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	21.18	PASS
	36	5180	ANT 2	21.6	PASS
	48	5240	ANT 1	28.8	PASS
	48	5240	ANT 2	29.52	PASS
11N20	36	5180	ANT 1	21.82	PASS
	36	5180	ANT 2	21.64	PASS
	48	5240	ANT 1	28.92	PASS
	48	5240	ANT 2	29	PASS
11N20MIMO	36	5180	ANT 1	21.62	PASS
	36	5180	ANT 2	21.8	PASS
	48	5240	ANT 1	35.96	PASS
	48	5240	ANT 2	35.36	PASS
11N40	38	5190	ANT 1	43.94	PASS
	38	5190	ANT 2	43.9	PASS
	46	5230	ANT 1	61.96	PASS
	46	5230	ANT 2	74.68	PASS
11N40MIMO	38	5190	ANT 1	43.8	PASS
	38	5190	ANT 2	43.88	PASS
	46	5230	ANT 1	75.6	PASS
	46	5230	ANT 2	78	PASS
11AC20	36	5180	ANT 1	21.96	PASS
	36	5180	ANT 2	21.9	PASS
	48	5240	ANT 1	34.44	PASS
	48	5240	ANT 2	28.12	PASS
11AC20MIMO	36	5180	ANT 1	21.76	PASS
	36	5180	ANT 2	21.52	PASS
	48	5240	ANT 1	36.8	PASS
	48	5240	ANT 2	31.48	PASS
11AC40	38	5190	ANT 1	43.46	PASS
	38	5190	ANT 2	43.52	PASS
	46	5230	ANT 1	54.28	PASS
	46	5230	ANT 2	54.64	PASS
11AC40MIMO	38	5190	ANT 1	43.42	PASS
	38	5190	ANT 2	42.26	PASS
	46	5230	ANT 1	72.04	PASS

	46	5230	ANT 2	65.52	PASS
11AC80	42	5210	ANT 1	82.35	PASS
	42	5210	ANT 2	82.45	PASS
11AC80MIMO	42	5210	ANT 1	83.15	PASS
	42	5210	ANT 2	81.97	PASS

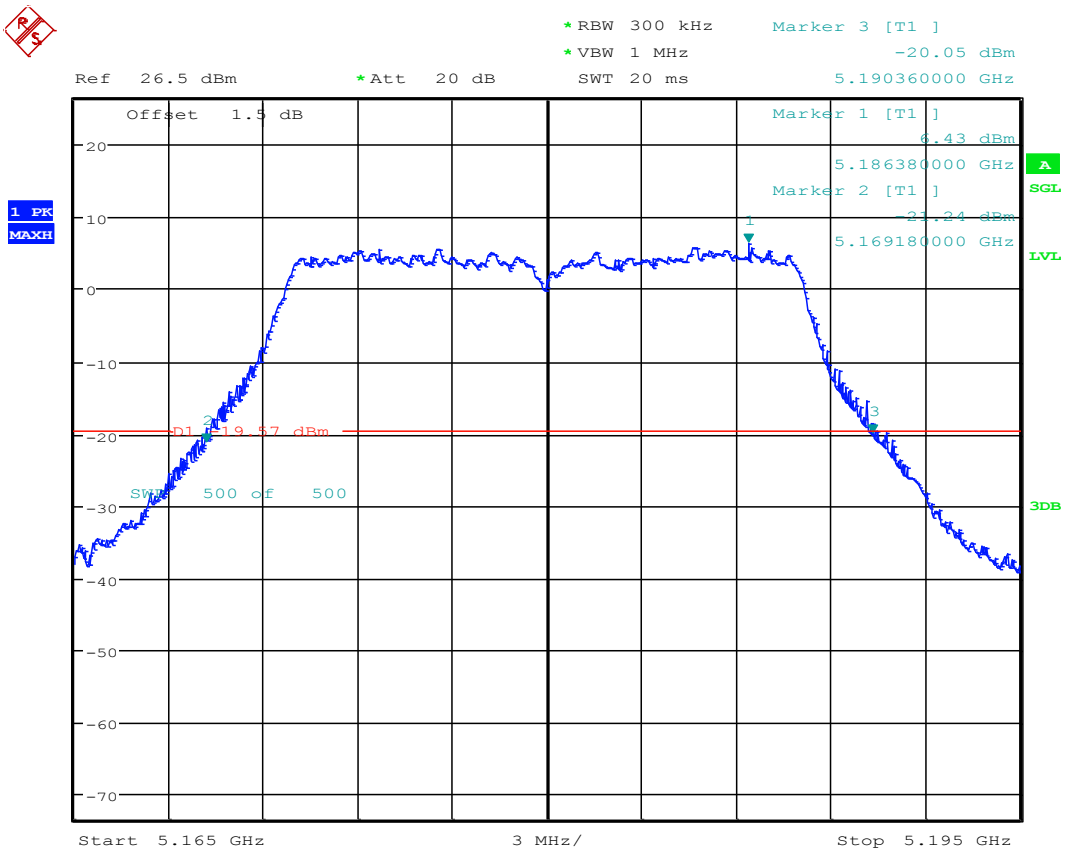
2 Result Table for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	16.1	PASS
	149	5745	ANT 2	16.34	PASS
	165	5825	ANT 1	16.1	PASS
	165	5825	ANT 2	16.36	PASS
11N20	149	5745	ANT 1	17.34	PASS
	149	5745	ANT 2	17.34	PASS
	165	5825	ANT 1	17.34	PASS
	165	5825	ANT 2	17.36	PASS
11N20MIMO	149	5745	ANT 1	17.34	PASS
	149	5745	ANT 2	17.08	PASS
	165	5825	ANT 1	17.34	PASS
	165	5825	ANT 2	17.1	PASS
11N40	151	5755	ANT 1	35.98	PASS
	151	5755	ANT 2	35.96	PASS
	159	5795	ANT 1	35.96	PASS
	159	5795	ANT 2	35.96	PASS
11N40MIMO	151	5755	ANT 1	35.72	PASS
	151	5755	ANT 2	35.72	PASS
	159	5795	ANT 1	35.96	PASS
	159	5795	ANT 2	35.68	PASS
11AC20	149	5745	ANT 1	17.32	PASS
	149	5745	ANT 2	17.34	PASS
	165	5825	ANT 1	17.34	PASS
	165	5825	ANT 2	17.32	PASS
11AC20MIMO	149	5745	ANT 1	17.08	PASS
	149	5745	ANT 2	17.58	PASS
	165	5825	ANT 1	16.96	PASS
	165	5825	ANT 2	16.96	PASS
11AC40	151	5755	ANT 1	35.96	PASS
	151	5755	ANT 2	36.32	PASS
	159	5795	ANT 1	35.96	PASS
	159	5795	ANT 2	35.96	PASS
11AC40MIMO	151	5755	ANT 1	35.4	PASS

	151	5755	ANT 2	35.96	PASS
	159	5795	ANT 1	35.74	PASS
	159	5795	ANT 2	35.76	PASS
11AC80	155	5775	ANT 1	75.25	PASS
	155	5775	ANT 2	75.47	PASS
11AC80MIMO	155	5775	ANT 1	75.25	PASS
	155	5775	ANT 2	75.25	PASS

