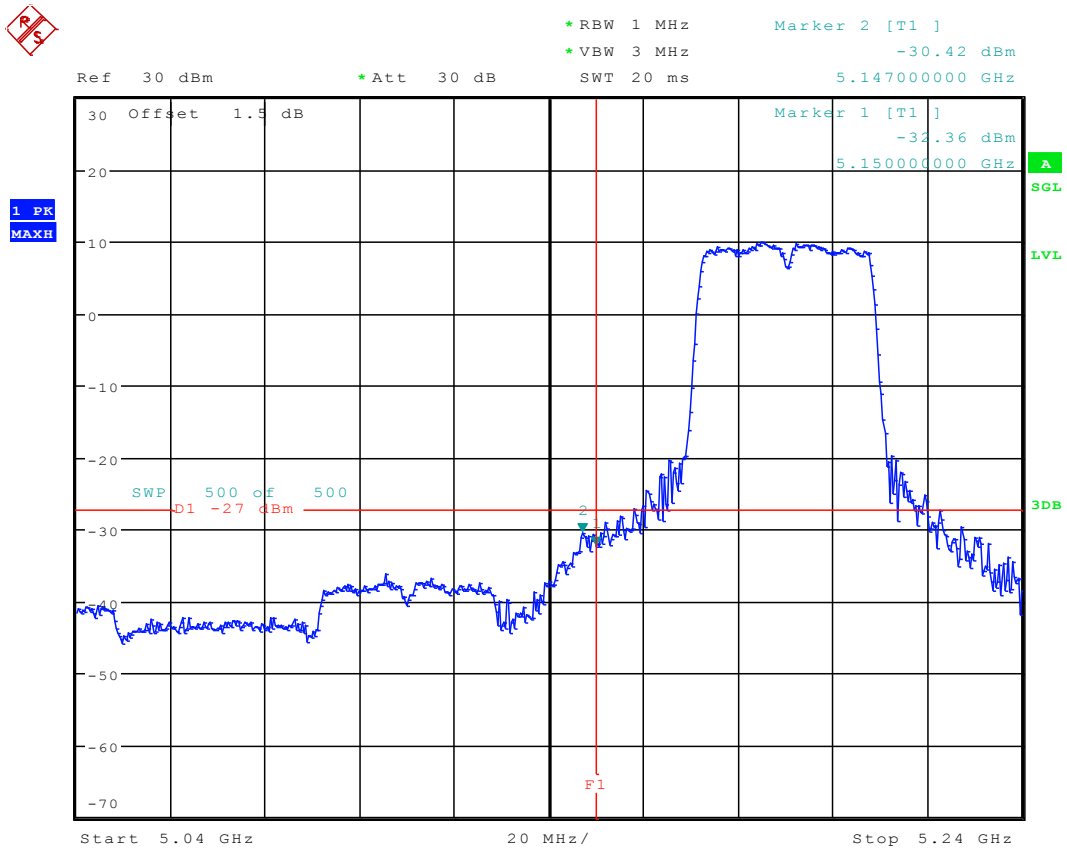
11.49 11AC40MIMO_38 ANT 1



Date: 13.FEB.2017 10:06:15



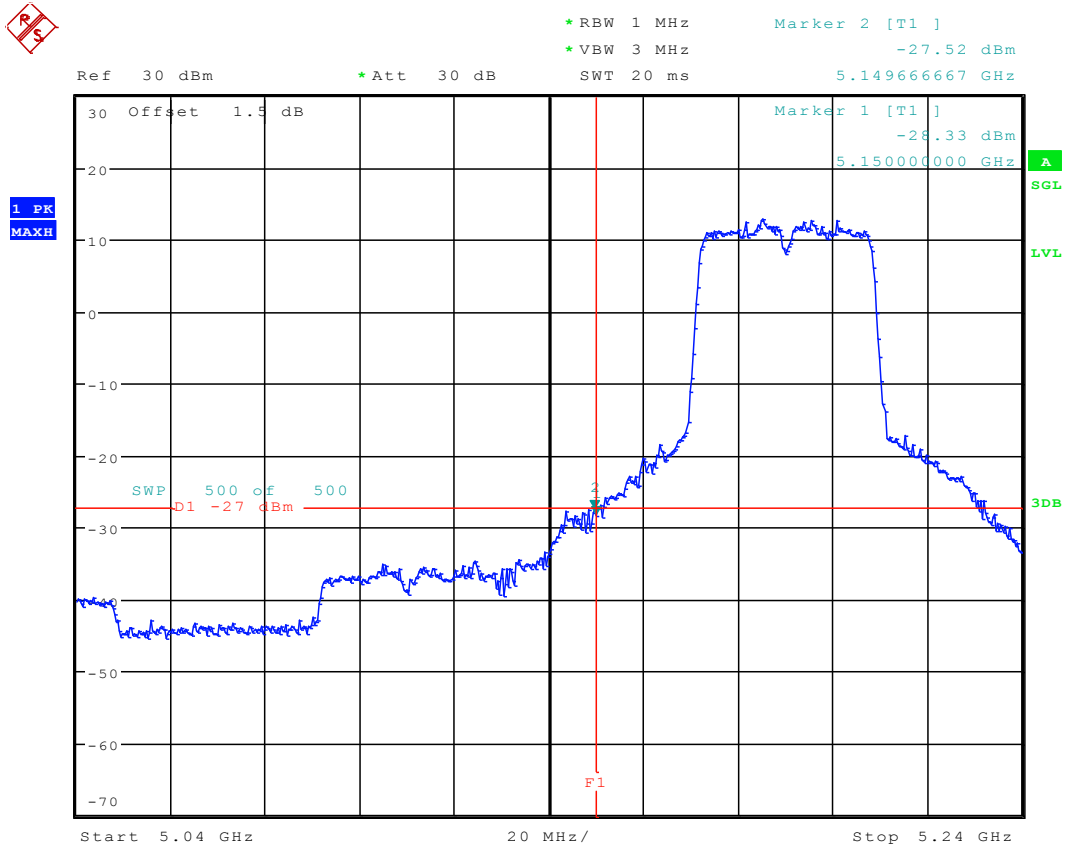
11.50 11AC40MIMO_38 ANT 2



Date: 11.FEB.2017 18:02:10



11.51 11AC40MIMO_38 ANT 3