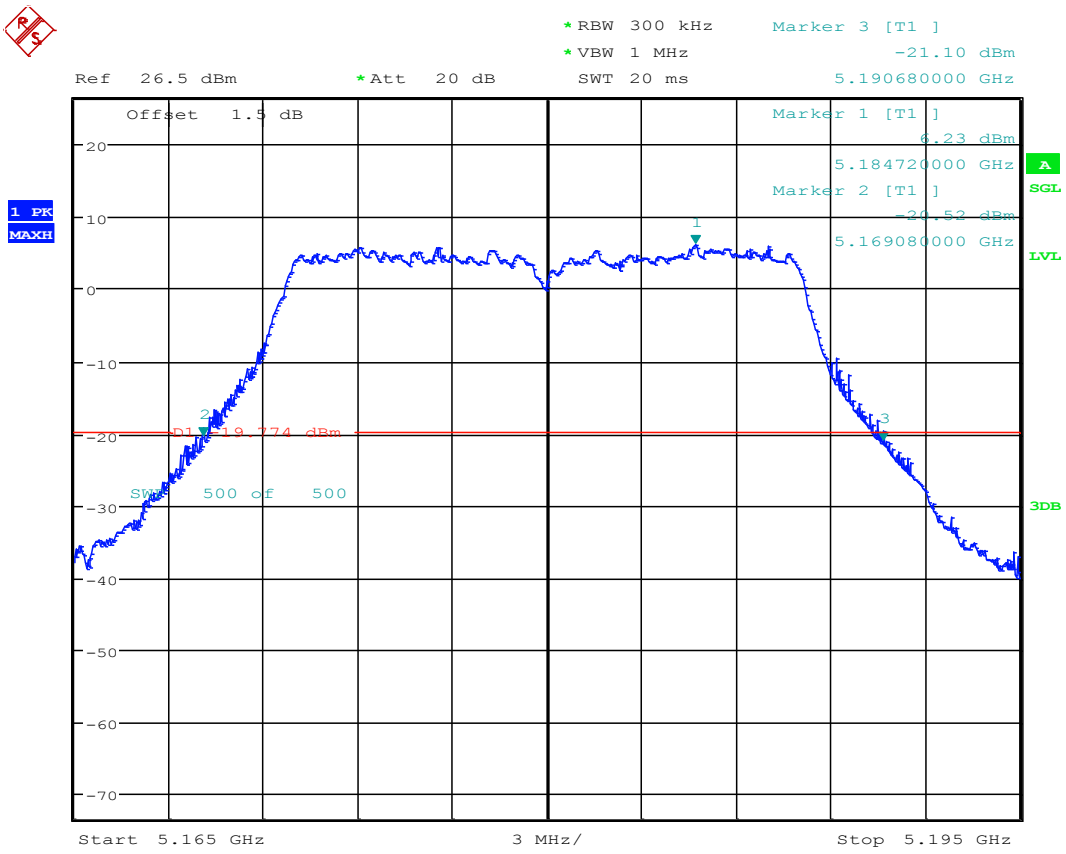
3 Test Plot for 26dB Emission Bandwidth

3.1 11A20_36 ANT 1



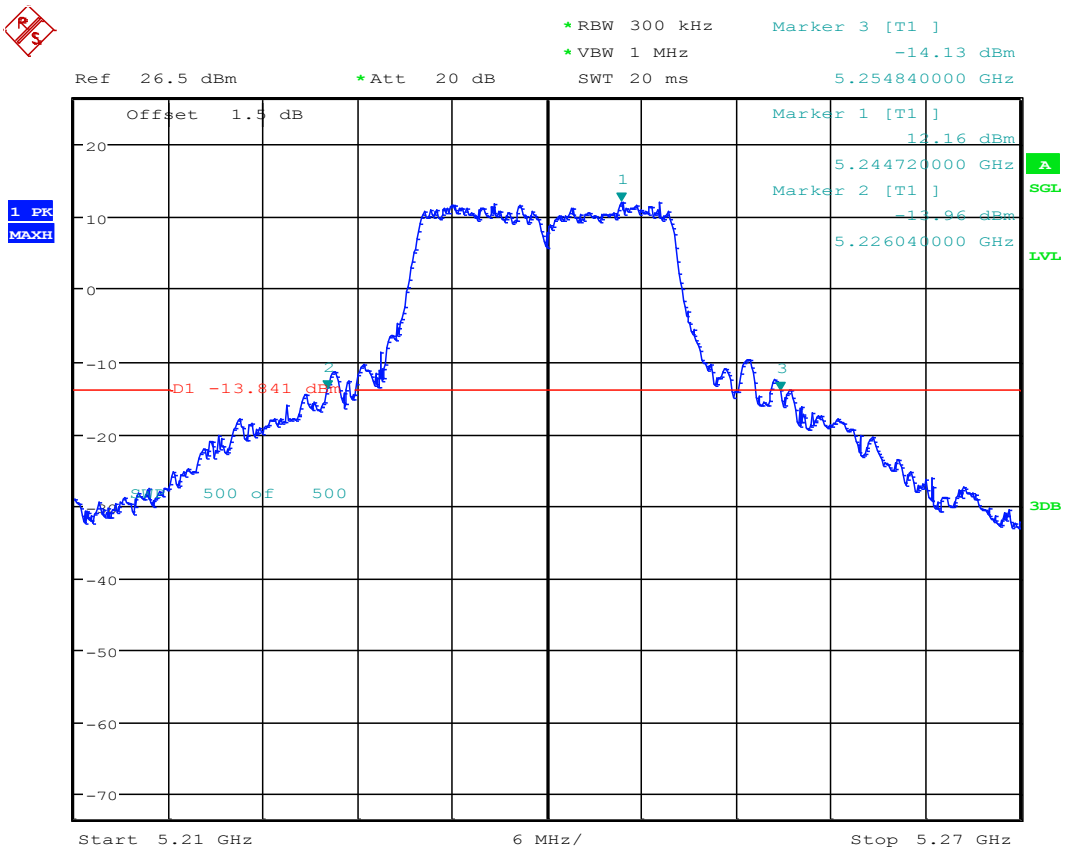
Date: 8.MAR.2018 11:07:44

3.2 11A20_36 ANT 2



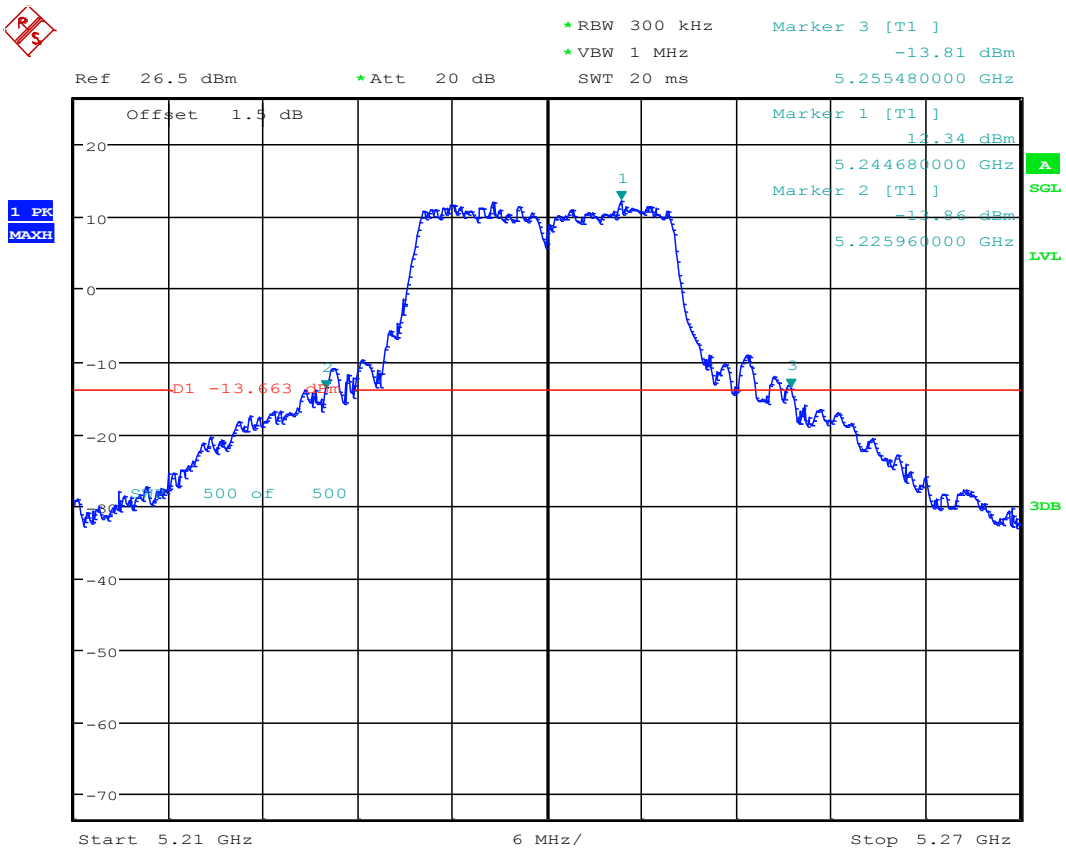
Date: 6.MAR.2018 11:08:36

3.3 11A20_48 ANT 1



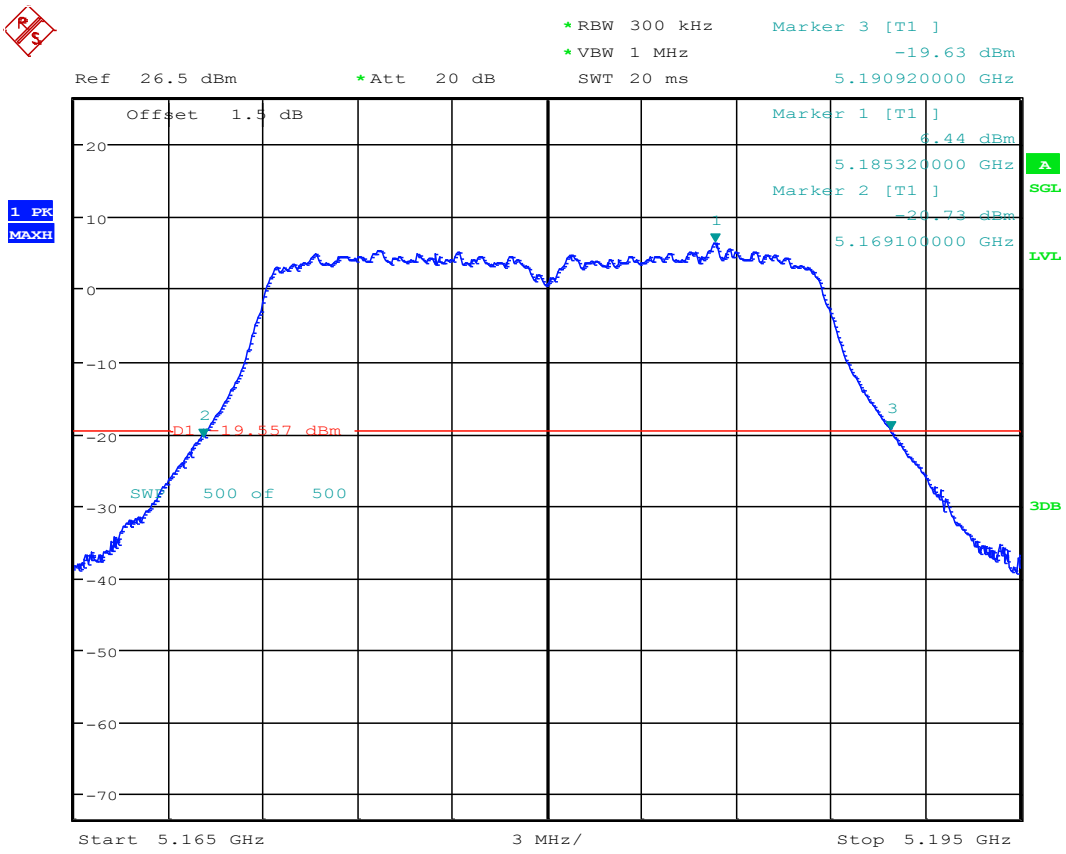
Date: 28.MAR.2018 10:34:36

3.4 11A20_48 ANT 2

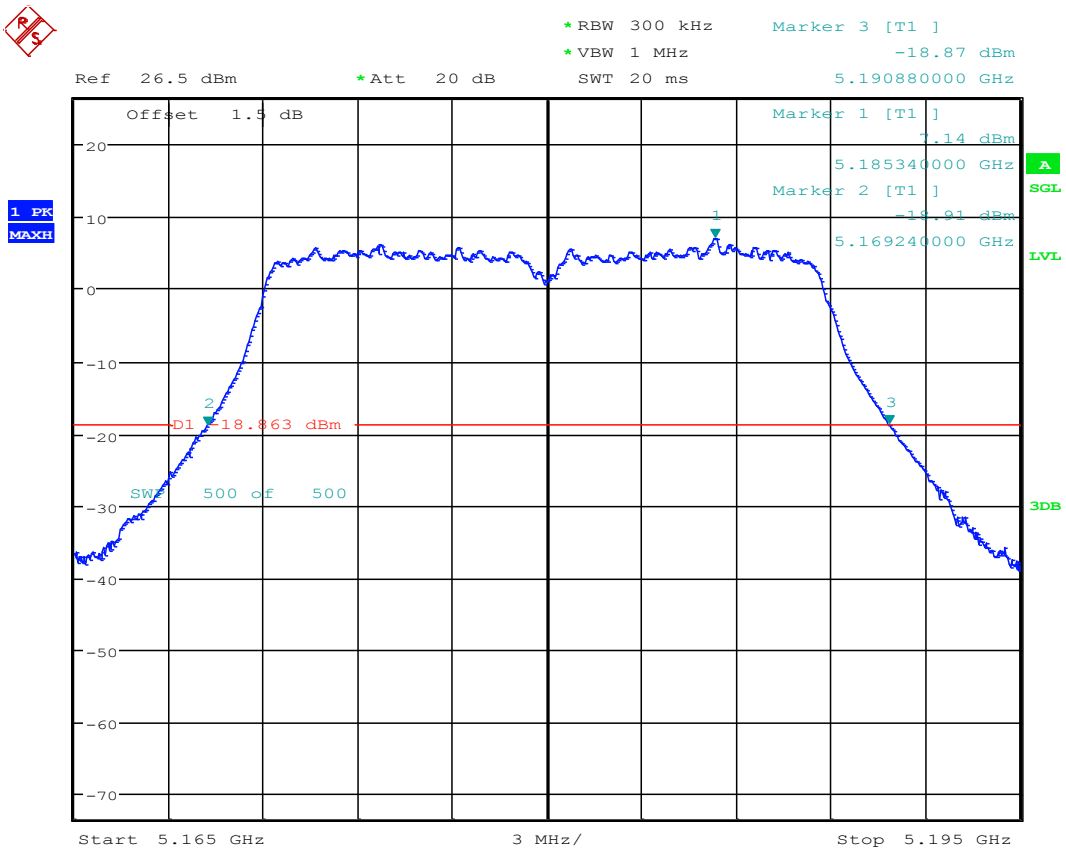


Date: 28.MAR.2018 11:32:29

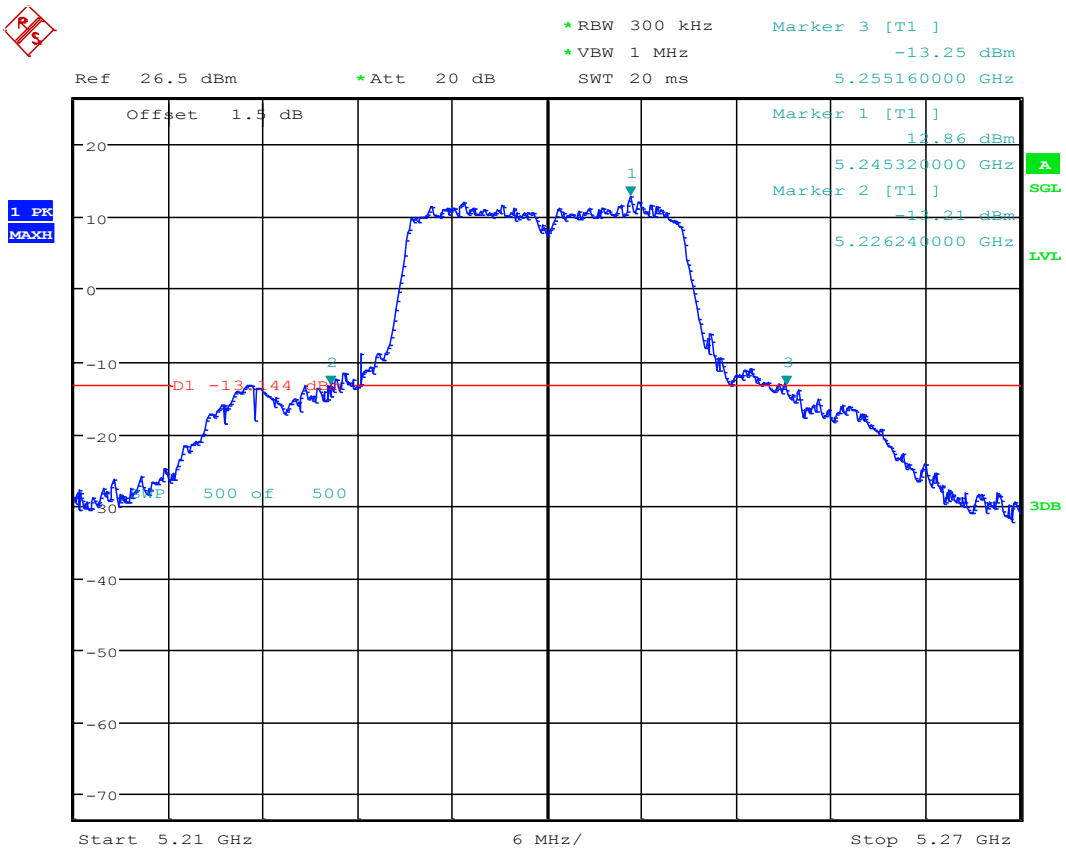
3.5 11N20_36 ANT 1



3.6 11N20_36 ANT 2

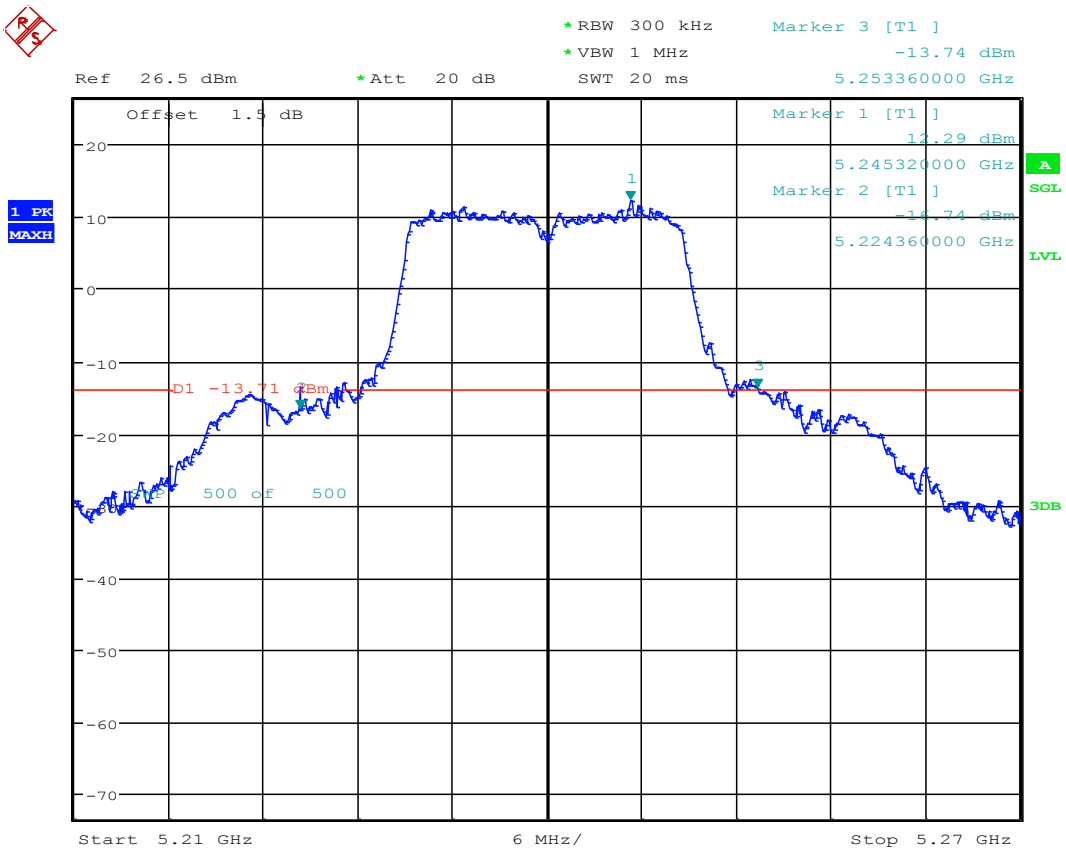


3.7 11N20_48 ANT 1



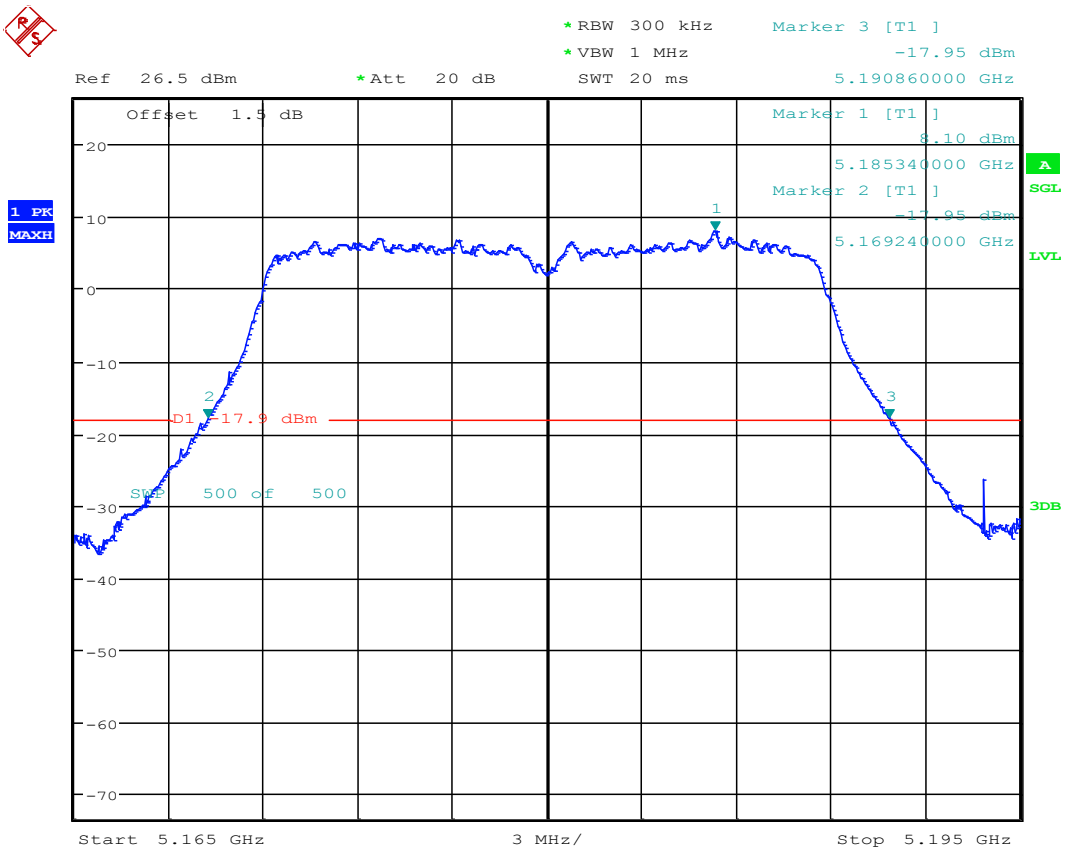
Date: 28.MAR.2018 10:39:05

3.8 11N20_48 ANT 2

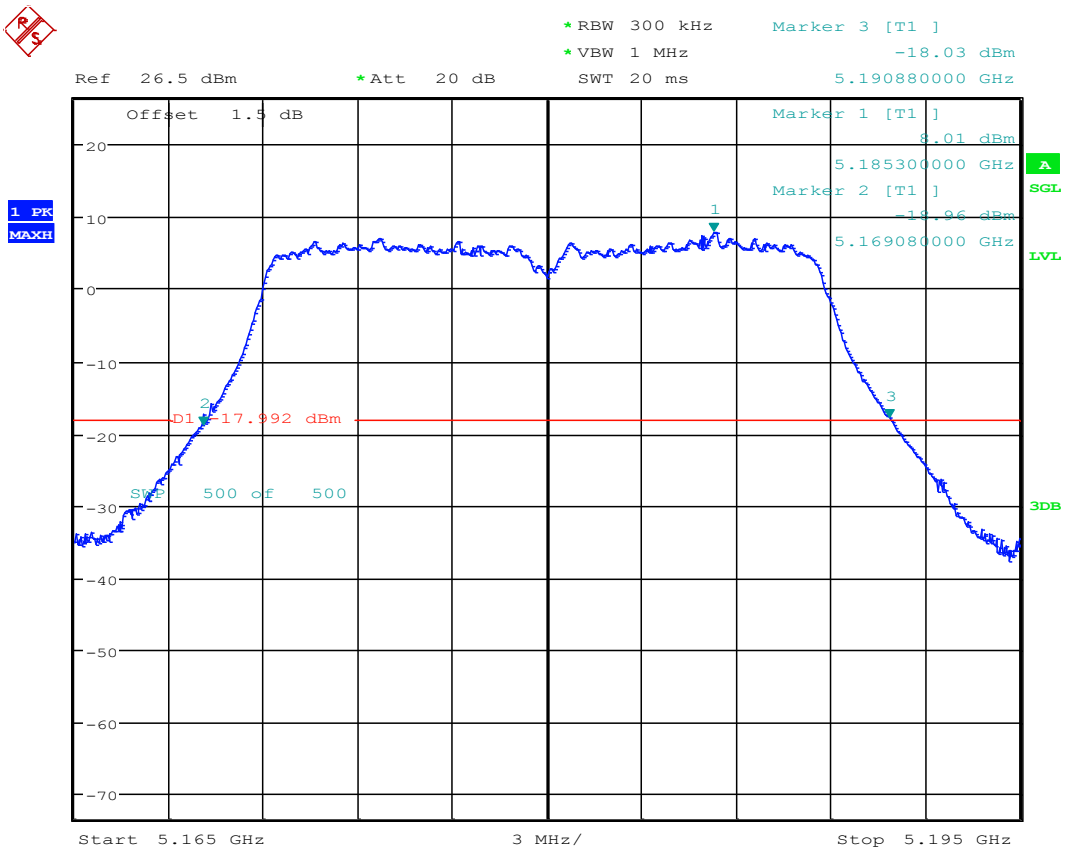


Date: 28.MAR.2018 11:43:41

3.9 11N20MIMO_36 ANT 1

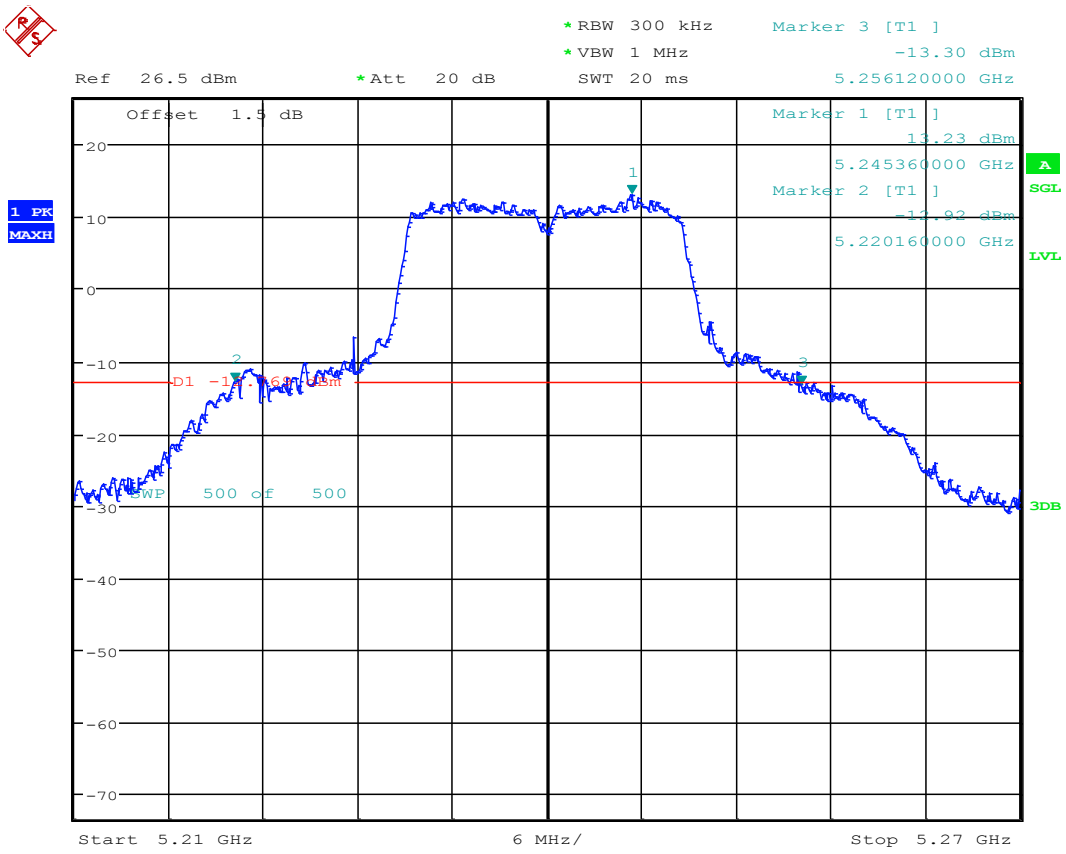


3.10 11N20MIMO_36 ANT 2



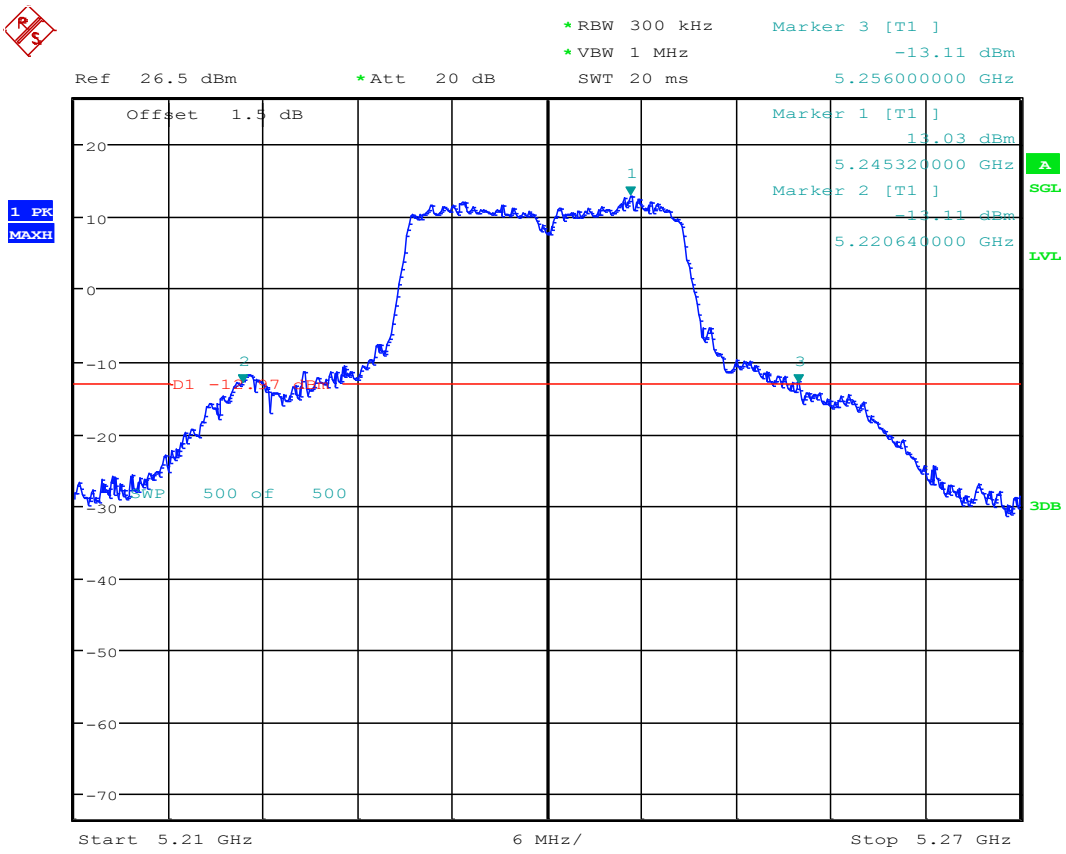
Date: 6.MAR.2018 17:50:16

3.11 11N20MIMO_48 ANT 1

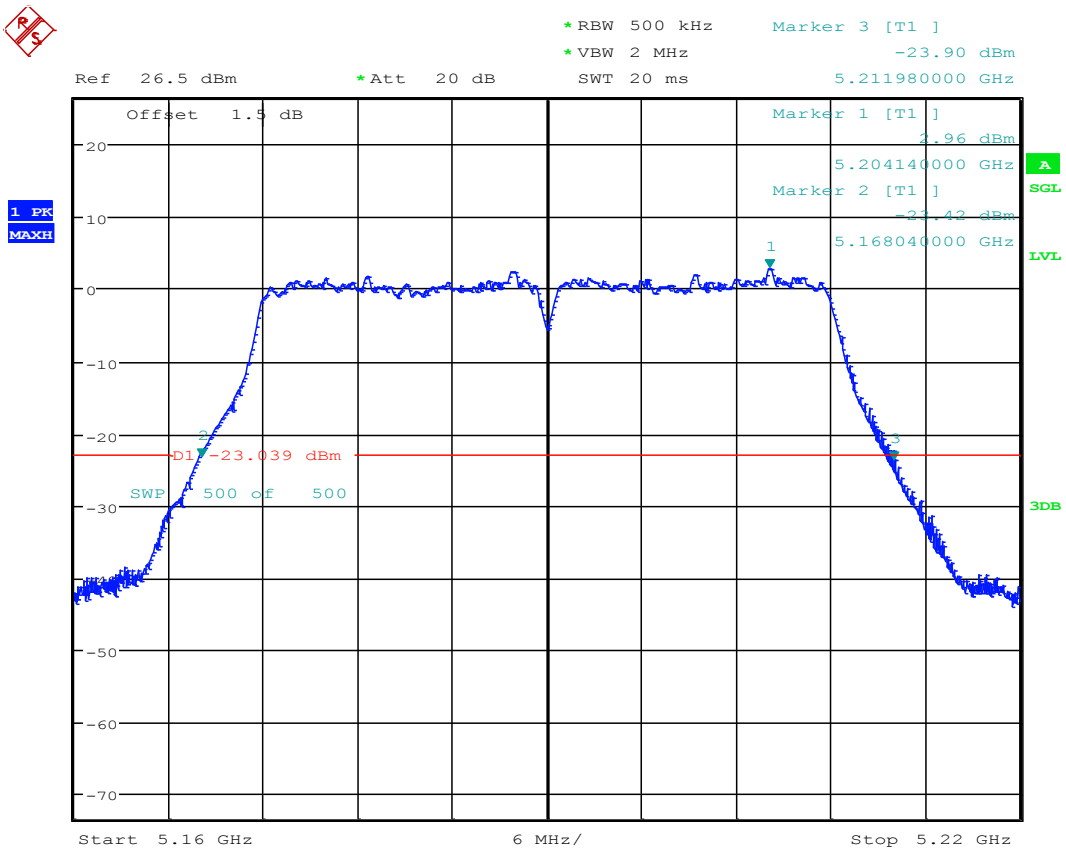


Date: 28.MAR.2018 11:23:47

3.12 11N20MIMO_48 ANT 2

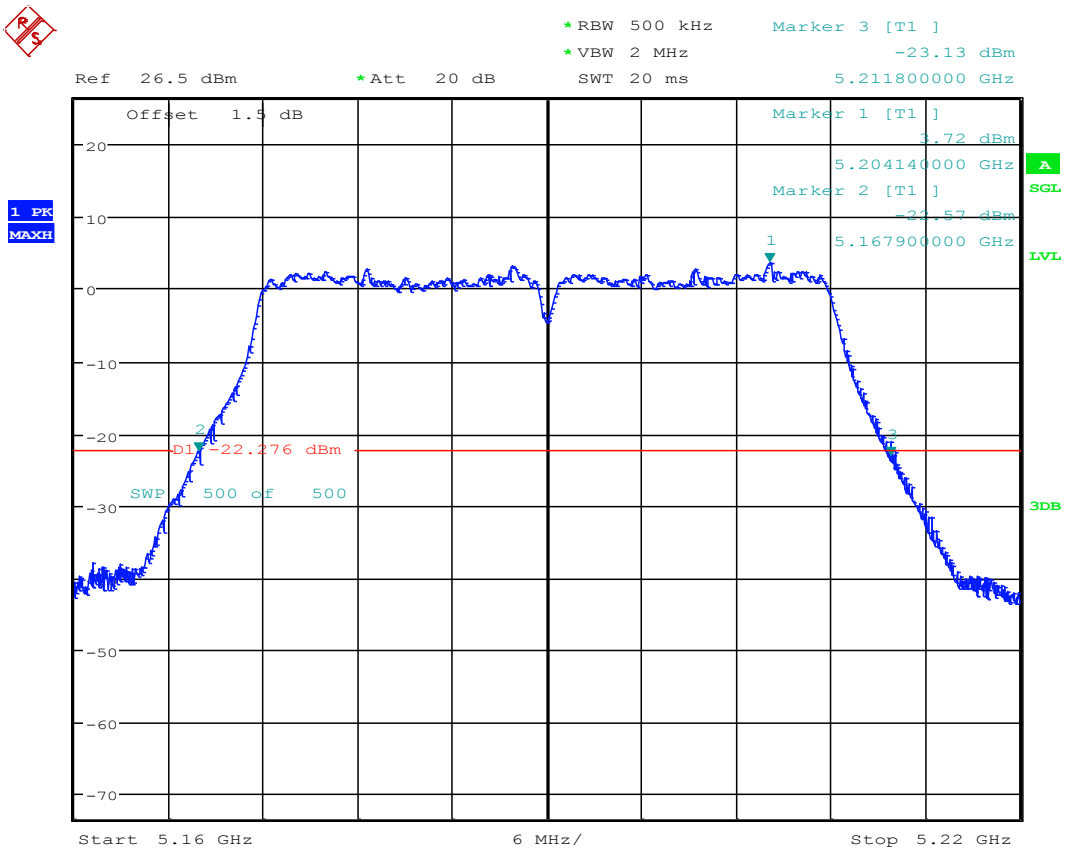


3.13 11N40_38 ANT 1



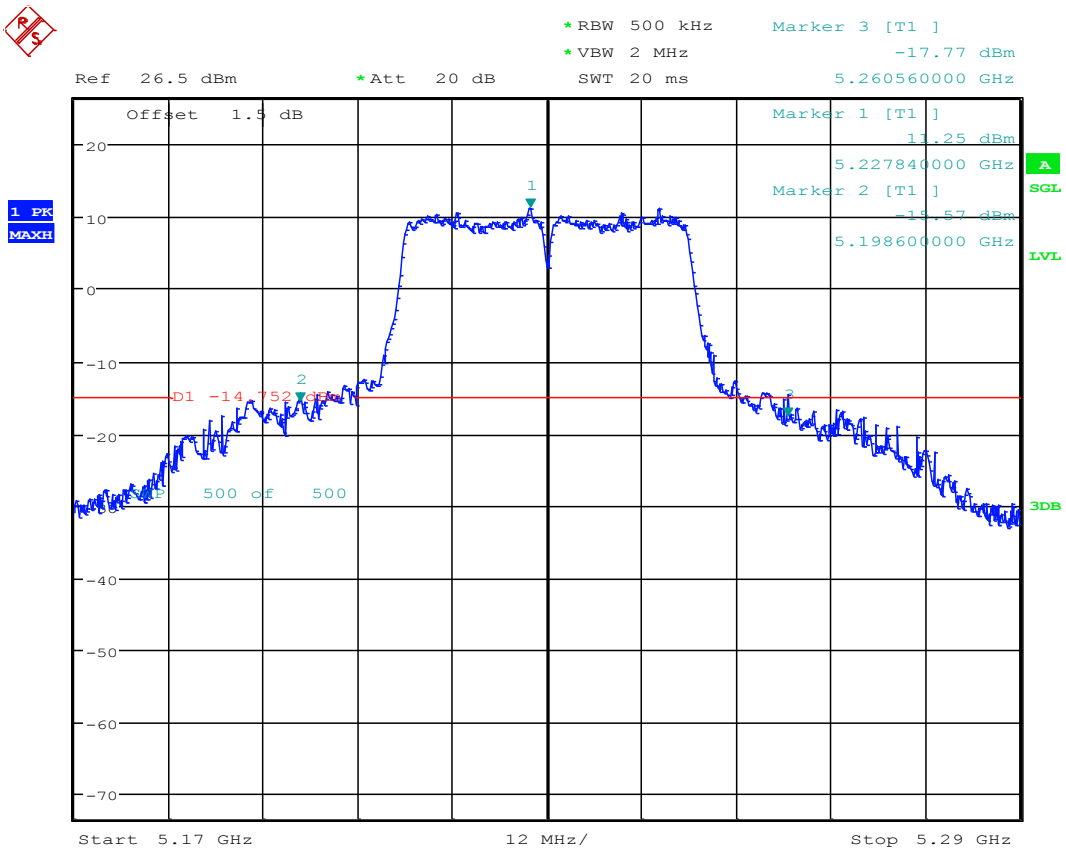
Date: 8.MAR.2018 13:54:26

3.14 11N40_38 ANT 2

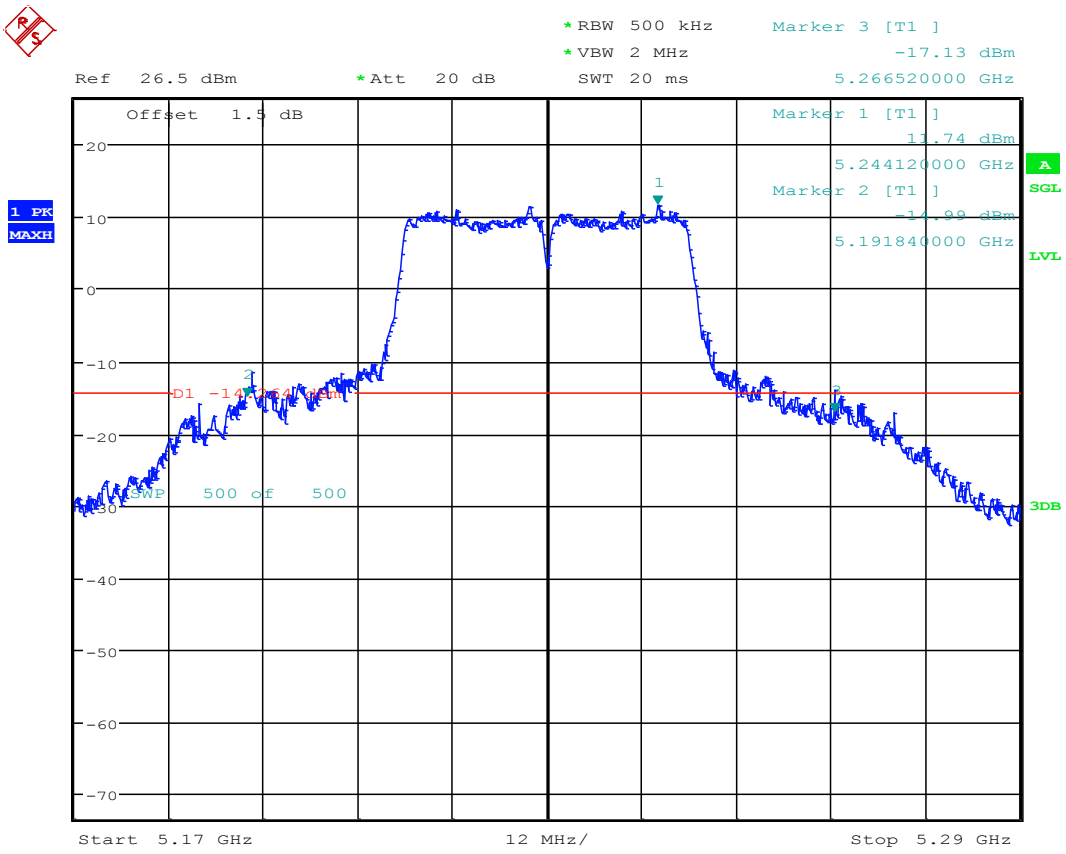


Date: 6.MAR.2018 11:53:23

3.15 11N40_46 ANT 1

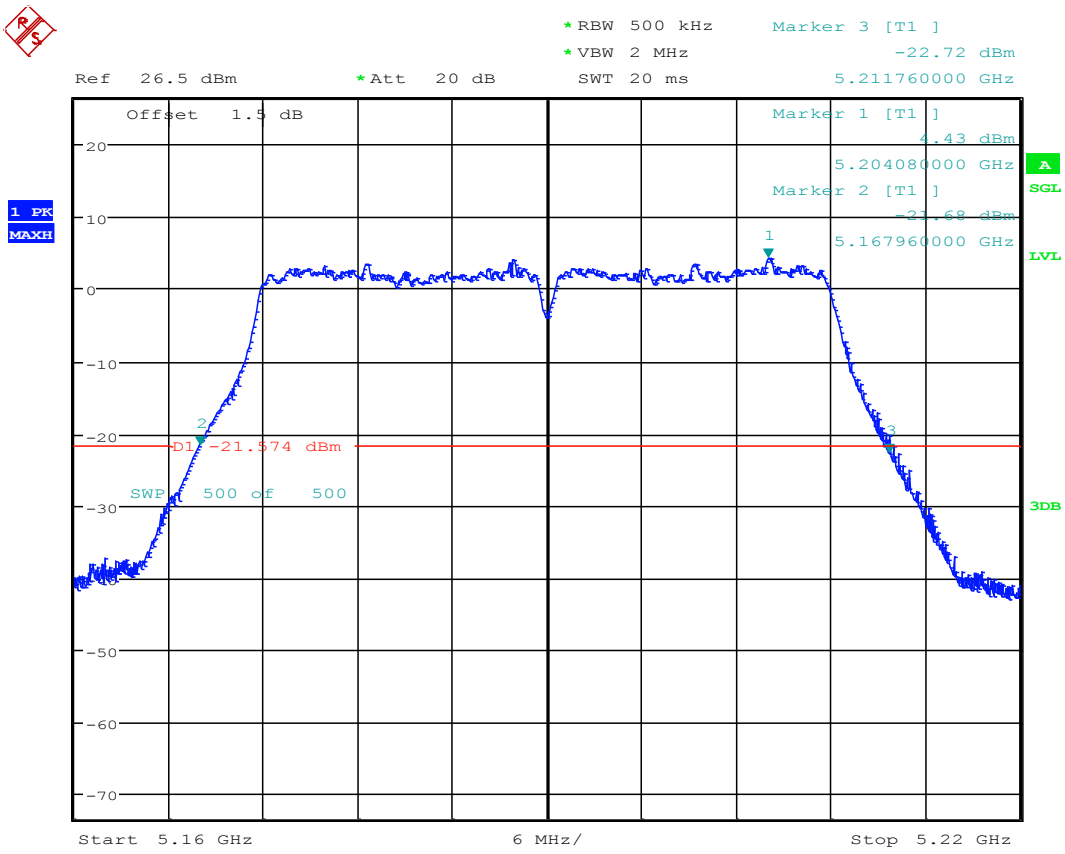


3.16 11N40_46 ANT 2

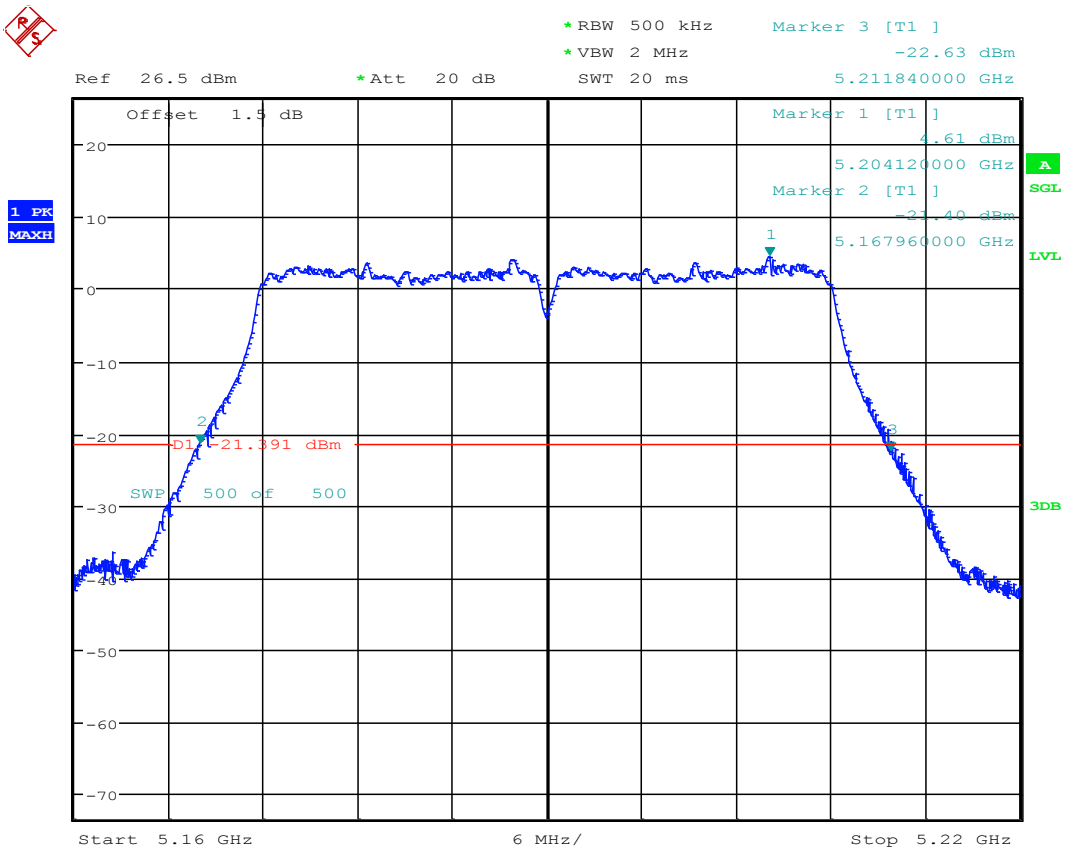


Date: 28.MAR.2018 12:19:23

3.17 11N40MIMO_38 ANT 1

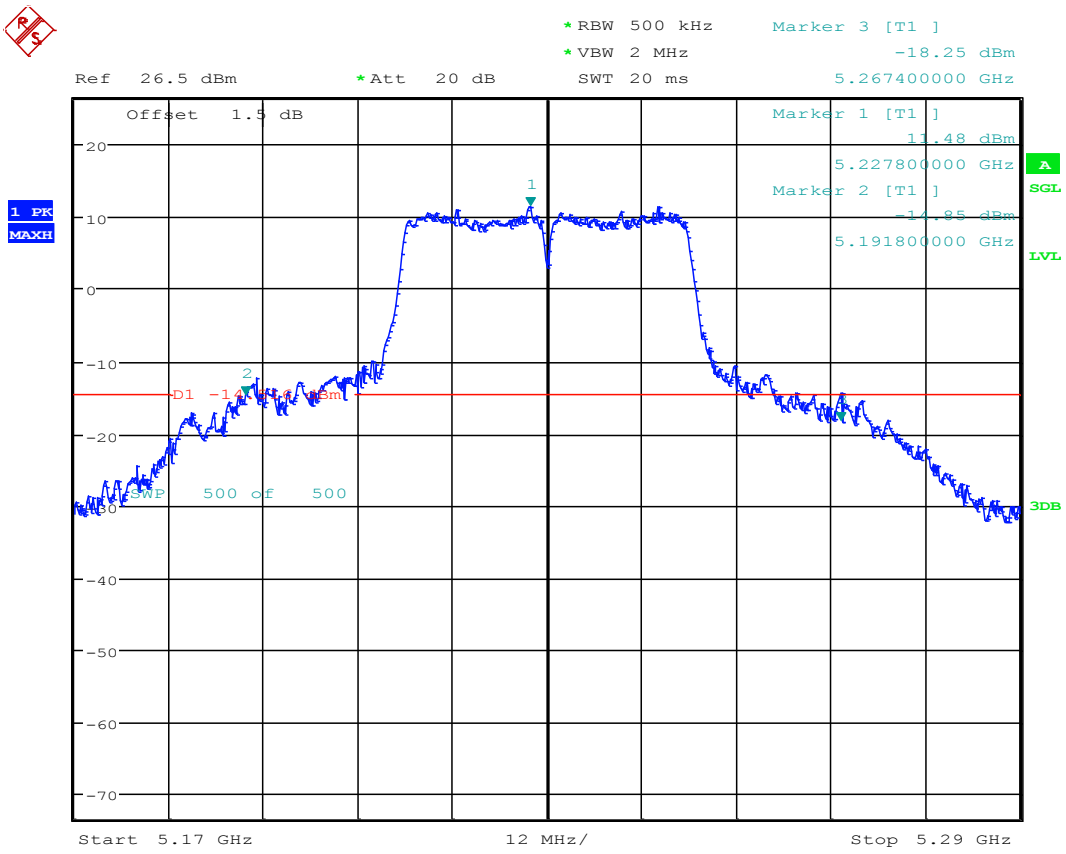


3.18 11N40MIMO_38 ANT 2



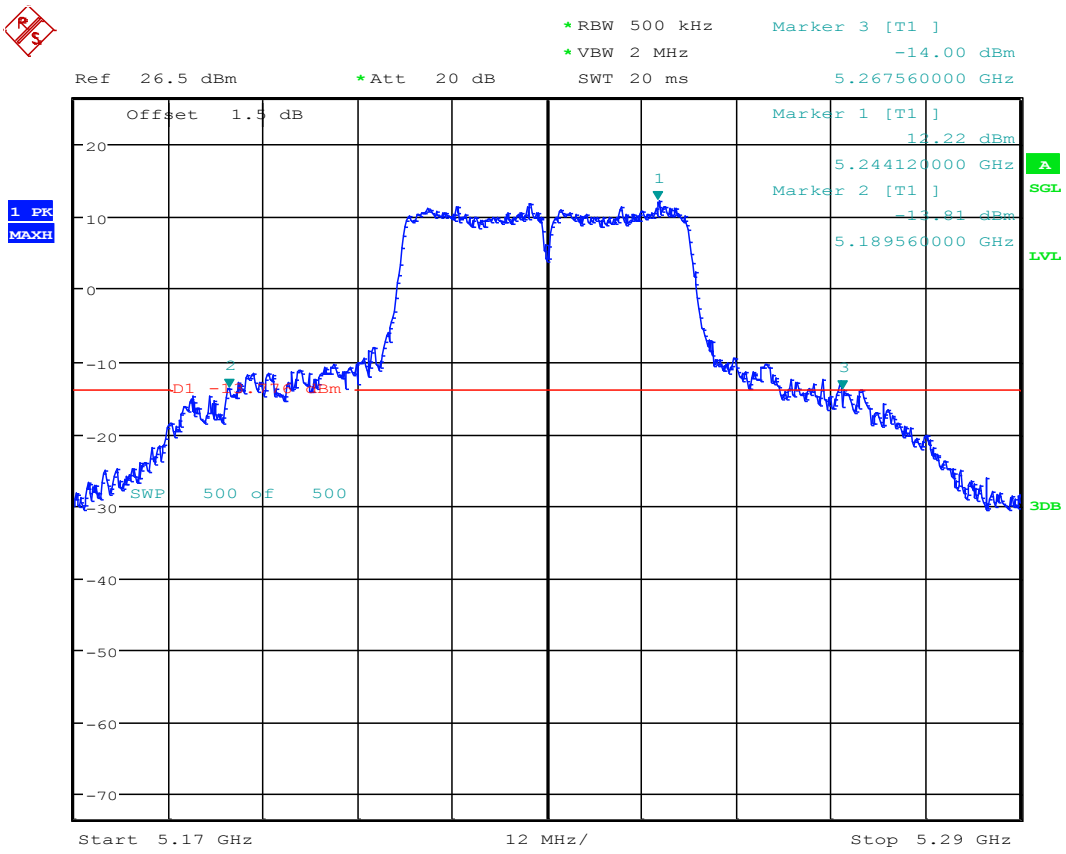
Date: 6.MAR.2018 18:31:12

3.19 11N40MIMO_46 ANT 1



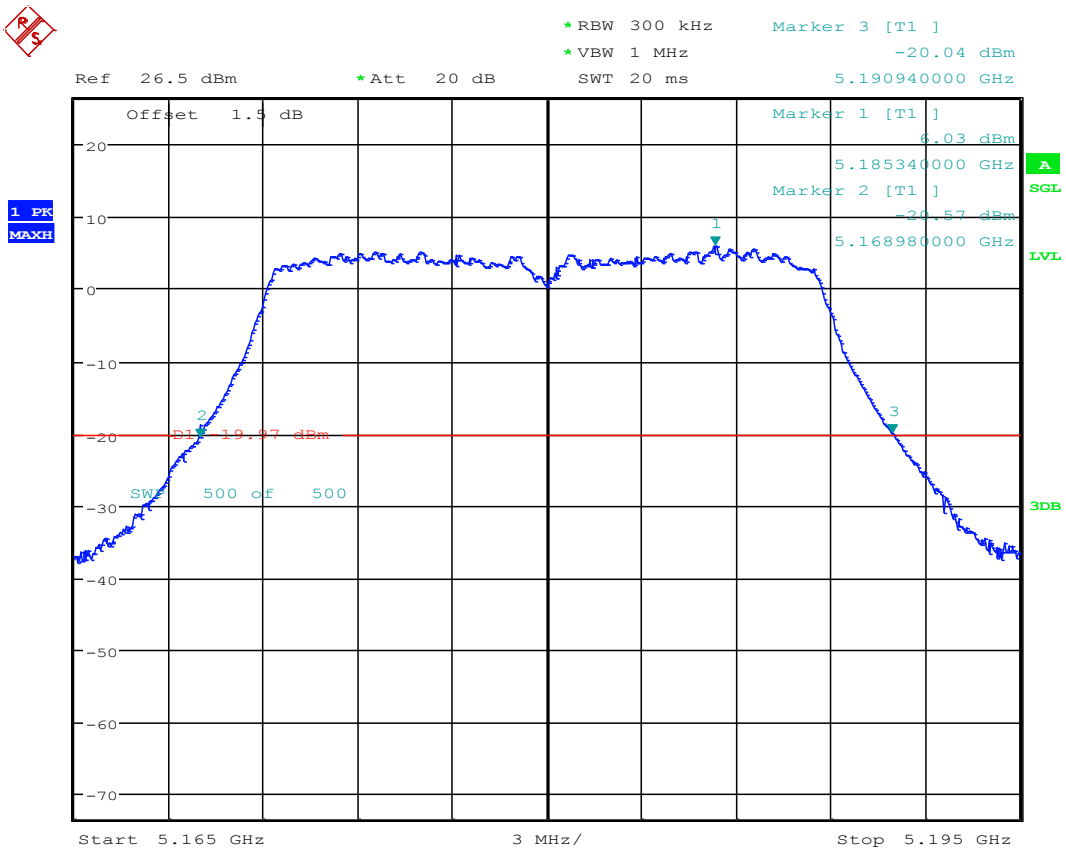
Date: 28.MAR.2018 11:27:45

3.20 11N40MIMO_46 ANT 2



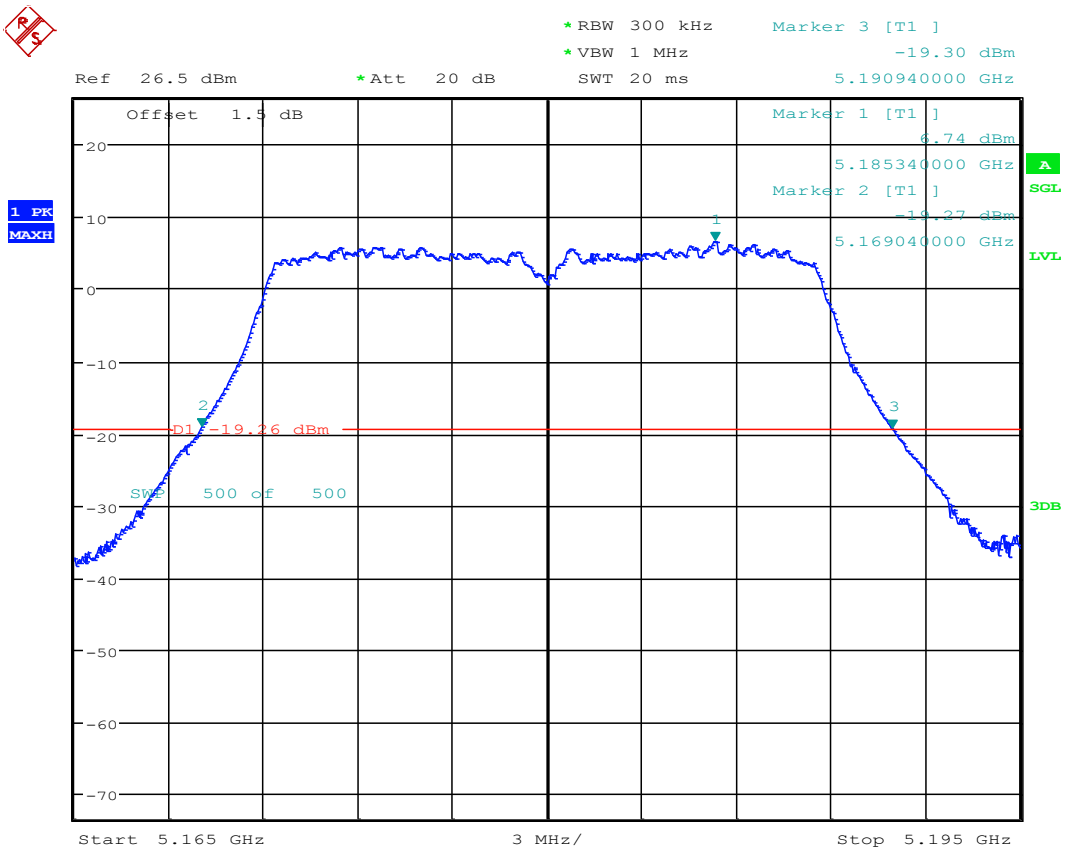
Date: 28.MAR.2018 12:16:54

3.21 11AC20_36 ANT 1



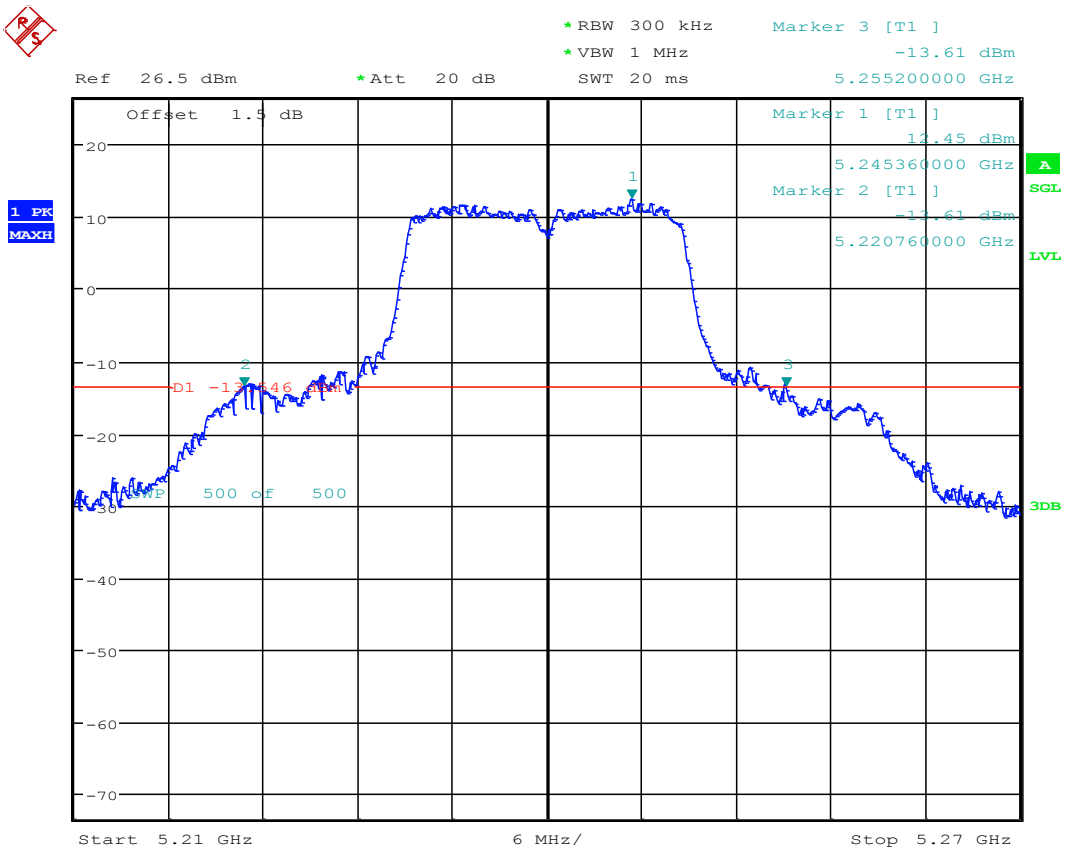
Date: 8.MAR.2018 14:11:29

3.22 11AC20_36 ANT 2

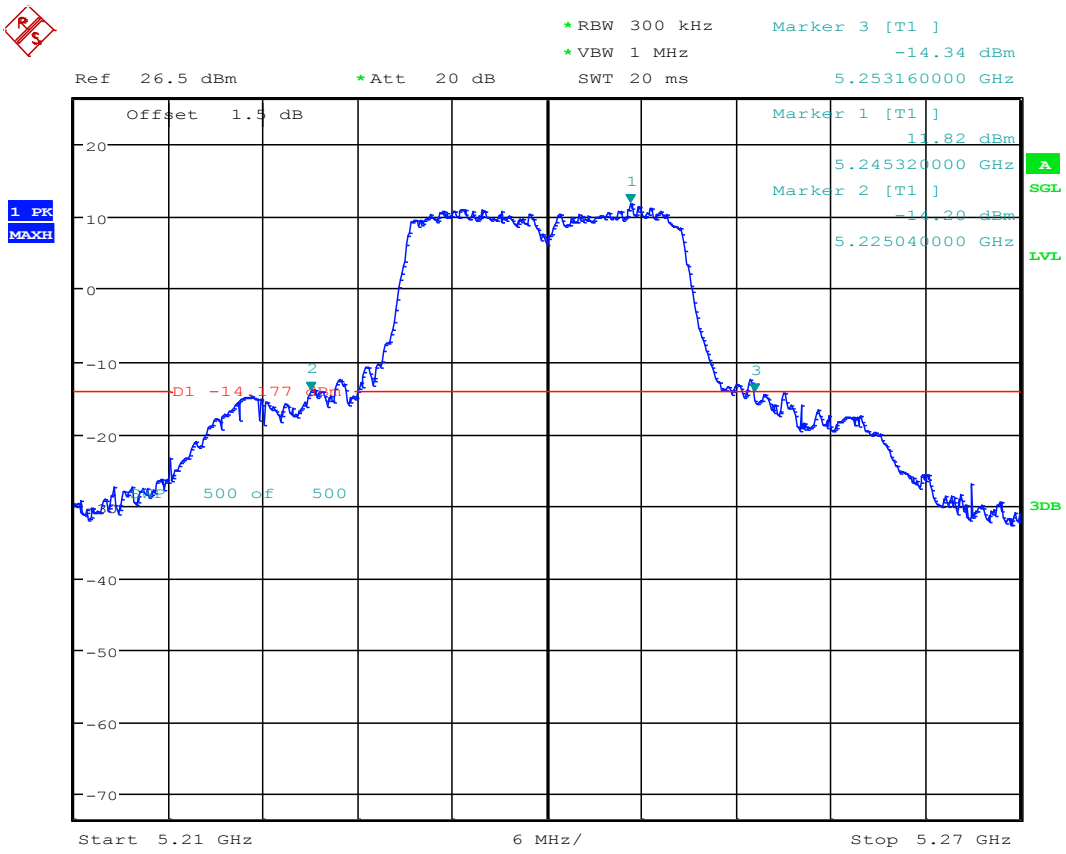


Date: 6.MAR.2018 13:39:50

3.23 11AC20_48 ANT 1

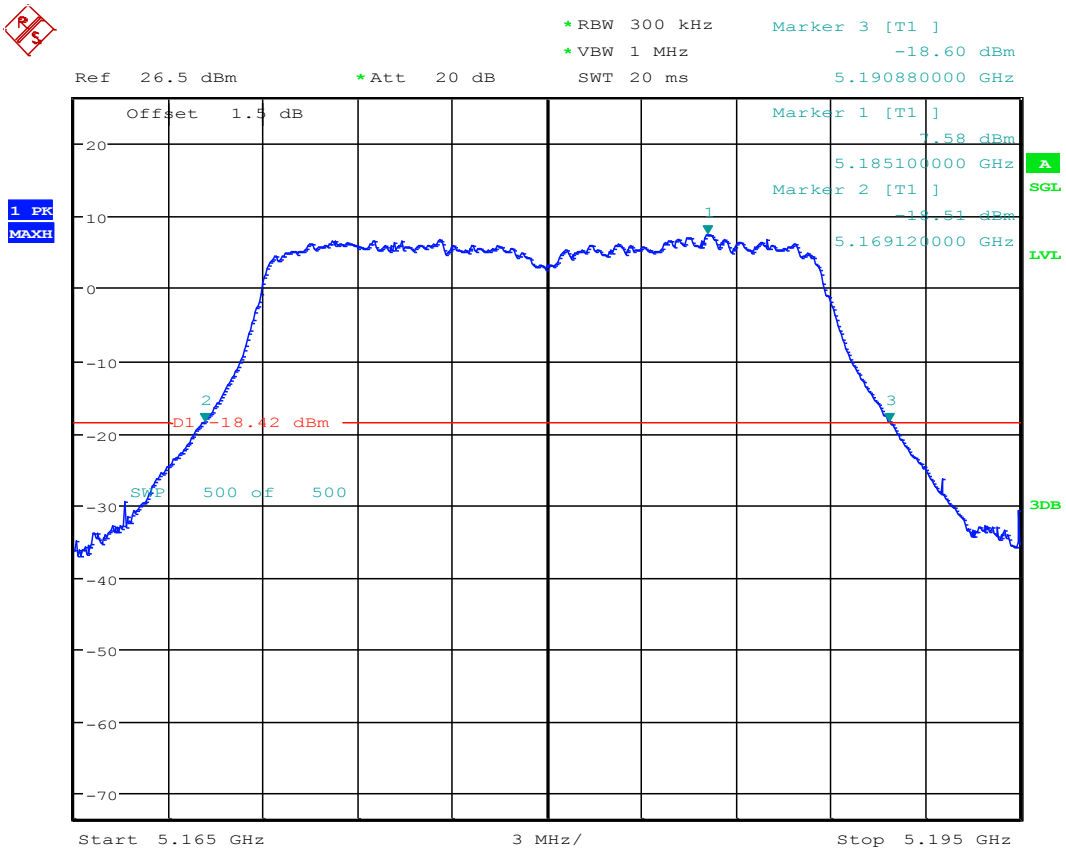


3.24 11AC20_48 ANT 2



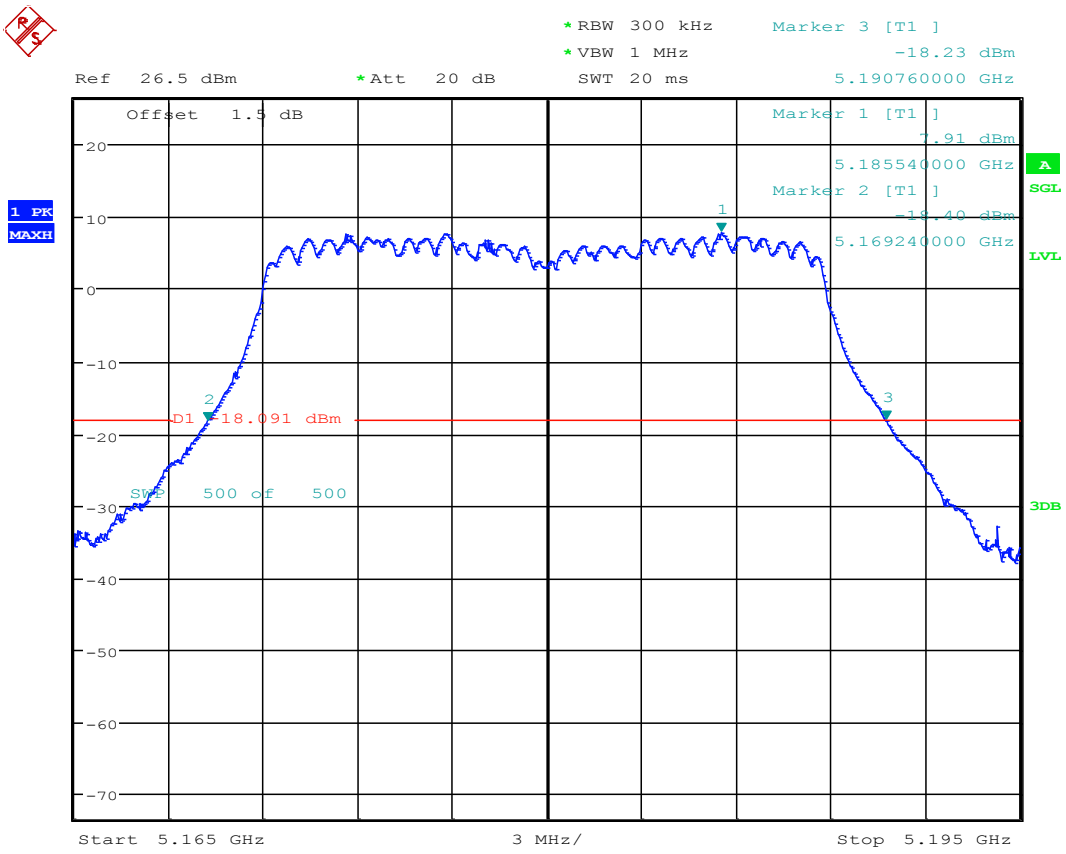
Date: 28.MAR.2018 11:48:28

3.25 11AC20MIMO_36 ANT 1



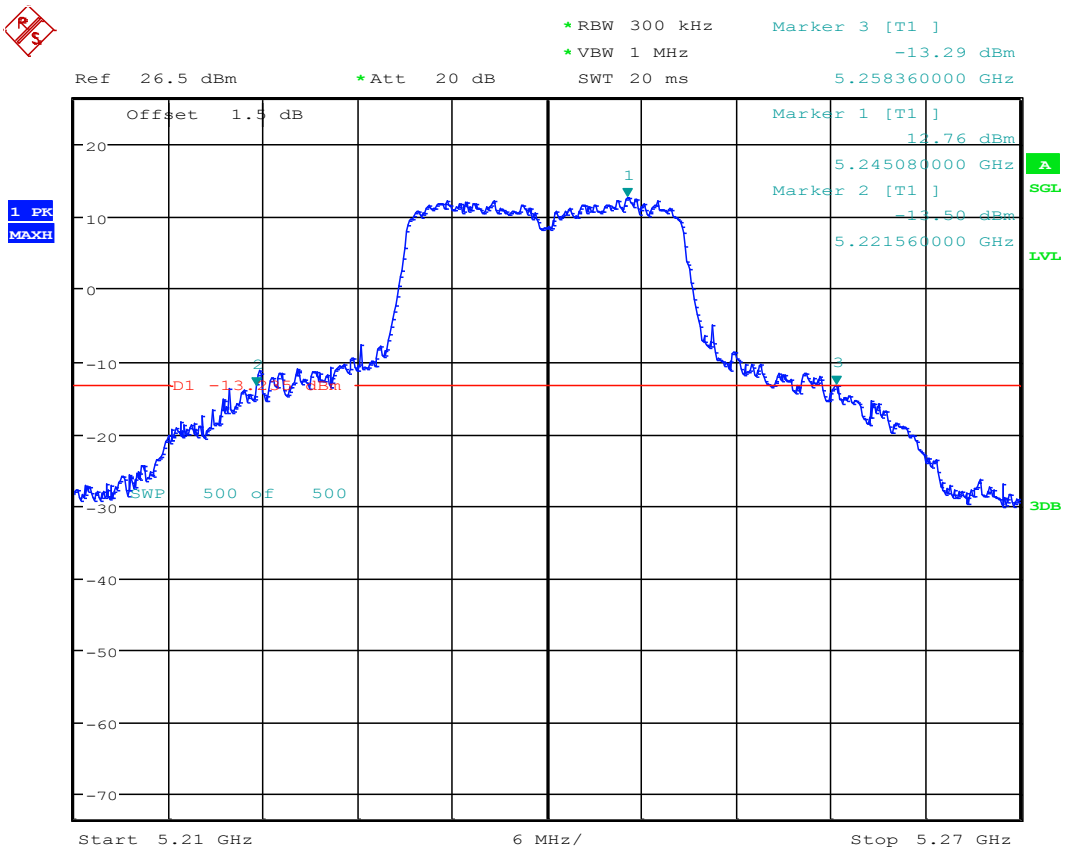
Date: 6.MAR.2018 16:22:38

3.26 11AC20MIMO_36 ANT 2



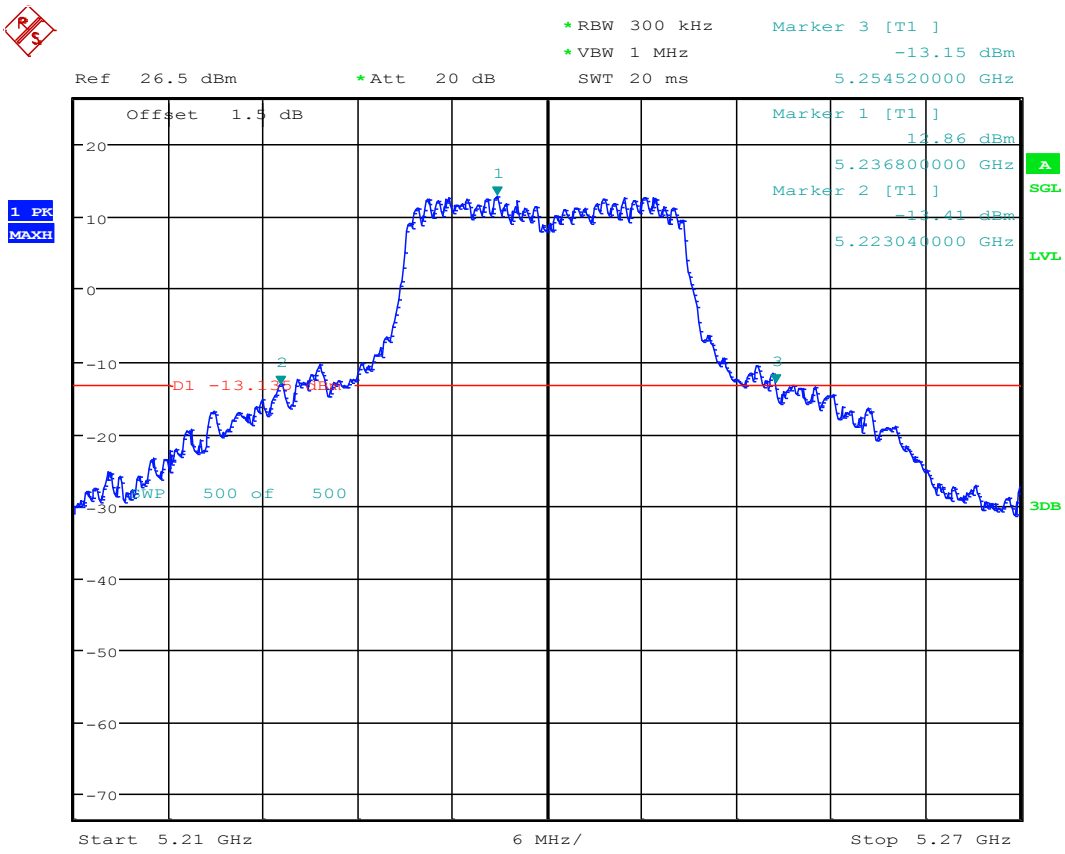
Date: 6.MAR.2018 18:08:23

3.27 11AC20MIMO_48 ANT 1



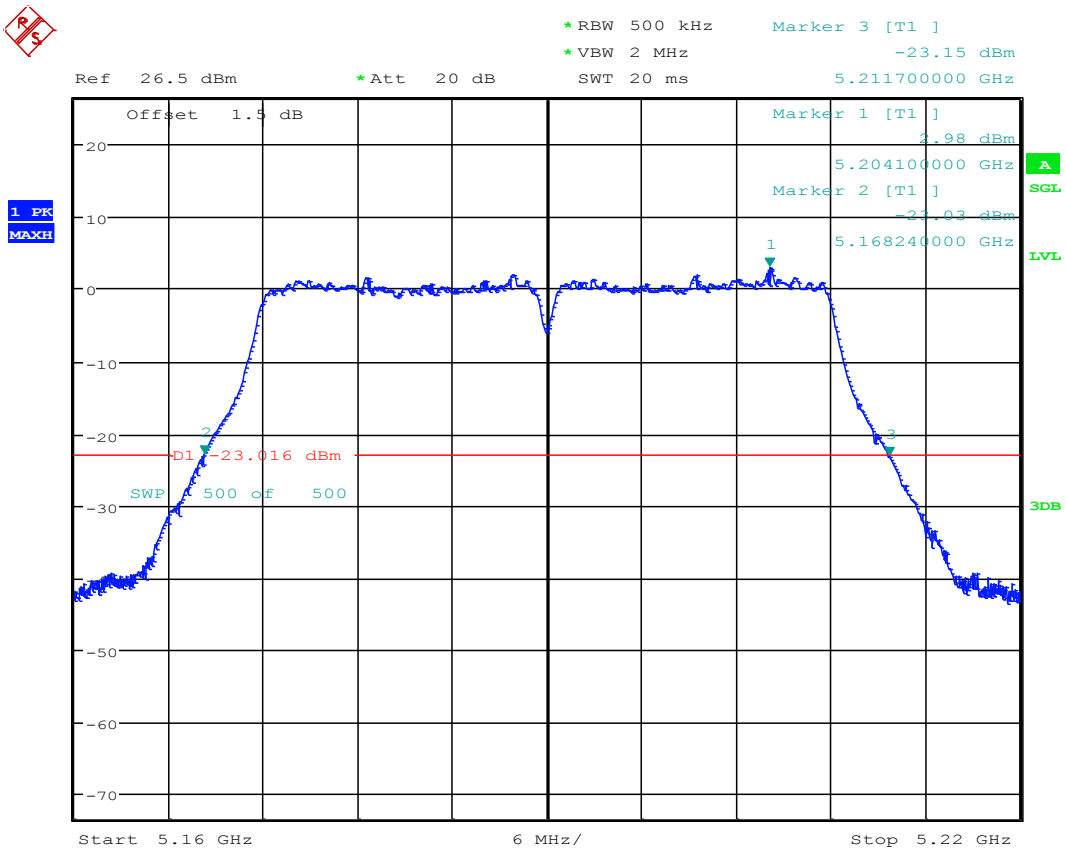
Date: 28.MAR.2018 11:13:52

3.28 11AC20MIMO_48 ANT 2



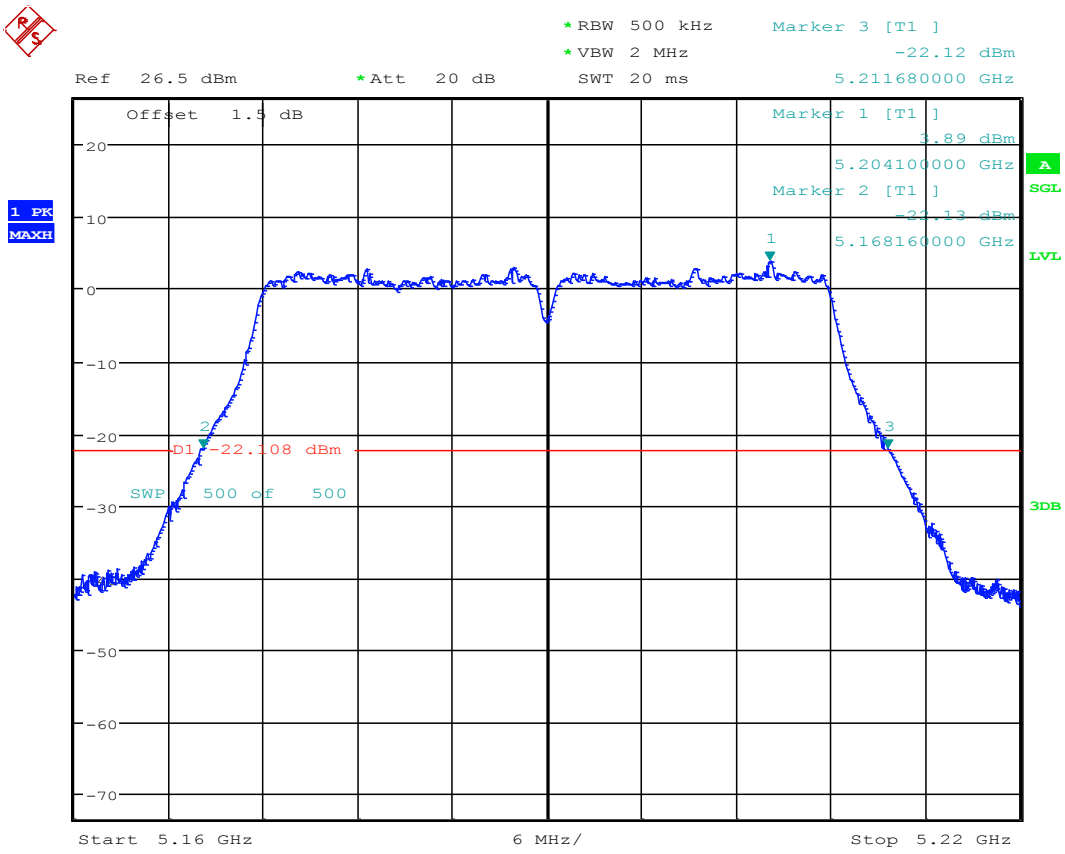
Date: 28.MAR.2018 12:07:13

3.29 11AC40_38 ANT 1

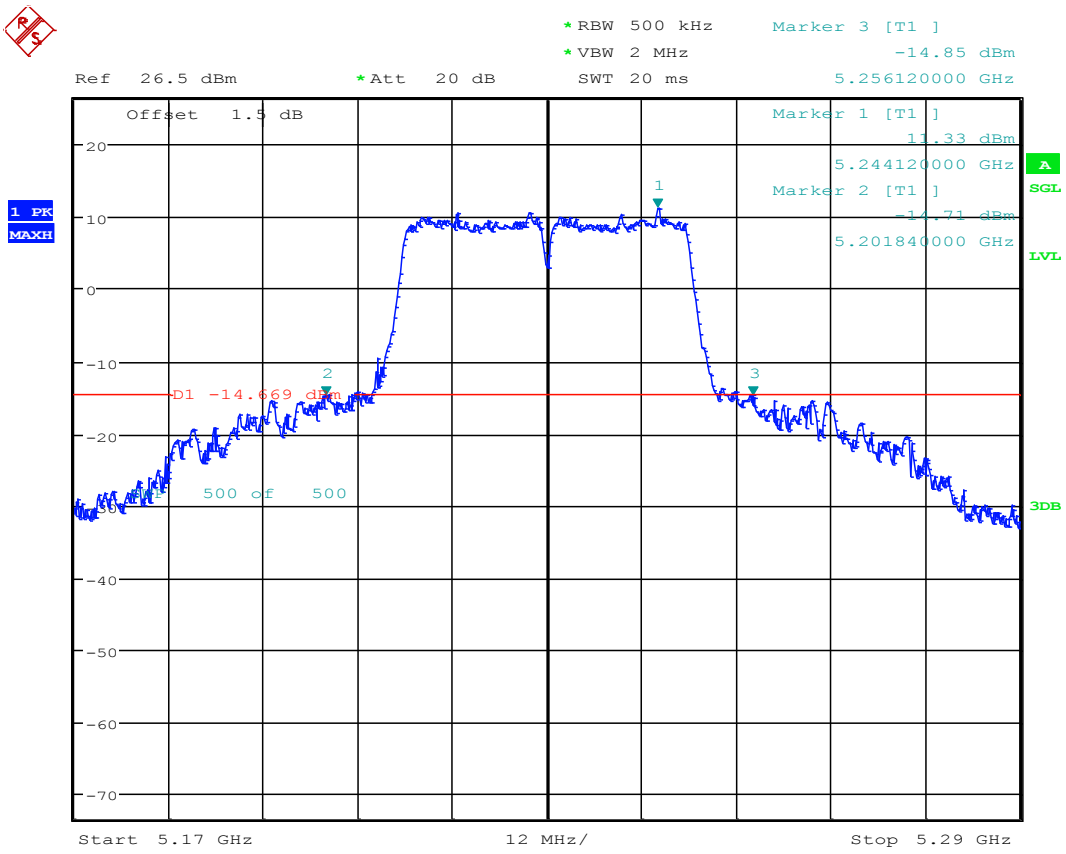


Date: 8.MAR.2018 14:32:56

3.30 11AC40_38 ANT 2

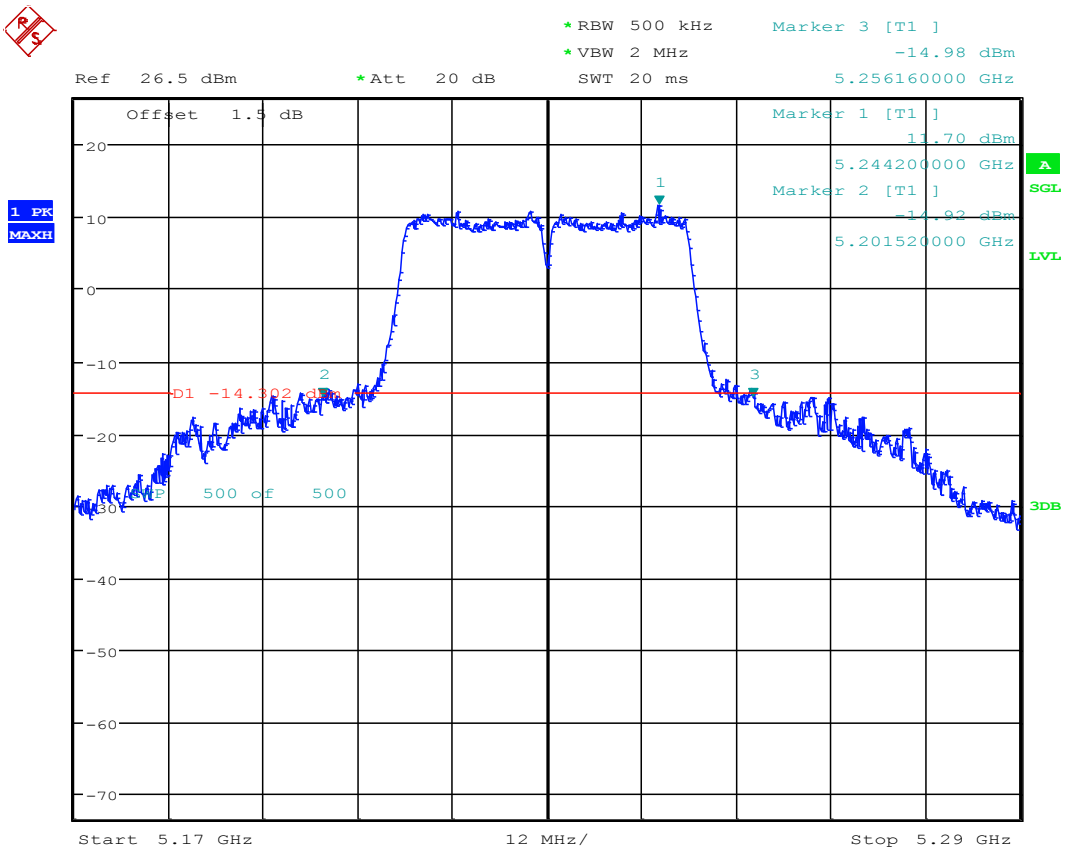


3.31 11AC40_46 ANT 1

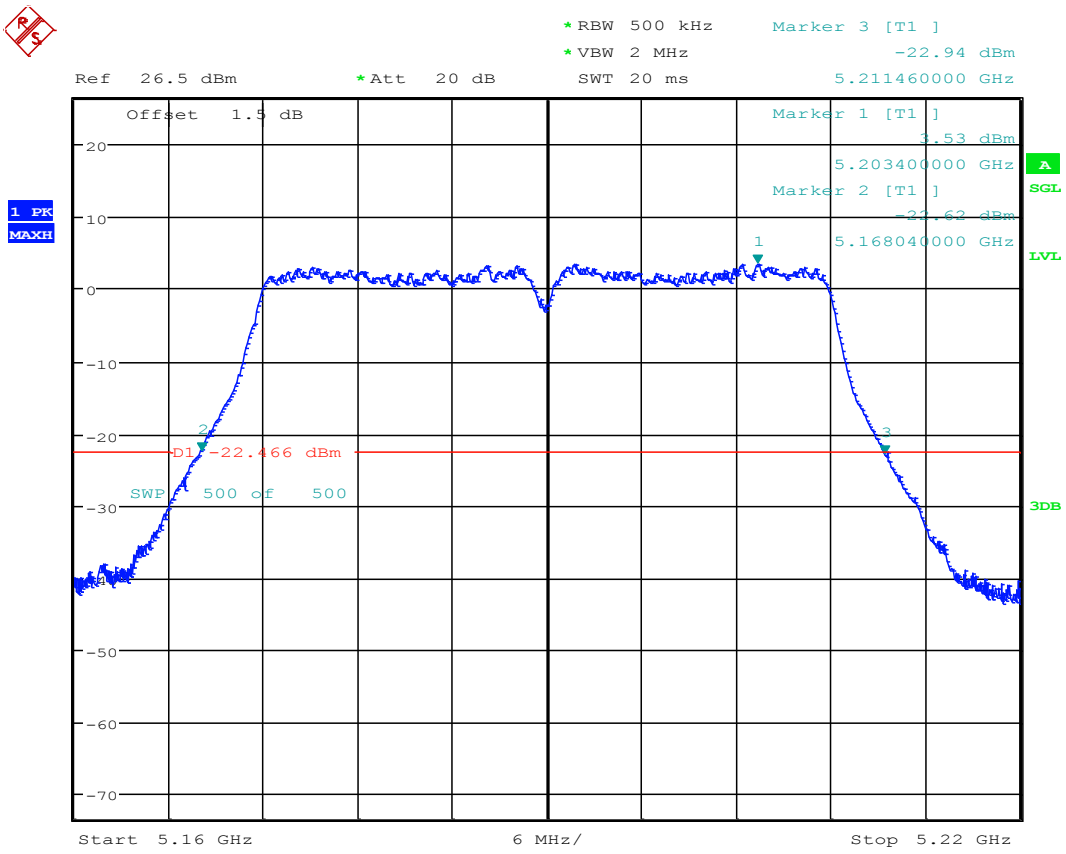


Date: 28.MAR.2018 11:02:15

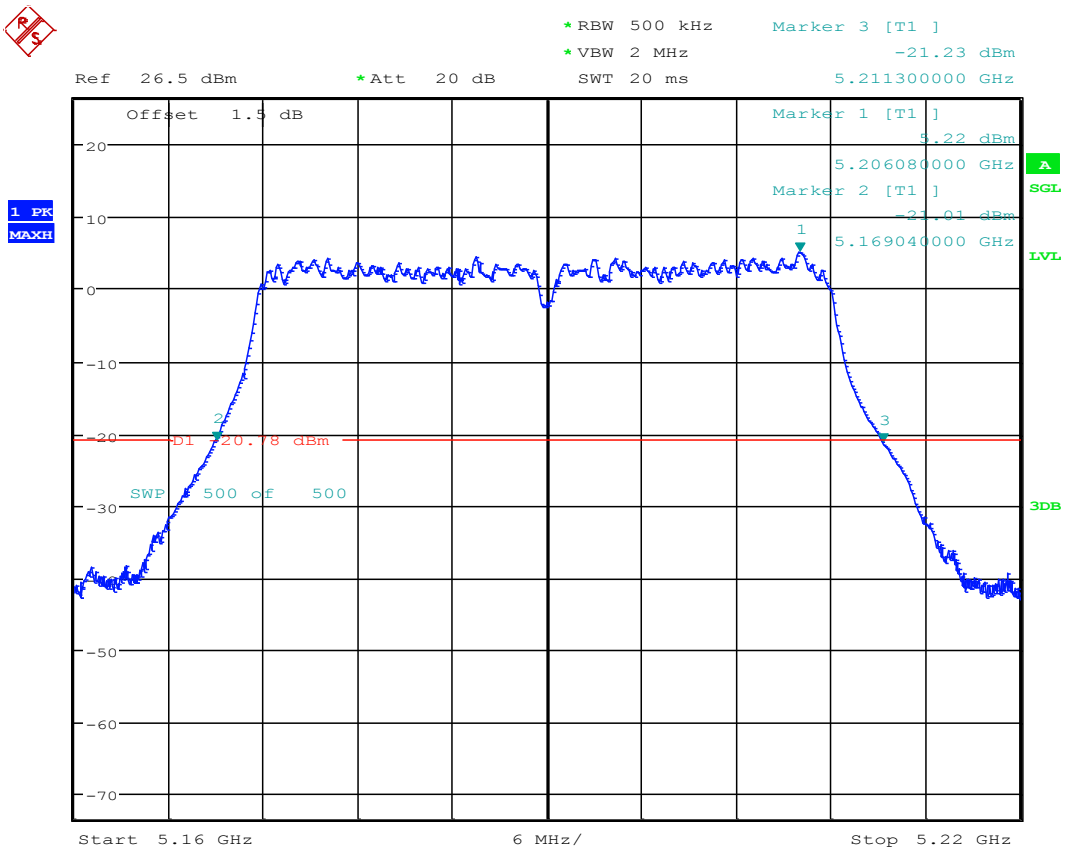
3.32 11AC40_46 ANT 2



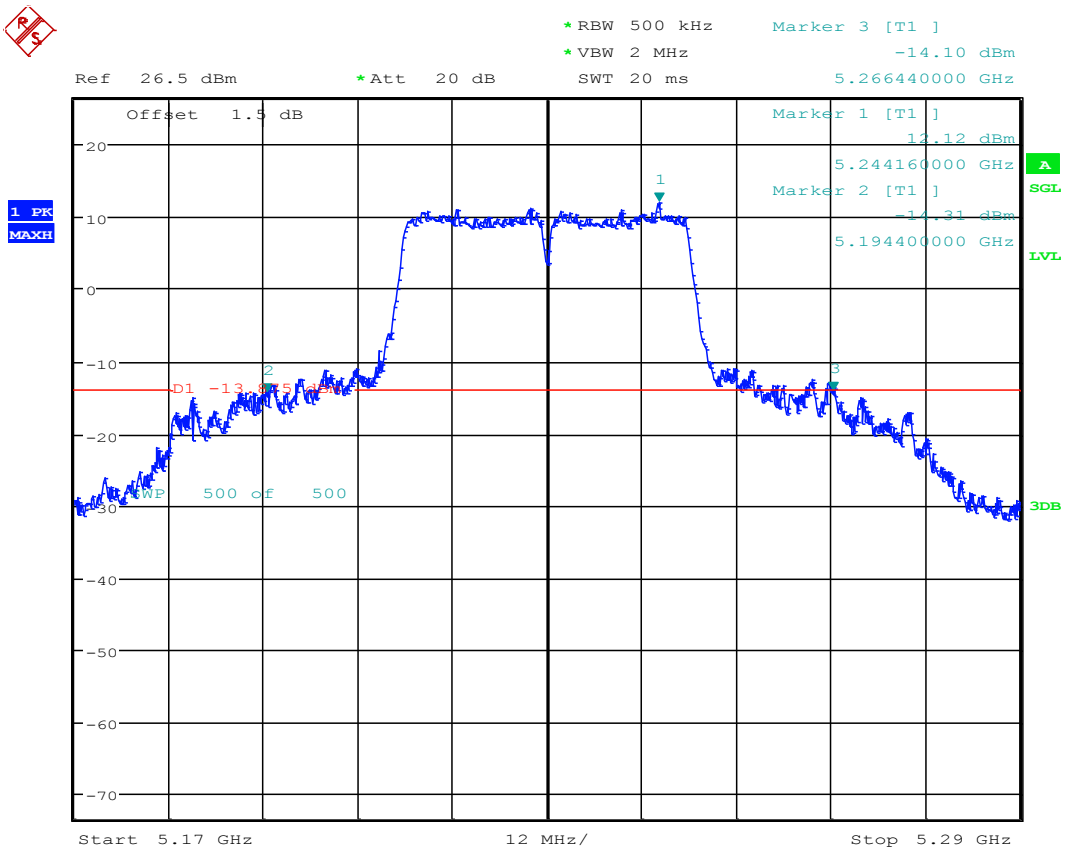
3.33 11AC40MIMO_38 ANT 1



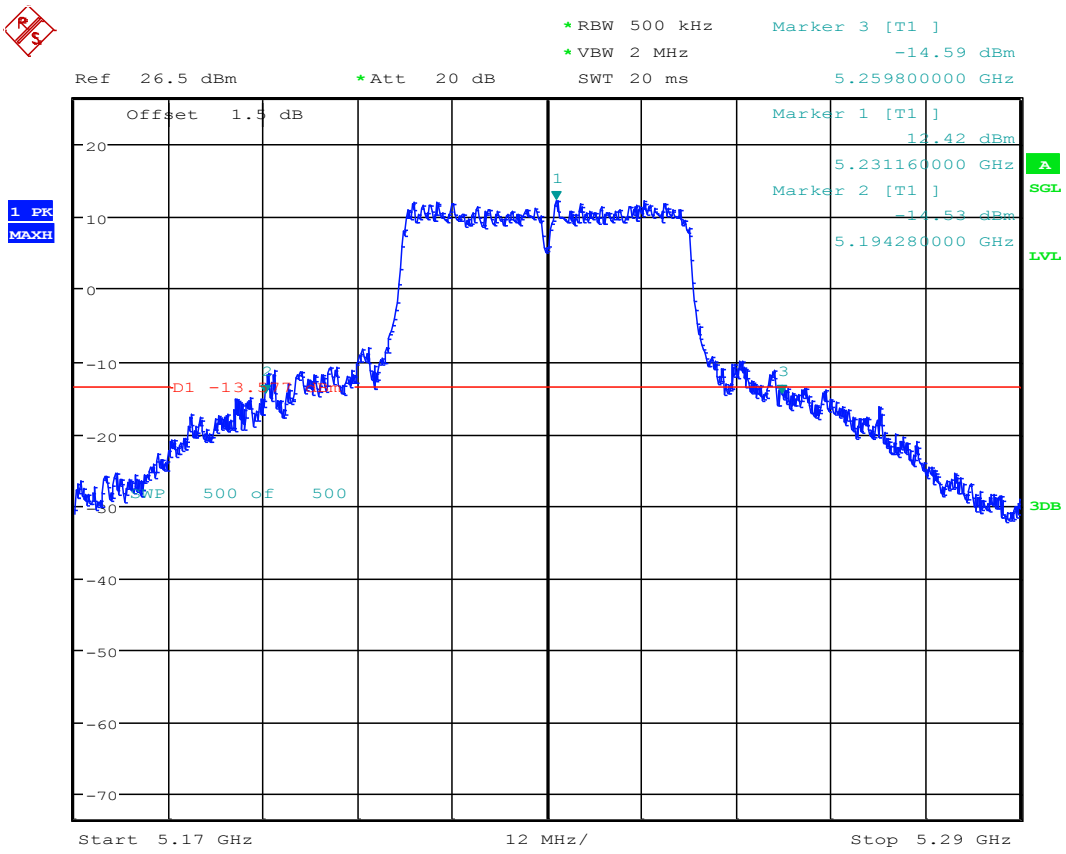
3.34 11AC40MIMO_38 ANT 2



3.35 11AC40MIMO_46 ANT 1

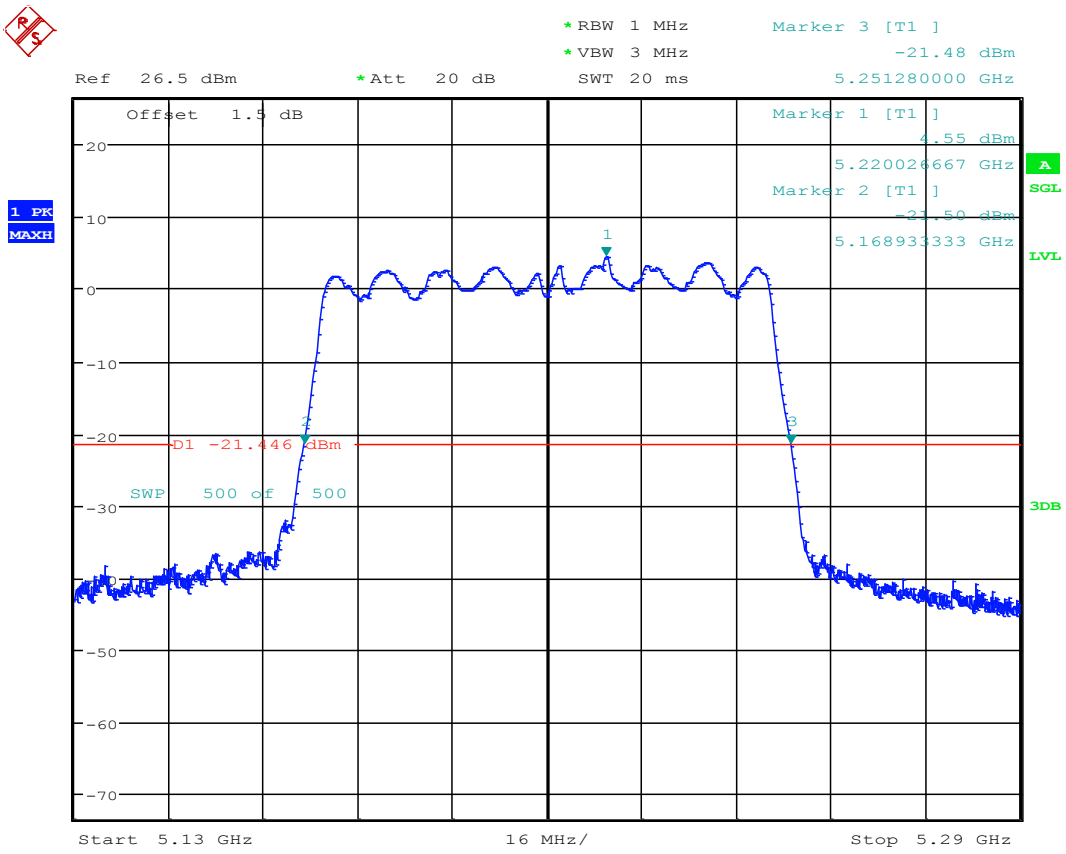


3.36 11AC40MIMO_46 ANT 2



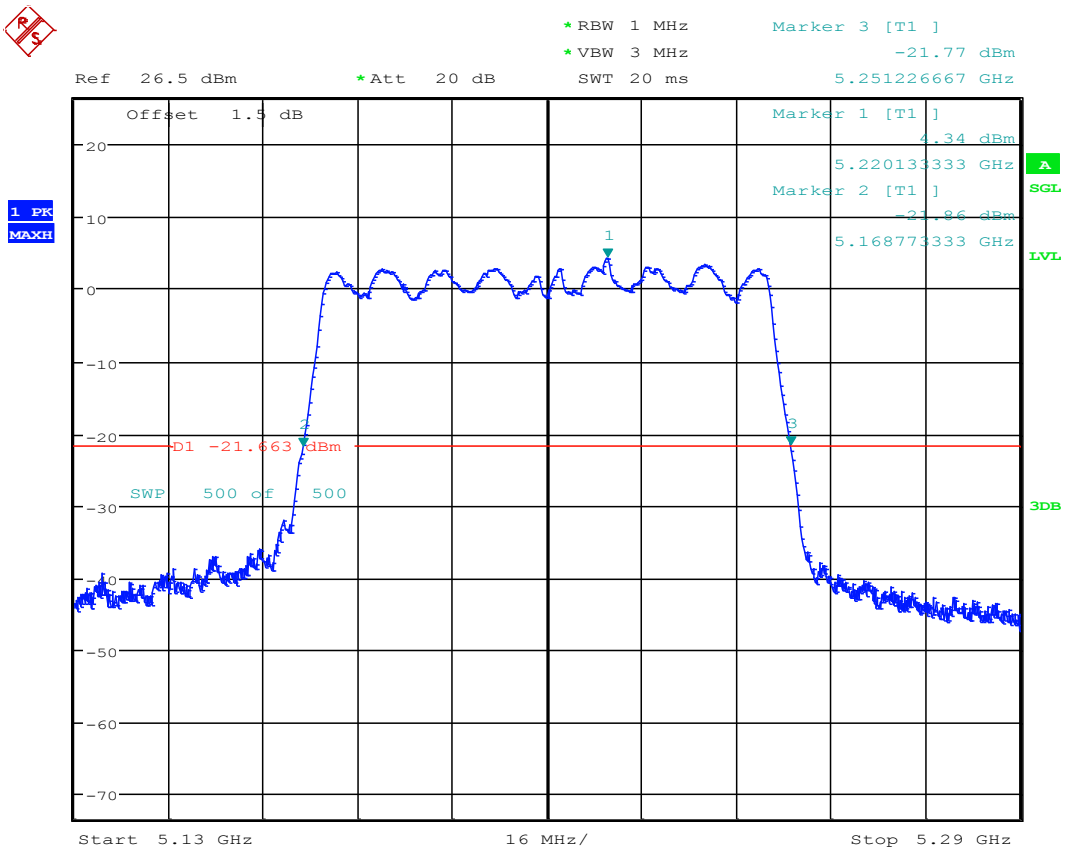
Date: 28.MAR.2018 12:04:28

3.37 11AC80_42 ANT 1



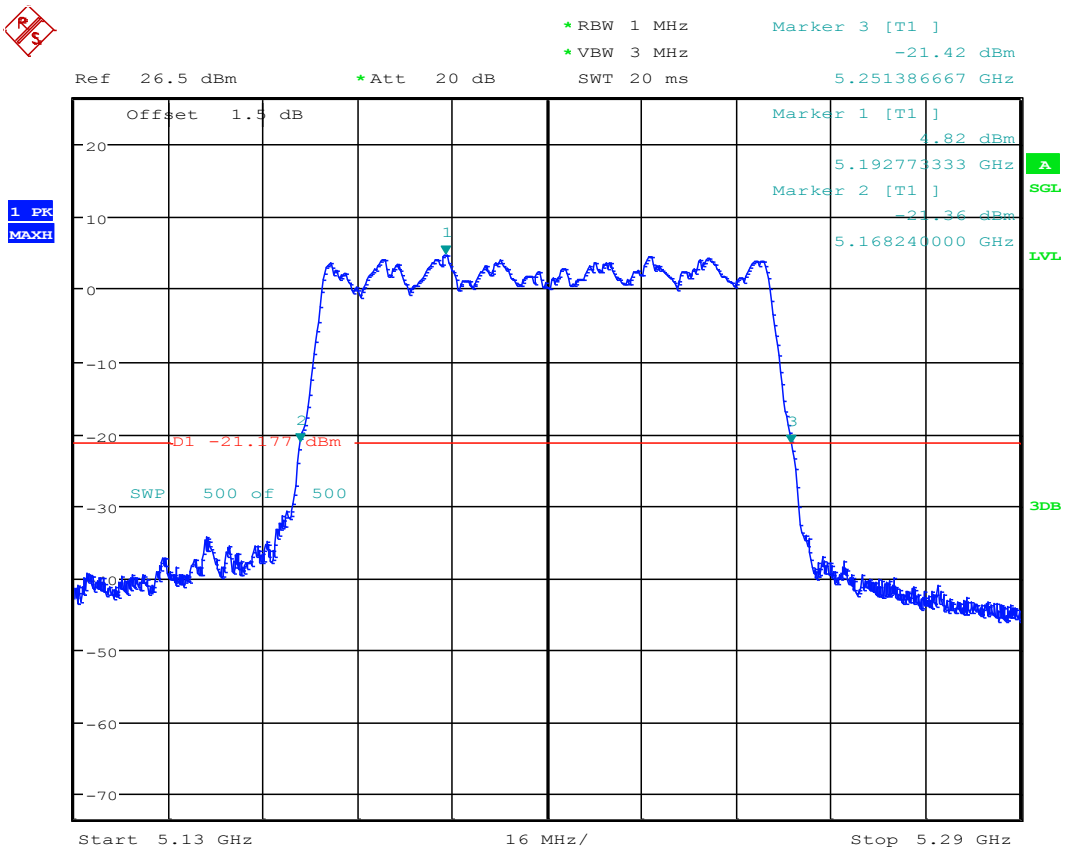
Date: 8.MAR.2018 14:54:40

3.38 11AC80_42 ANT 2

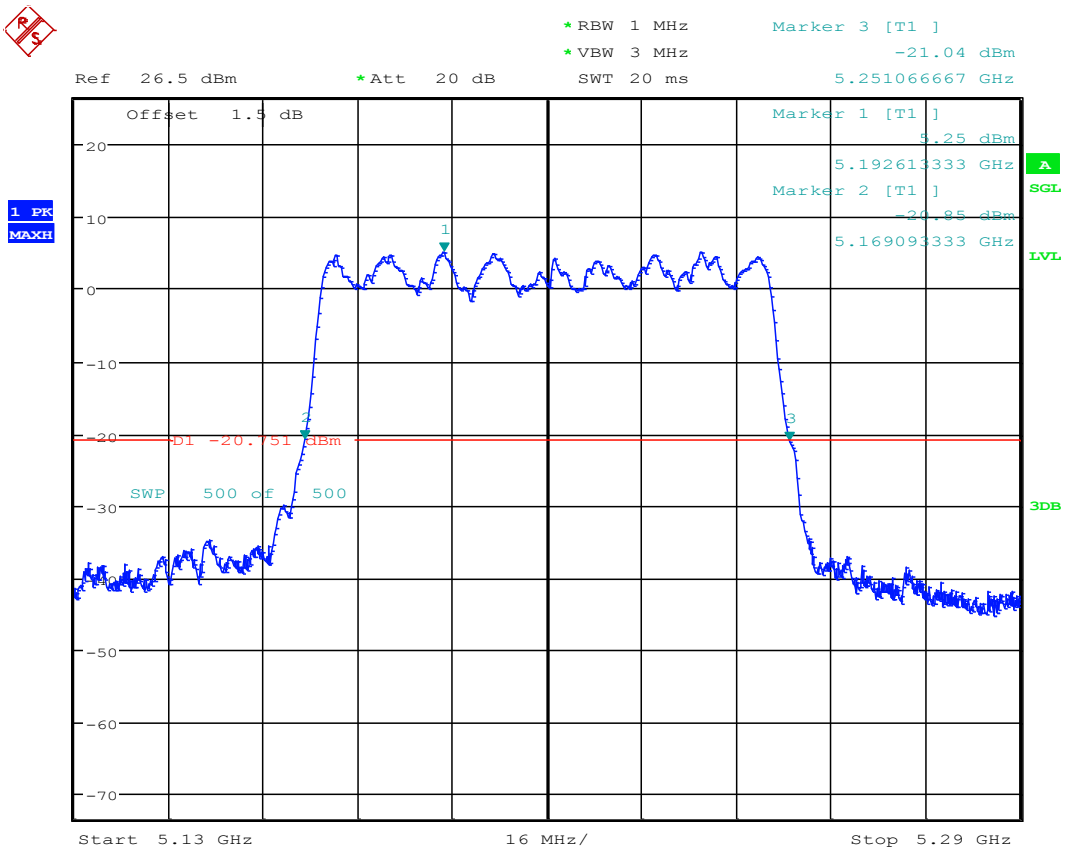


Date: 6.MAR.2018 14:38:12

3.39 11AC80MIMO_42 ANT 1



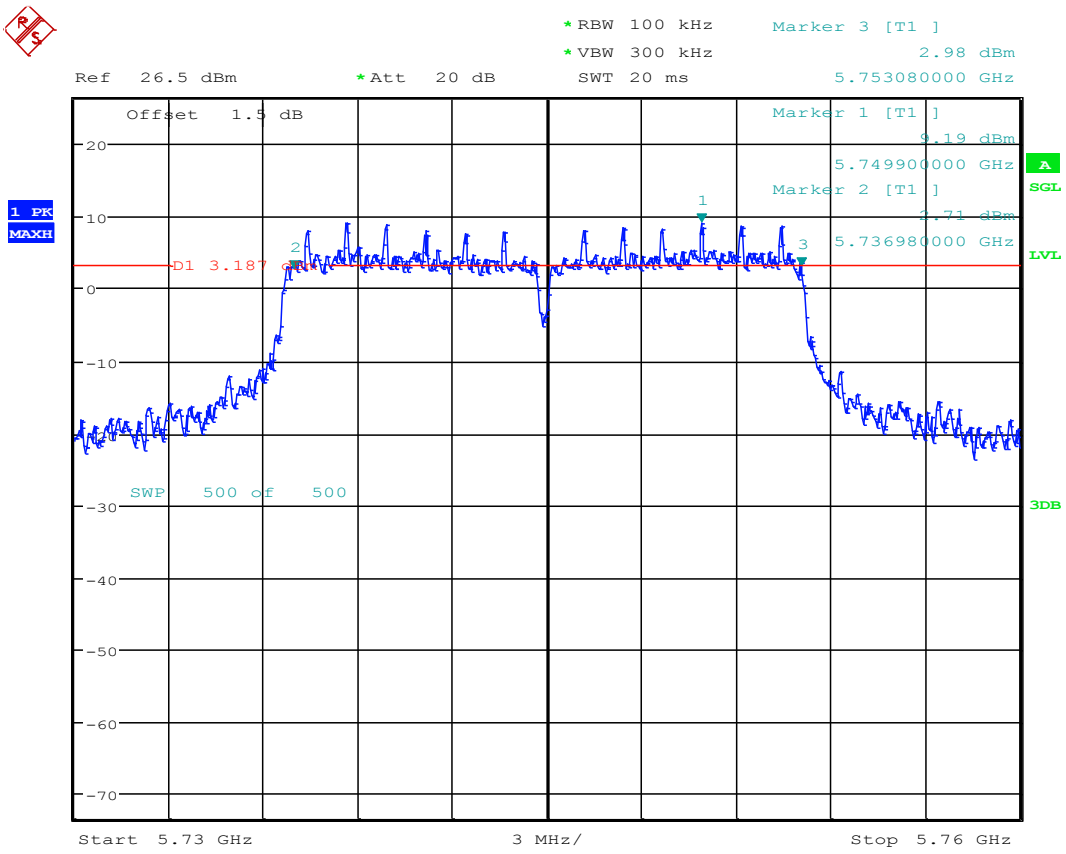
3.40 11AC80MIMO_42 ANT 2



Date: 6.MAR.2018 17:46:58

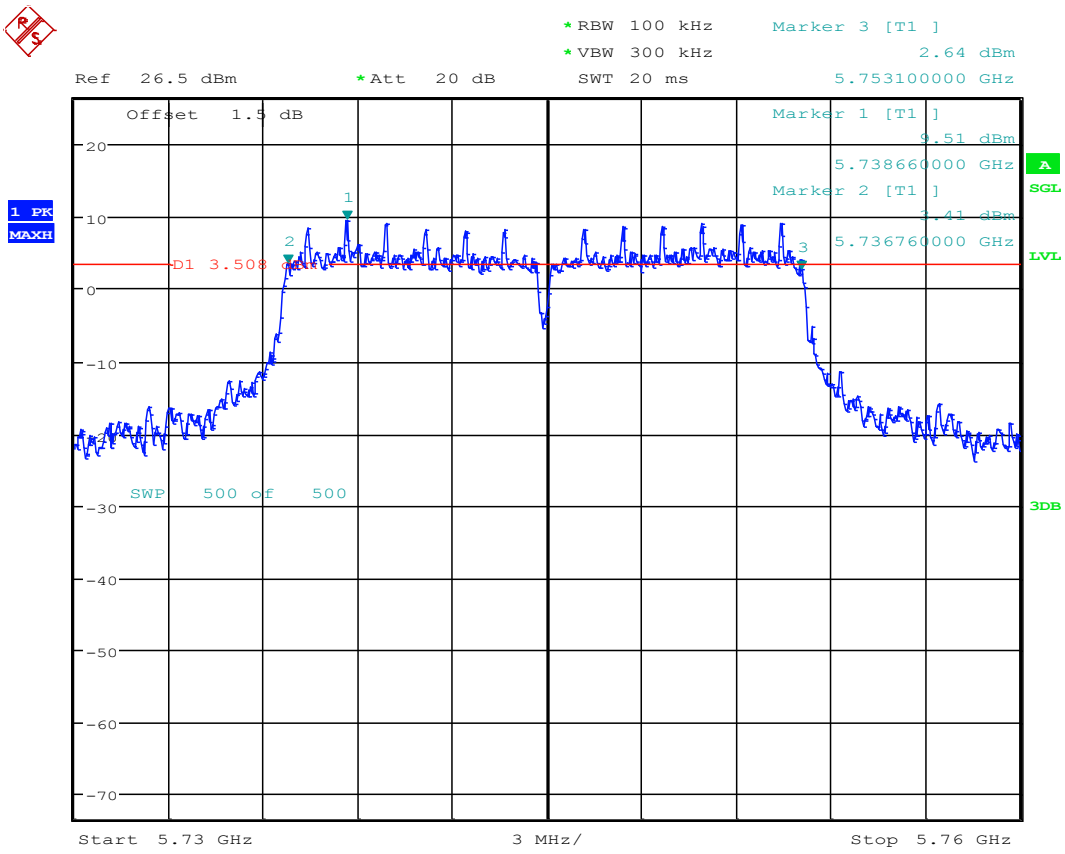
4 Test Plot for 6dB Emission Bandwidth

4.1 11A20_149 ANT 1



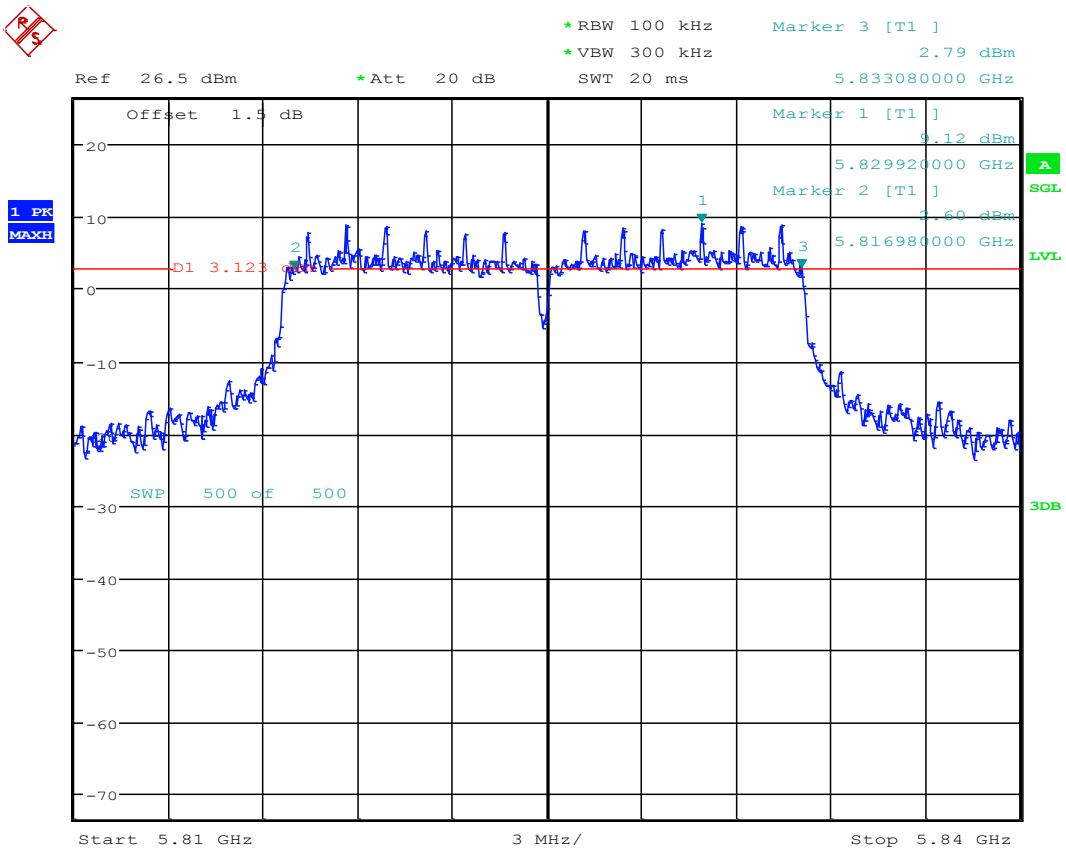
Date: 8.MAR.2018 11:19:53

4.2 11A20_149 ANT 2



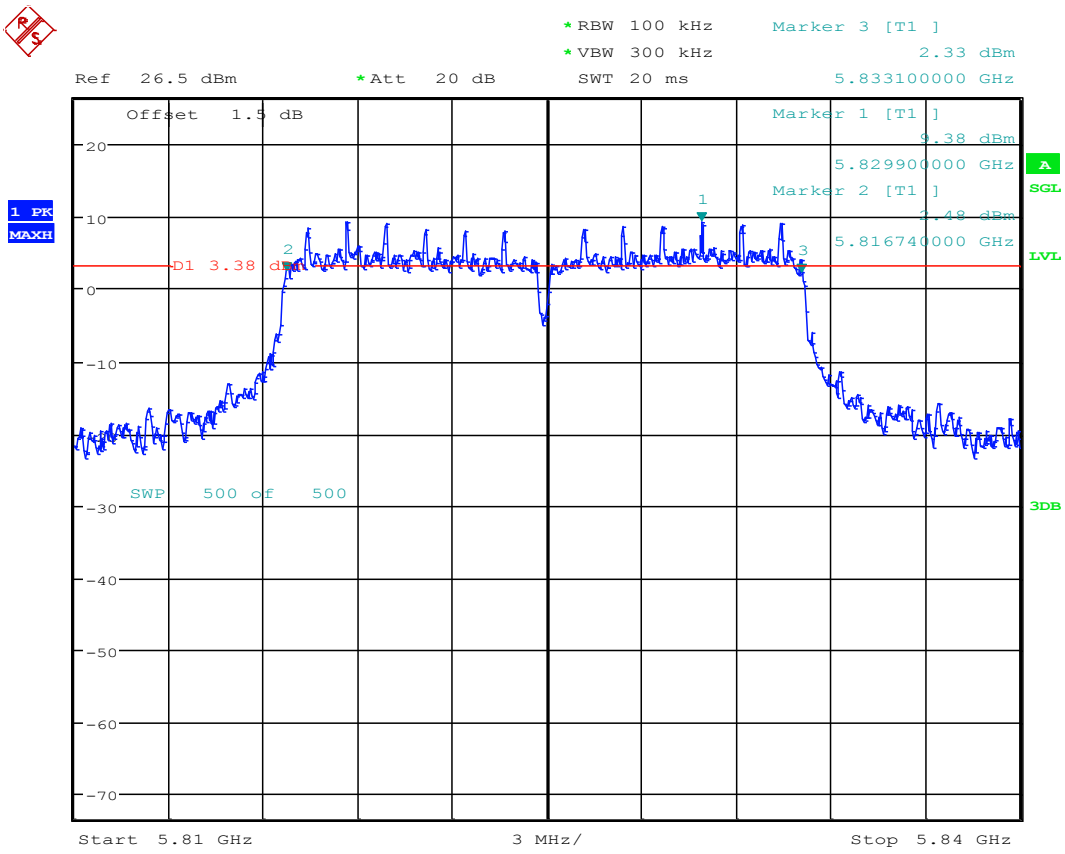
Date: 6.MAR.2018 11:15:44

4.3 11A20_165 ANT 1



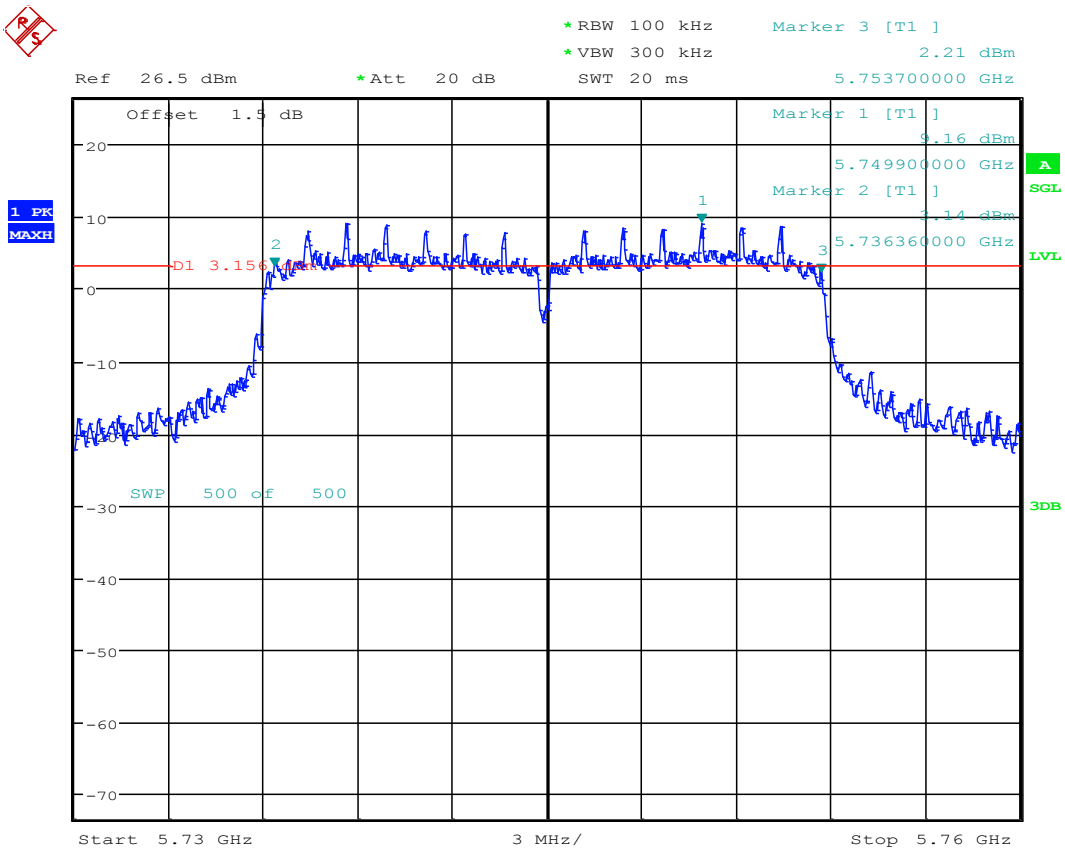
Date: 8.MAR.2018 11:30:33

4.4 11A20_165 ANT 2



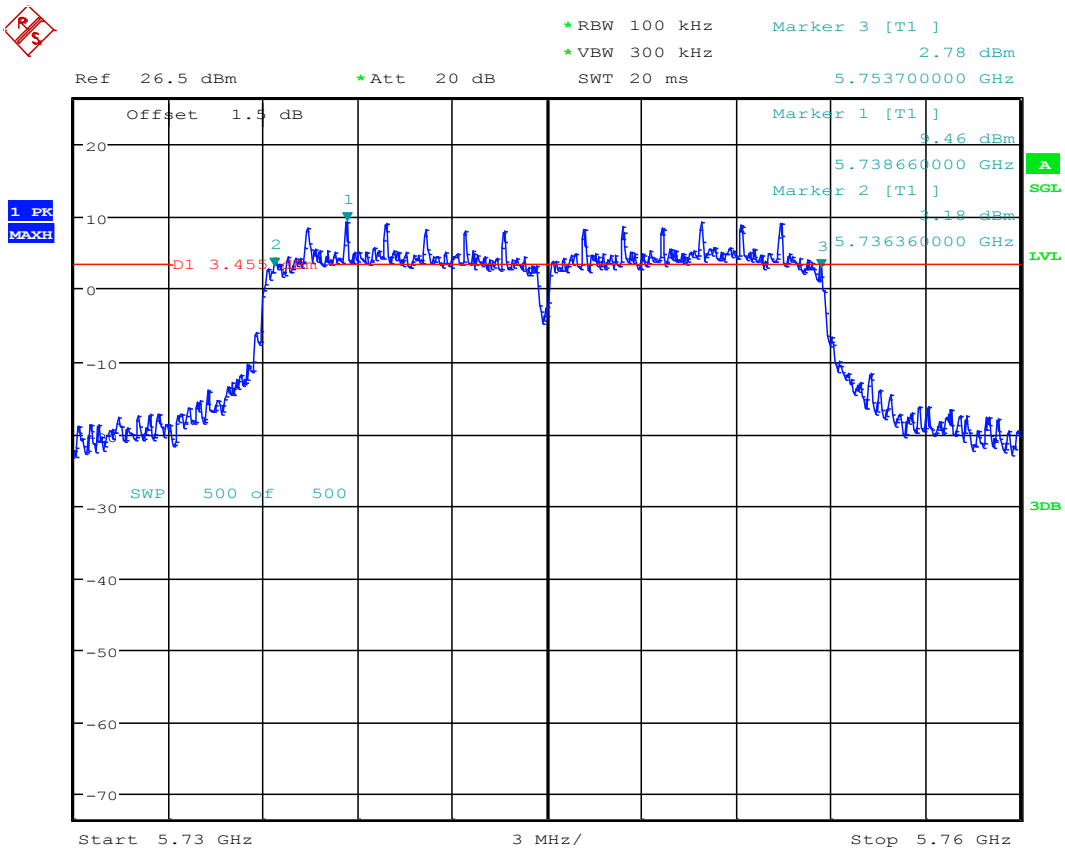
Date: 6.MAR.2018 11:22:37

4.5 11N20_149 ANT 1



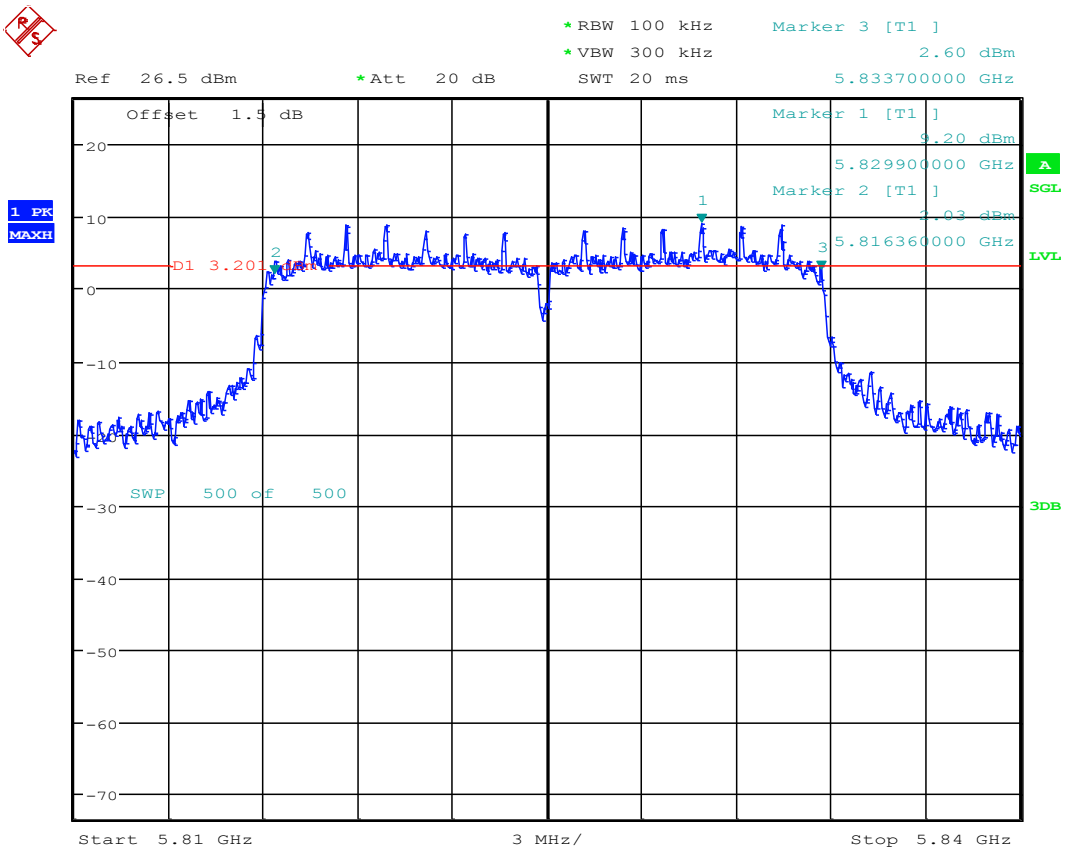
Date: 8.MAR.2018 11:48:50

4.6 11N20_149 ANT 2



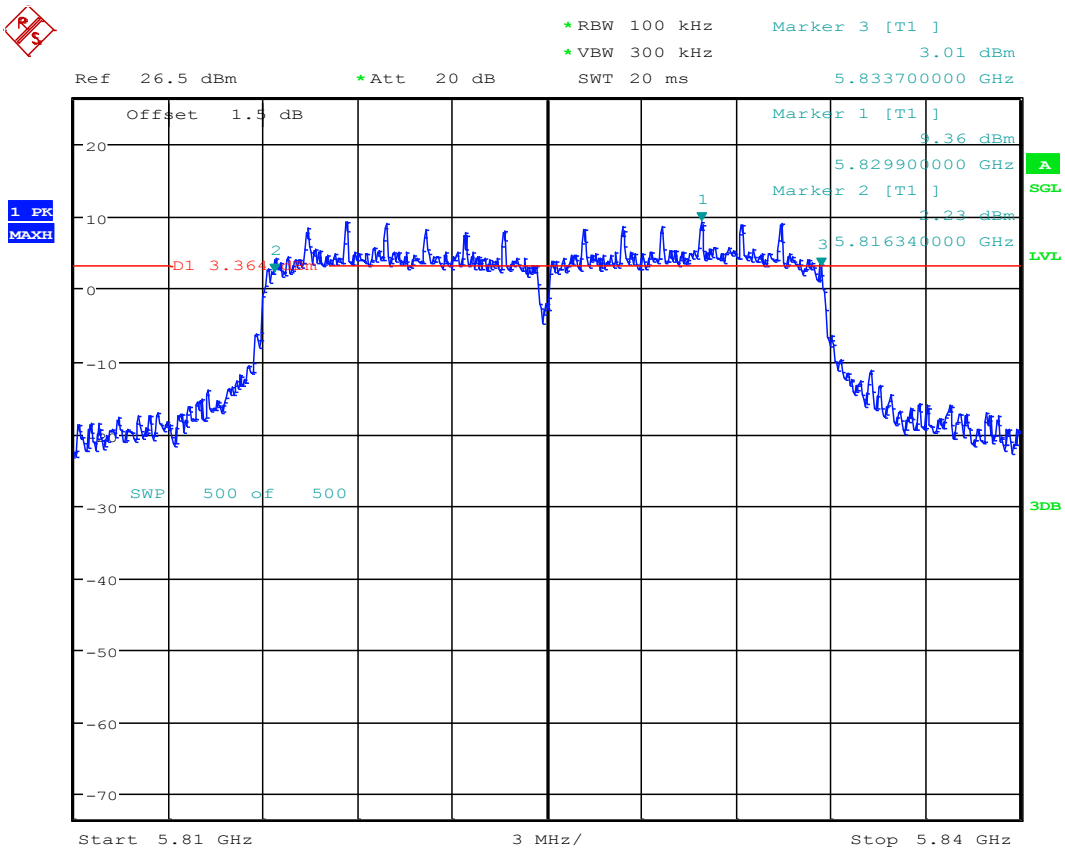
Date: 6.MAR.2018 11:41:12

4.7 11N20_165 ANT 1



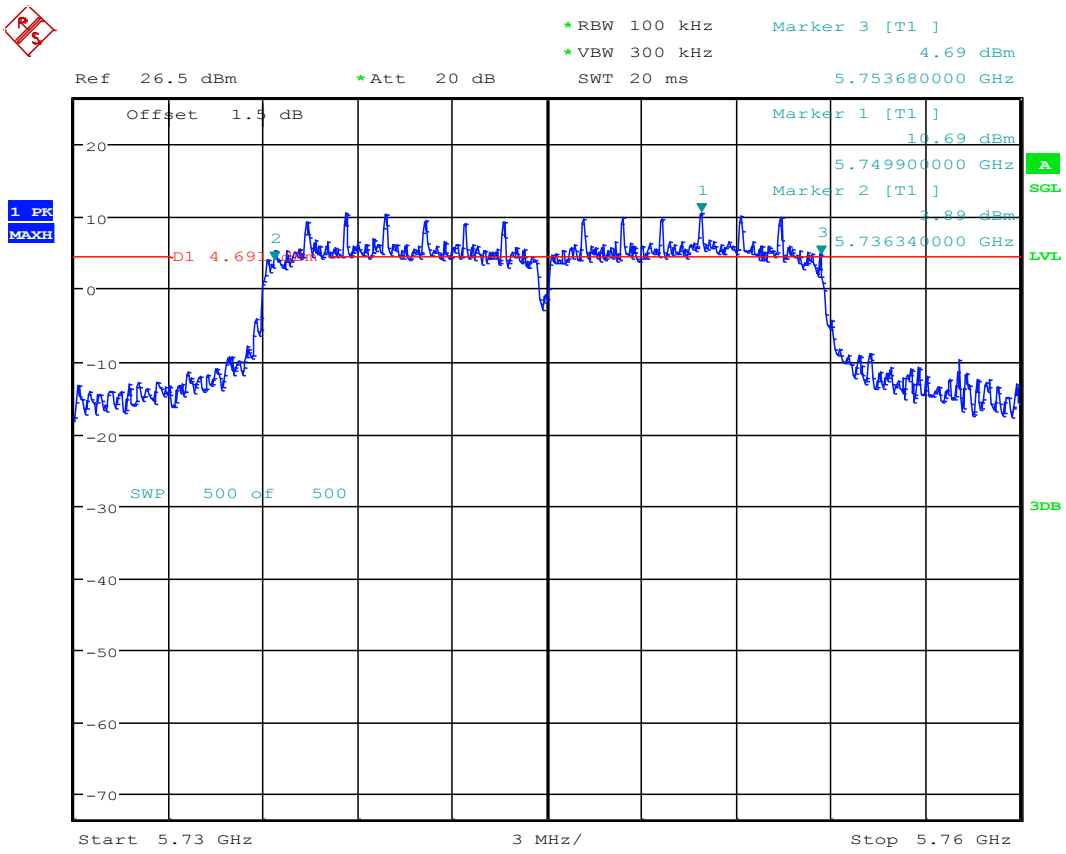
Date: 8.MAR.2018 11:56:57

4.8 11N20_165 ANT 2



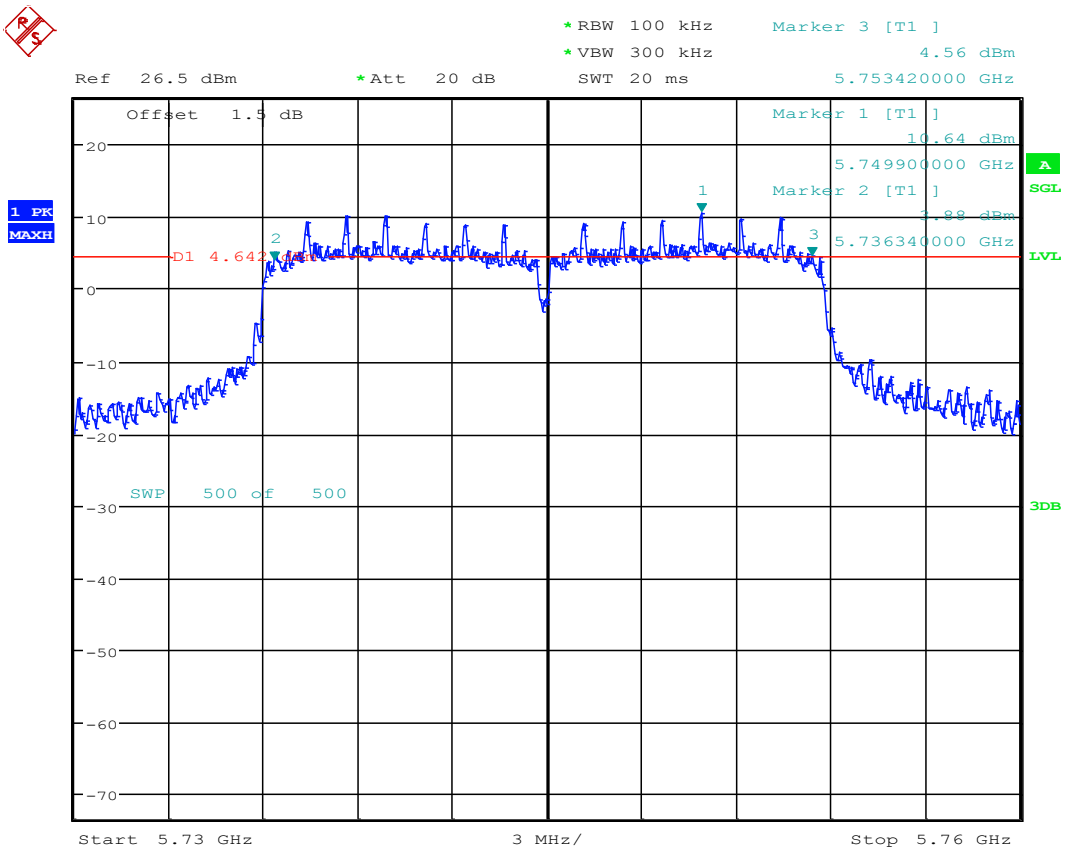
Date: 6.MAR.2018 11:48:05

4.9 11N20MIMO_149 ANT 1



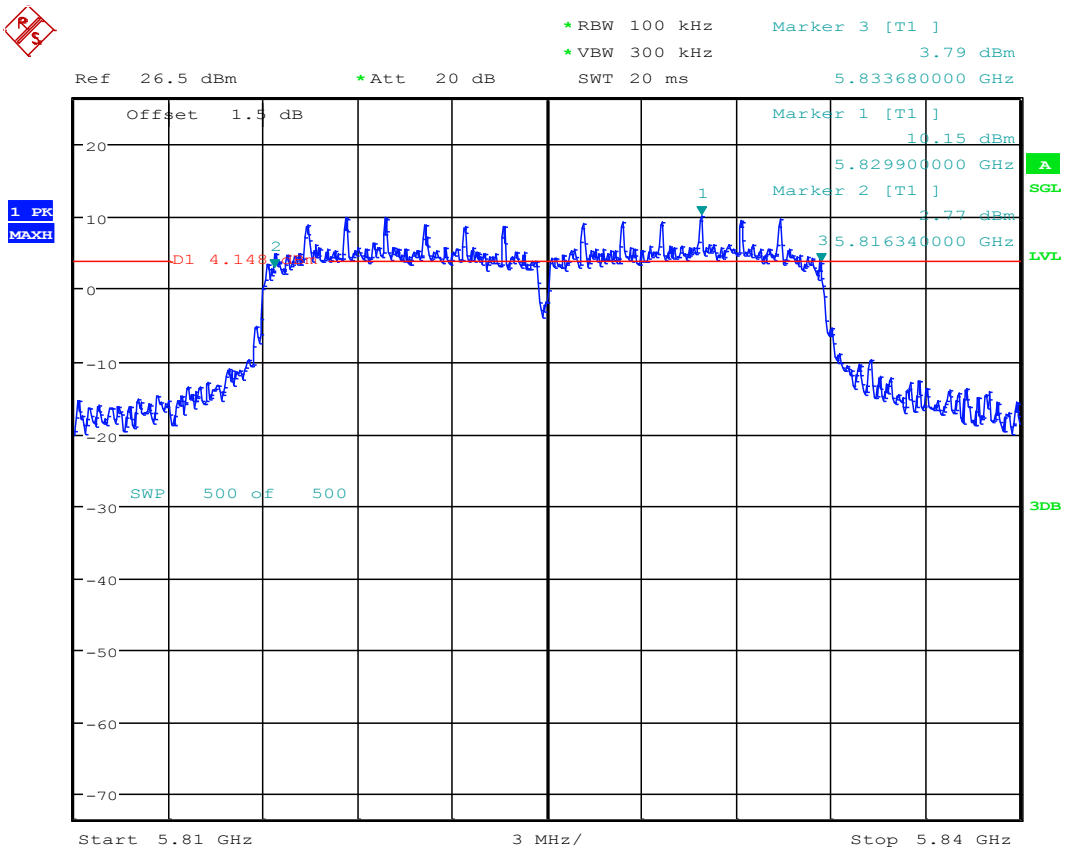
Date: 6.MAR.2018 16:12:33

4.10 11N20MIMO_149 ANT 2

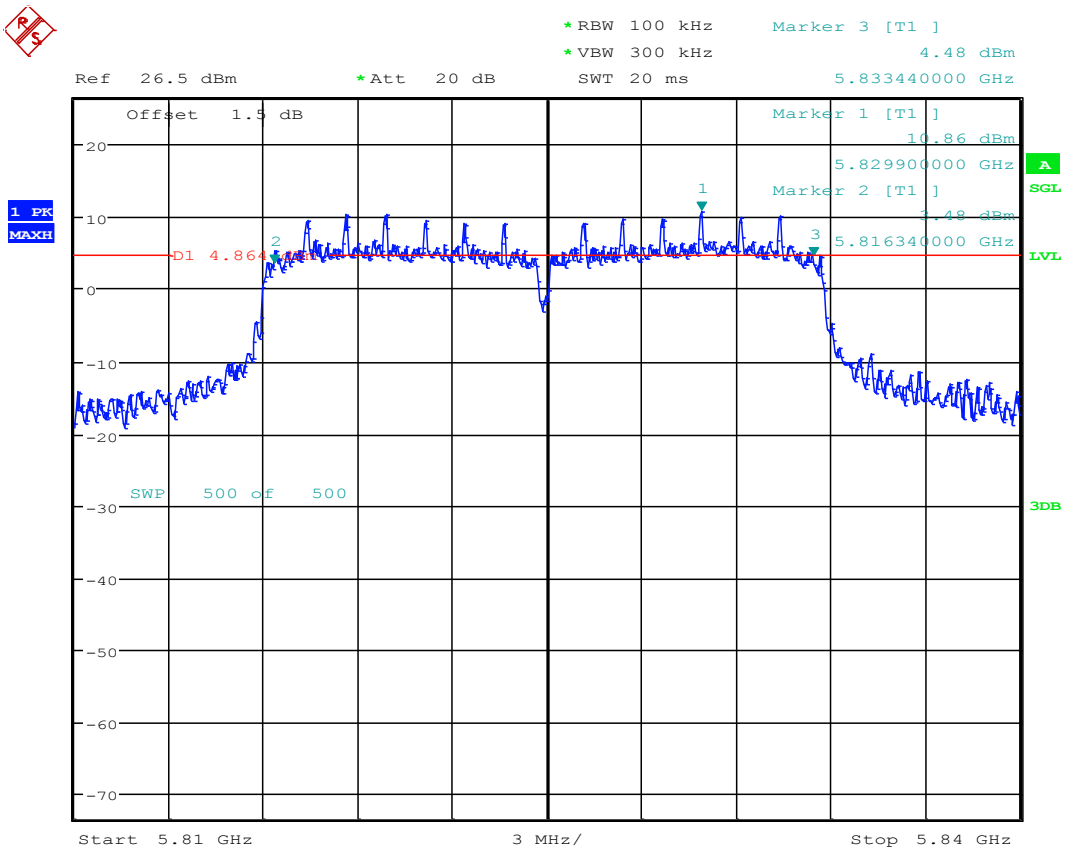


Date: 6.MAR.2018 17:56:21

4.11 11N20MIMO_165 ANT 1

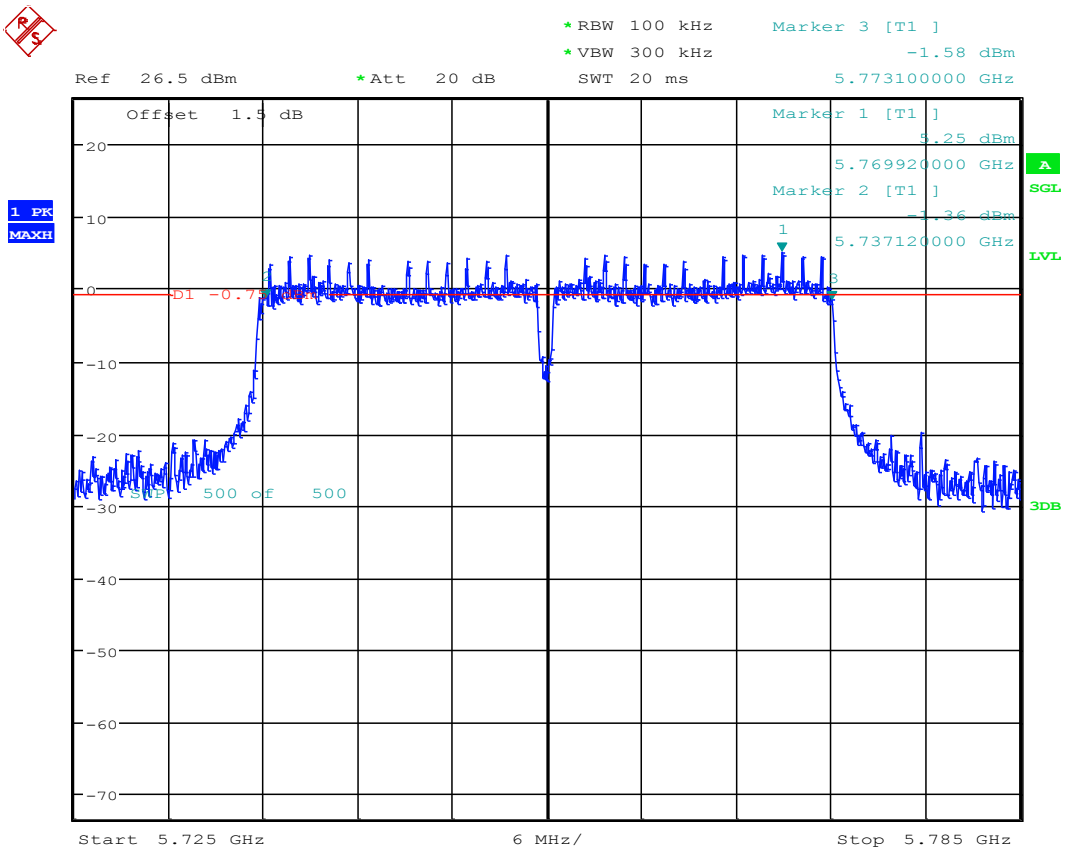


4.12 11N20MIMO_165 ANT 2



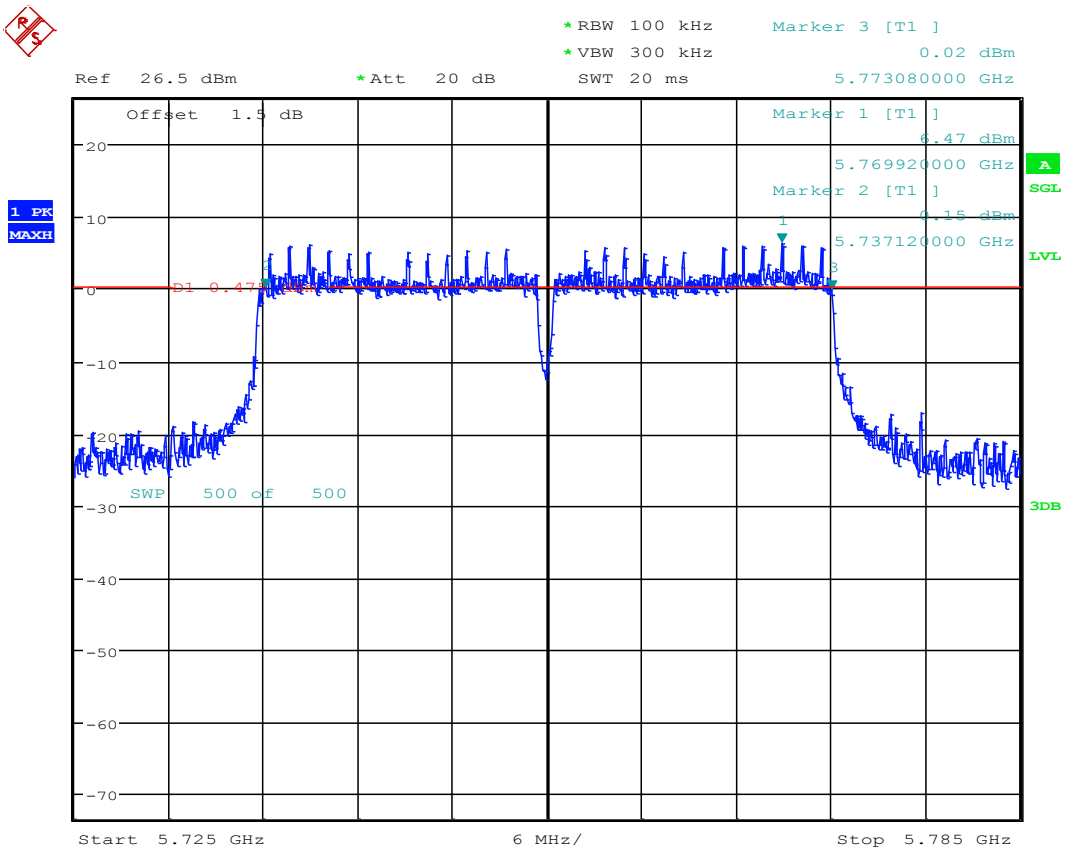
Date: 6.MAR.2018 18:04:55

4.13 11N40_151 ANT 1