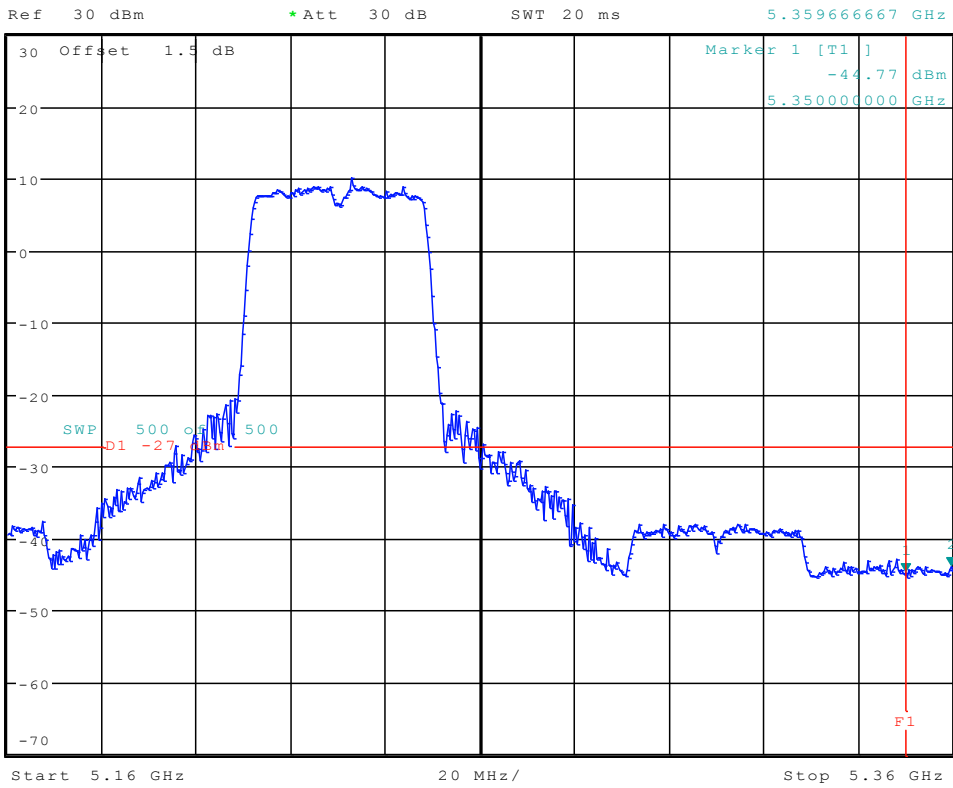
Date: 14.FEB.2017 15:46:56



11.52 11AC40MIMO_46 ANT 1

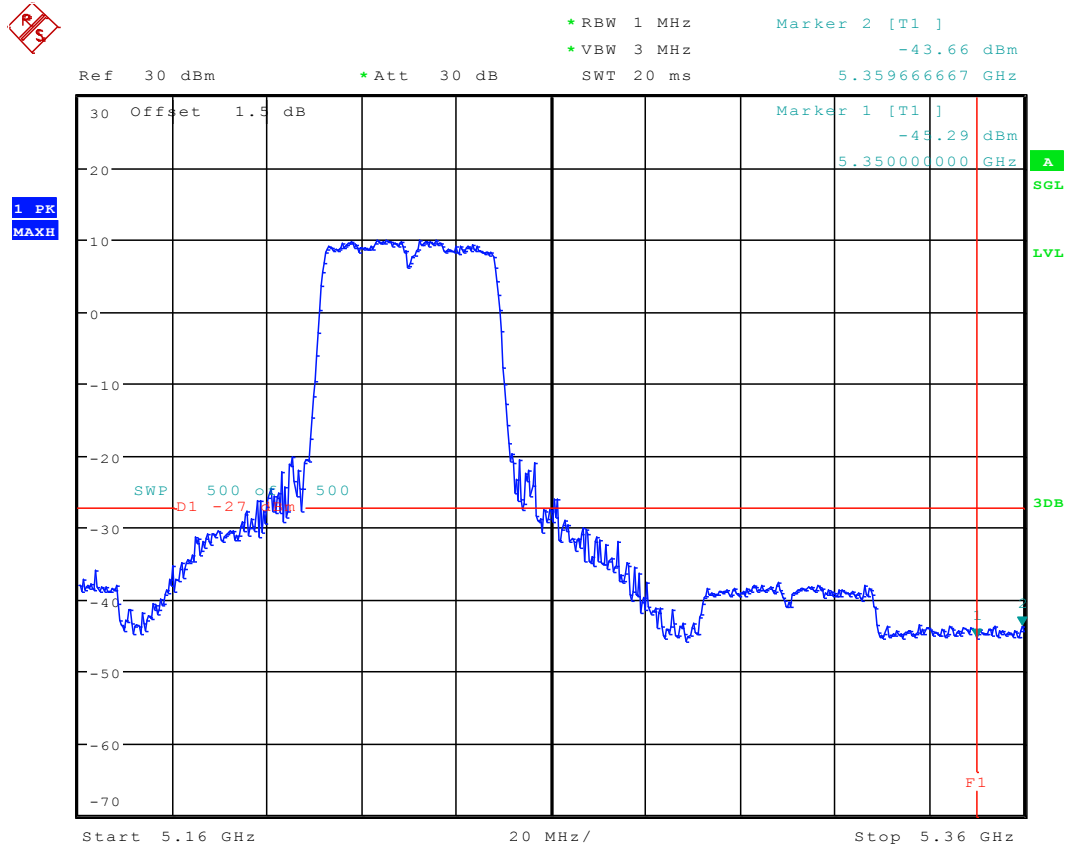


*RBW 1 MHz Marker 2 [T1]
 *VBW 3 MHz -43.74 dBm
 SWT 20 ms 5.359666667 GHz



Date: 13.FEB.2017 10:12:29