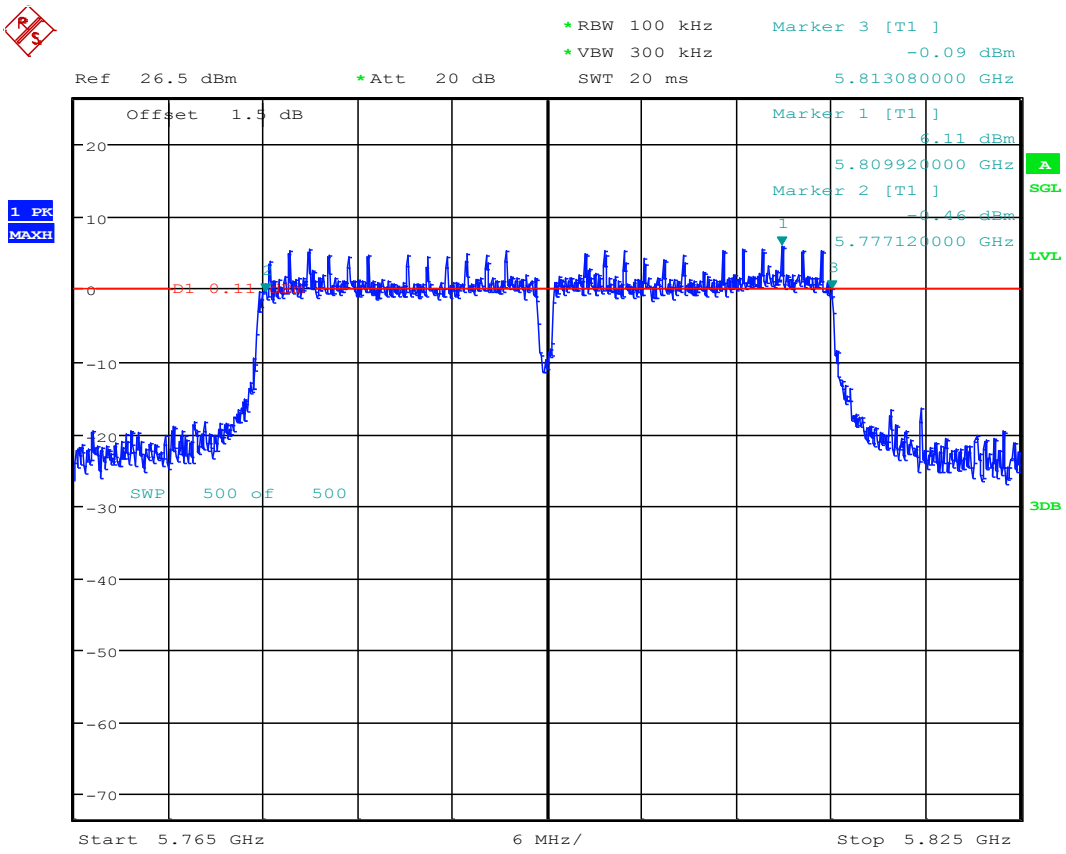
Date: 8.MAR.2018 14:00:35

4.14 11N40_151 ANT 2



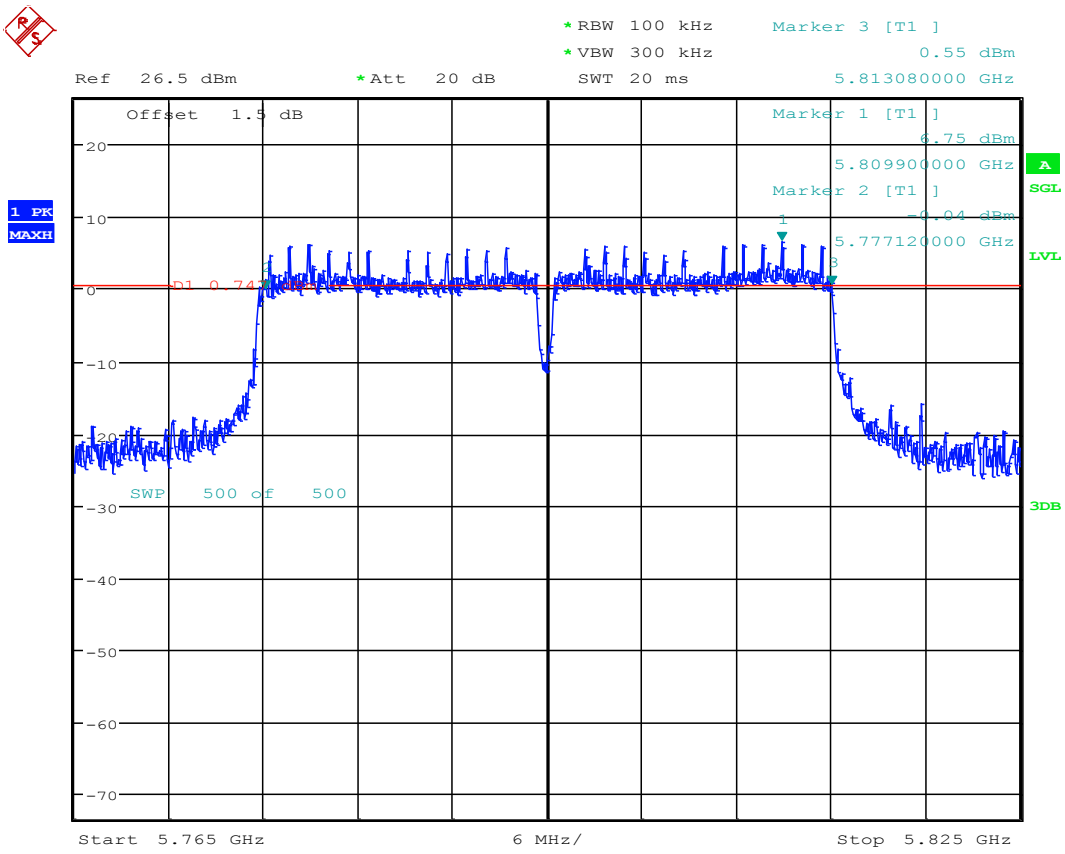
Date: 6.MAR.2018 12:00:16

4.15 11N40_159 ANT 1



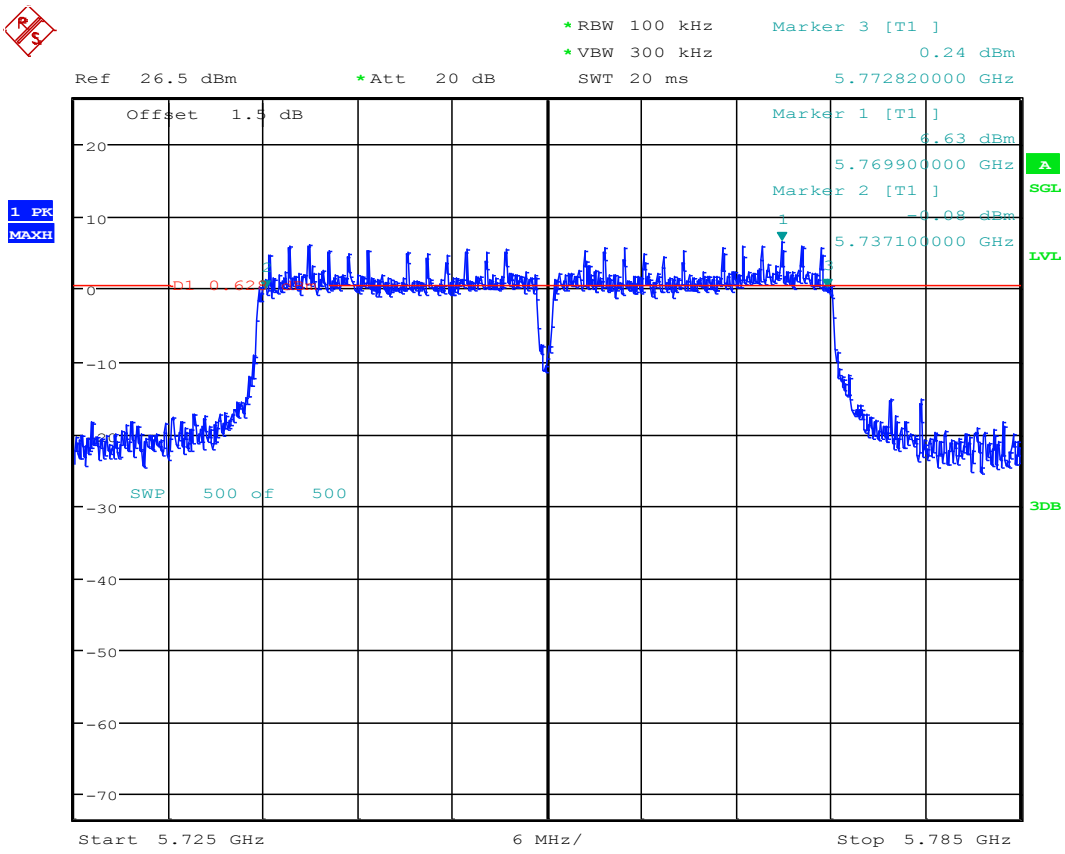
Date: 8.MAR.2018 14:04:06

4.16 11N40_159 ANT 2



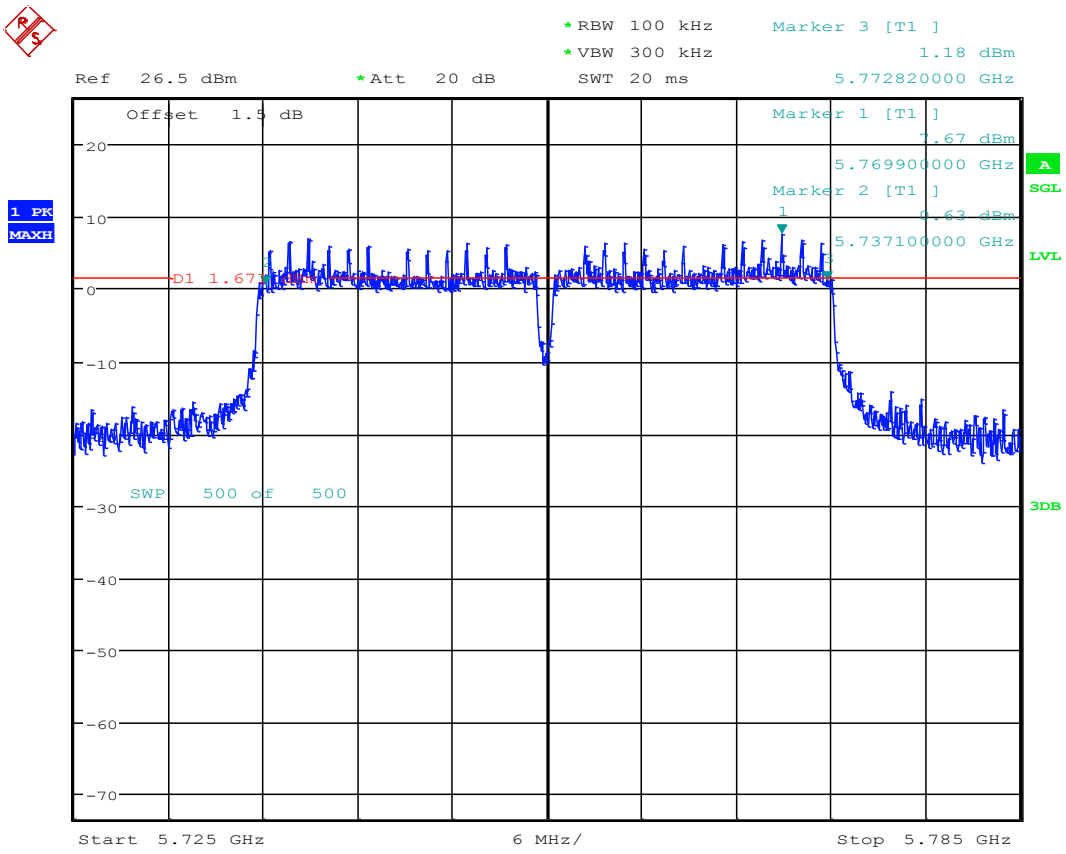
Date: 6.MAR.2018 12:03:24

4.17 11N40MIMO_151 ANT 1



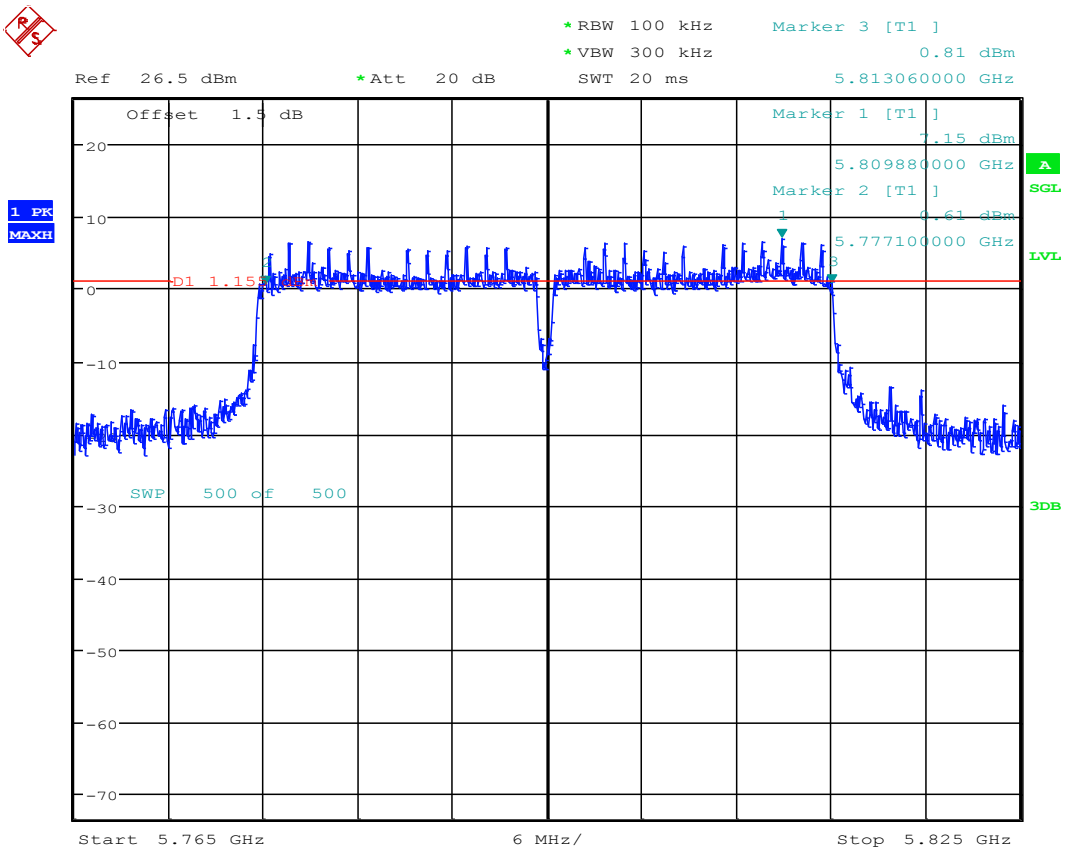
Date: 6.MAR.2018 17:10:29

4.18 11N40MIMO_151 ANT 2



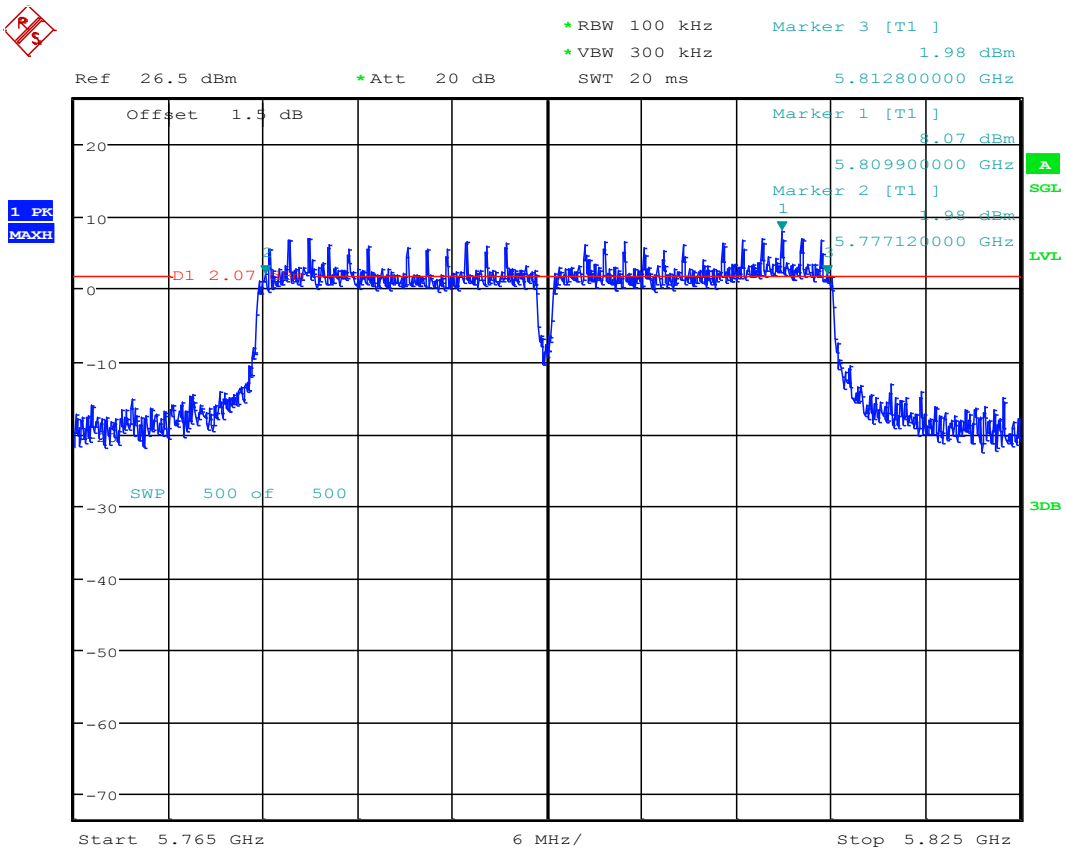
Date: 6.MAR.2018 18:37:57

4.19 11N40MIMO_159 ANT 1



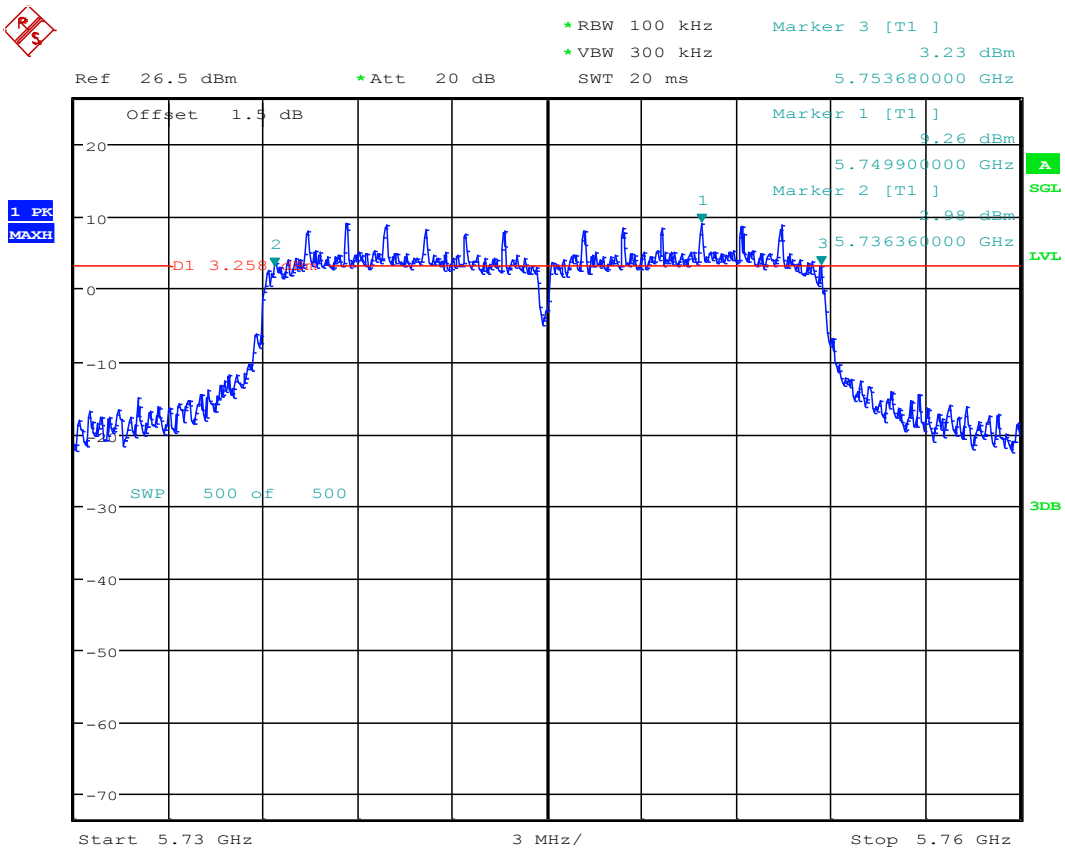
Date: 6.MAR.2018 17:13:37

4.20 11N40MIMO_159 ANT 2

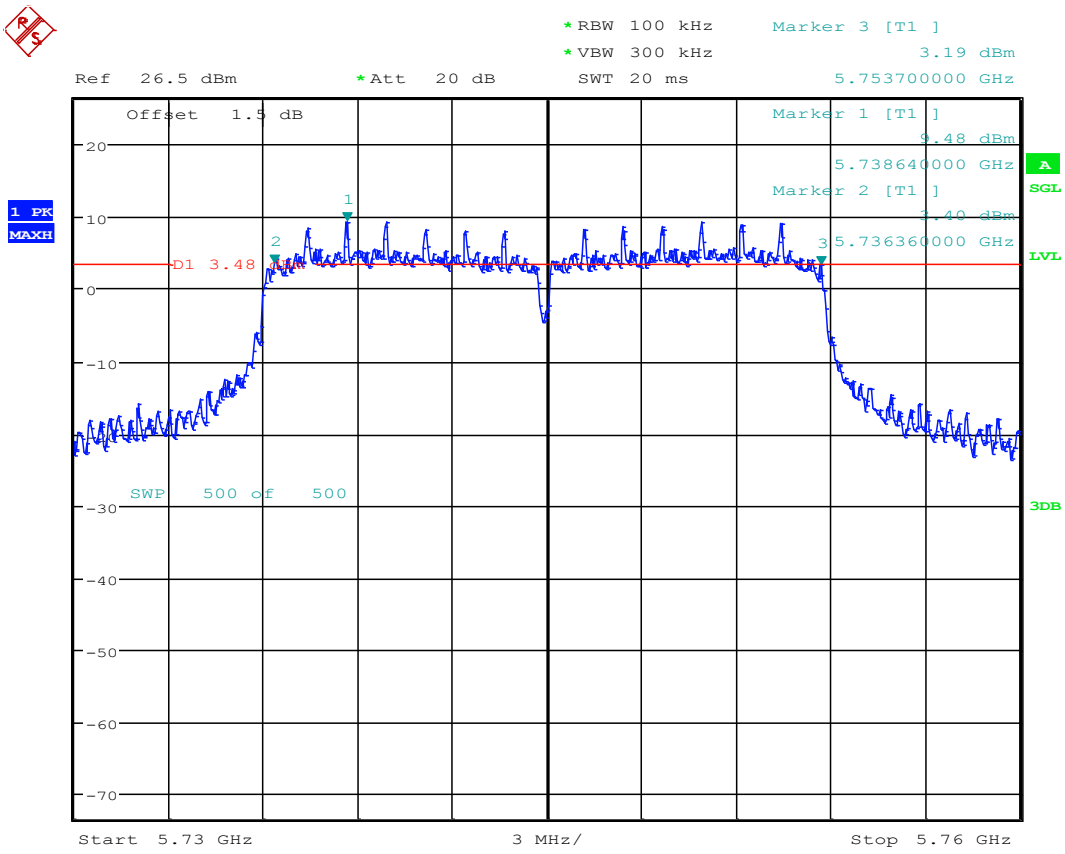


Date: 6.MAR.2018 18:42:24

4.21 11AC20_149 ANT 1

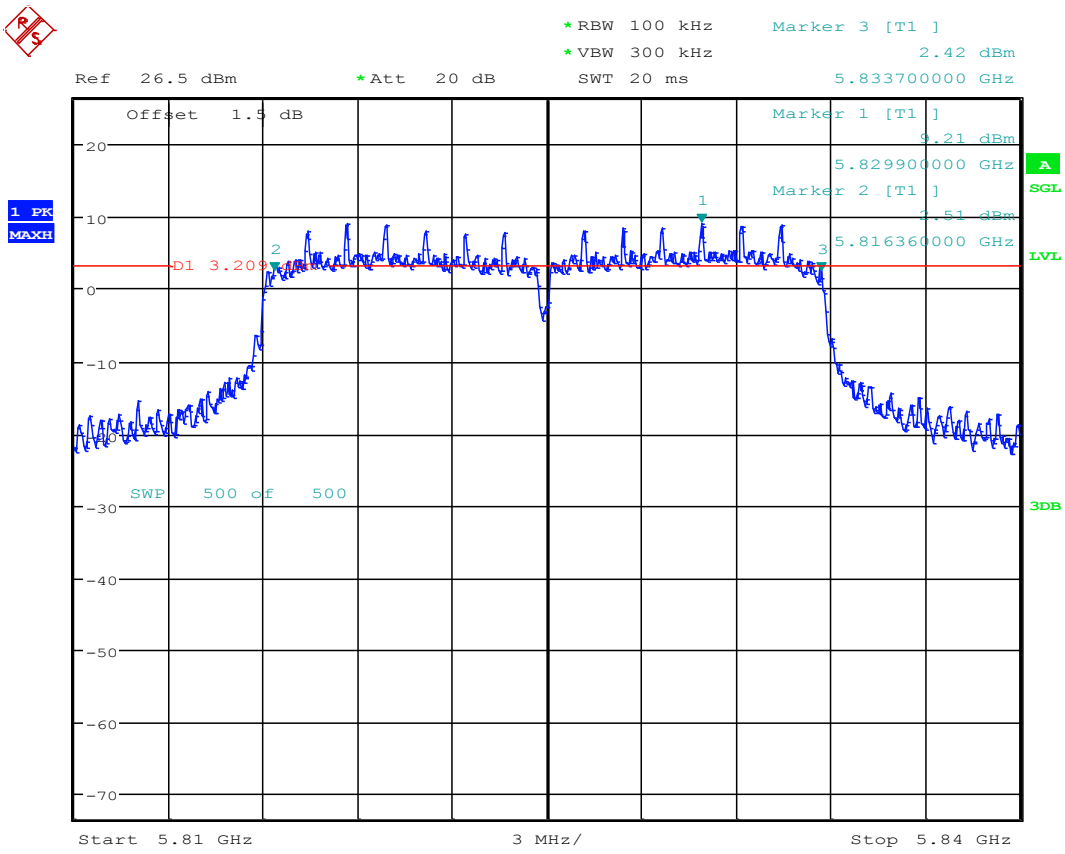


4.22 11AC20_149 ANT 2



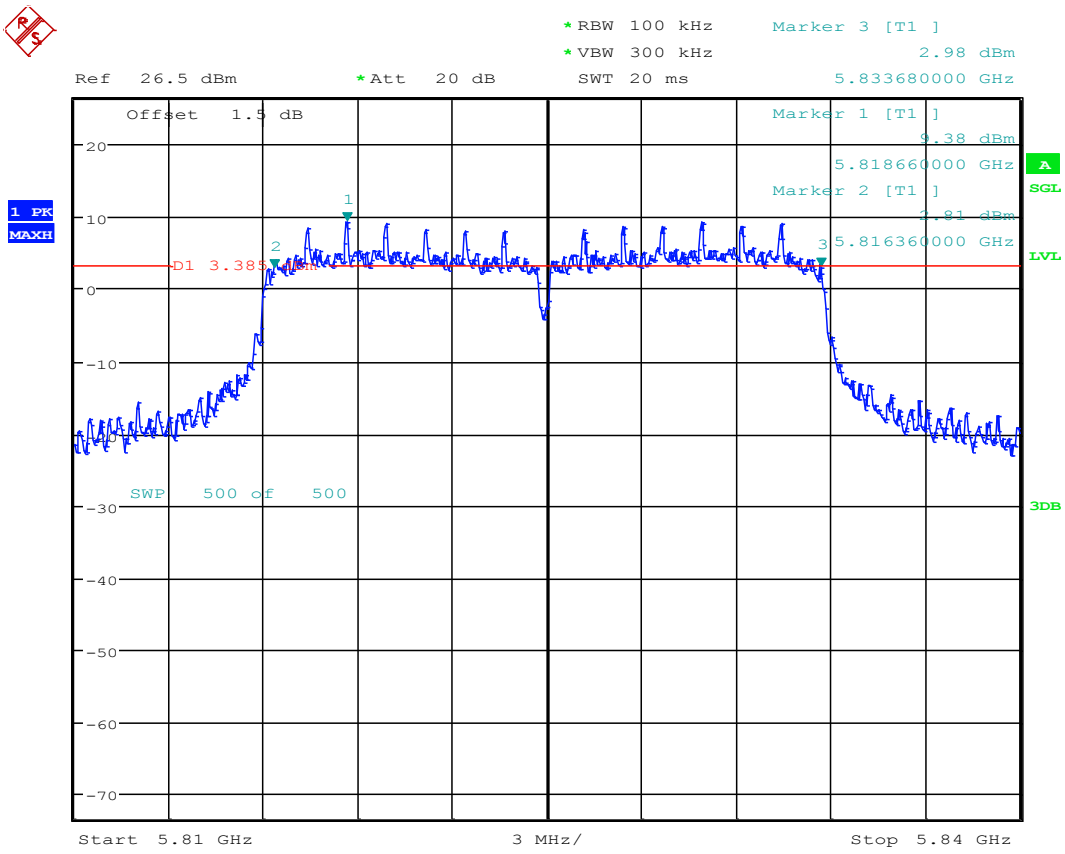
Date: 6.MAR.2018 13:45:18

4.23 11AC20_165 ANT 1

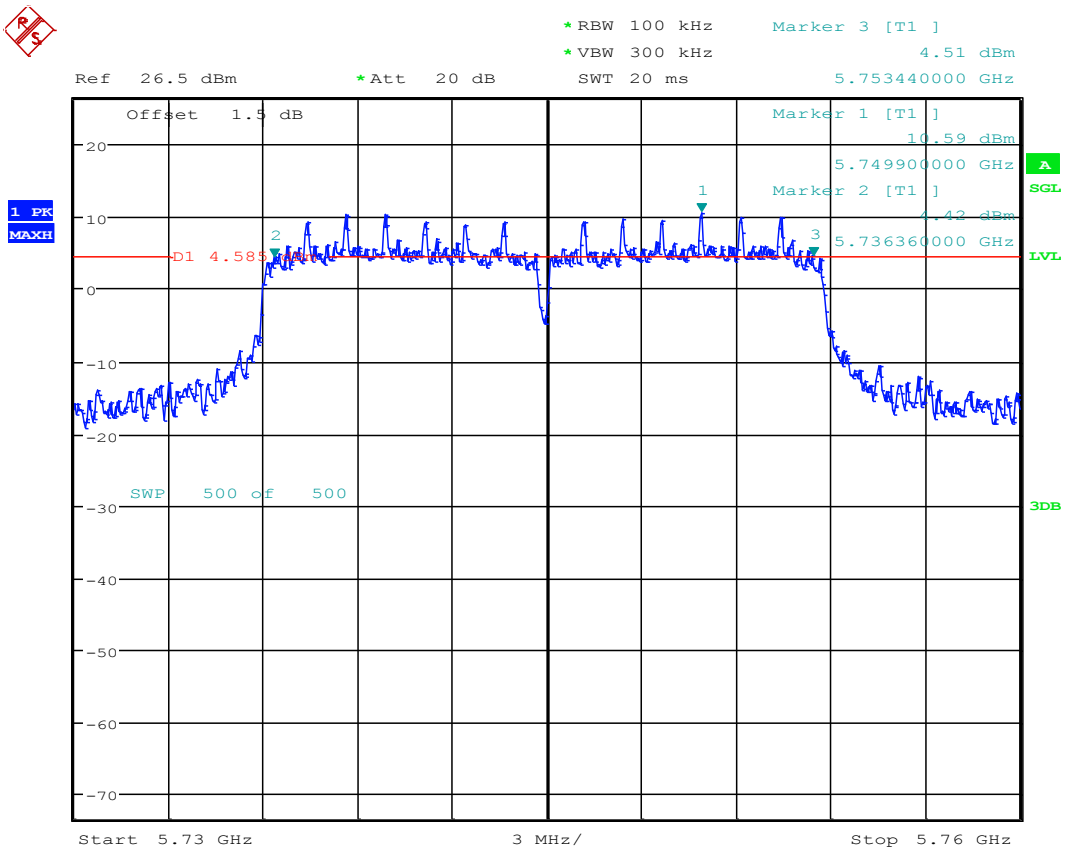


Date: 8.MAR.2018 14:25:30

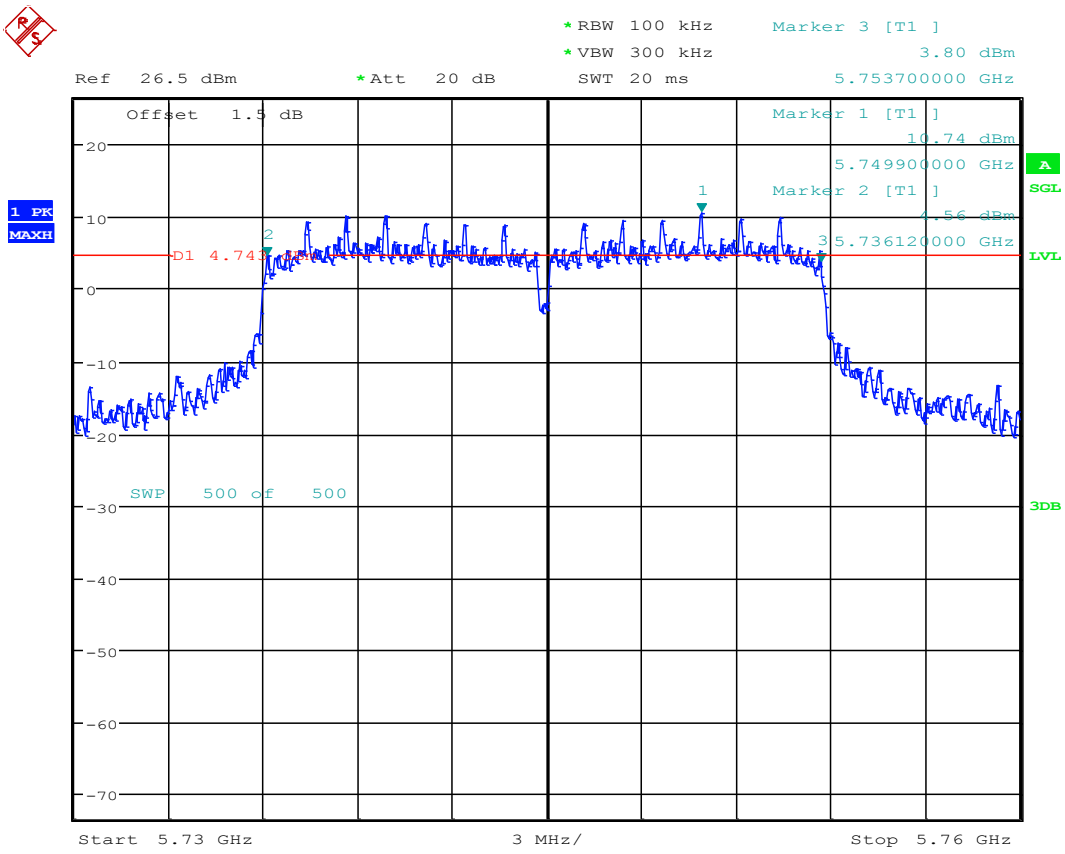
4.24 11AC20_165 ANT 2



4.25 11AC20MIMO_149 ANT 1

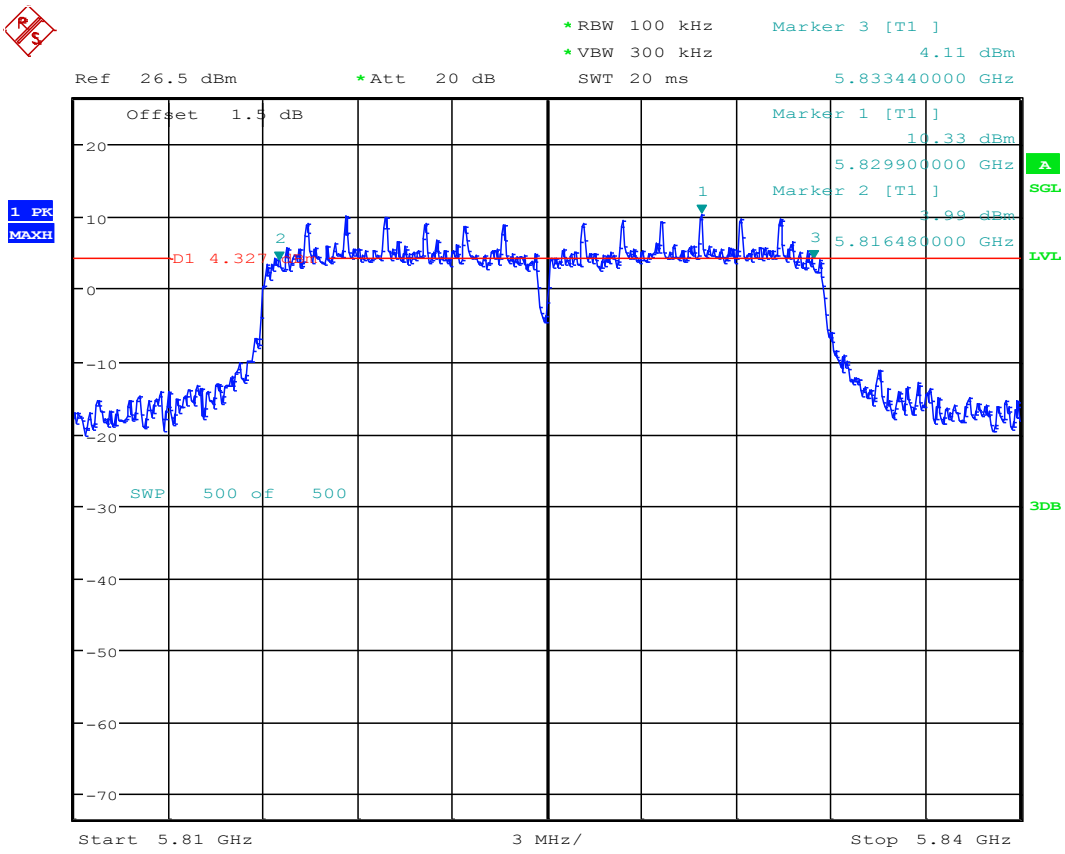


4.26 11AC20MIMO_149 ANT 2



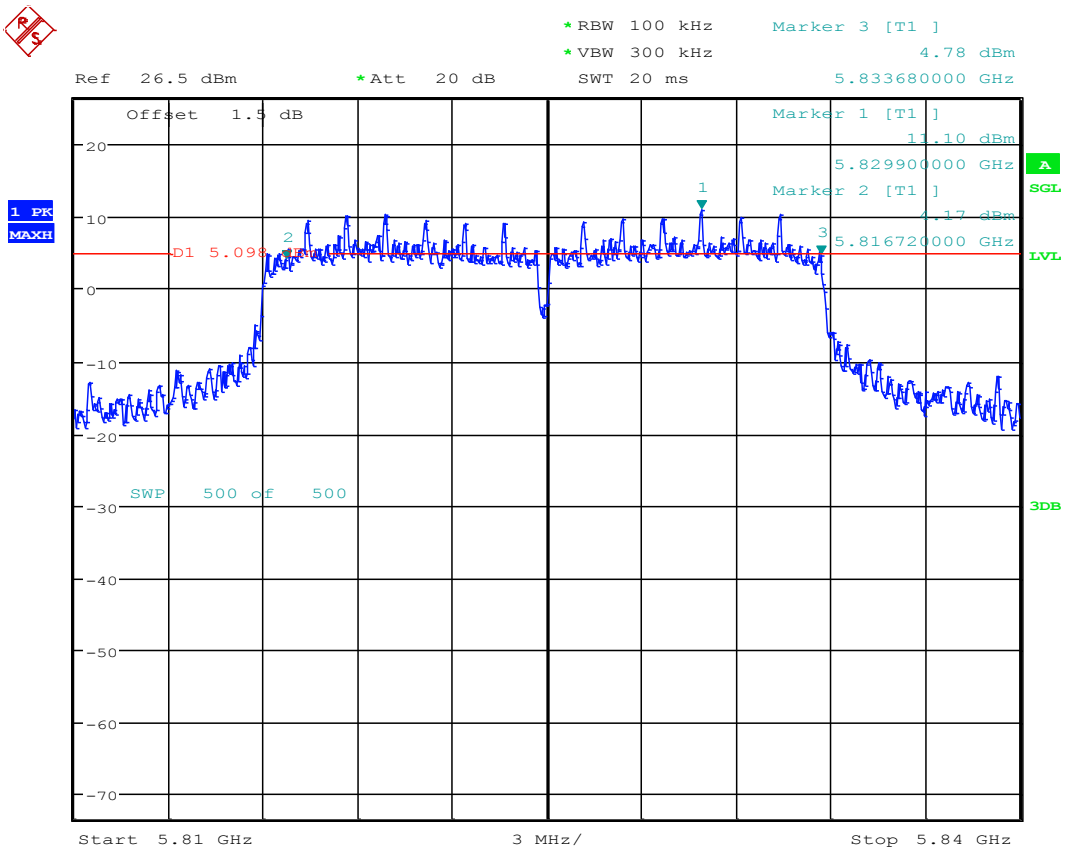
Date: 6.MAR.2018 18:19:19

4.27 11AC20MIMO_165 ANT 1



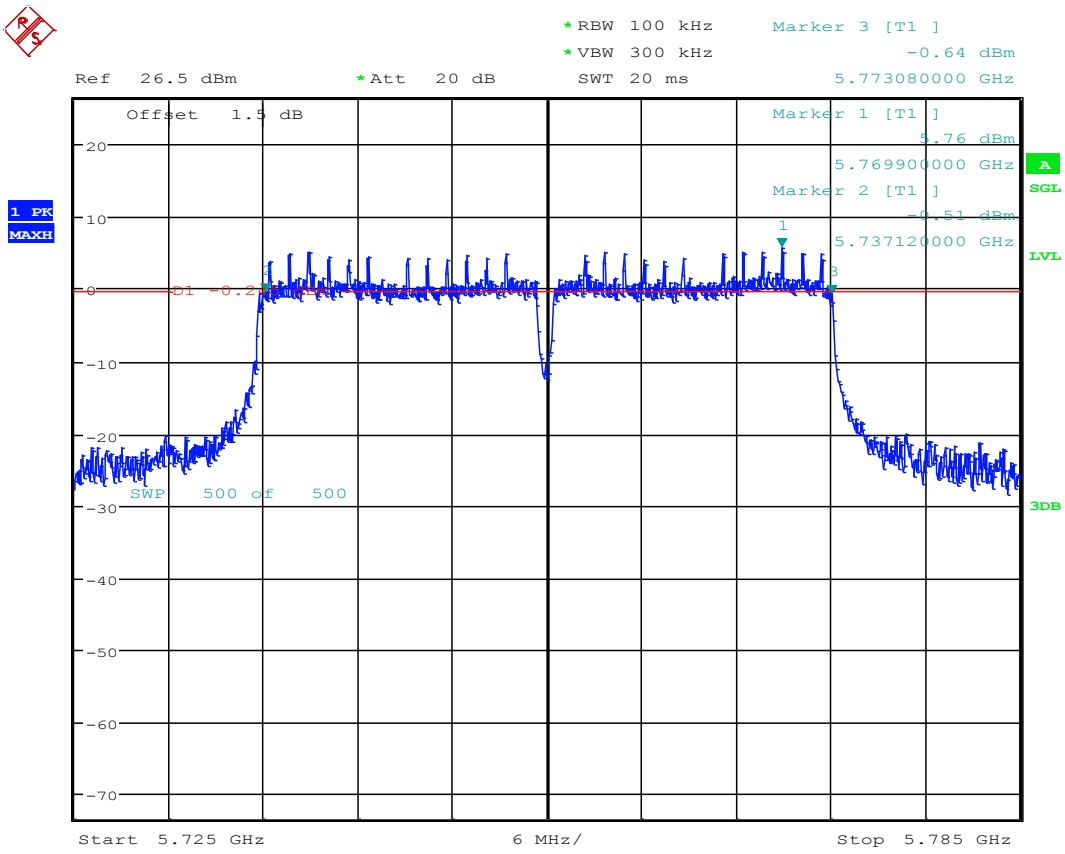
Date: 6.MAR.2018 16:59:06

4.28 11AC20MIMO_165 ANT 2



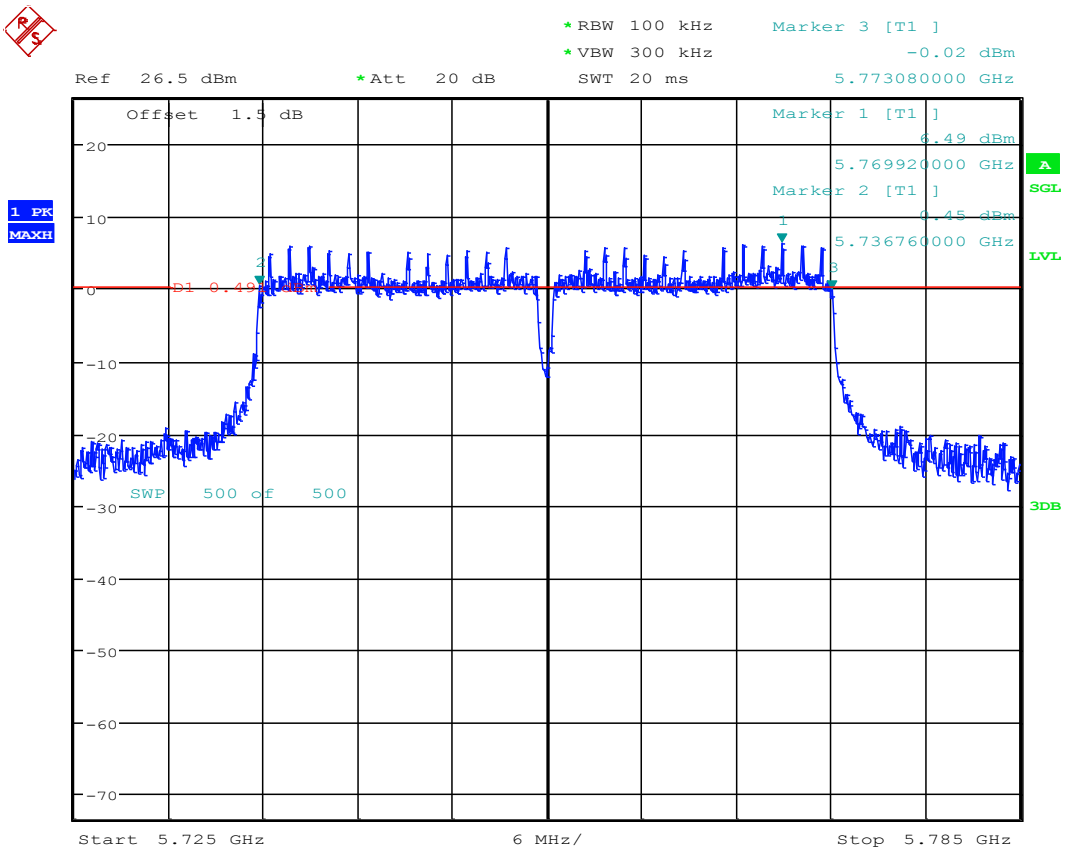
Date: 6.MAR.2018 18:27:27

4.29 11AC40_151 ANT 1



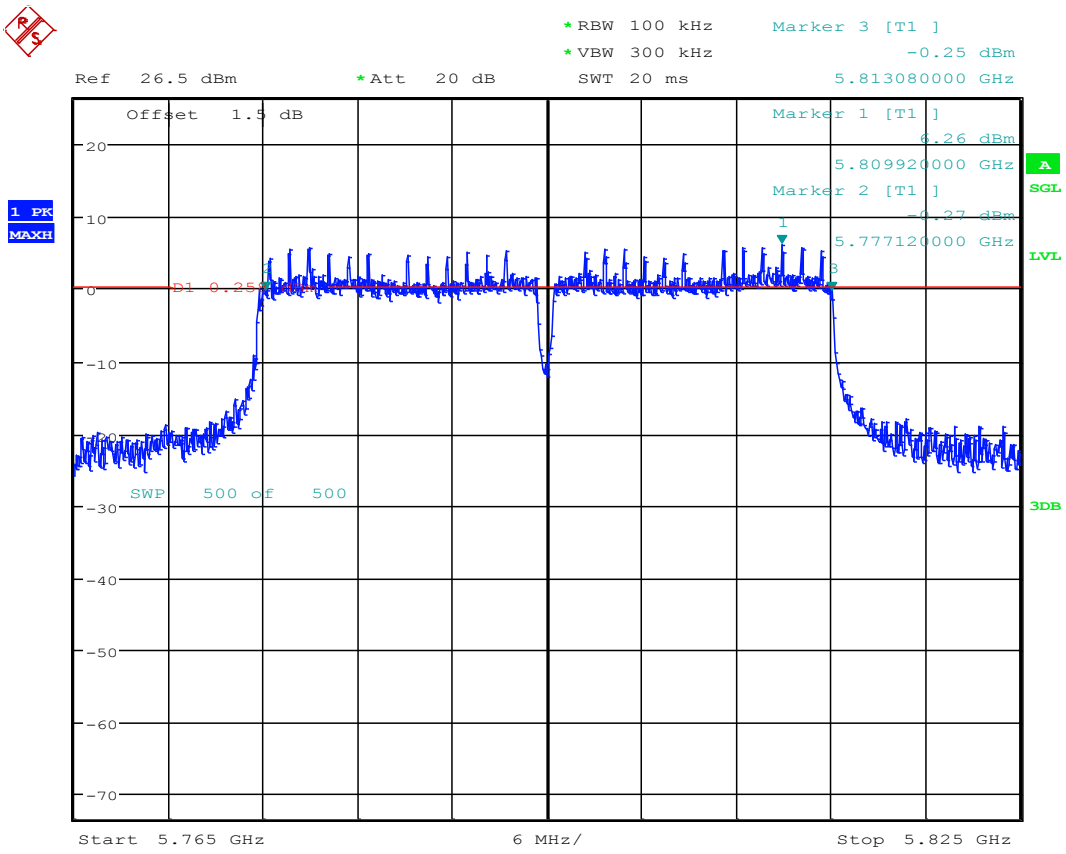
Date: 8.MAR.2018 14:49:37

4.30 11AC40_151 ANT 2



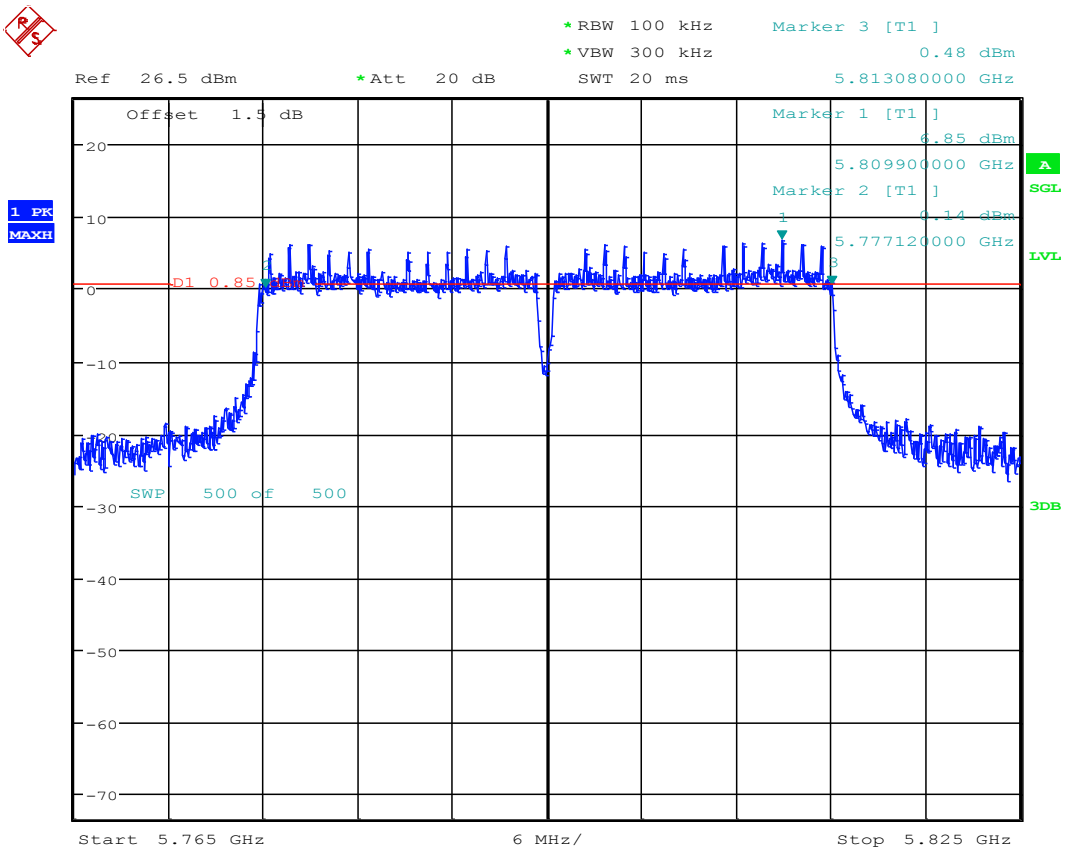
Date: 6.MAR.2018 14:22:03

4.31 11AC40_159 ANT 1



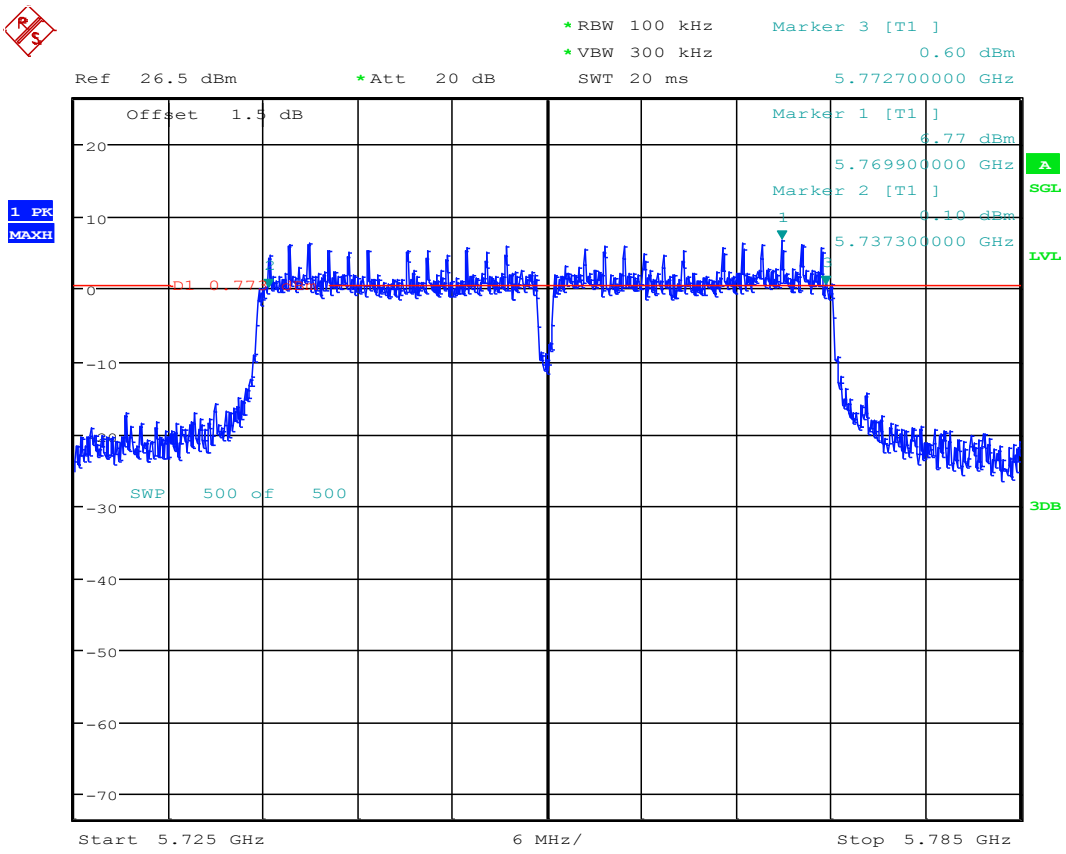
Date: 8.MAR.2018 14:46:10

4.32 11AC40_159 ANT 2



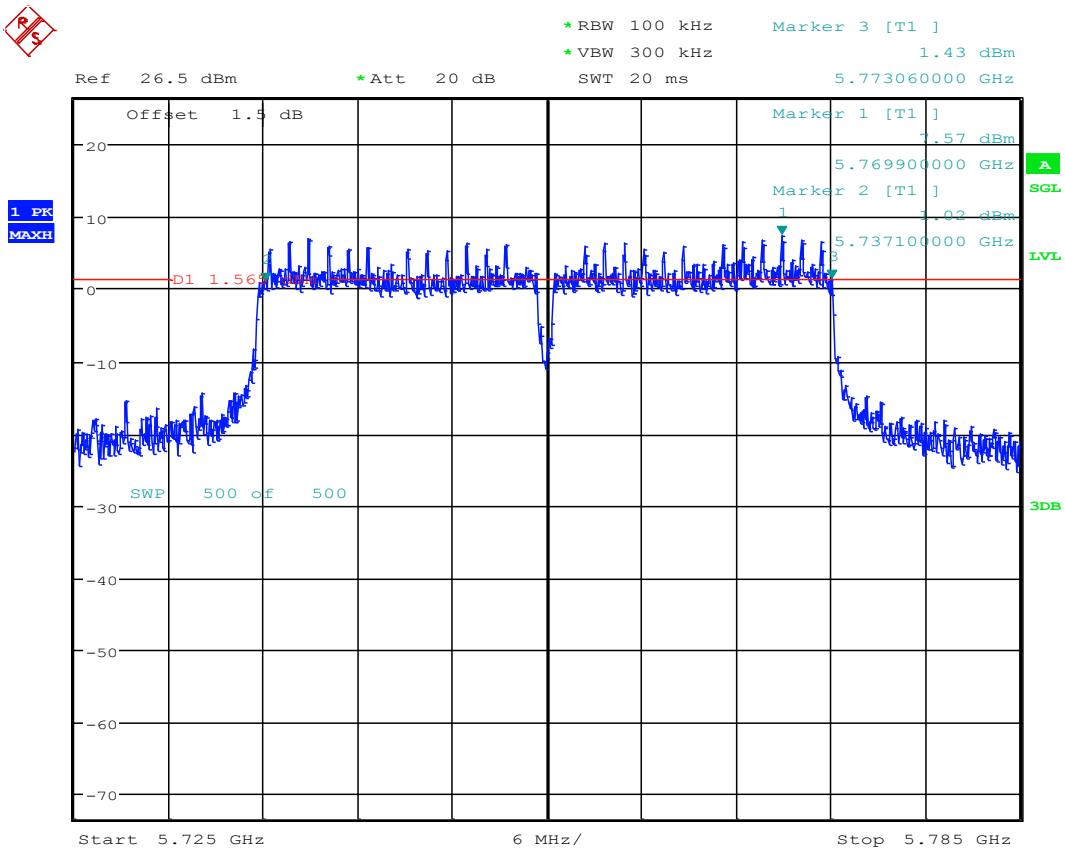
Date: 6.MAR.2018 14:25:18

4.33 11AC40MIMO_151 ANT 1



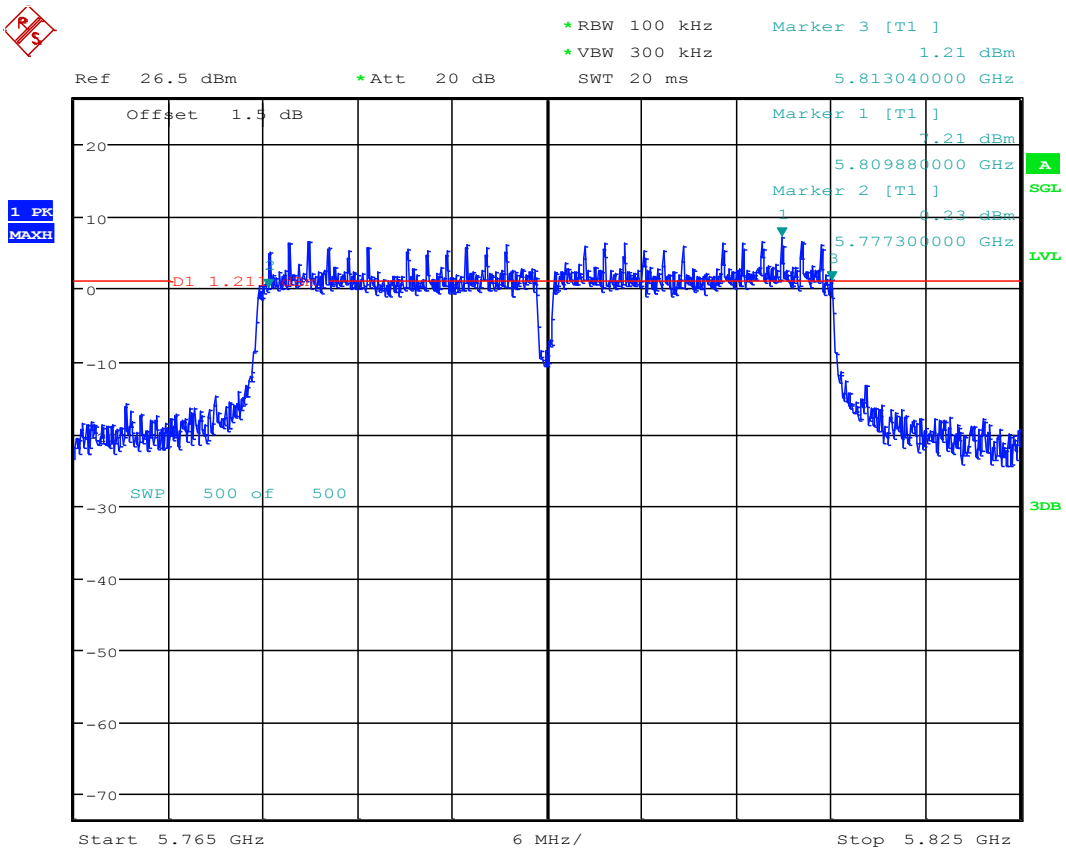
Date: 6.MAR.2018 17:28:56

4.34 11AC40MIMO_151 ANT 2



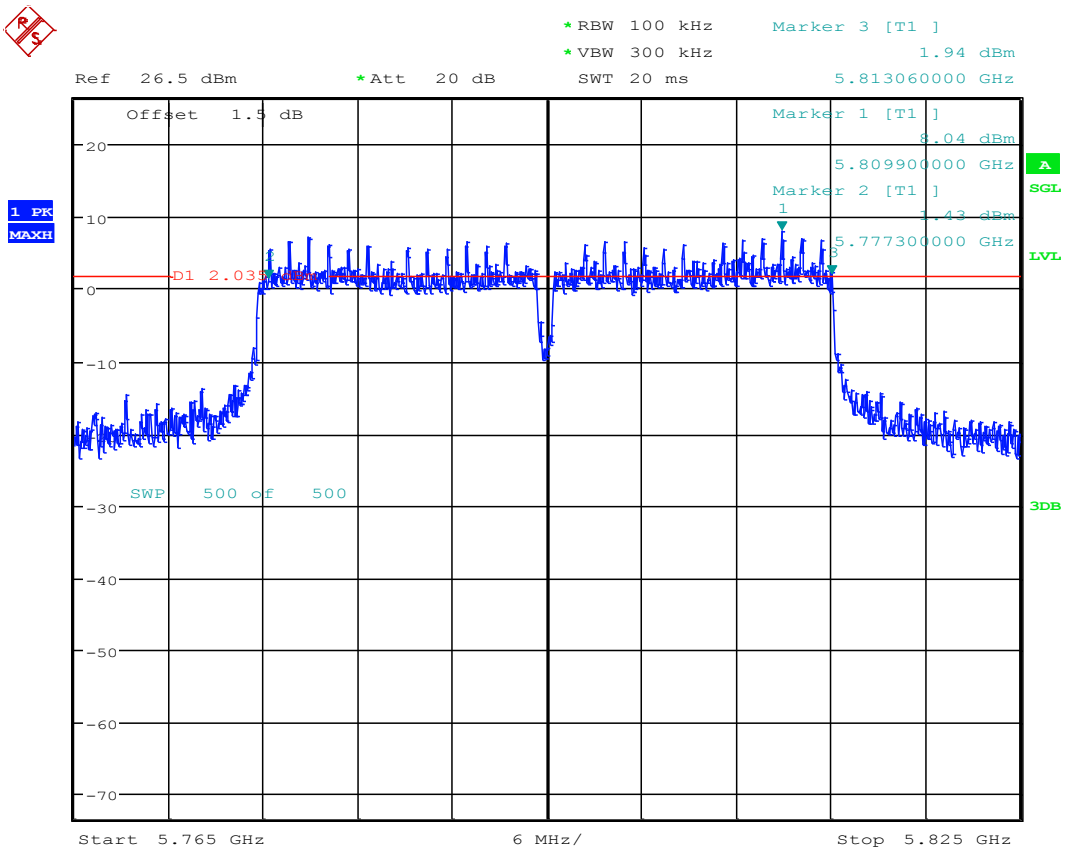
Date: 6.MAR.2018 18:52:07

4.35 11AC40MIMO_159 ANT 1



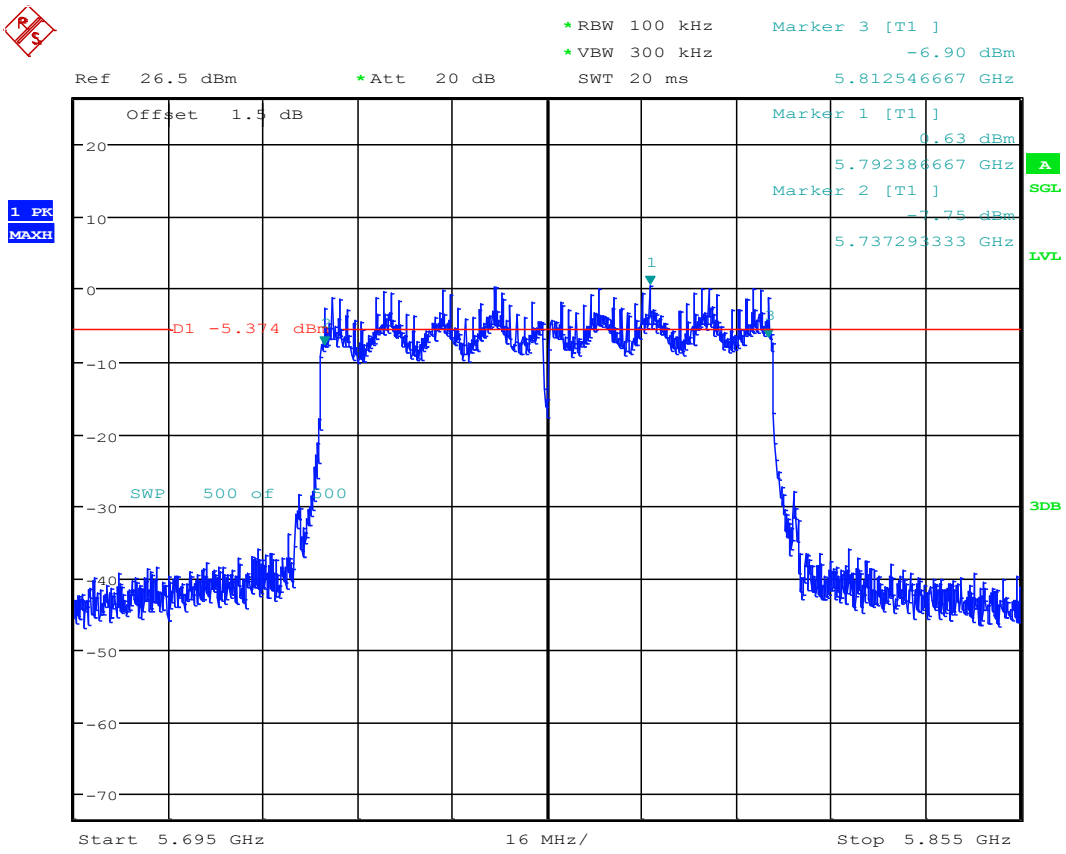
Date: 6.MAR.2018 17:32:13

4.36 11AC40MIMO_159 ANT 2



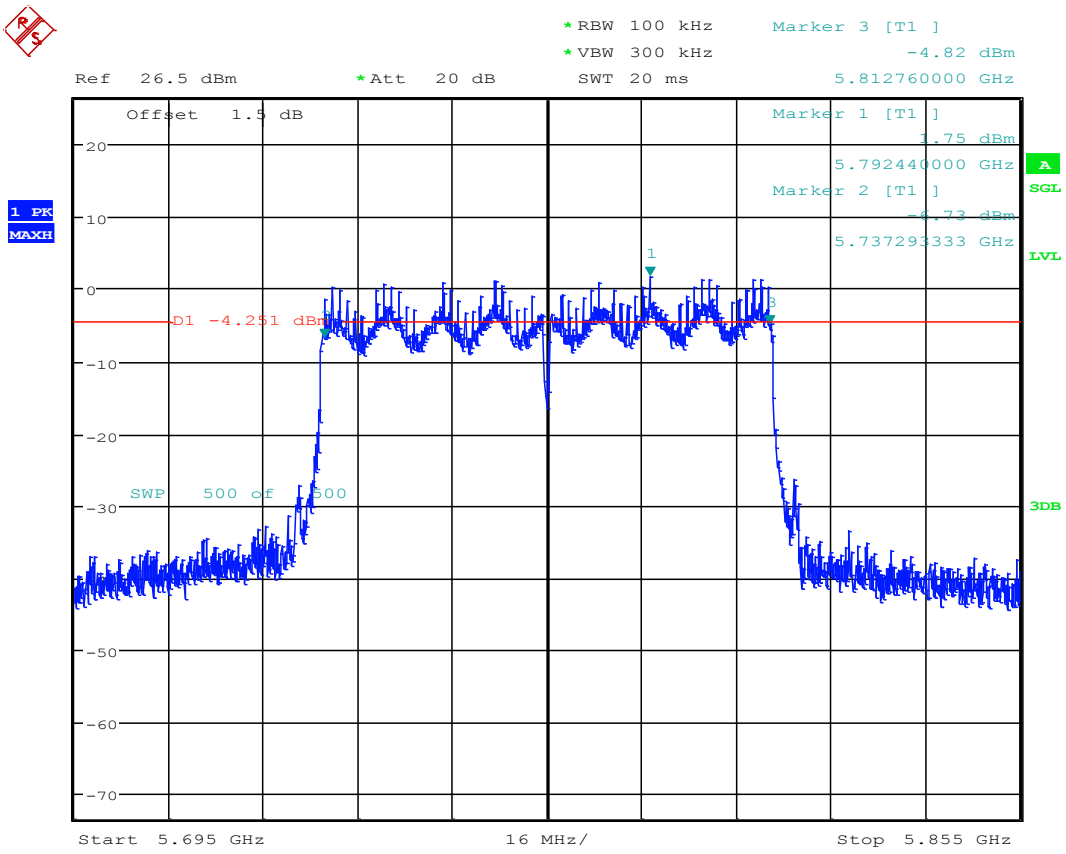
Date: 6.MAR.2018 18:56:38

4.37 11AC80_155 ANT 1

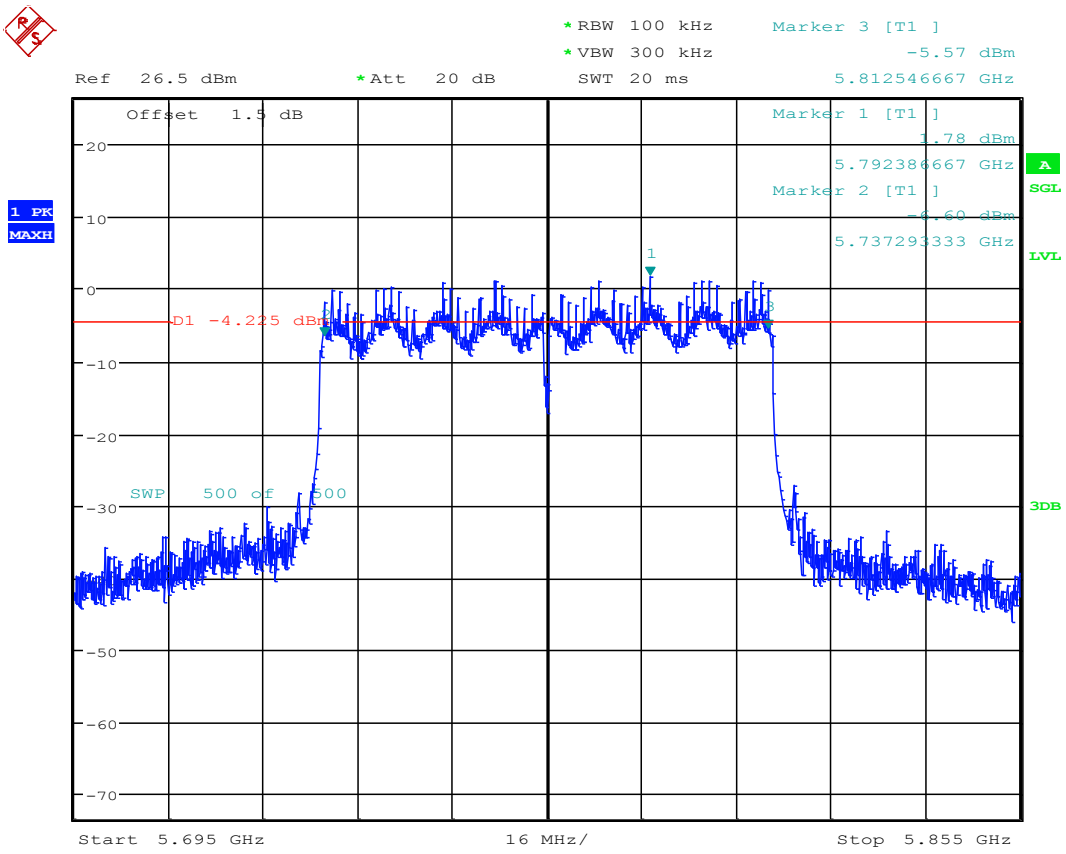


Date: 8.MAR.2018 14:58:58

4.38 11AC80_155 ANT 2

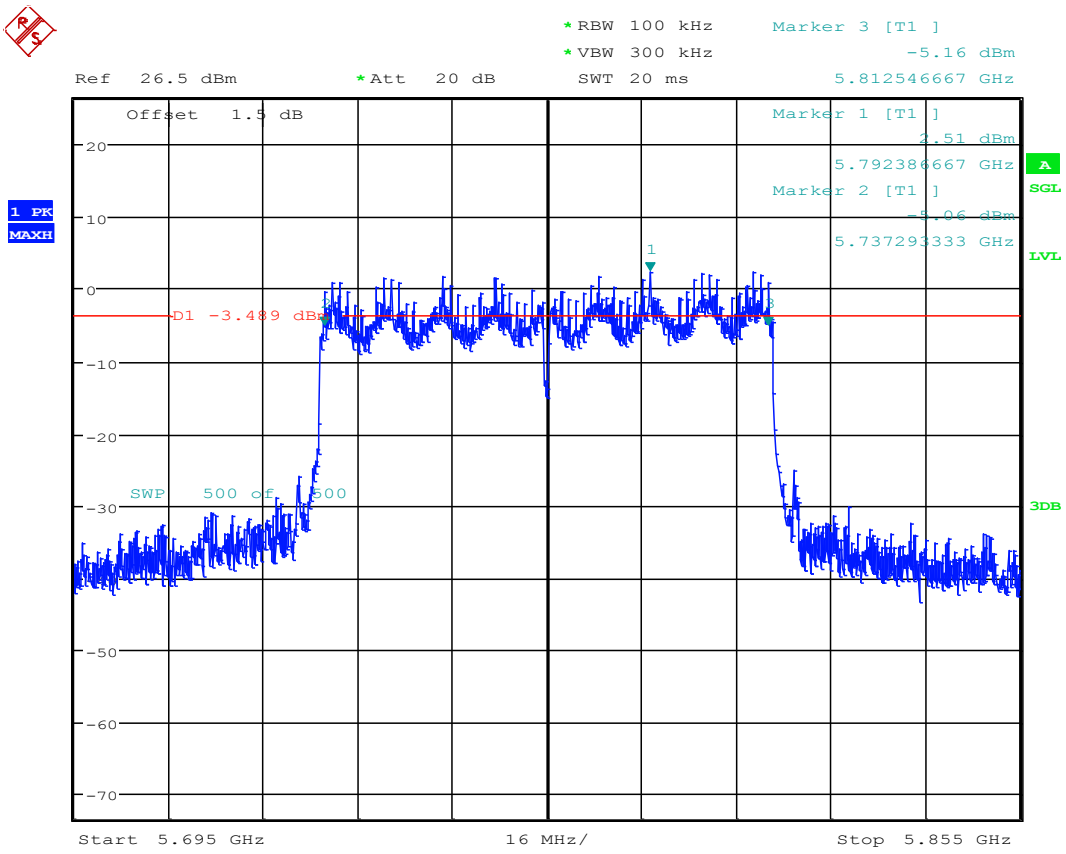


4.39 11AC80MIMO_155 ANT 1



Date: 6.MAR.2018 17:39:58

4.40 11AC80MIMO_155 ANT 2



Date: 6.MAR.2018 17:43:19

Appendix B Occupied Bandwidth (OBW)

5 Result Table

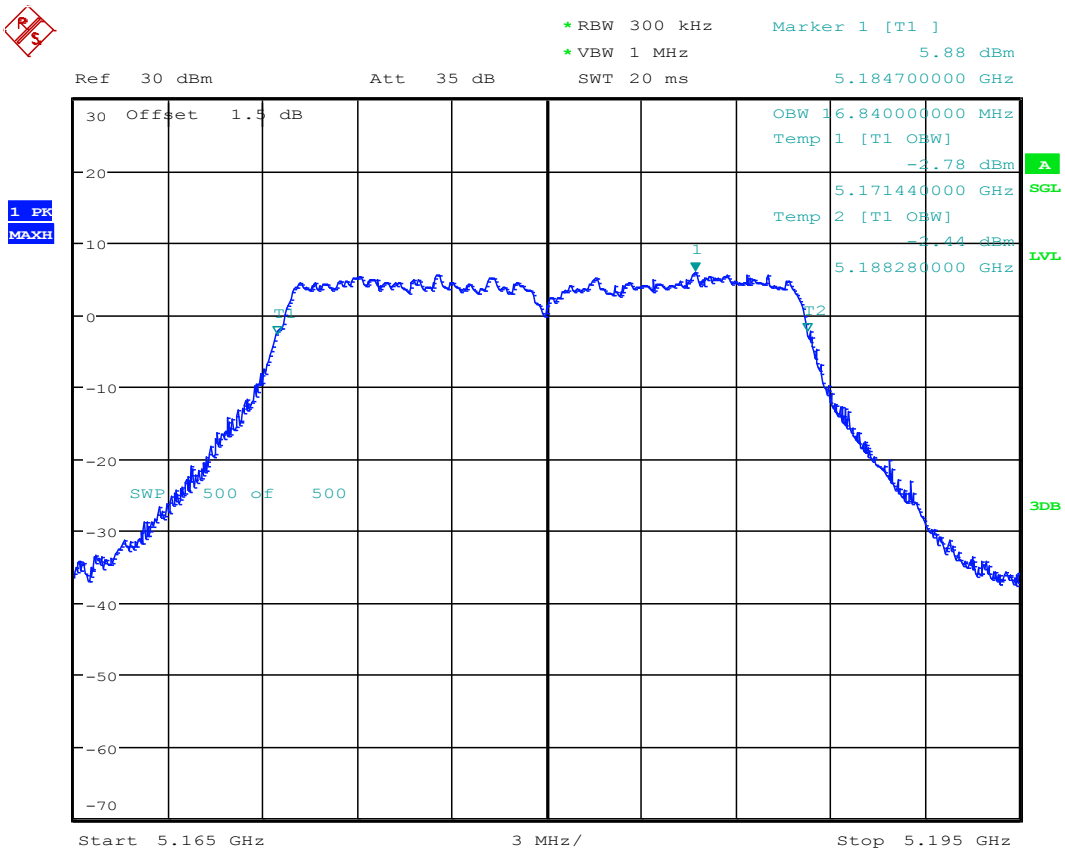
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.84	PASS
	36	5180	ANT 2	16.88	PASS
	48	5240	ANT 1	17.16	PASS
	48	5240	ANT 2	17.08	PASS
	149	5745	ANT 1	17.52	PASS
	149	5745	ANT 2	17.36	PASS
	165	5825	ANT 1	17.44	PASS
	165	5825	ANT 2	17.32	PASS
11N20	36	5180	ANT 1	17.92	PASS
	36	5180	ANT 2	17.94	PASS
	48	5240	ANT 1	18.18	PASS
	48	5240	ANT 2	18.14	PASS
	149	5745	ANT 1	18.4	PASS
	149	5745	ANT 2	18.3	PASS
	165	5825	ANT 1	18.38	PASS
	165	5825	ANT 2	18.3	PASS
11N20MIMO	36	5180	ANT 1	17.92	PASS
	36	5180	ANT 2	17.94	PASS
	48	5240	ANT 1	18.36	PASS
	48	5240	ANT 2	18.36	PASS
	149	5745	ANT 1	19.1	PASS
	149	5745	ANT 2	18.64	PASS
	165	5825	ANT 1	18.76	PASS
	165	5825	ANT 2	18.74	PASS
11N40	38	5190	ANT 1	36.64	PASS
	38	5190	ANT 2	36.7	PASS
	46	5230	ANT 1	36.82	PASS
	46	5230	ANT 2	36.92	PASS
	151	5755	ANT 1	36.88	PASS
	151	5755	ANT 2	37.12	PASS
	159	5795	ANT 1	37.16	PASS
	159	5795	ANT 2	37.16	PASS
11N40MIMO	38	5190	ANT 1	36.66	PASS
	38	5190	ANT 2	36.7	PASS

	46	5230	ANT 1	37.08	PASS
	46	5230	ANT 2	37.24	PASS
	151	5755	ANT 1	37.3	PASS
	151	5755	ANT 2	37.58	PASS
	159	5795	ANT 1	37.56	PASS
	159	5795	ANT 2	37.84	PASS
11AC20	36	5180	ANT 1	17.98	PASS
	36	5180	ANT 2	18	PASS
	48	5240	ANT 1	18.16	PASS
	48	5240	ANT 2	18.18	PASS
	149	5745	ANT 1	18.36	PASS
	149	5745	ANT 2	18.3	PASS
	165	5825	ANT 1	18.34	PASS
	165	5825	ANT 2	18.3	PASS
11AC20MIMO	36	5180	ANT 1	17.9	PASS
	36	5180	ANT 2	17.76	PASS
	48	5240	ANT 1	18.14	PASS
	48	5240	ANT 2	18.08	PASS
	149	5745	ANT 1	18.9	PASS
	149	5745	ANT 2	18.4	PASS
	165	5825	ANT 1	18.32	PASS
	165	5825	ANT 2	18.5	PASS
11AC40	38	5190	ANT 1	36.56	PASS
	38	5190	ANT 2	36.62	PASS
	46	5230	ANT 1	36.68	PASS
	46	5230	ANT 2	36.78	PASS
	151	5755	ANT 1	36.9	PASS
	151	5755	ANT 2	36.98	PASS
	159	5795	ANT 1	37.18	PASS
	159	5795	ANT 2	37.04	PASS
11AC40MIMO	38	5190	ANT 1	36.56	PASS
	38	5190	ANT 2	36.4	PASS
	46	5230	ANT 1	36.98	PASS
	46	5230	ANT 2	36.64	PASS
	151	5755	ANT 1	37.1	PASS
	151	5755	ANT 2	36.86	PASS
	159	5795	ANT 1	37.24	PASS
	159	5795	ANT 2	36.96	PASS
11AC80	42	5210	ANT 1	75.56	PASS
	42	5210	ANT 2	75.64	PASS
	155	5775	ANT 1	75.68	PASS