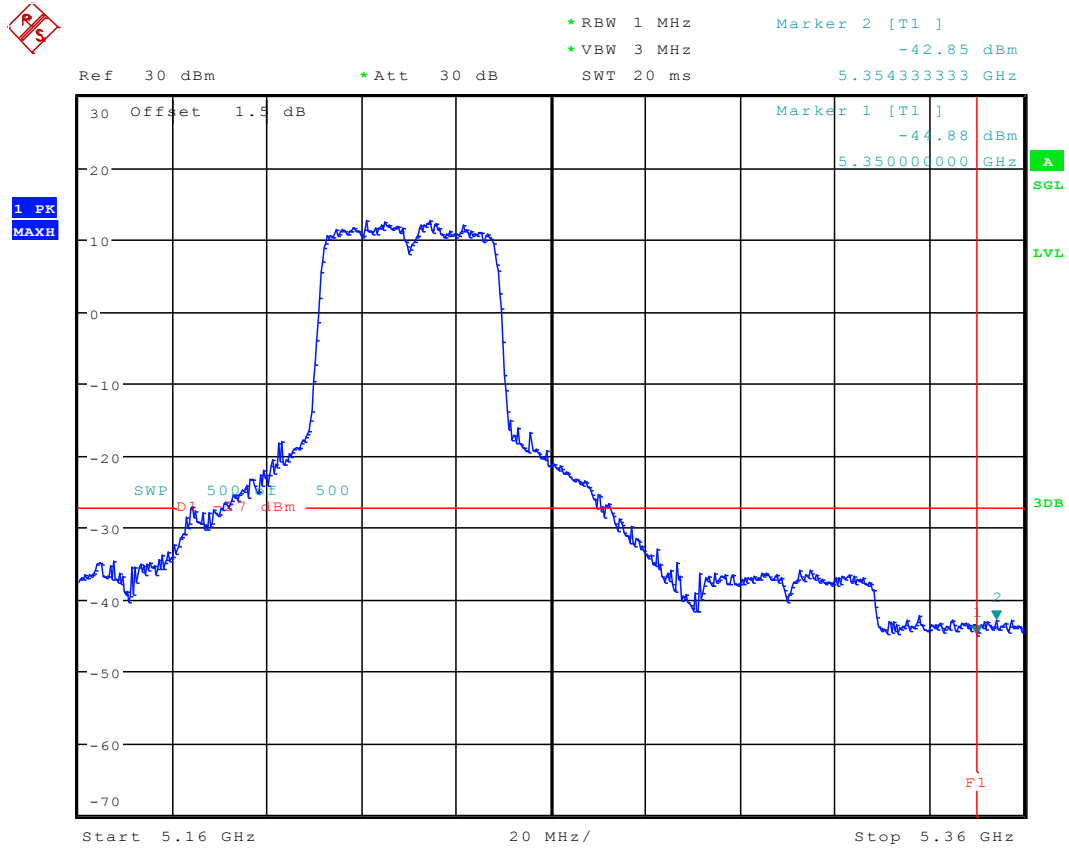
11.53 11AC40MIMO_46 ANT 2



Date: 11.FEB.2017 18:07:27

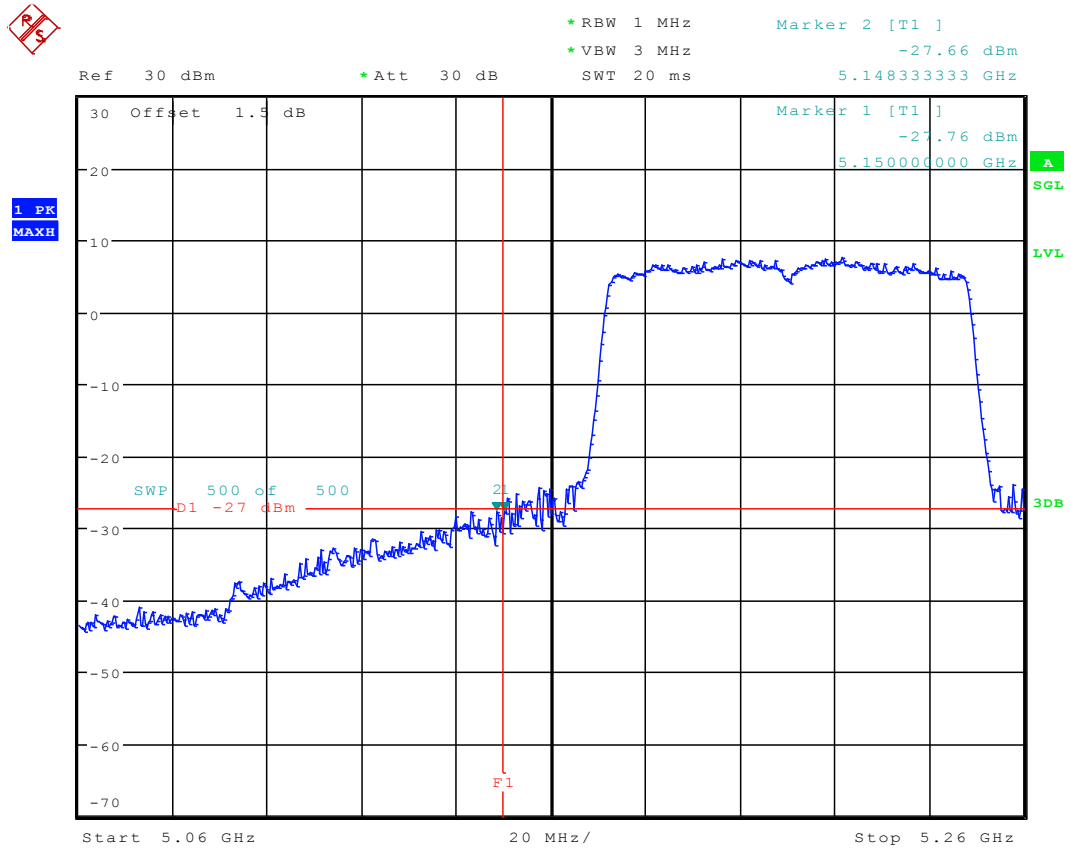


11.54 11AC40MIMO_46 ANT 3



Date: 14.FEB.2017 15:55:30

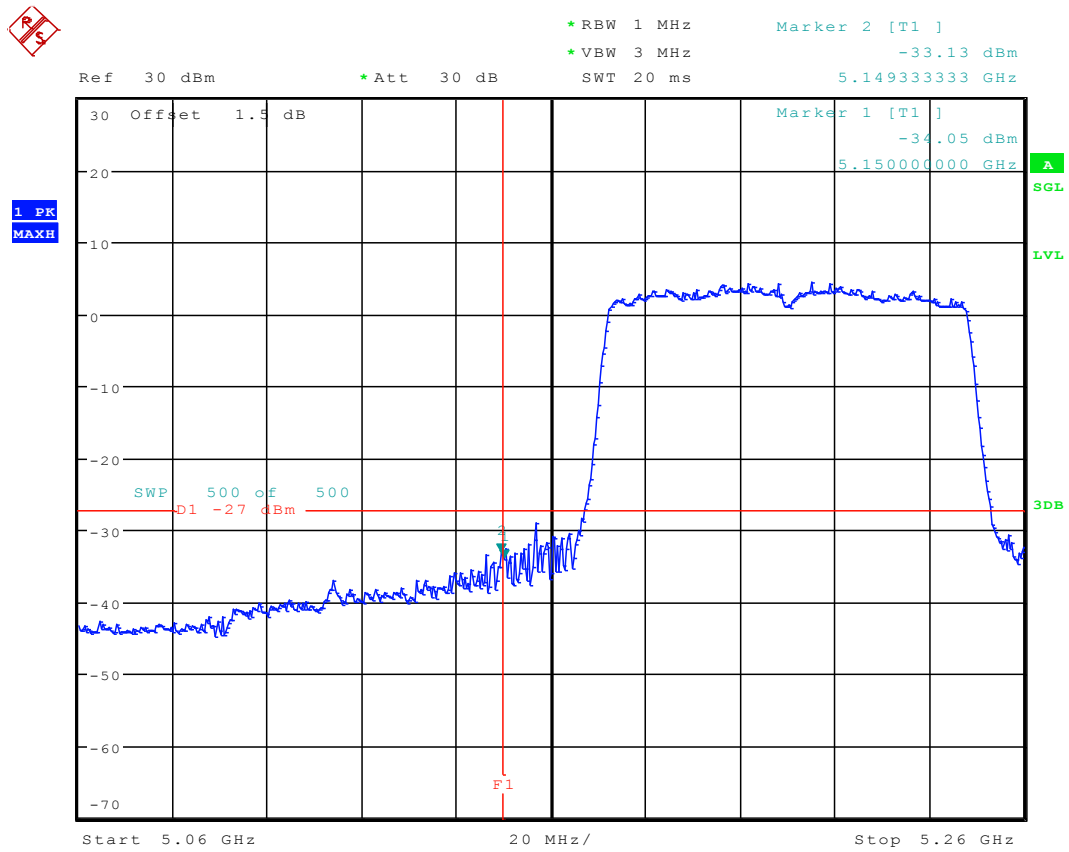