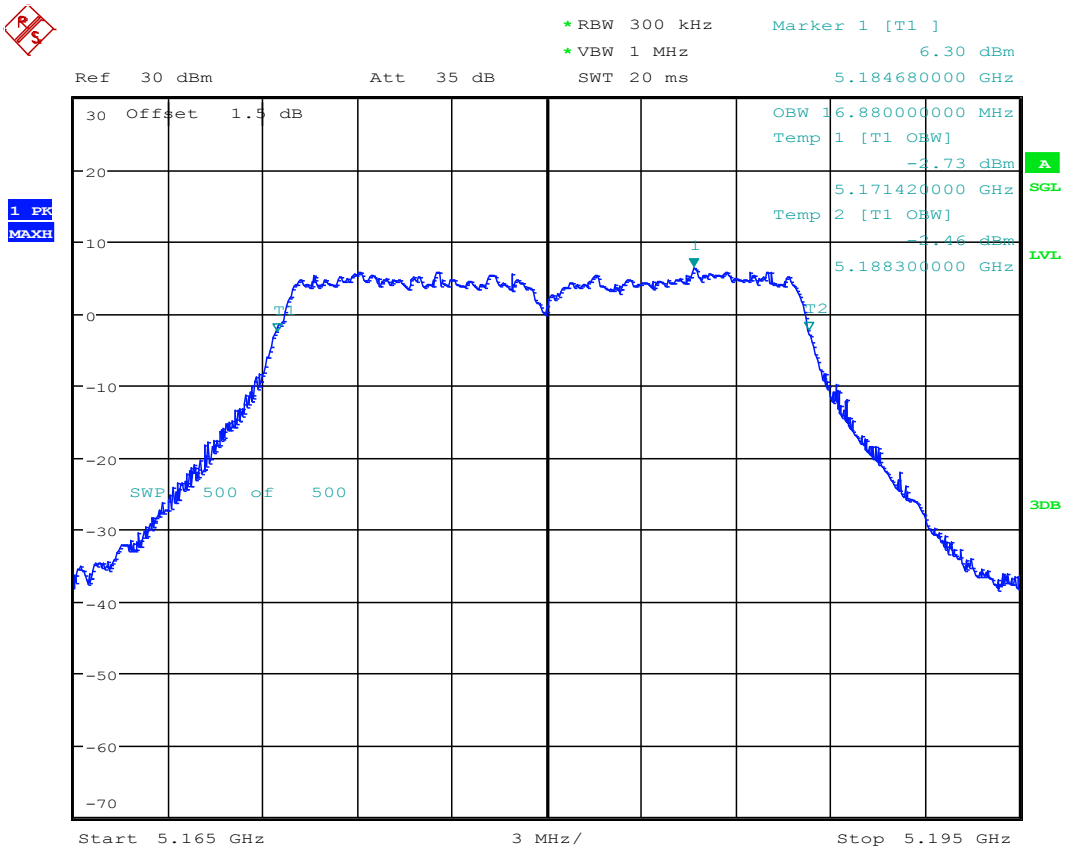
	155	5775	ANT 2	75.72	PASS
11AC80MIMO	42	5210	ANT 1	75.76	PASS
	42	5210	ANT 2	75.84	PASS
	155	5775	ANT 1	75.92	PASS
	155	5775	ANT 2	75.92	PASS