11.55 11AC80_42 ANT 1



Date: 9.FEB.2017 14:39:42



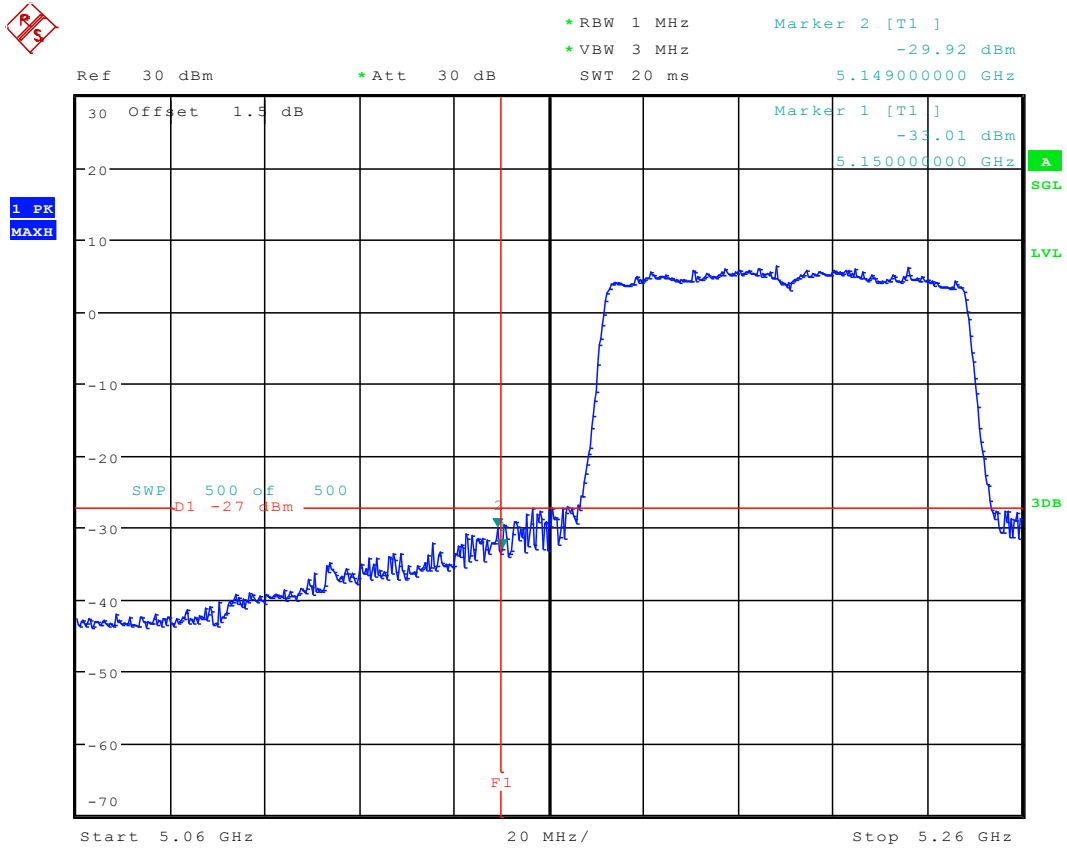
11.56 11AC80_42 ANT 2



Date: 15.FEB.2017 12:27:20

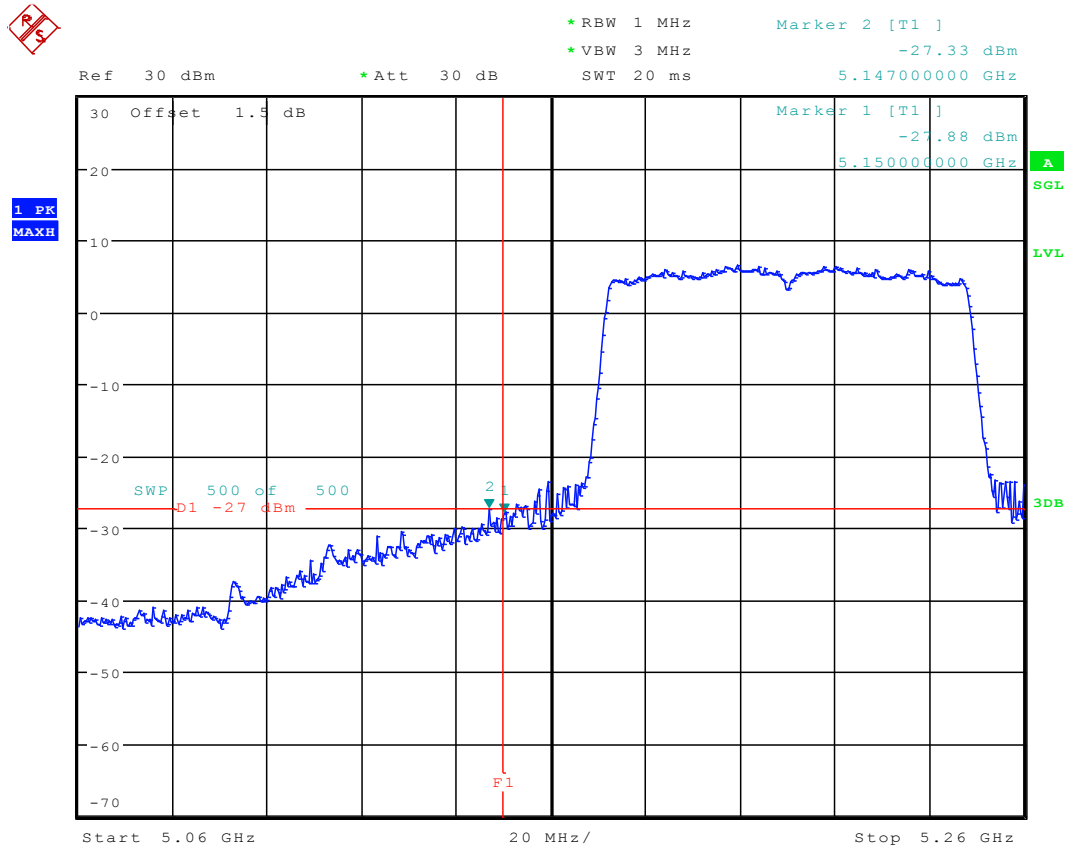


11.57 11AC80_42 ANT 3



Date: 15.FEB.2017 12:20:37