6 Test Plot

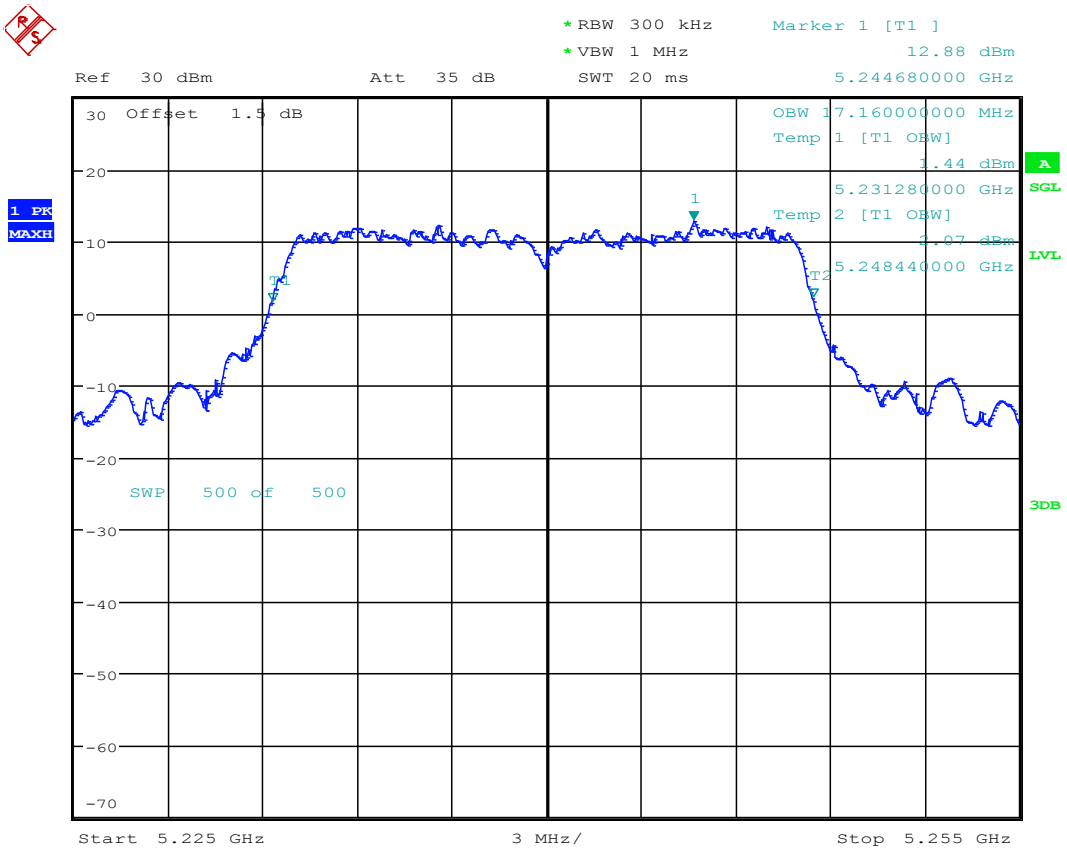
6.1 11A20_36 ANT 1



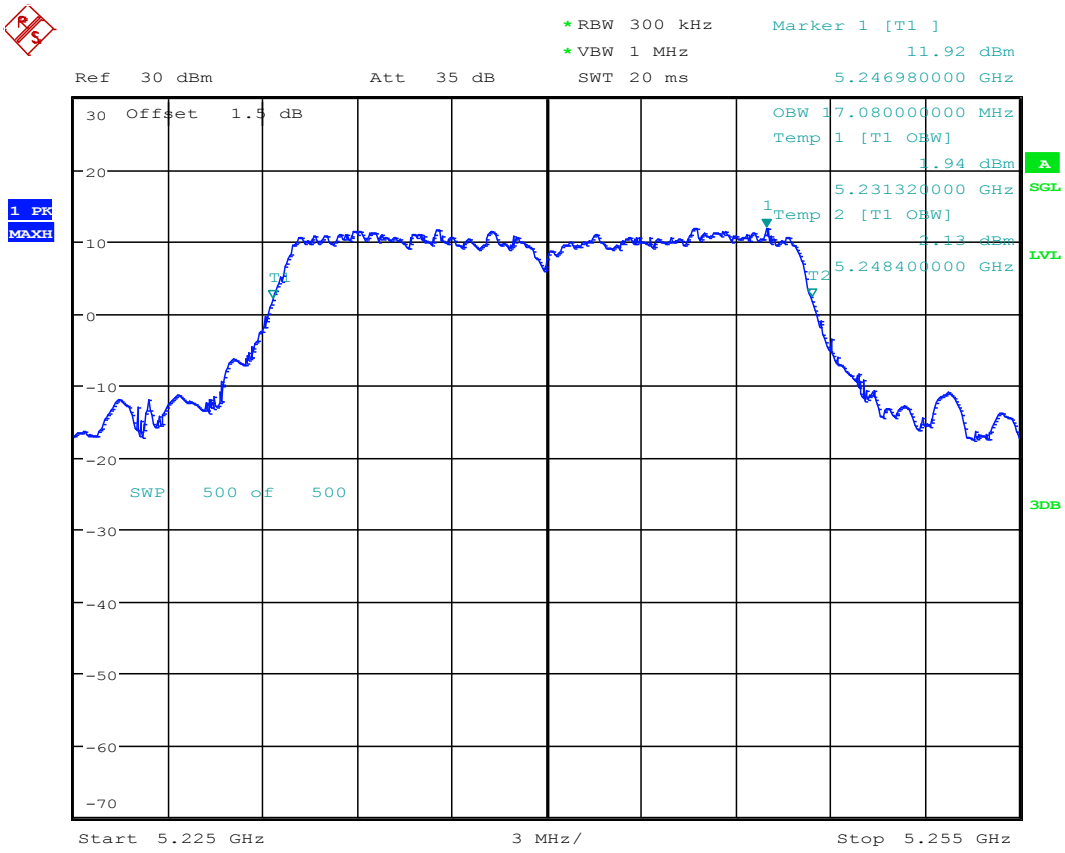
6.2 11A20_36 ANT 2



6.3 11A20_48 ANT 1

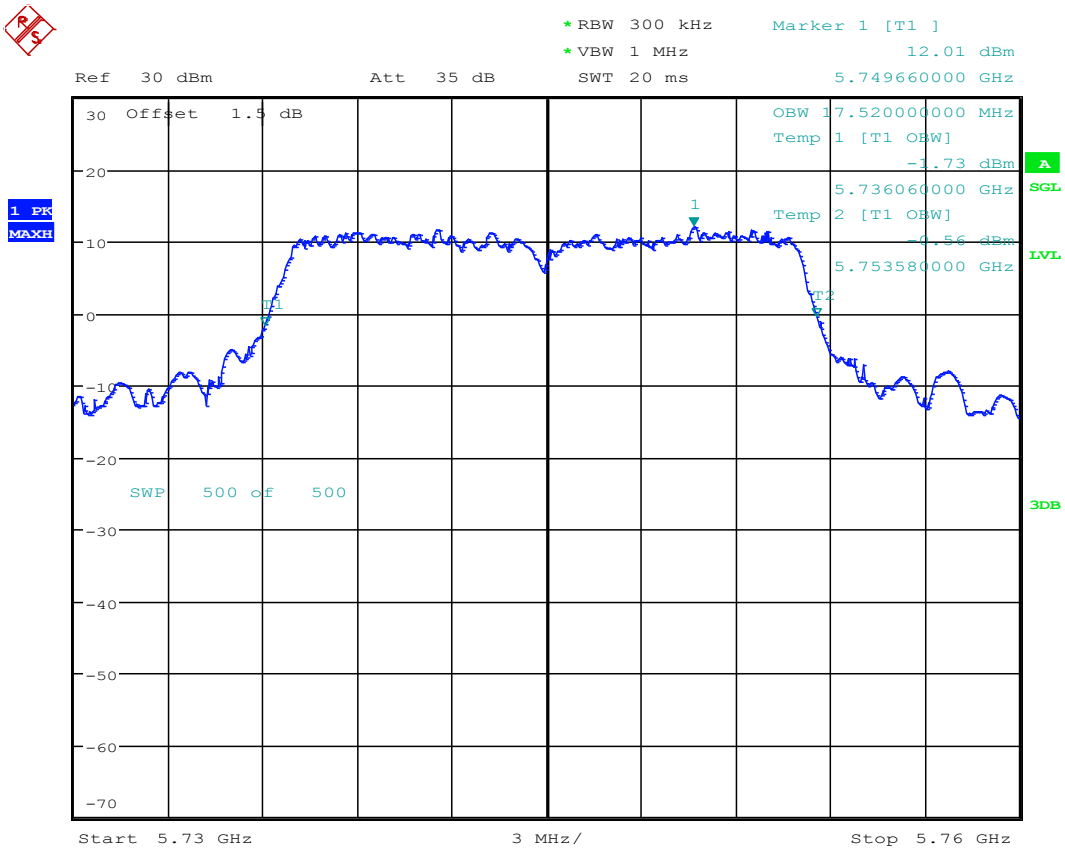


6.4 11A20_48 ANT 2

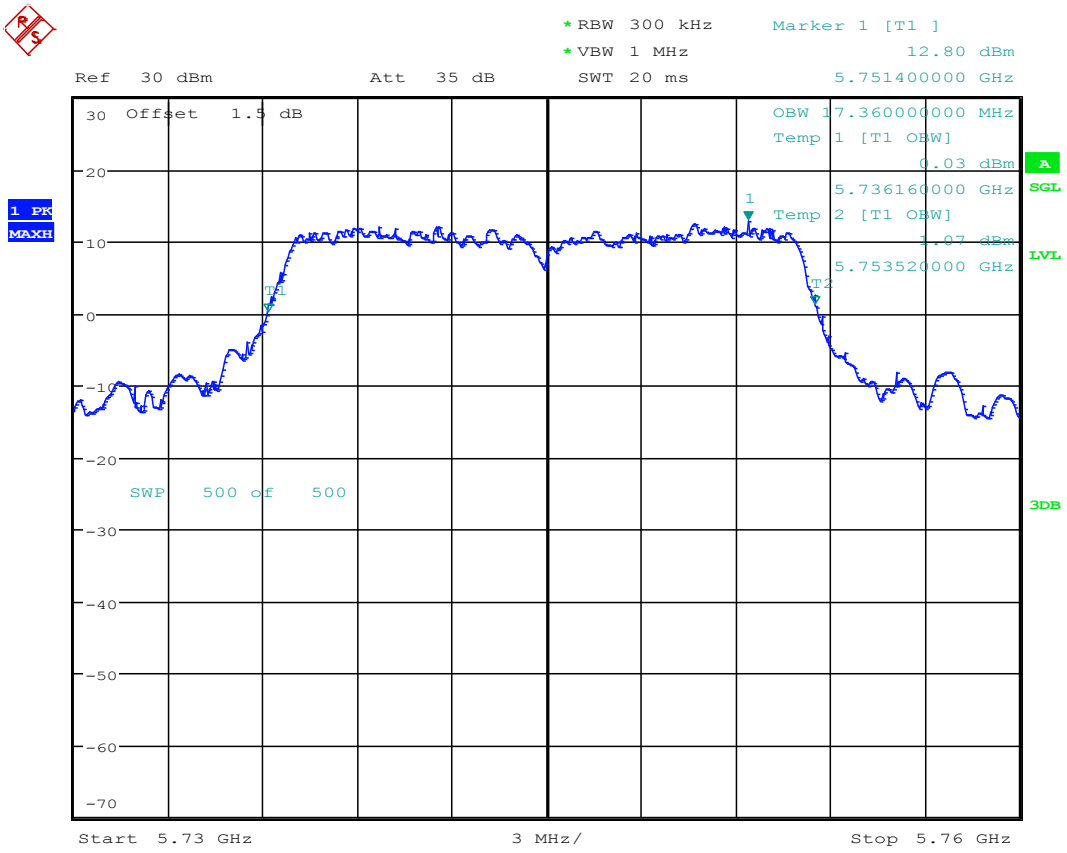


Date: 6.MAR.2018 11:13:21

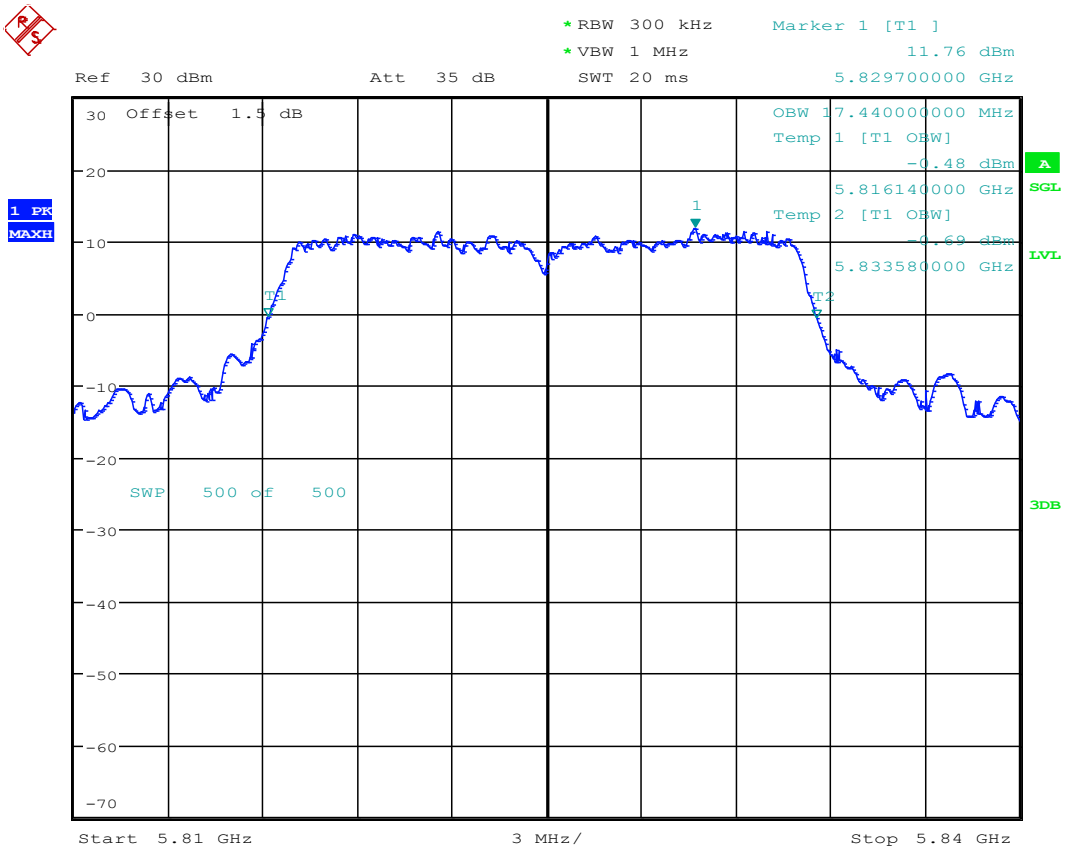
6.5 11A20_149 ANT 1



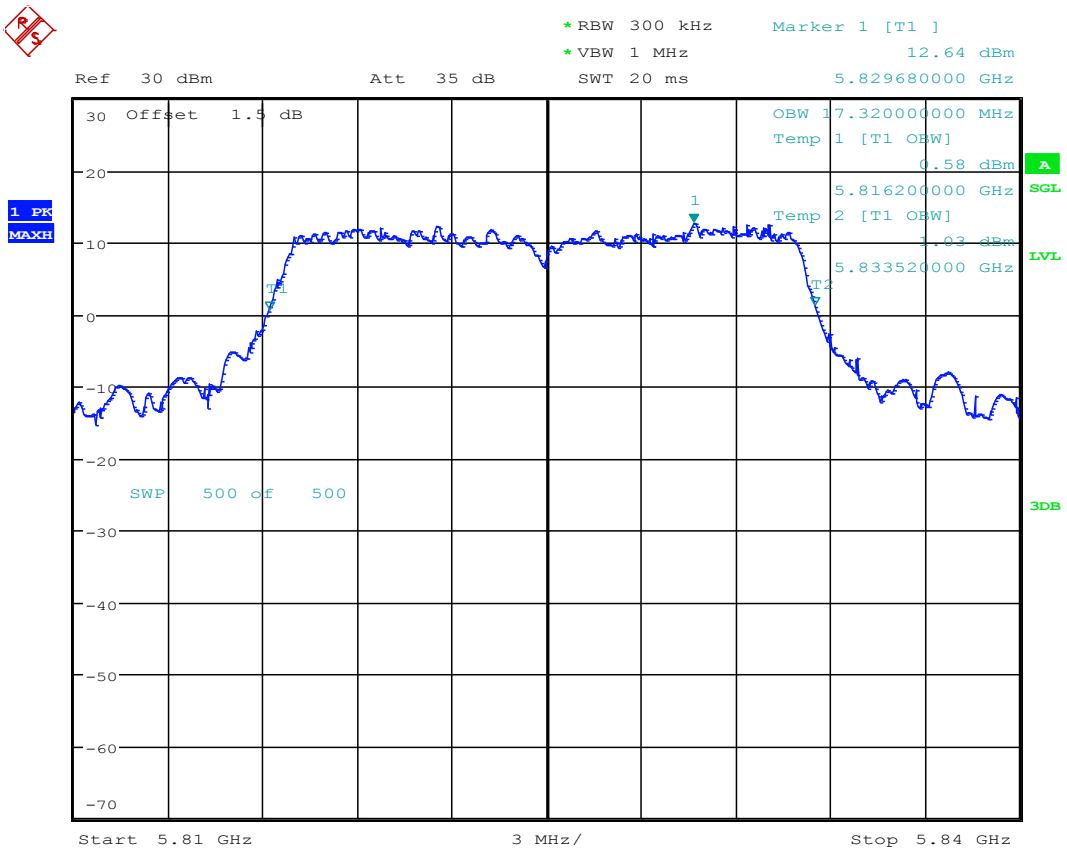
6.6 11A20_149 ANT 2



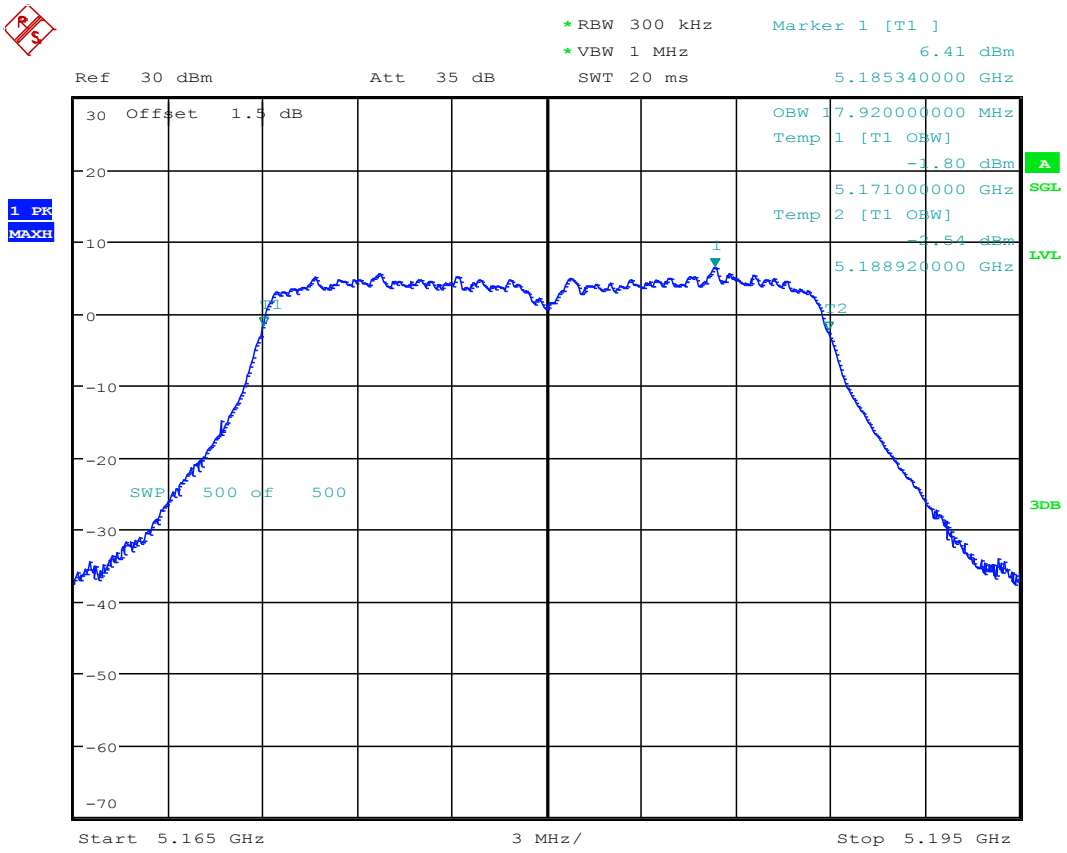
6.7 11A20_165 ANT 1



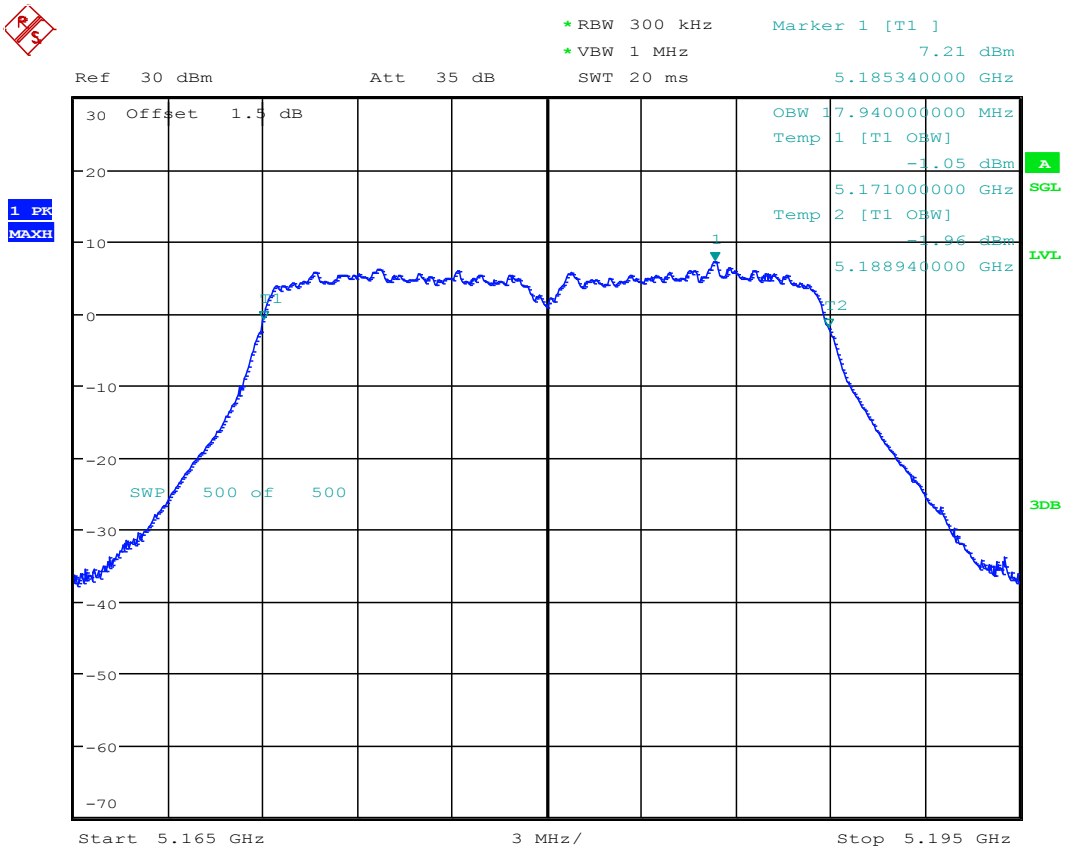
6.8 11A20_165 ANT 2



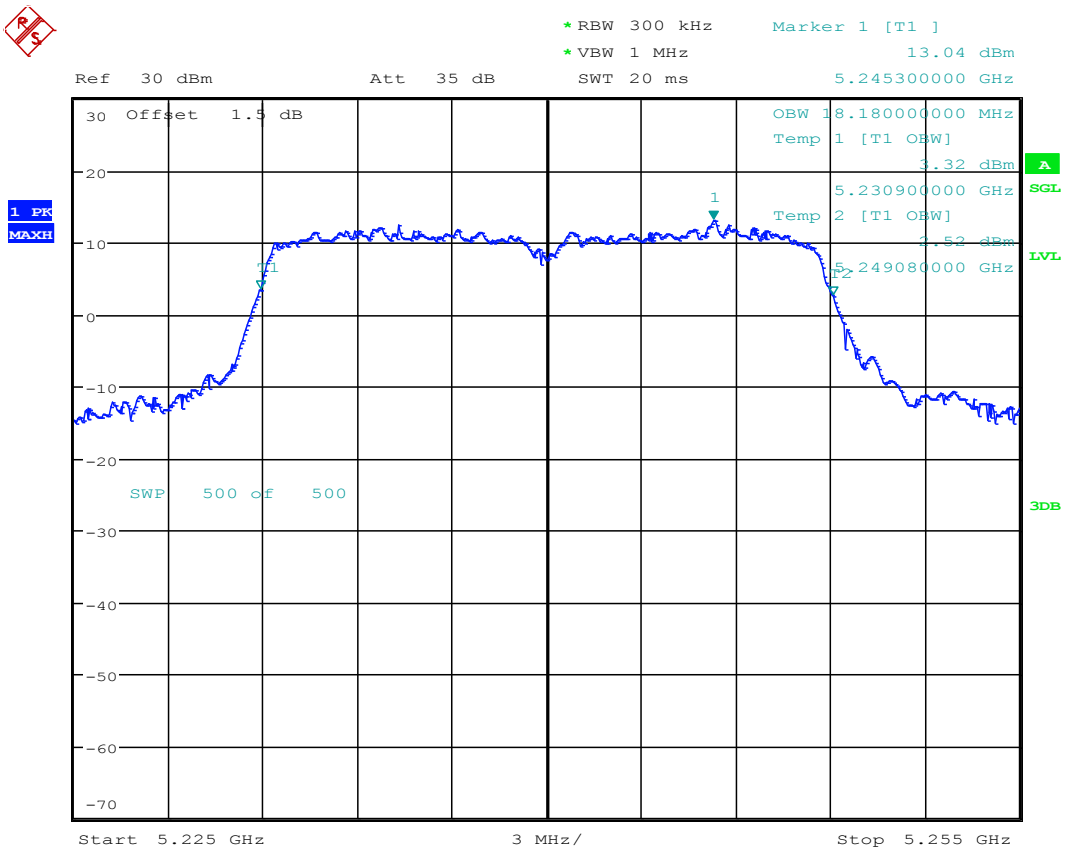
6.9 11N20_36 ANT 1



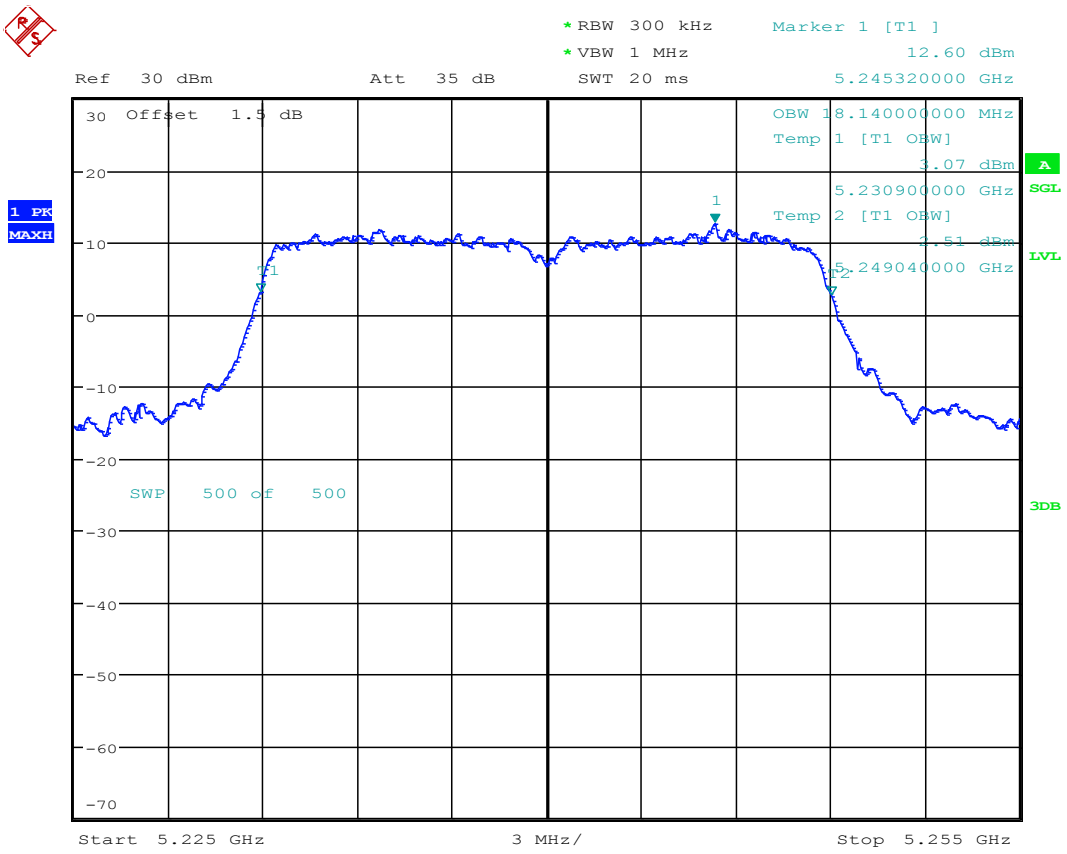
6.10 11N20_36 ANT 2



6.11 11N20_48 ANT 1

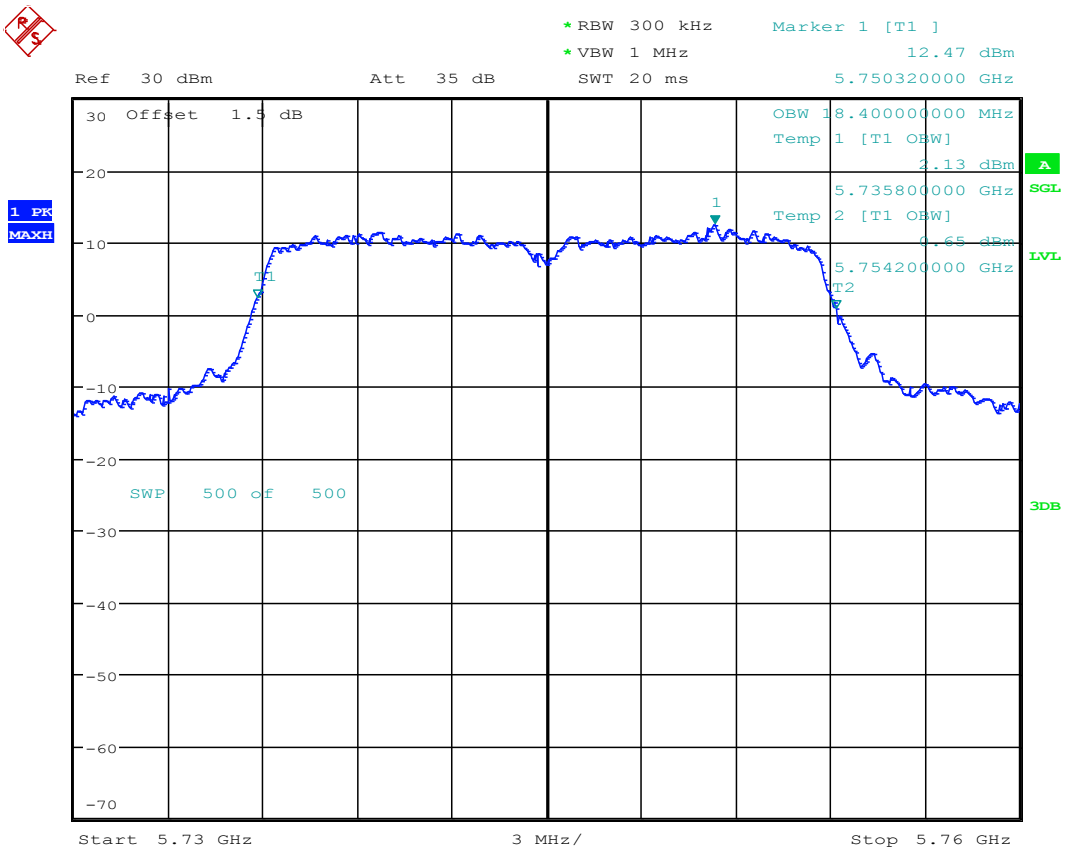


6.12 11N20_48 ANT 2



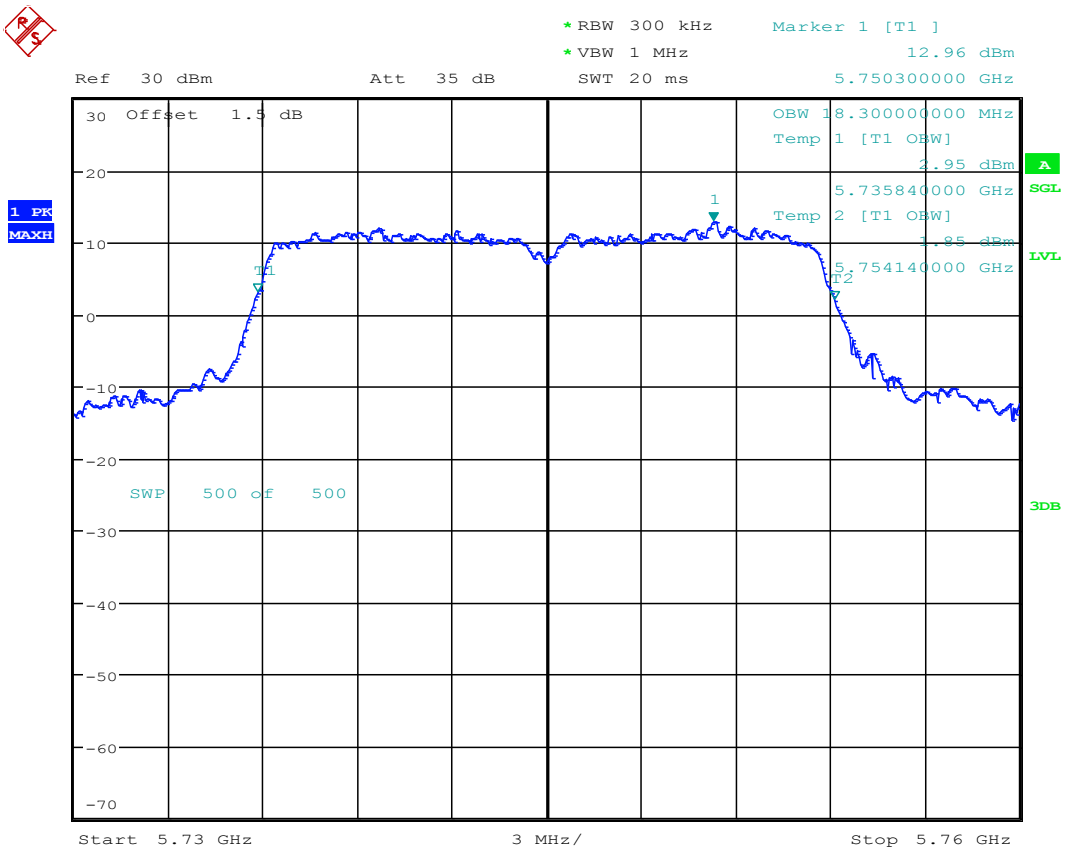
Date: 6.MAR.2018 11:33:07

6.13 11N20_149 ANT 1



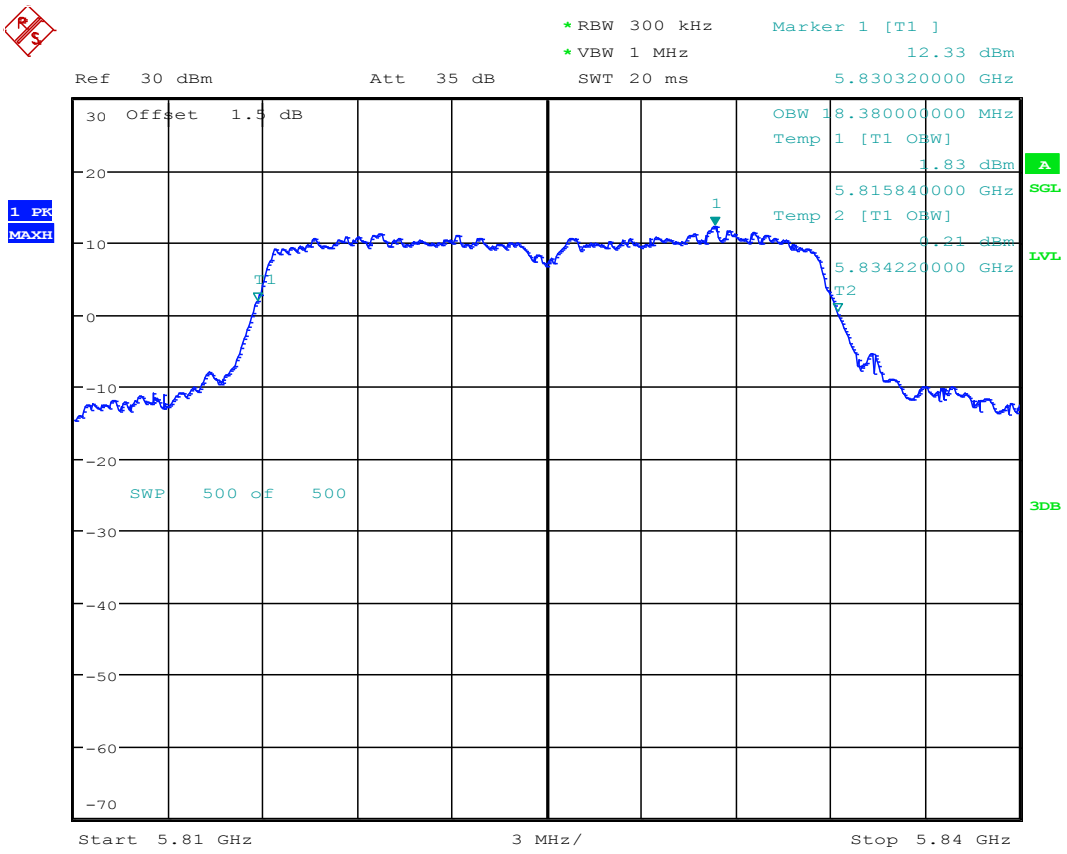
Date: 8.MAR.2018 11:49:35

6.14 11N20_149 ANT 2

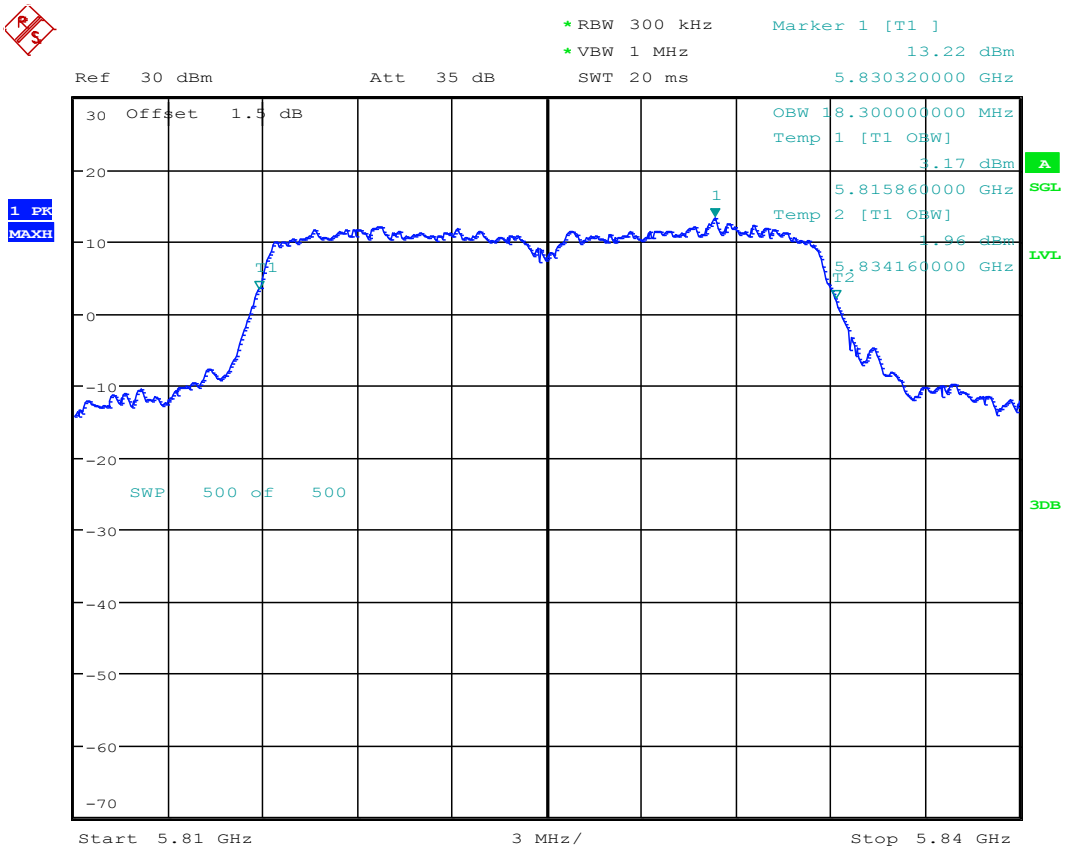


Date: 6.MAR.2018 11:41:59

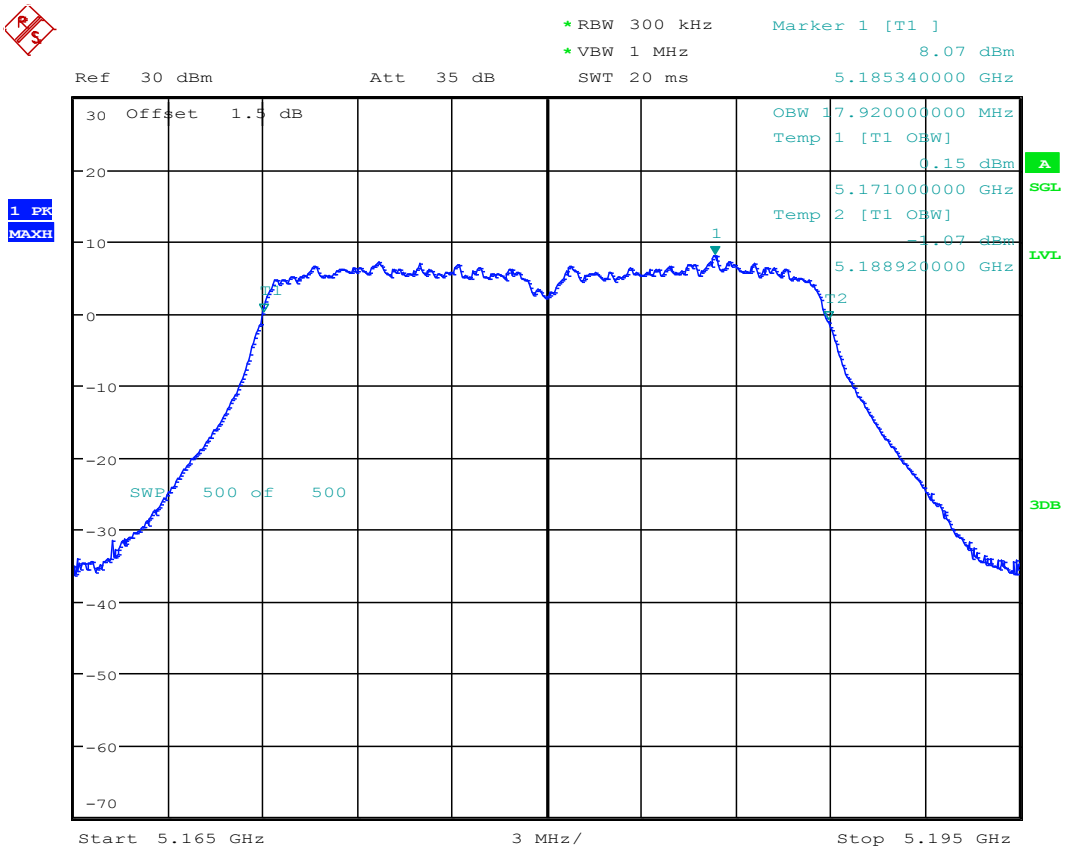
6.15 11N20_165 ANT 1



6.16 11N20_165 ANT 2

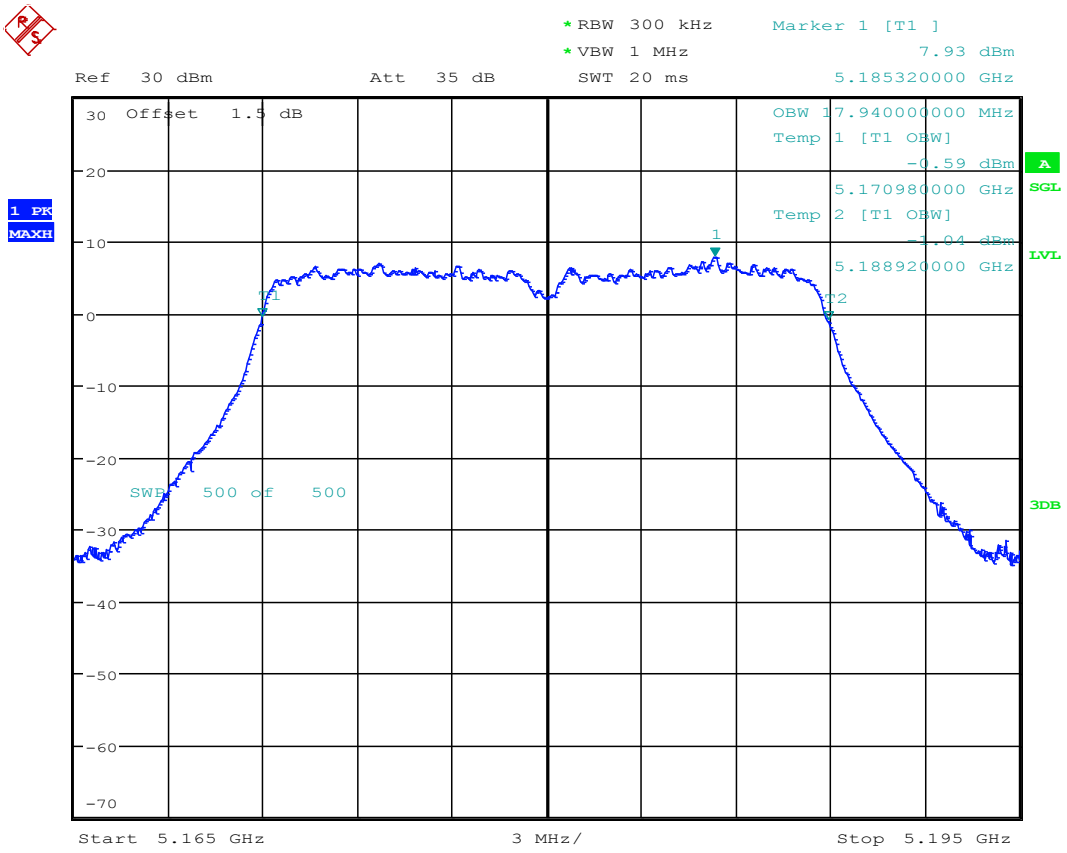


6.17 11N20MIMO_36 ANT 1



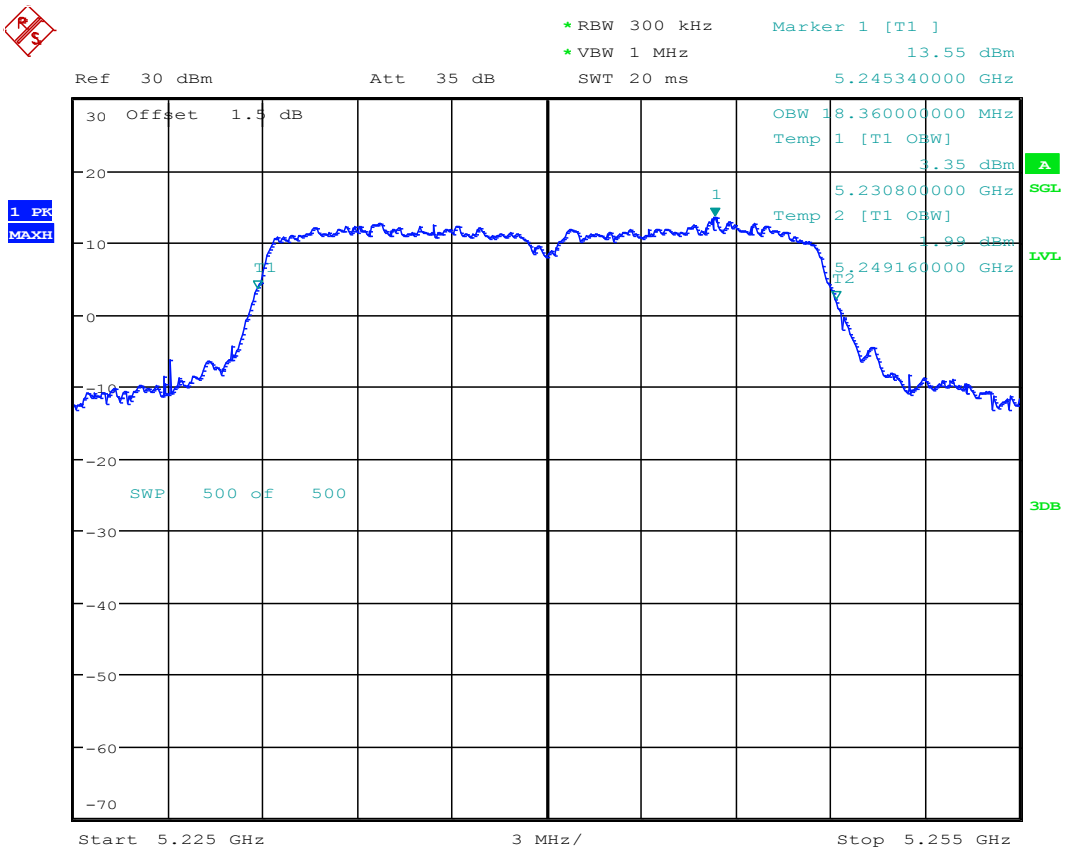
Date: 6.MAR.2018 16:05:53

6.18 11N20MIMO_36 ANT 2

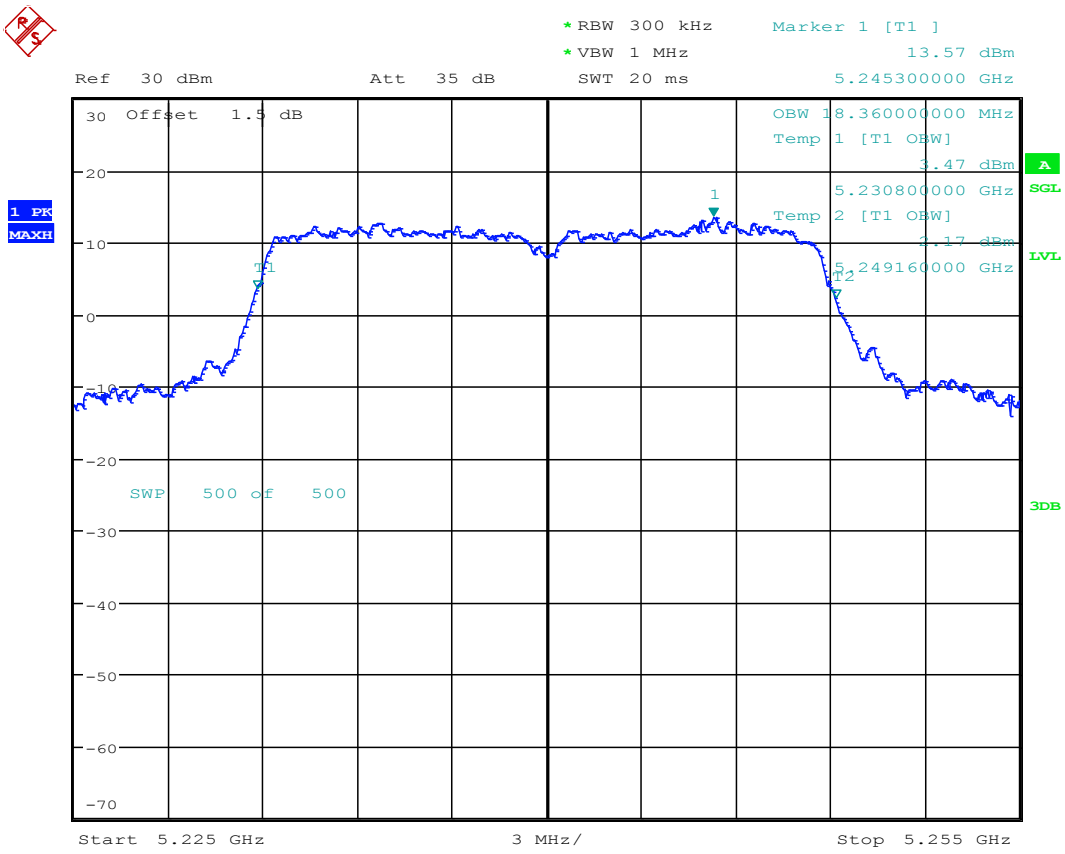


Date: 6.MAR.2018 17:51:03

6.19 11N20MIMO_48 ANT 1

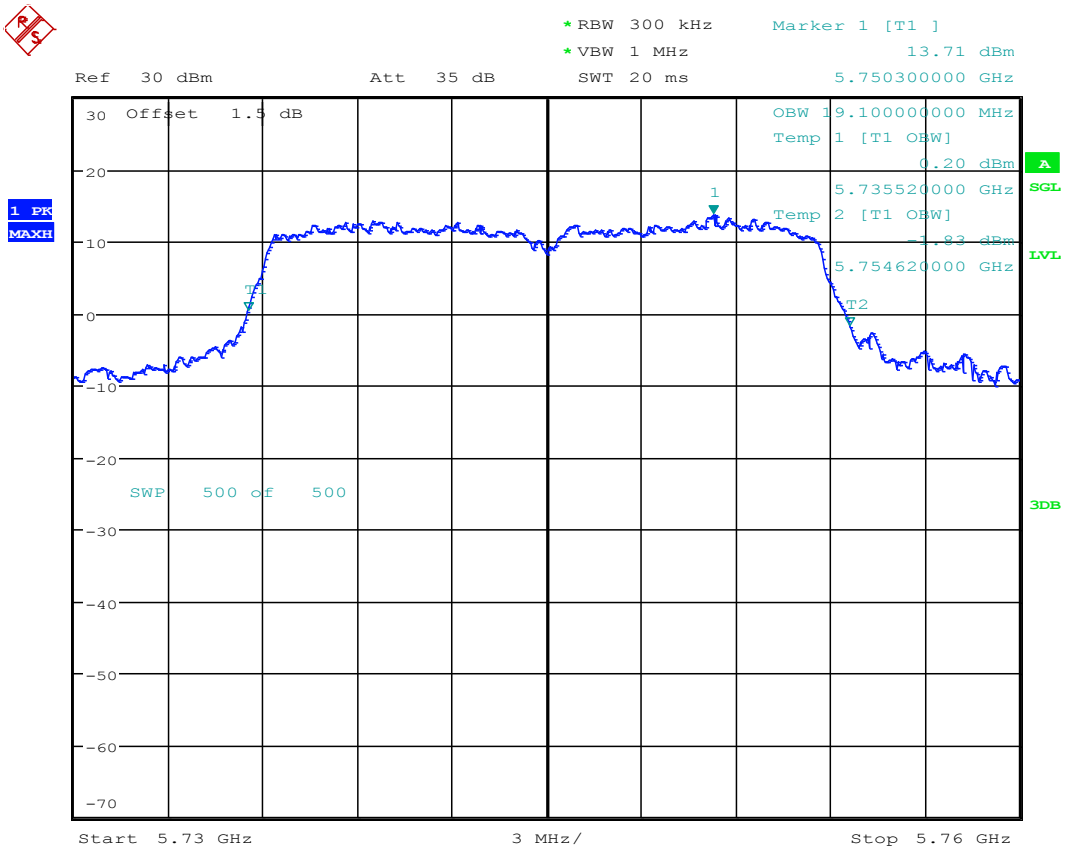


6.20 11N20MIMO_48 ANT 2



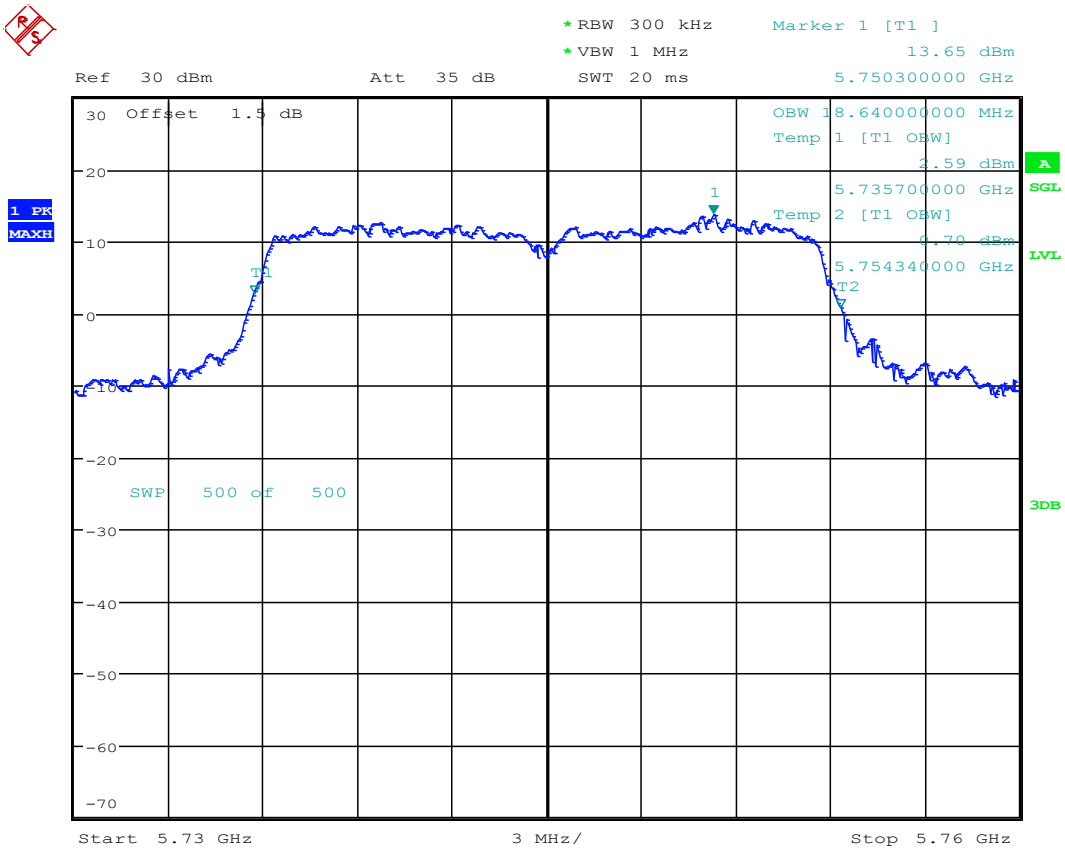
Date: 6.MAR.2018 17:54:08

6.21 11N20MIMO_149 ANT 1



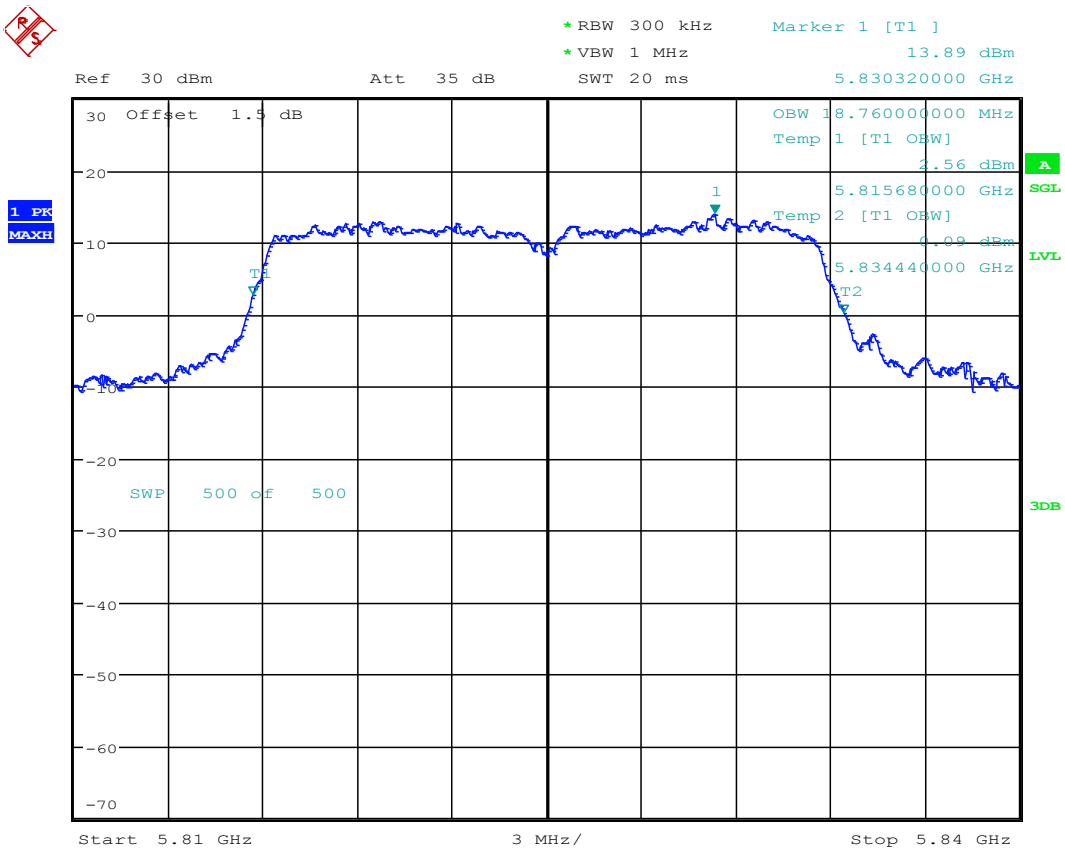
Date: 6.MAR.2018 16:13:18

6.22 11N20MIMO_149 ANT 2

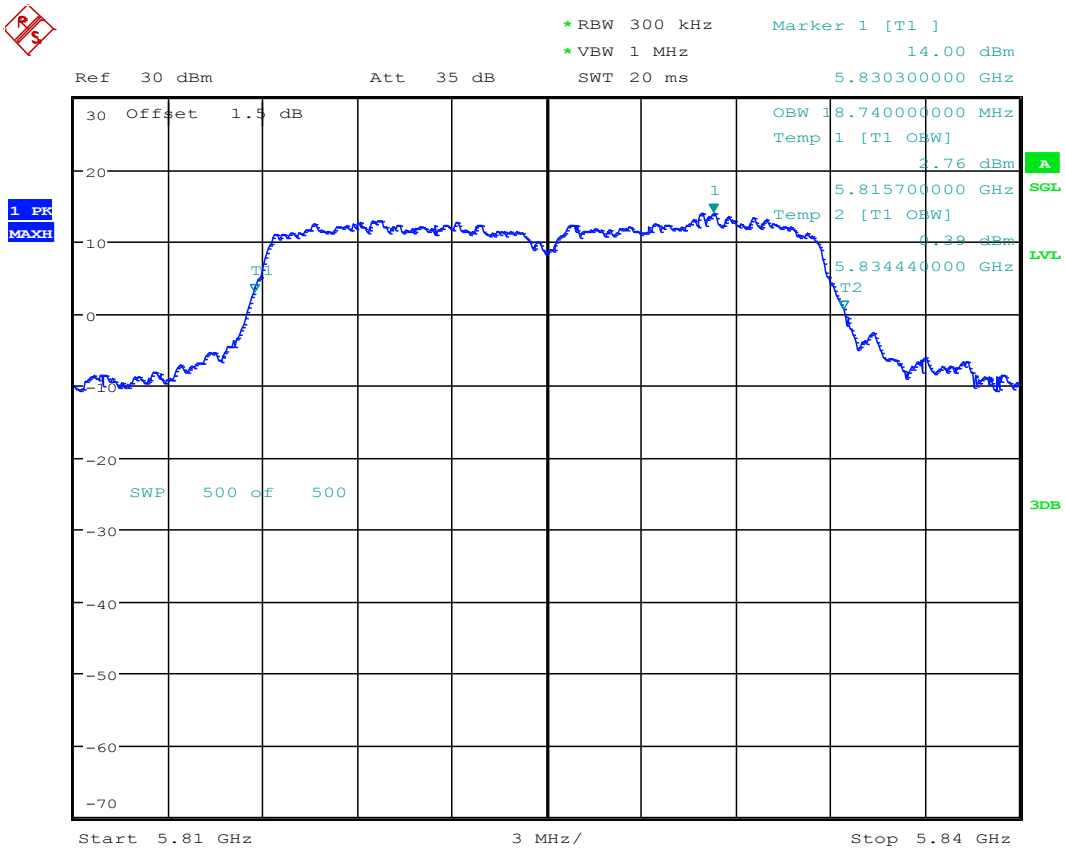


Date: 6.MAR.2018 17:57:07

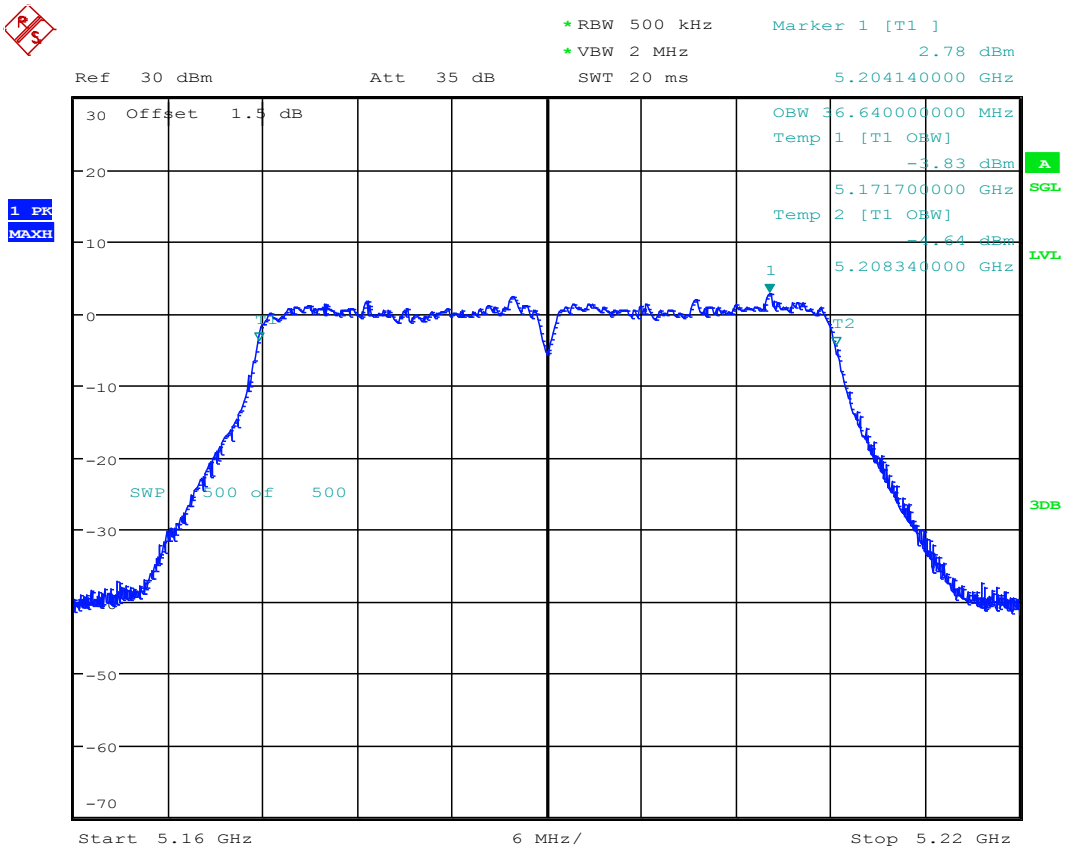
6.23 11N20MIMO_165 ANT 1



6.24 11N20MIMO_165 ANT 2

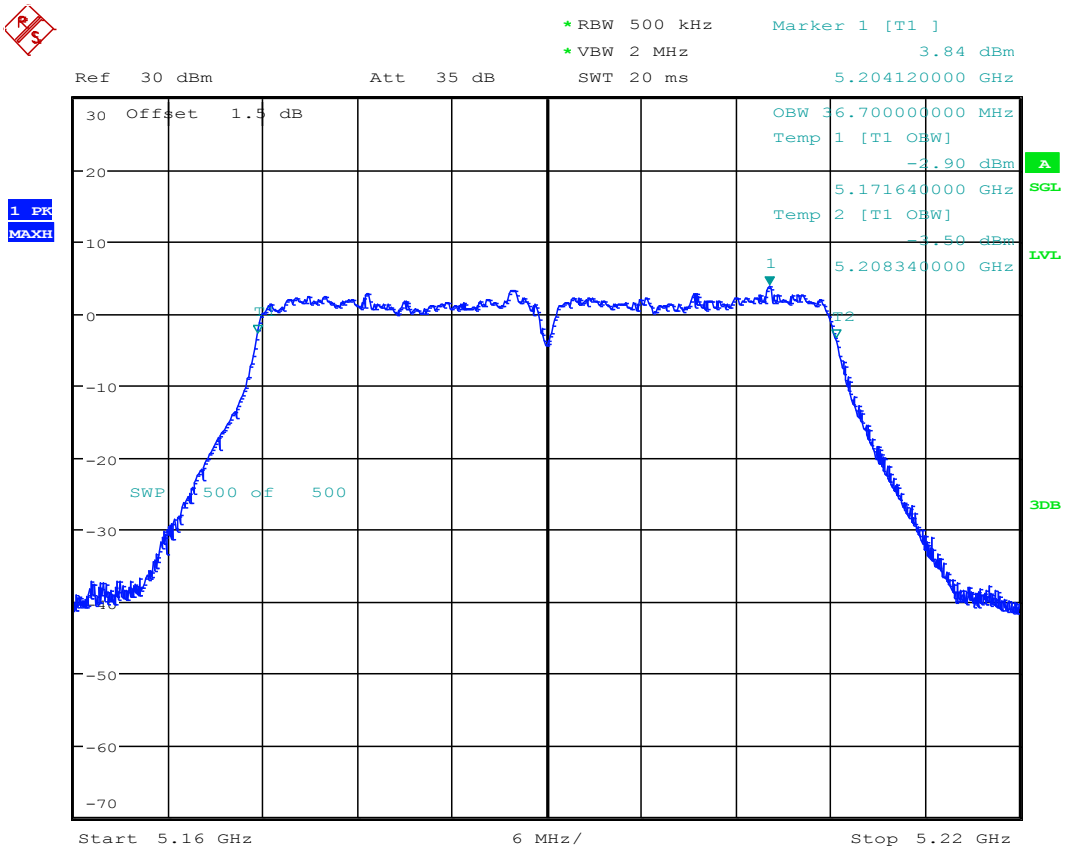


6.25 11N40_38 ANT 1

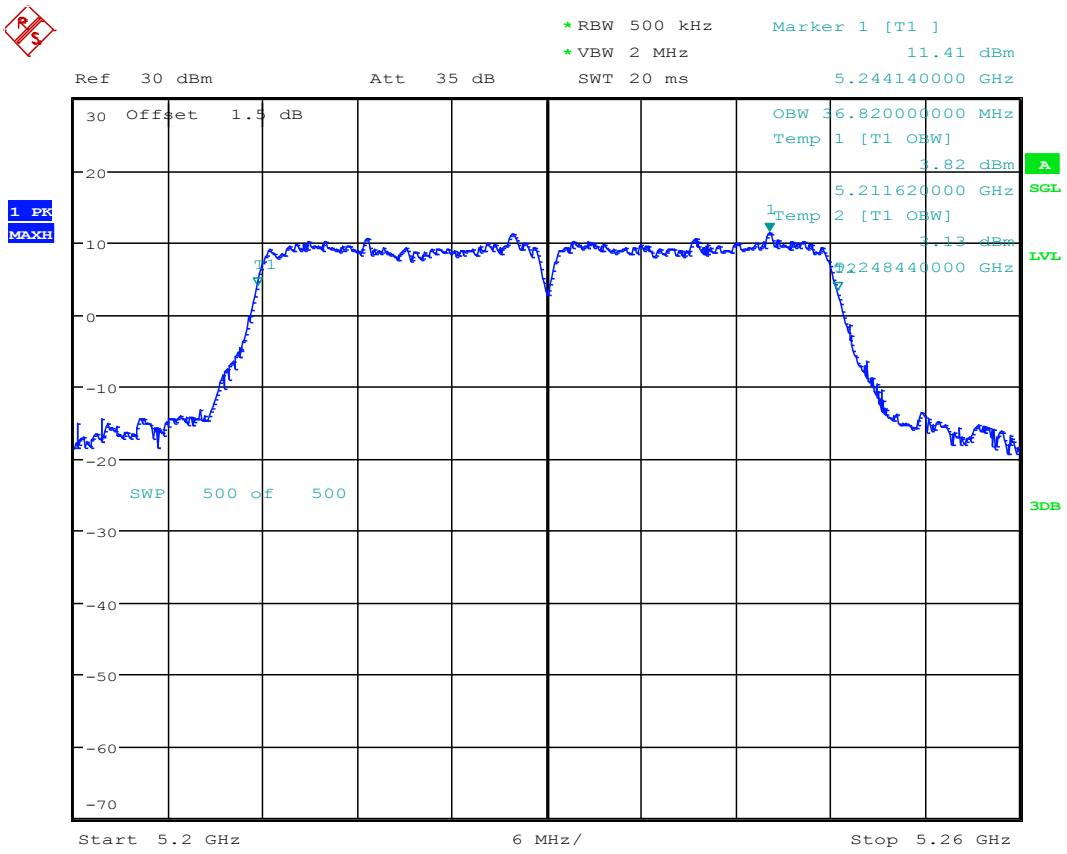


Date: 8.MAR.2018 13:55:15

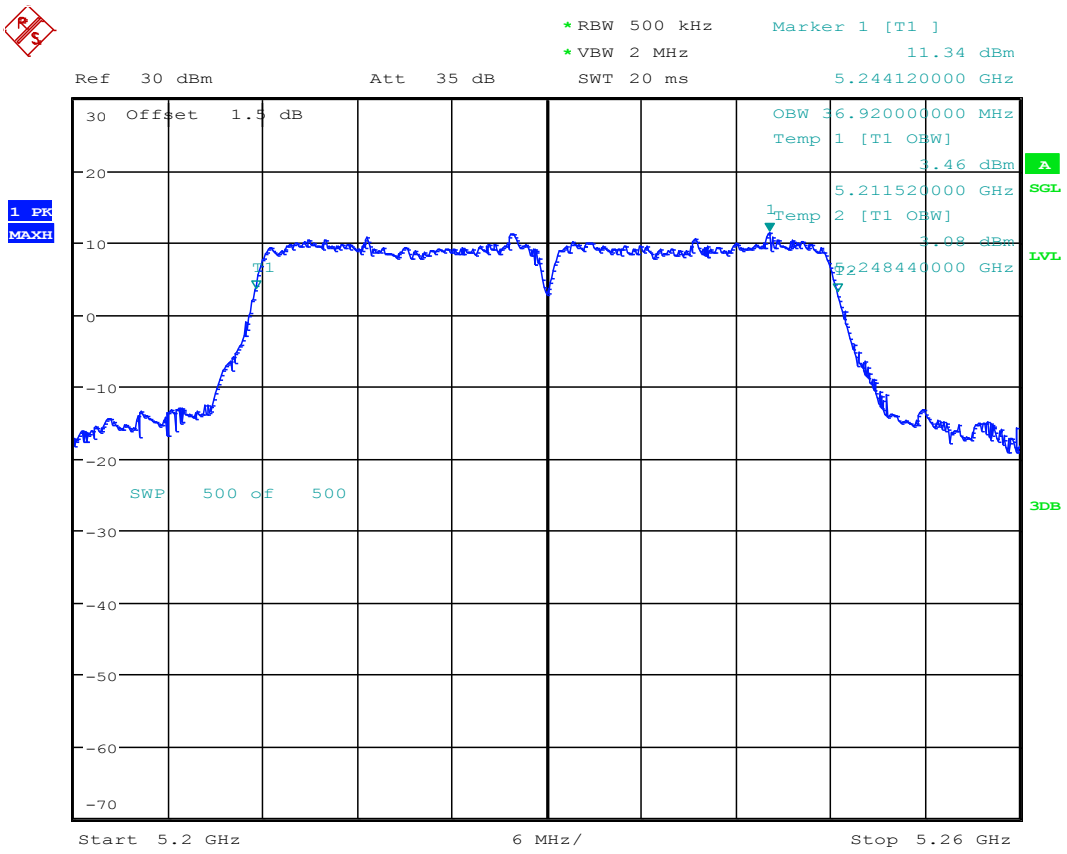