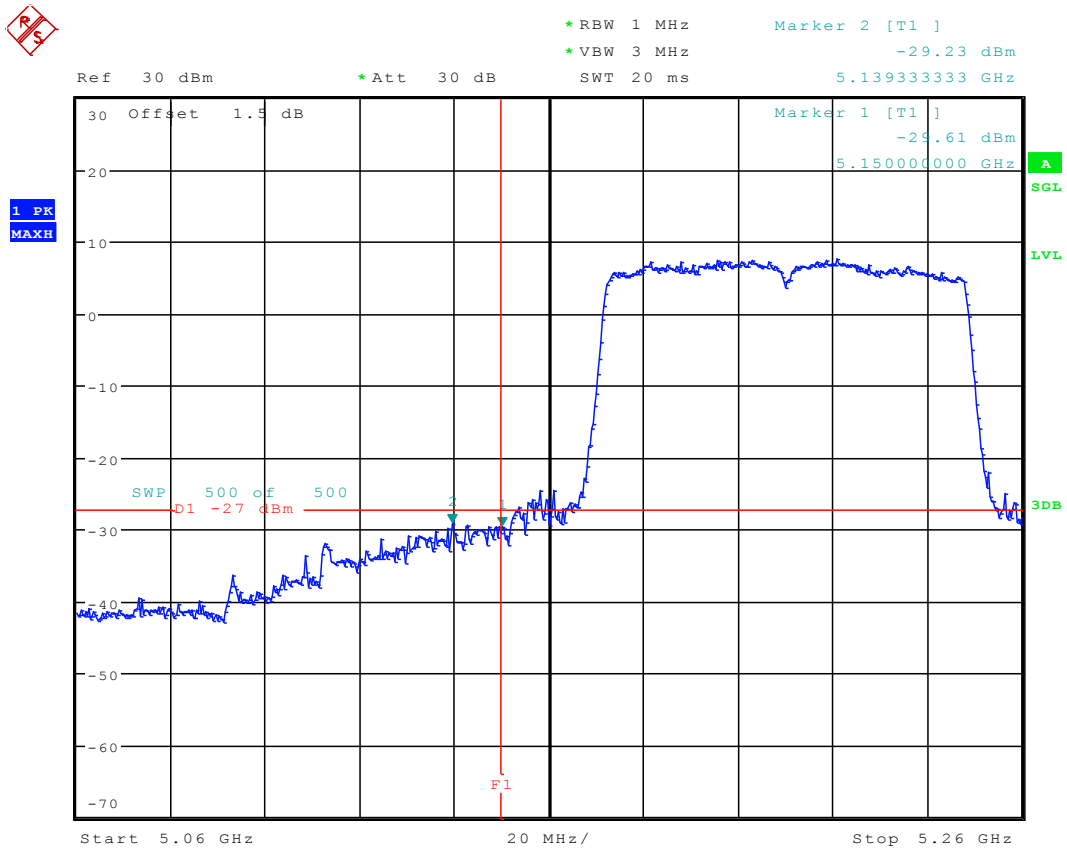
11.58 11AC80MIMO_42 ANT 1



Date: 13.FEB.2017 10:30:22



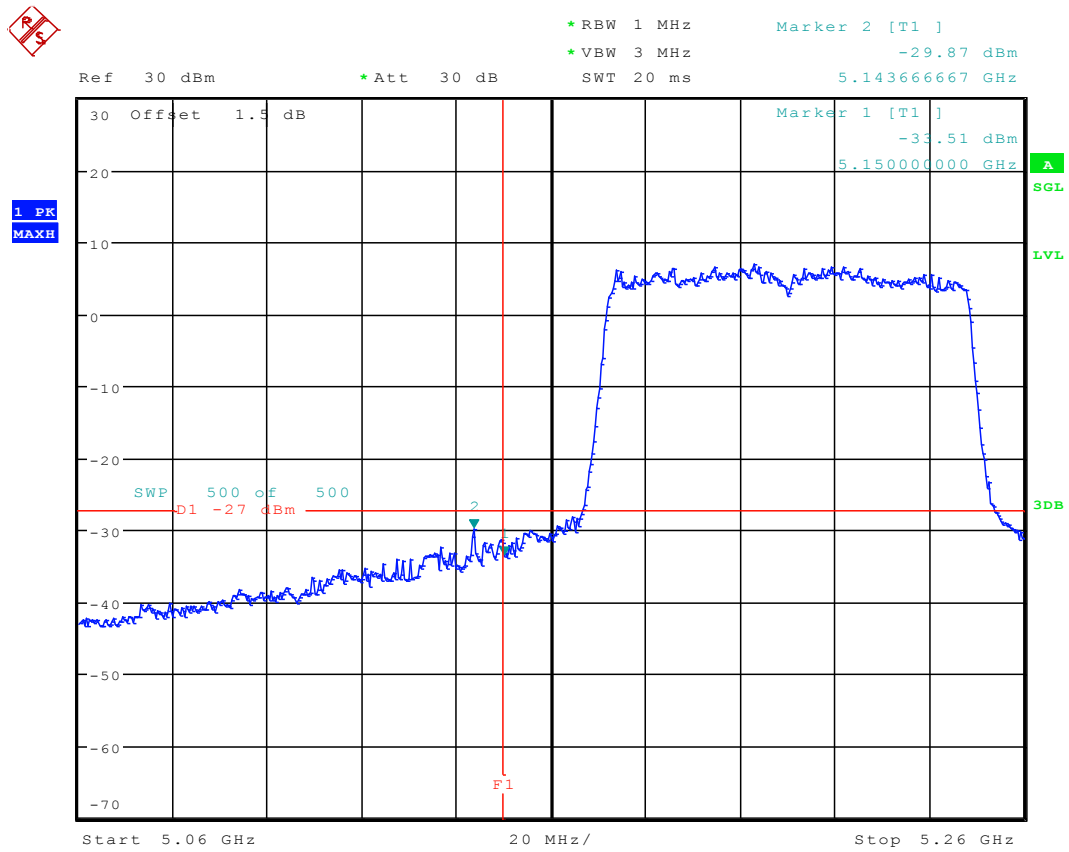
11.59 11AC80MIMO_42 ANT 2



Date: 11.FEB.2017 18:16:23



11.60 11AC80MIMO_42 ANT 3



Date: 15.FEB.2017 12:35:05



Appendix G: Frequencies Stability

Frequency Error vs. Voltage:

| Test Conditions | Measured Frequency (MHz) |
|----------------------------|----------------------------|
| | 5180 |
| V nom(V) | 5180.0087 |
| V max(V) | 5180.0058 |
| V min(V) | 5180.0095 |
| Max. Deviation Frequency | 0.0095 |
| Max. Frequency Error (ppm) | 1.83 |

Frequency Error vs. Temperature:

| Test Conditions (°C) | Measured Frequency (MHz) |
|----------------------------|----------------------------|
| | 5180 |
| -5 | 5180.0082 |
| 5 | 5180.0014 |
| 15 | 5180.0072 |
| 25 | 5180.0077 |
| 35 | 5180.0093 |
| 45 | 5180.0078 |
| 50 | 5180.0086 |
| Max. Deviation Frequency | 0.0093 |
| Max. Frequency Error (ppm) | 1.80 |

END