6.26 11N40_38 ANT 2



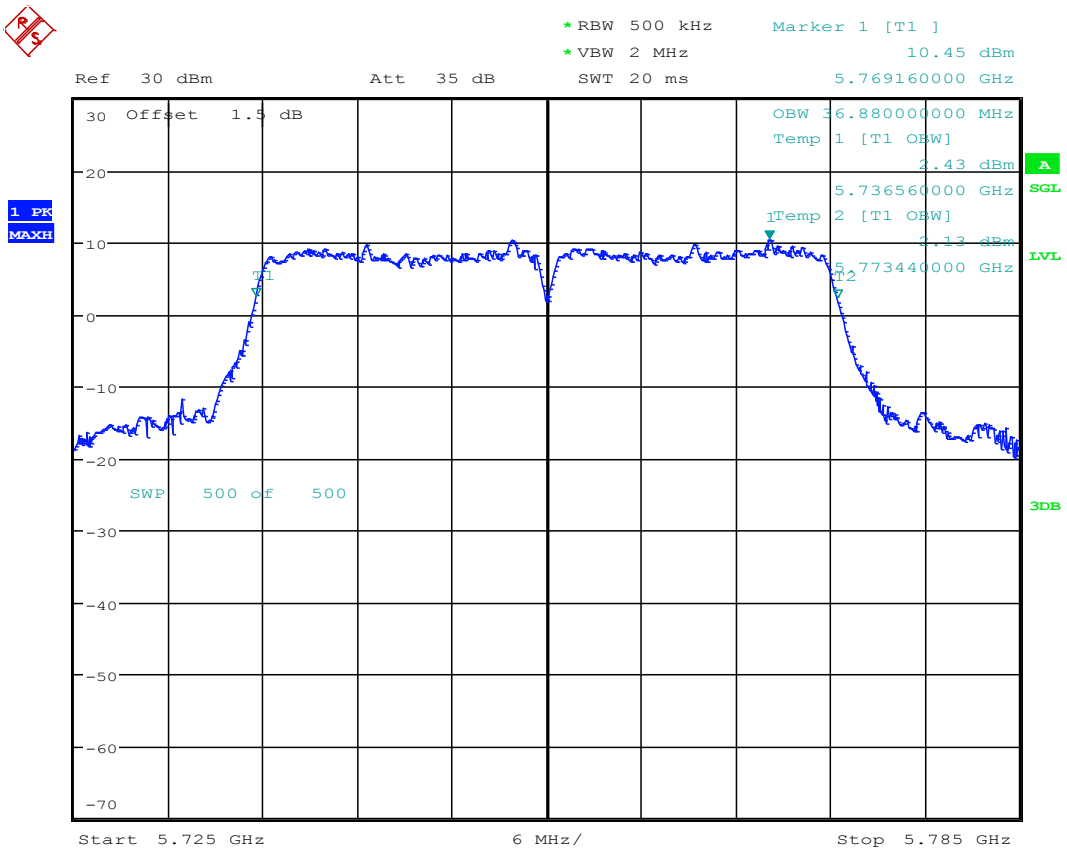
6.27 11N40_46 ANT 1



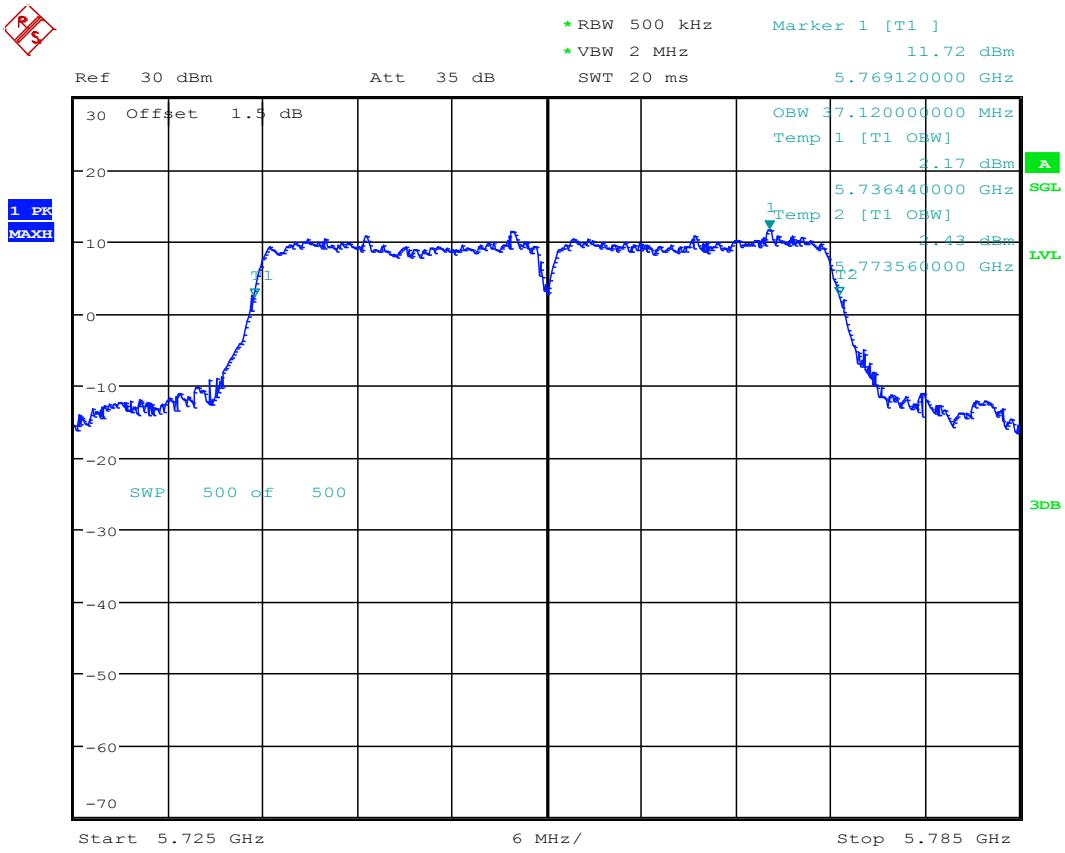
6.28 11N40_46 ANT 2



6.29 11N40_151 ANT 1

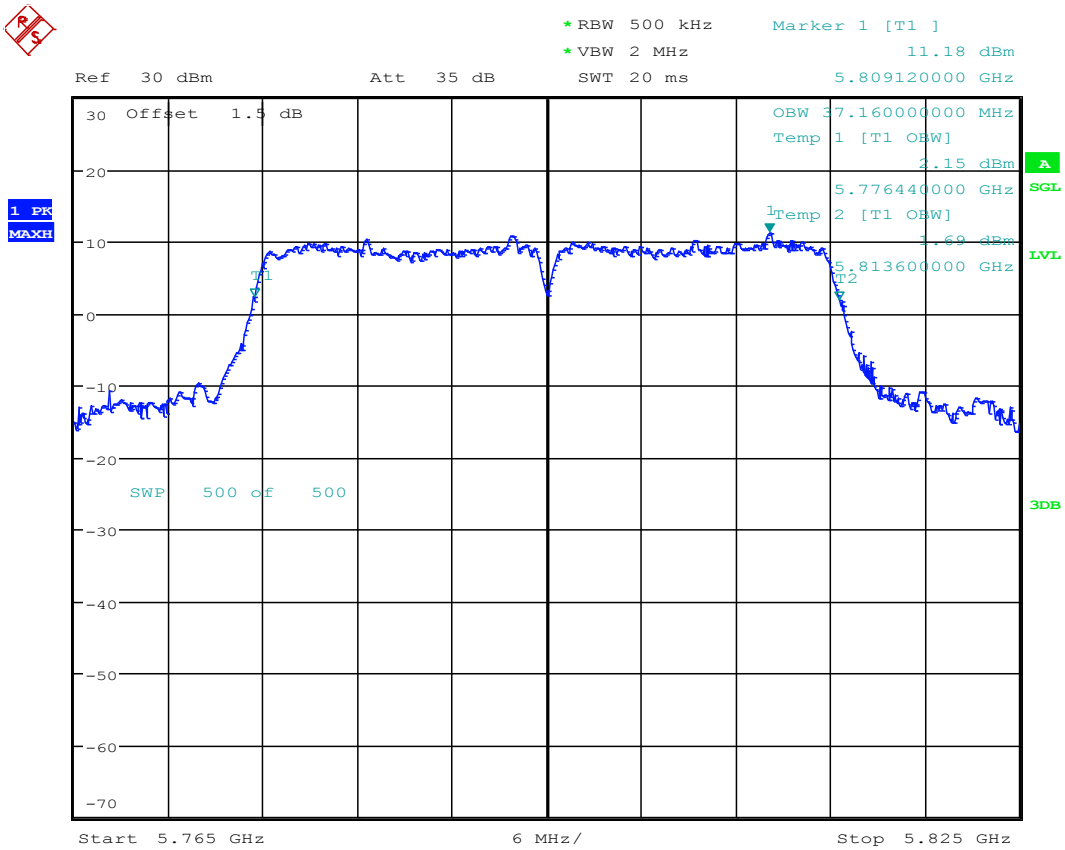


6.30 11N40_151 ANT 2

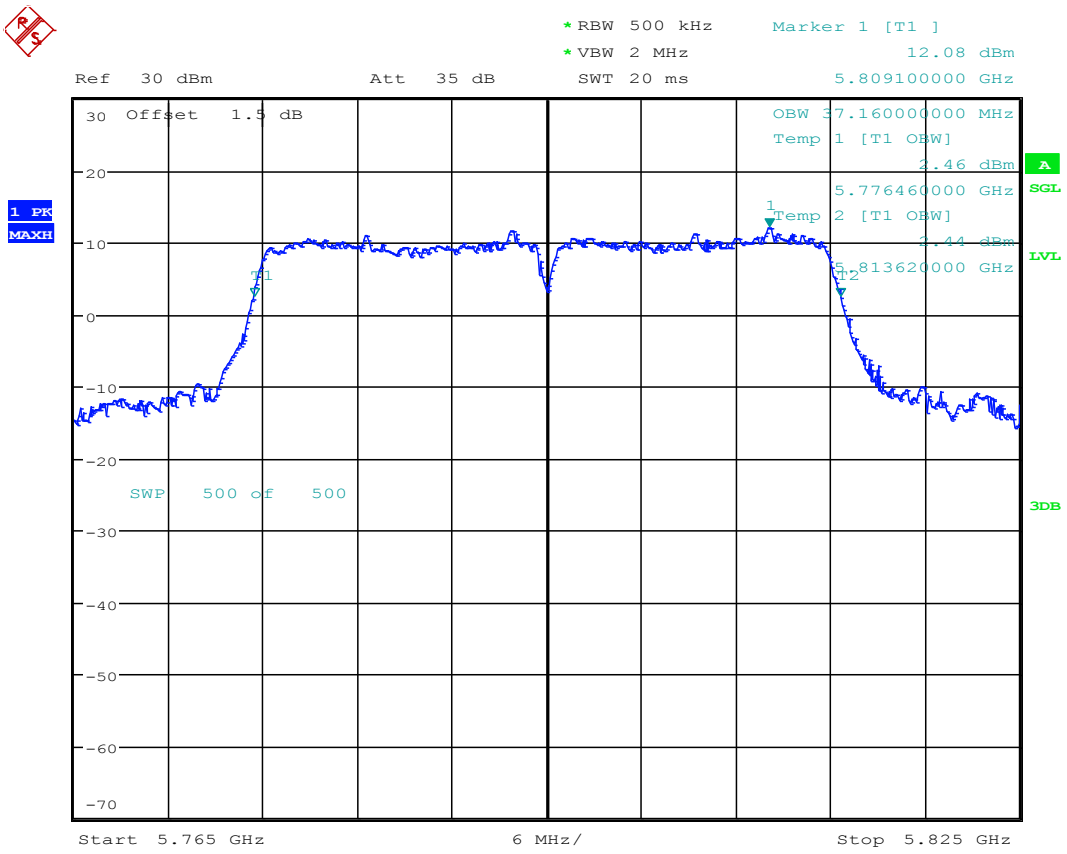


Date: 6.MAR.2018 12:01:08

6.31 11N40_159 ANT 1

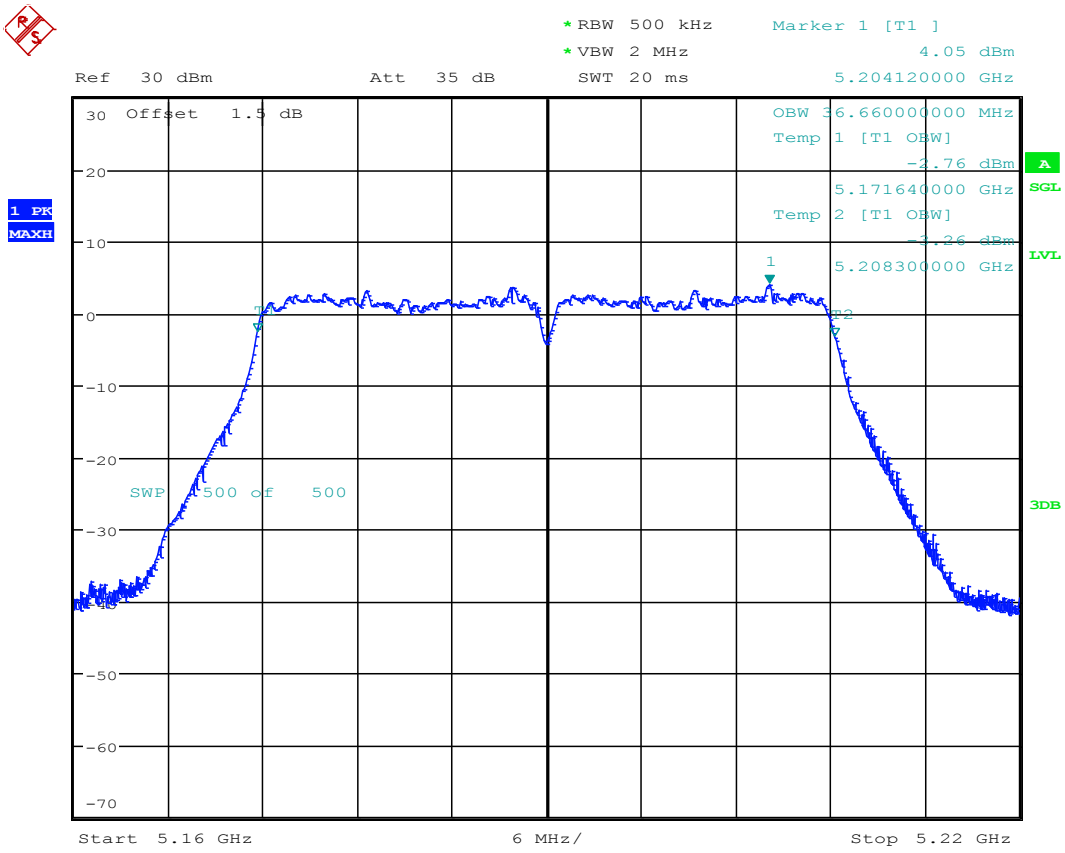


6.32 11N40_159 ANT 2

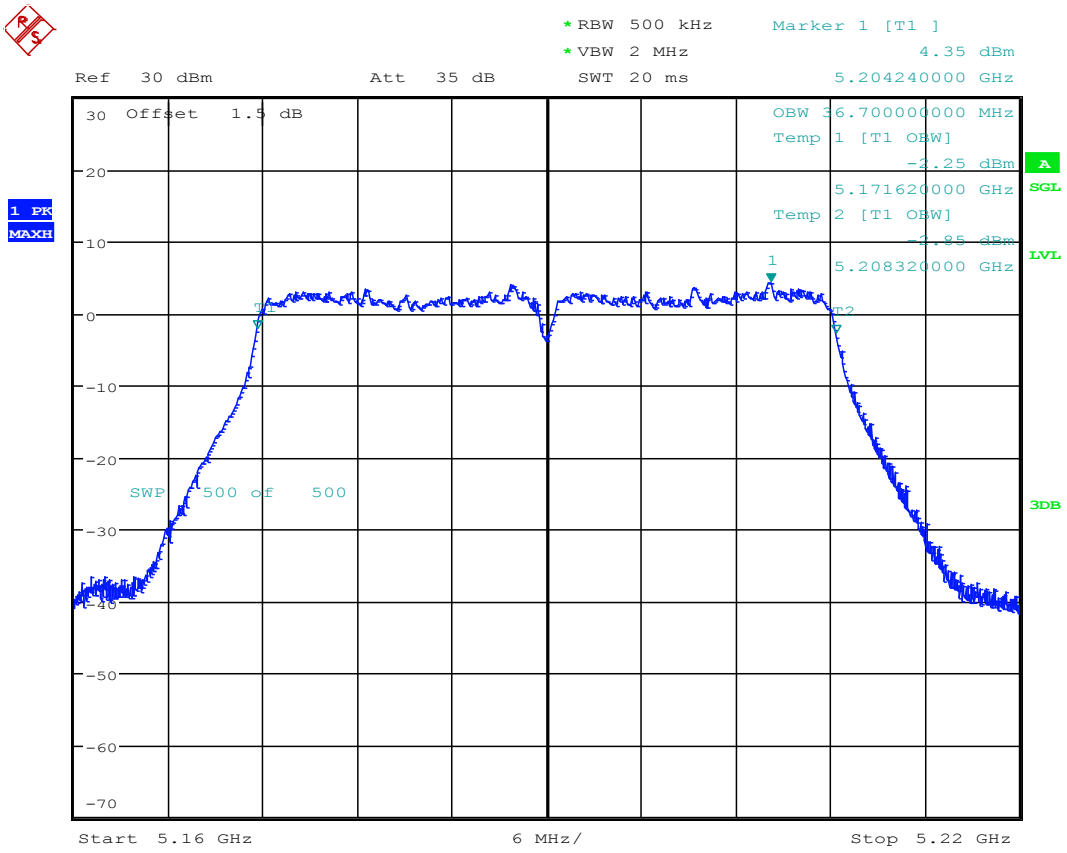


Date: 6.MAR.2018 12:04:16

6.33 11N40MIMO_38 ANT 1

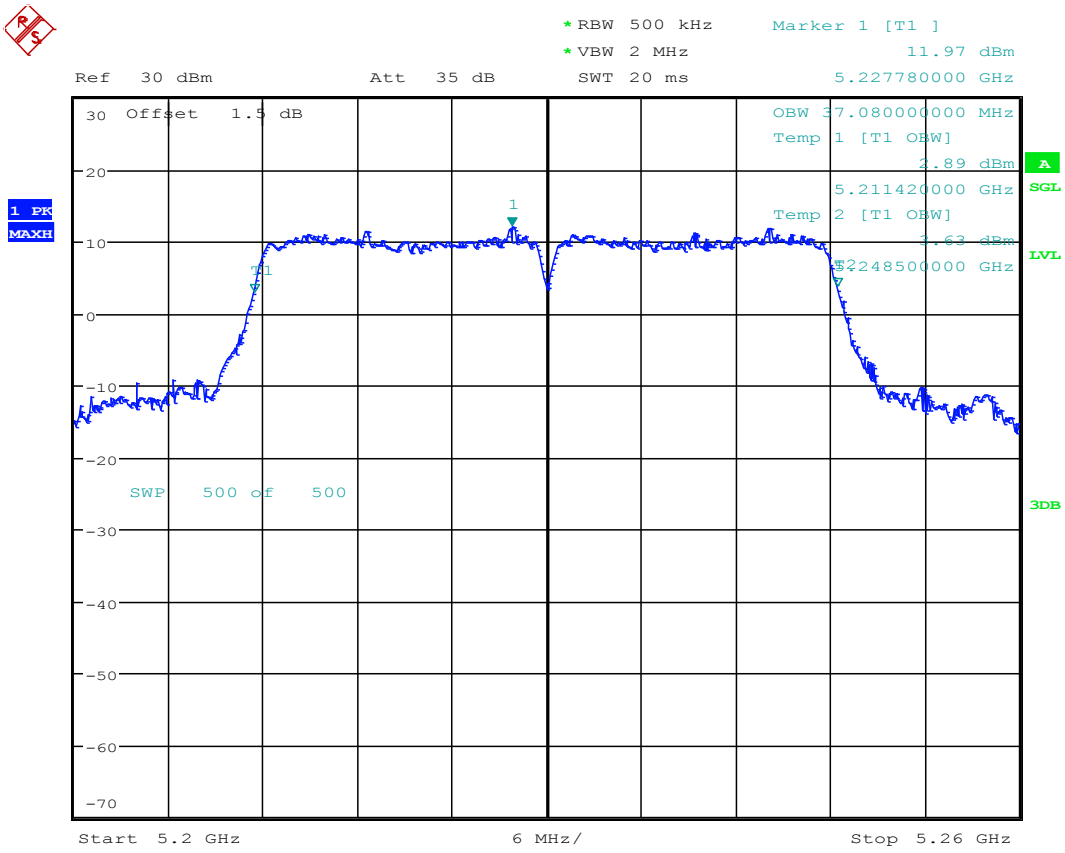


6.34 11N40MIMO_38 ANT 2

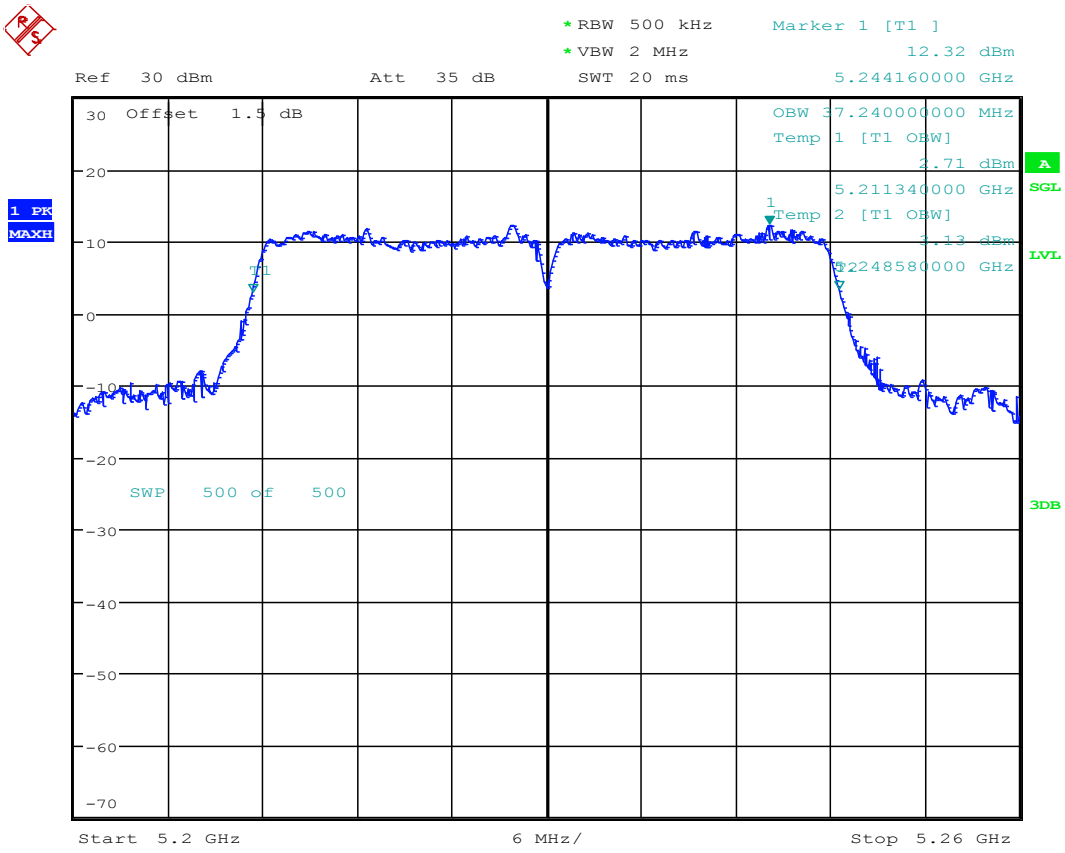


Date: 6.MAR.2018 18:32:01

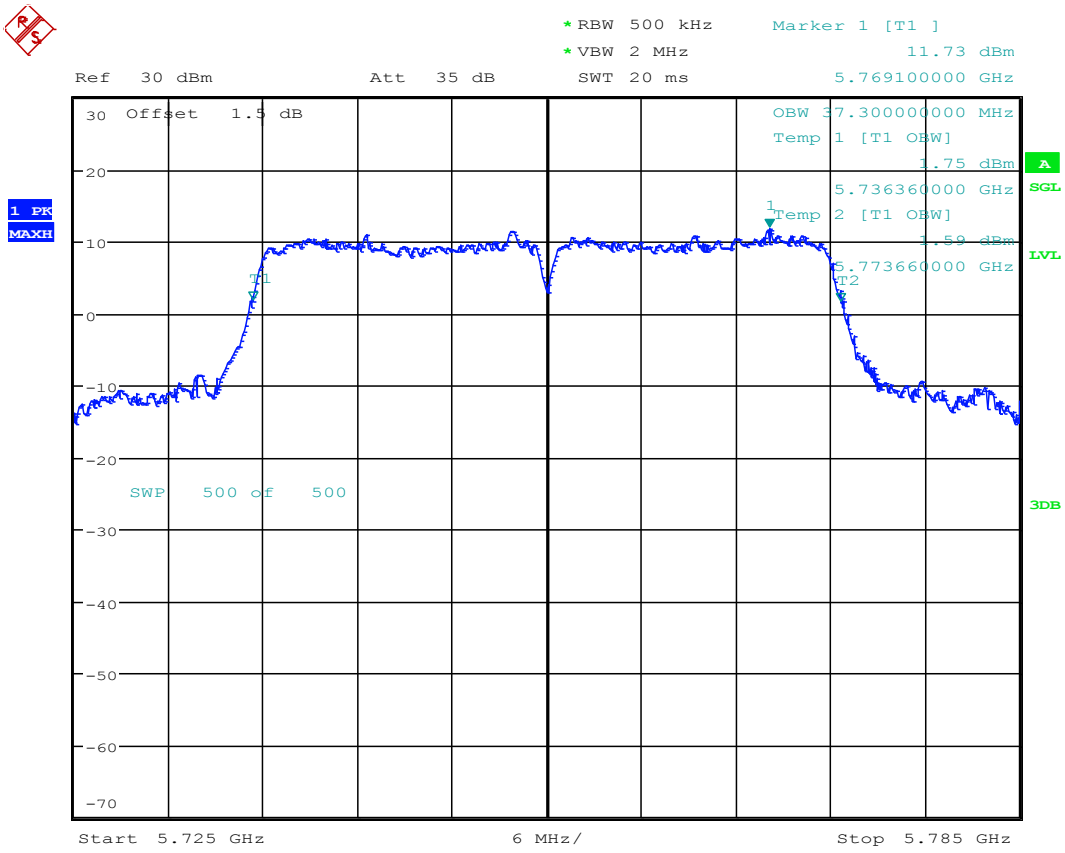
6.35 11N40MIMO_46 ANT 1



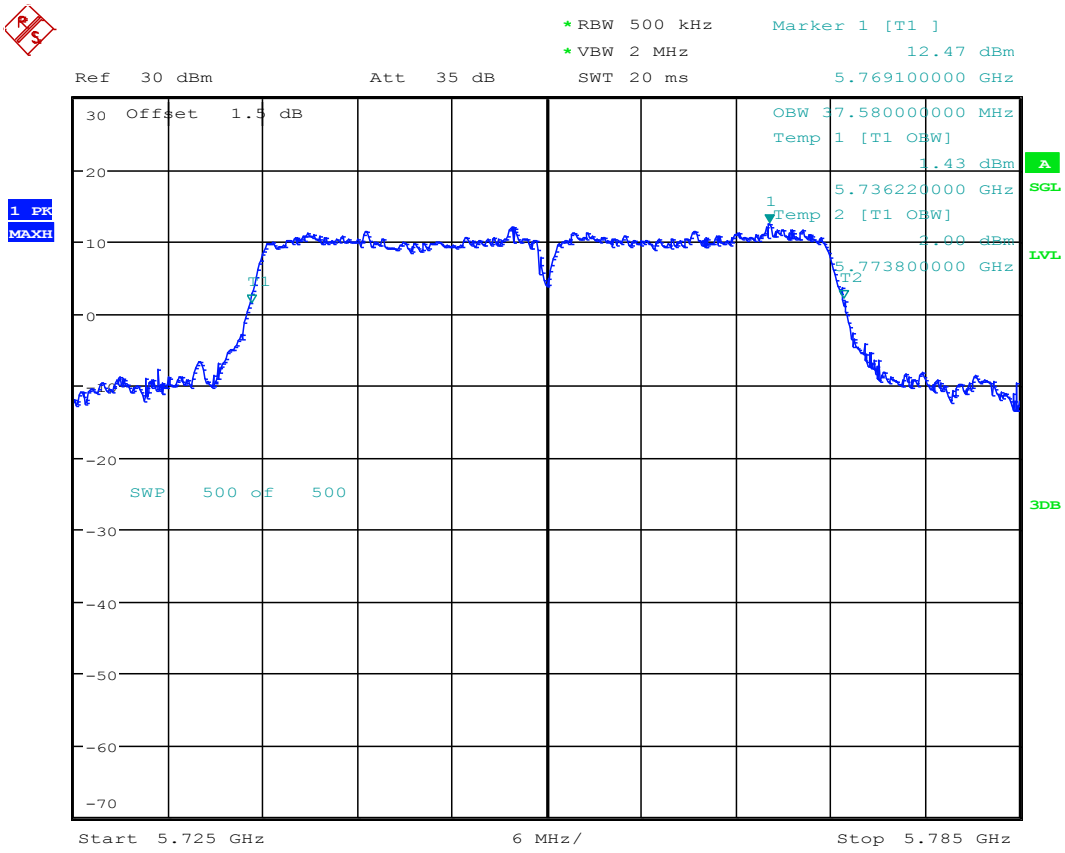
6.36 11N40MIMO_46 ANT 2



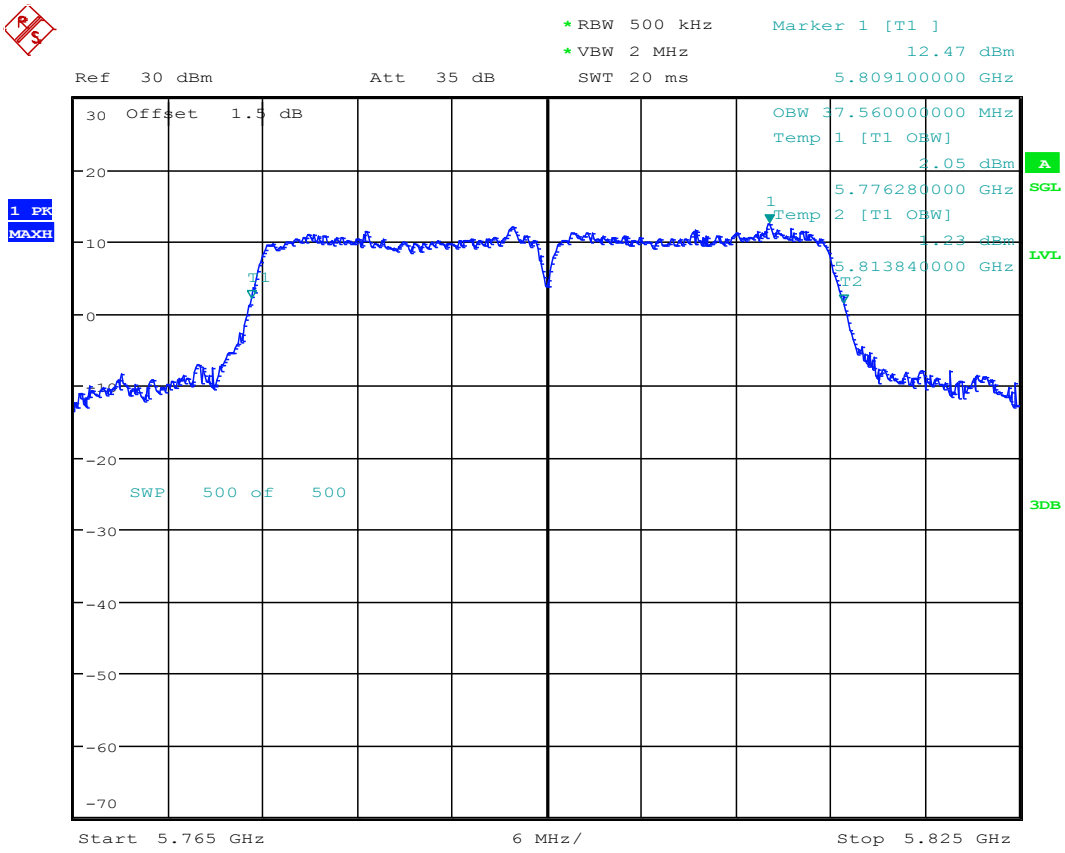
6.37 11N40MIMO_151 ANT 1



6.38 11N40MIMO_151 ANT 2

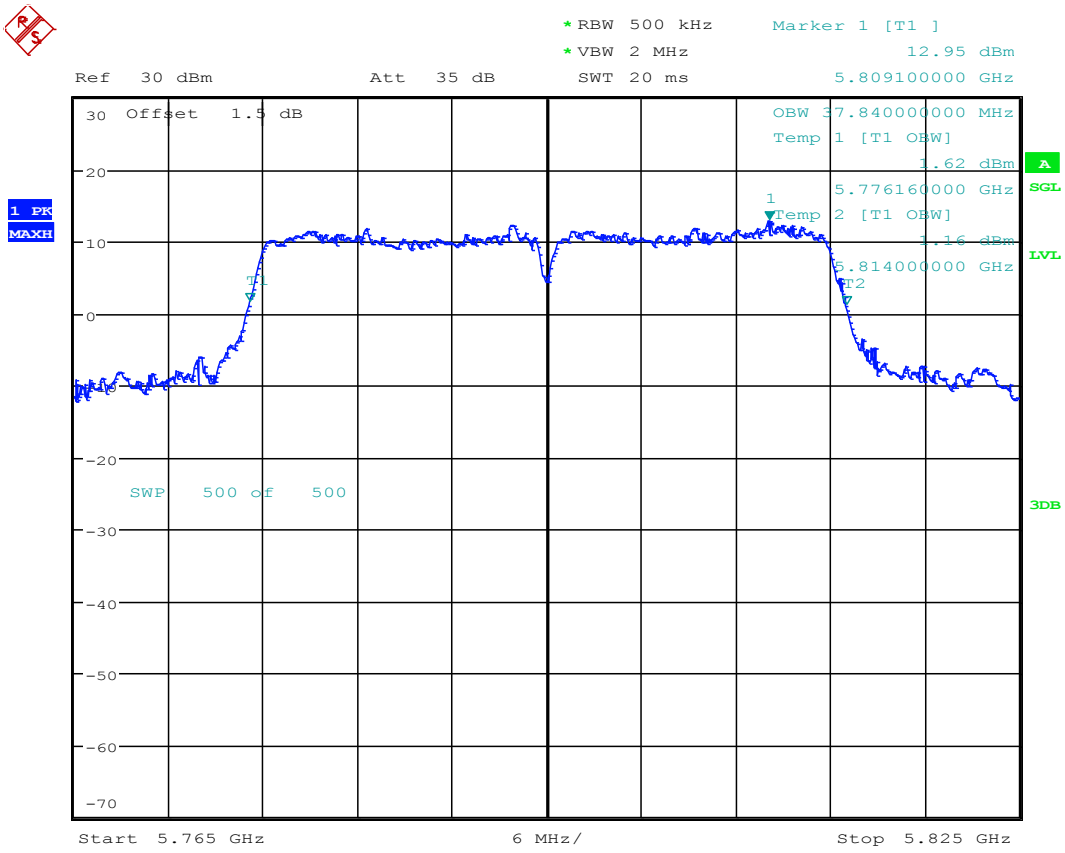


6.39 11N40MIMO_159 ANT 1

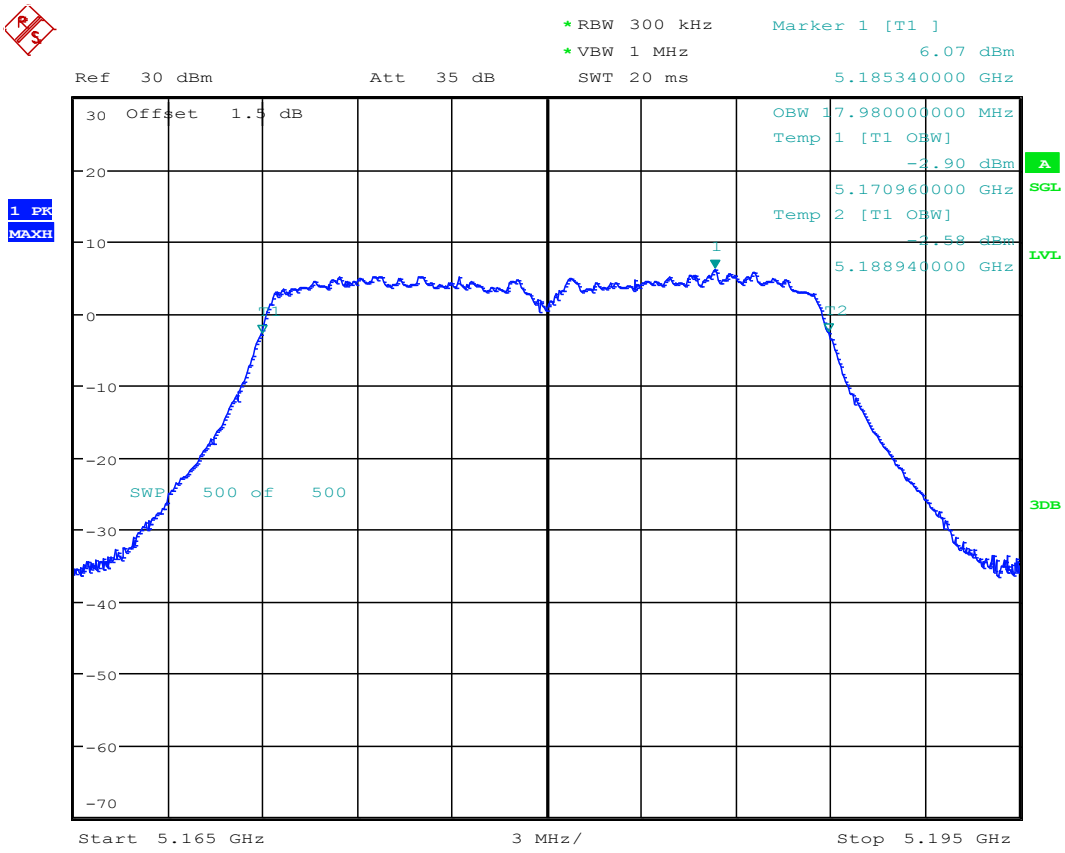


Date: 6.MAR.2018 17:14:29

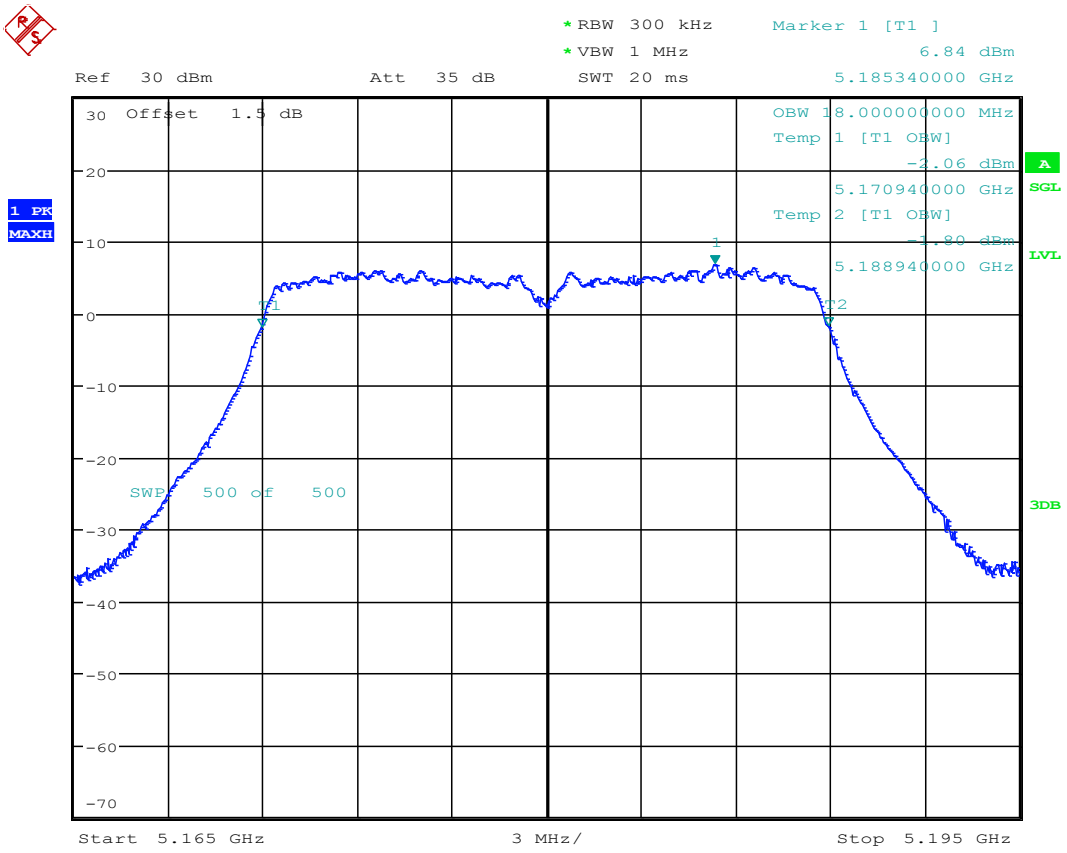
6.40 11N40MIMO_159 ANT 2



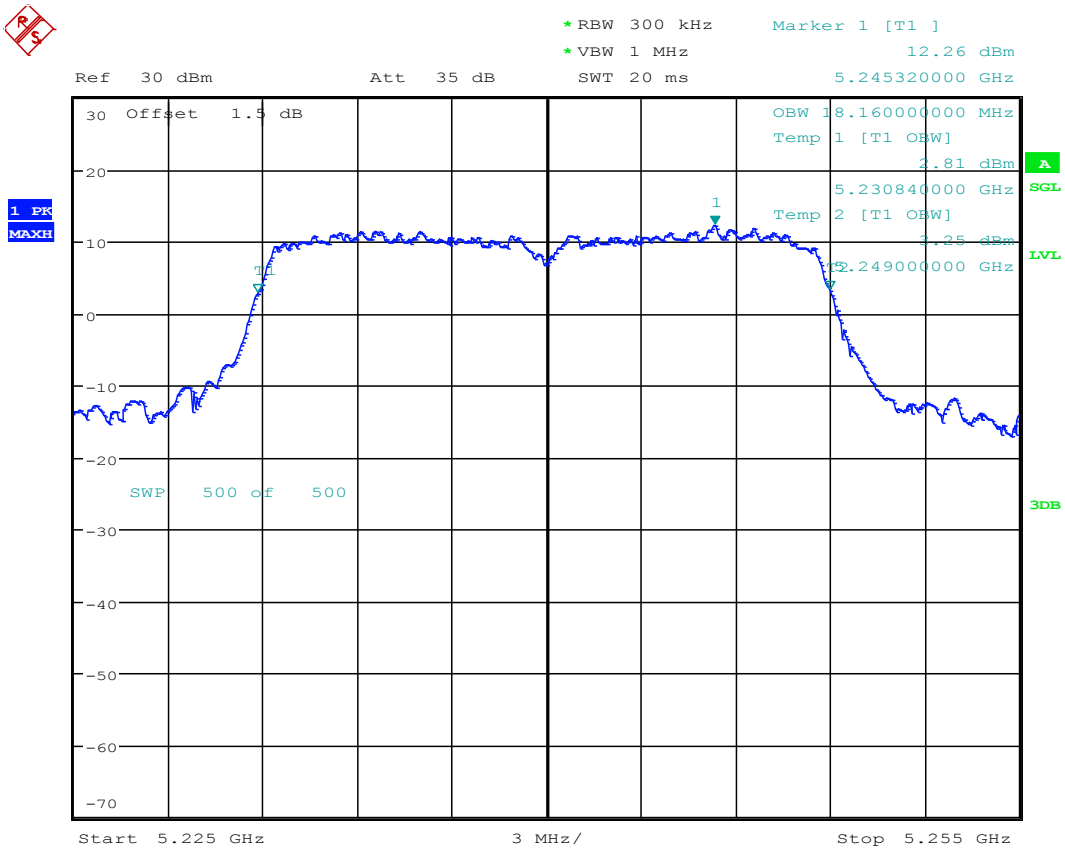
6.41 11AC20_36 ANT 1



6.42 11AC20_36 ANT 2

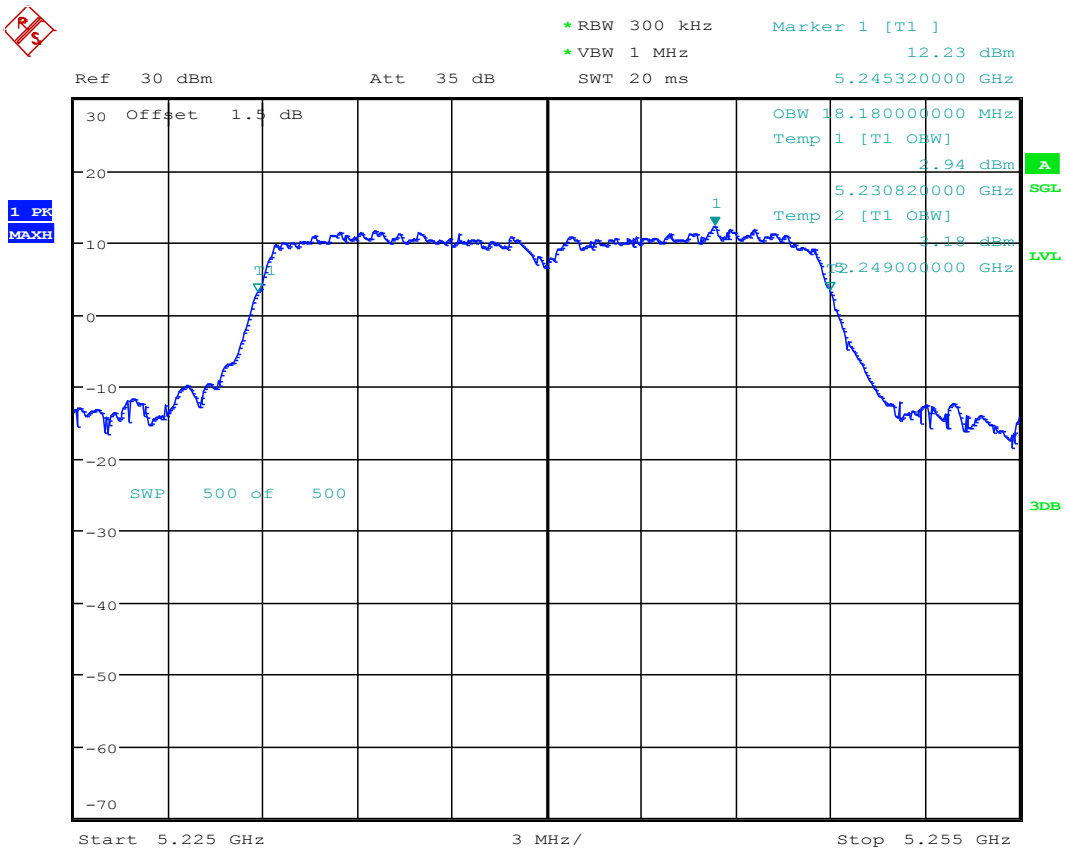


6.43 11AC20_48 ANT 1



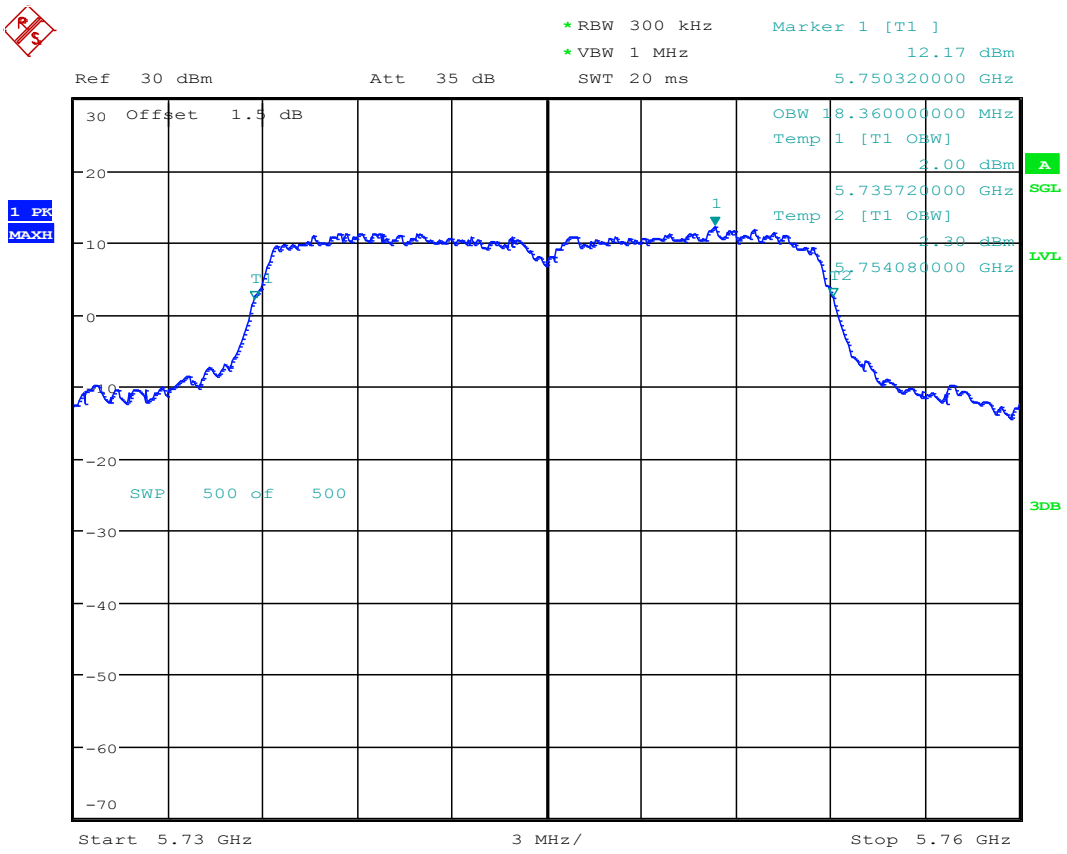
Date: 8.MAR.2018 14:15:25

6.44 11AC20_48 ANT 2



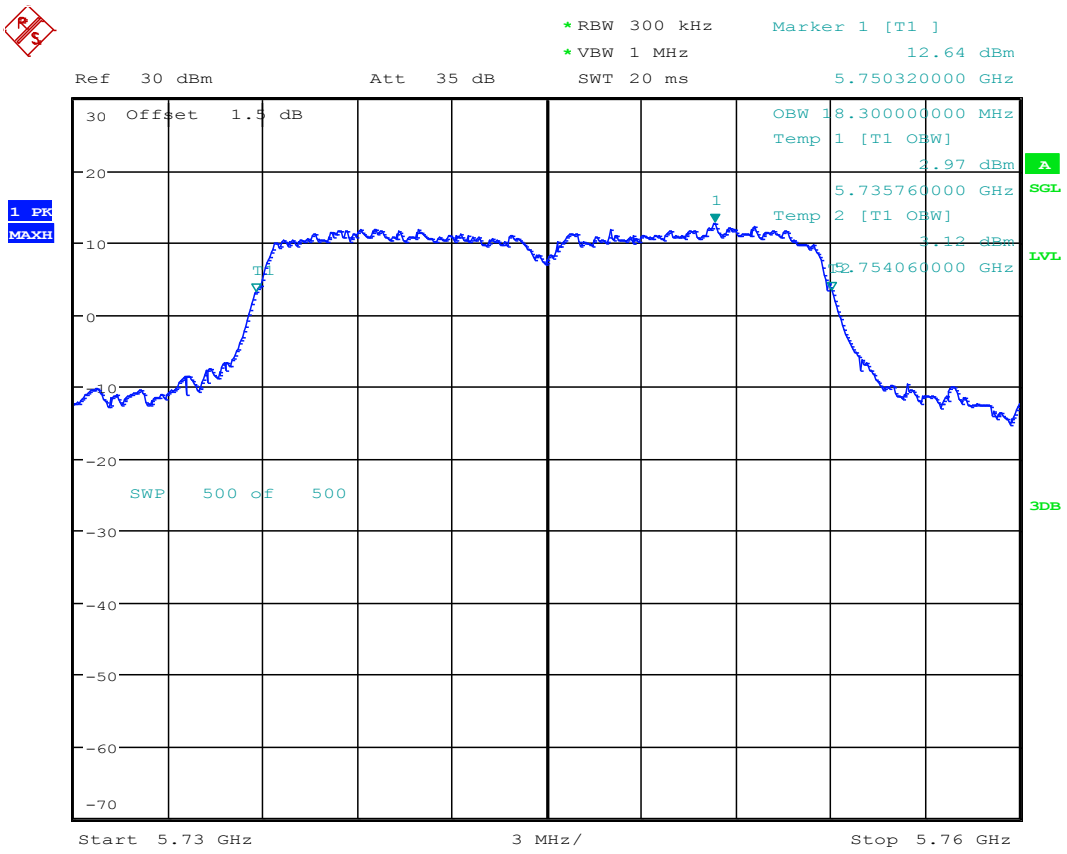
Date: 6.MAR.2018 13:43:21

6.45 11AC20_149 ANT 1



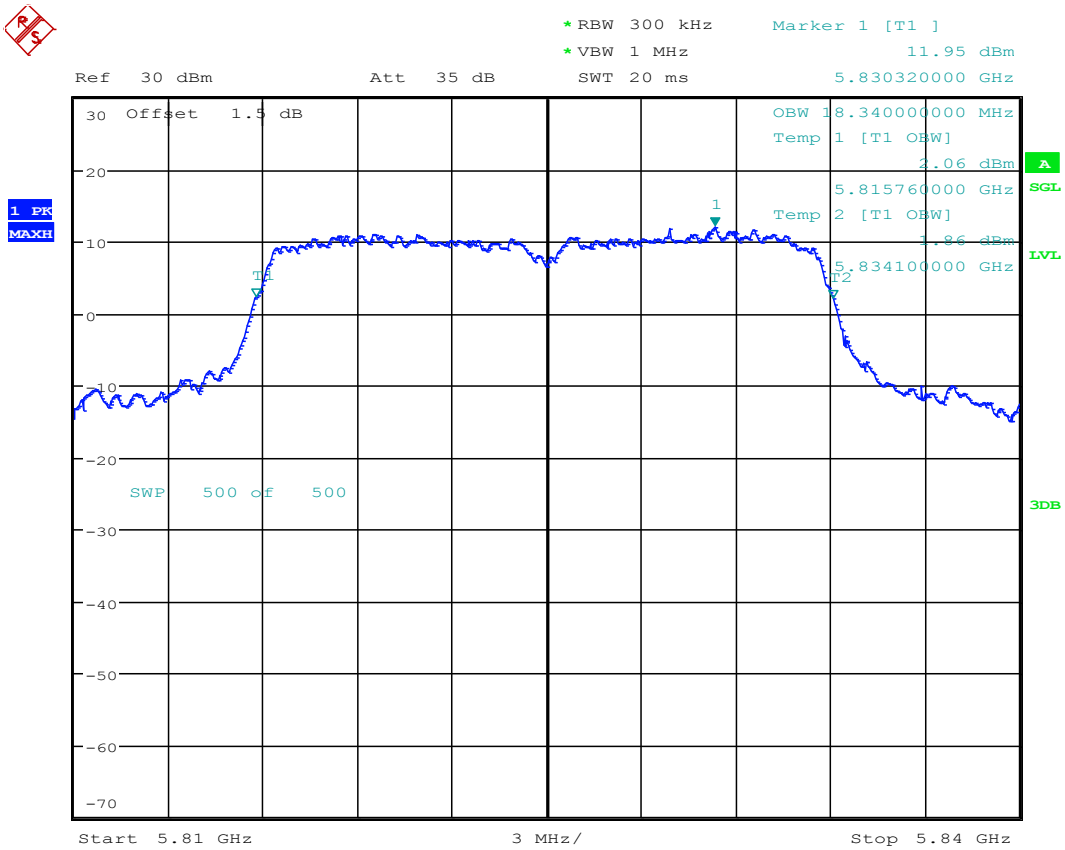
Date: 8.MAR.2018 14:19:35

6.46 11AC20_149 ANT 2



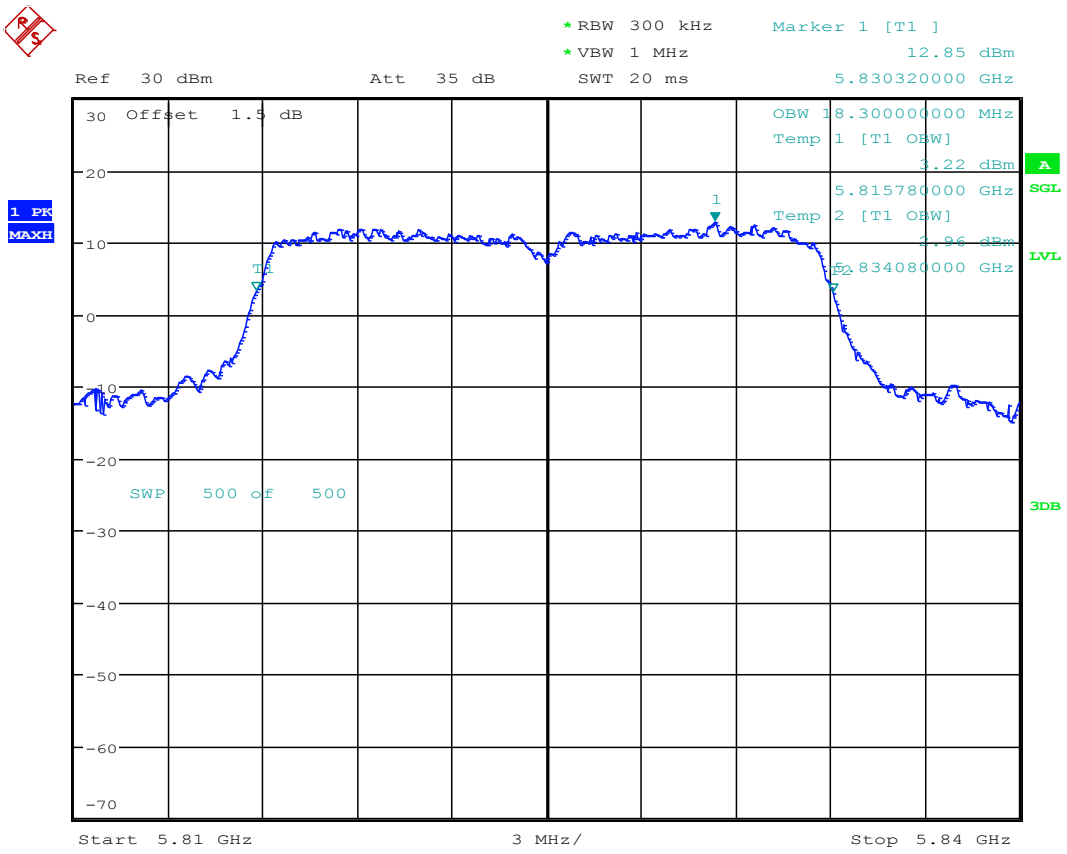
Date: 6.MAR.2018 13:46:04

6.47 11AC20_165 ANT 1



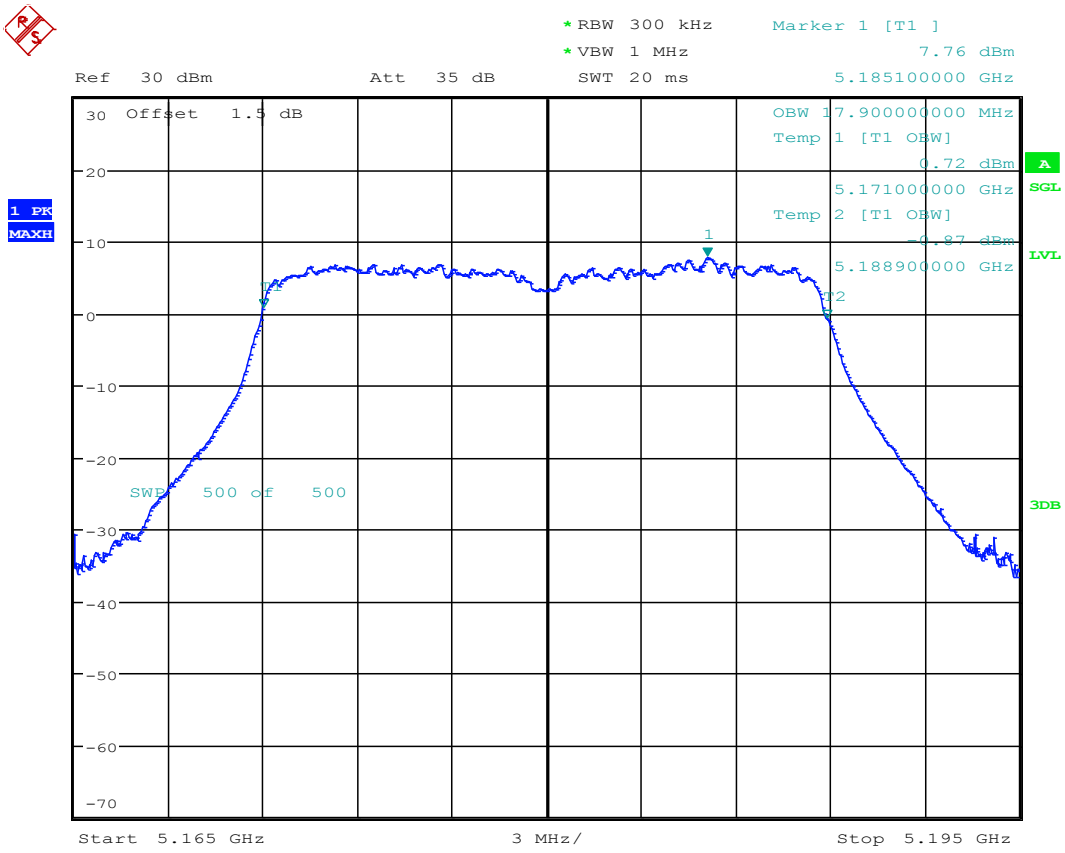
Date: 8.MAR.2018 14:26:15

6.48 11AC20_165 ANT 2



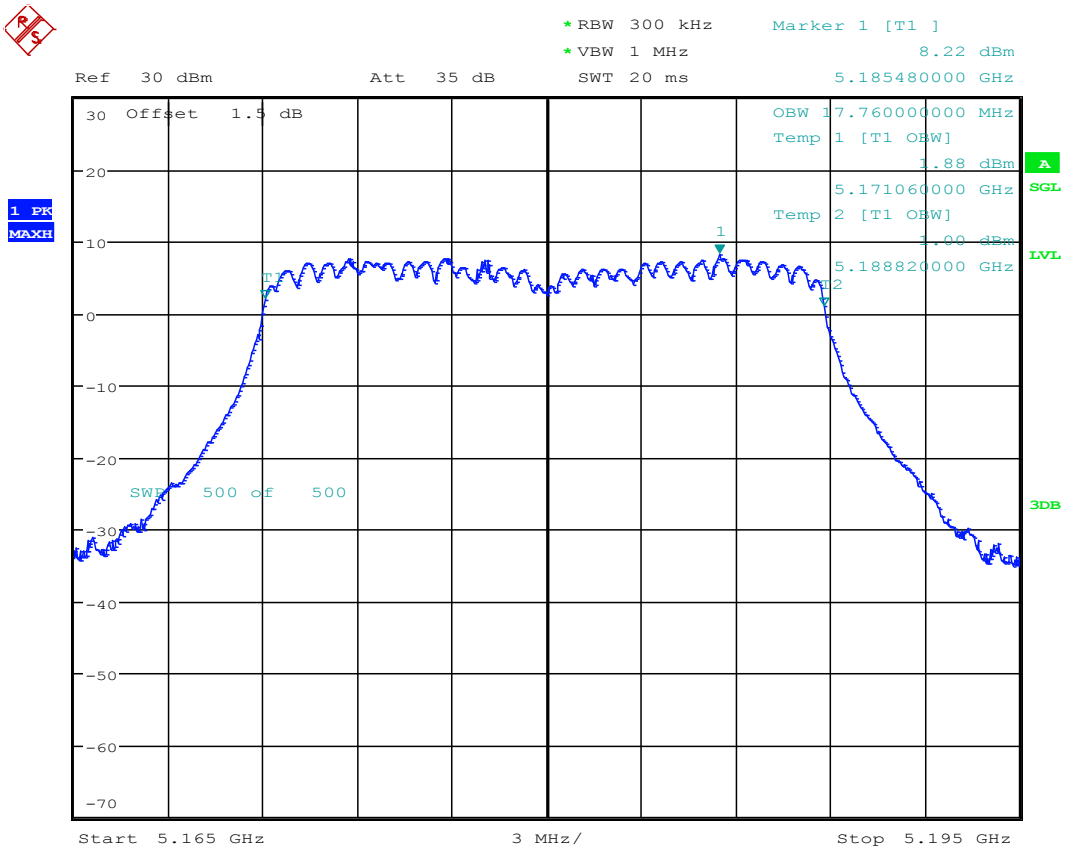
Date: 6.MAR.2018 13:52:12

6.49 11AC20MIMO_36 ANT 1

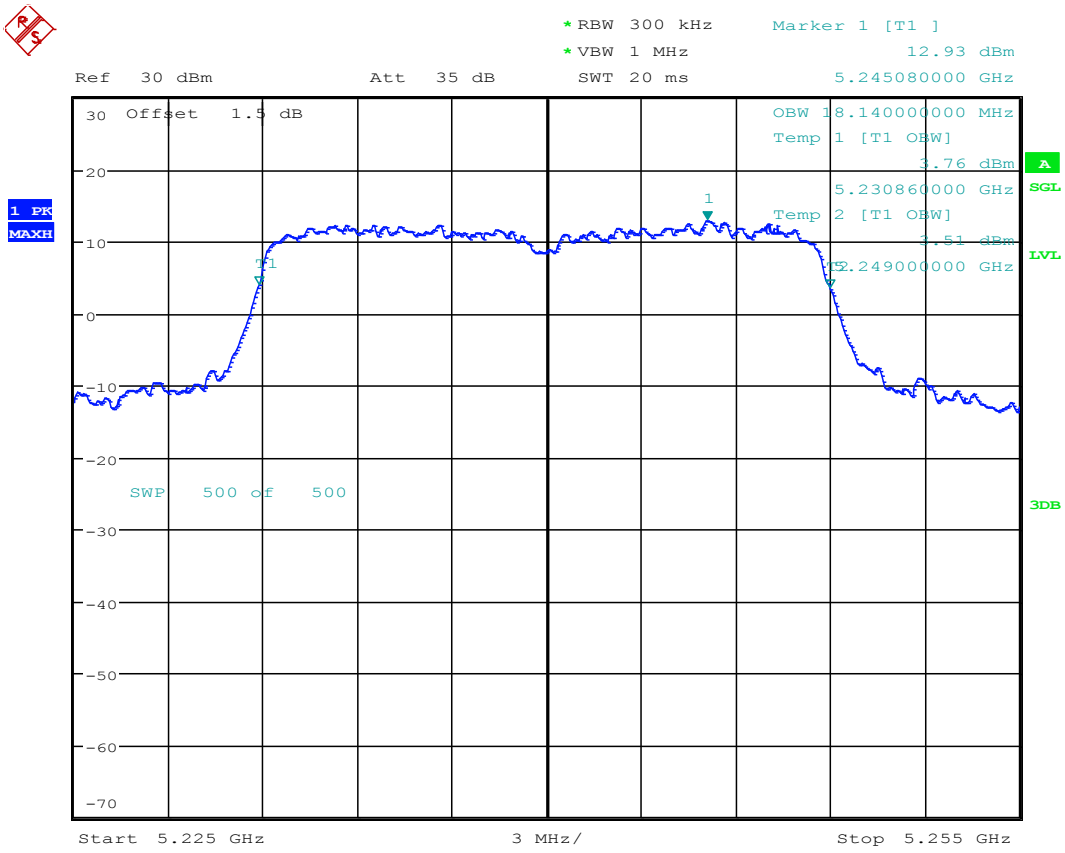


Date: 6.MAR.2018 16:23:26

6.50 11AC20MIMO_36 ANT 2

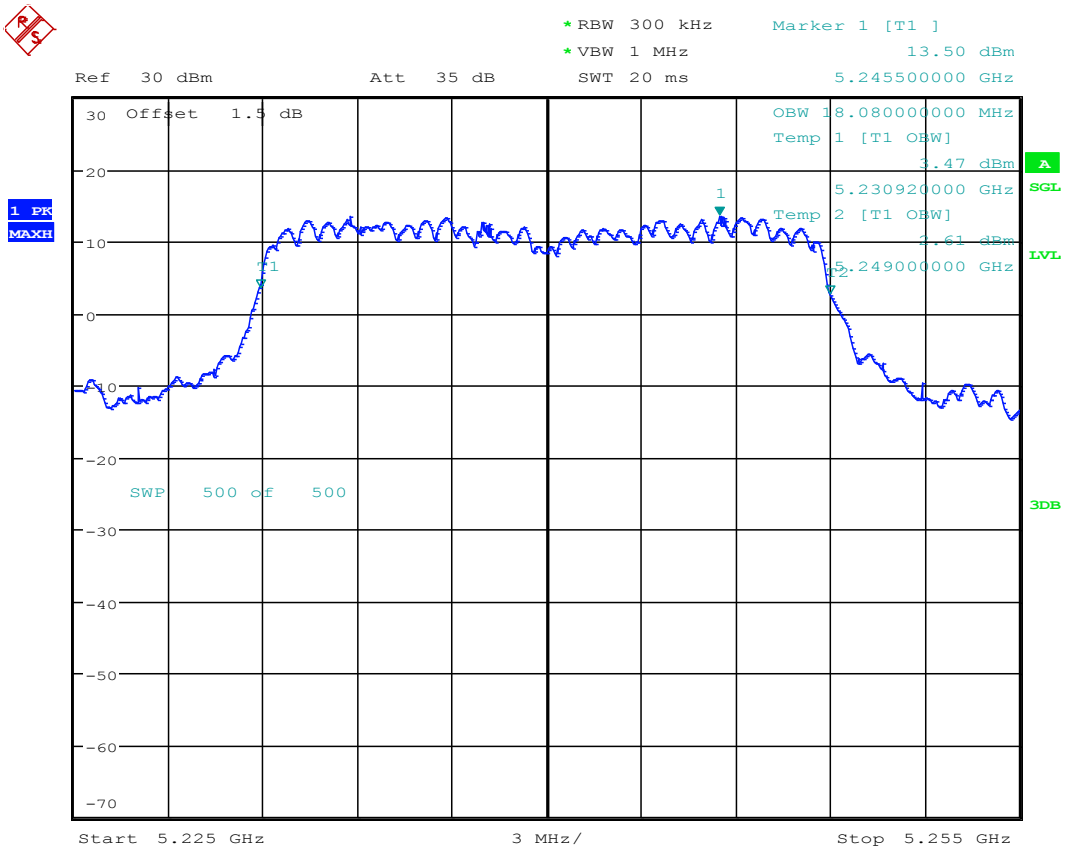


6.51 11AC20MIMO_48 ANT 1



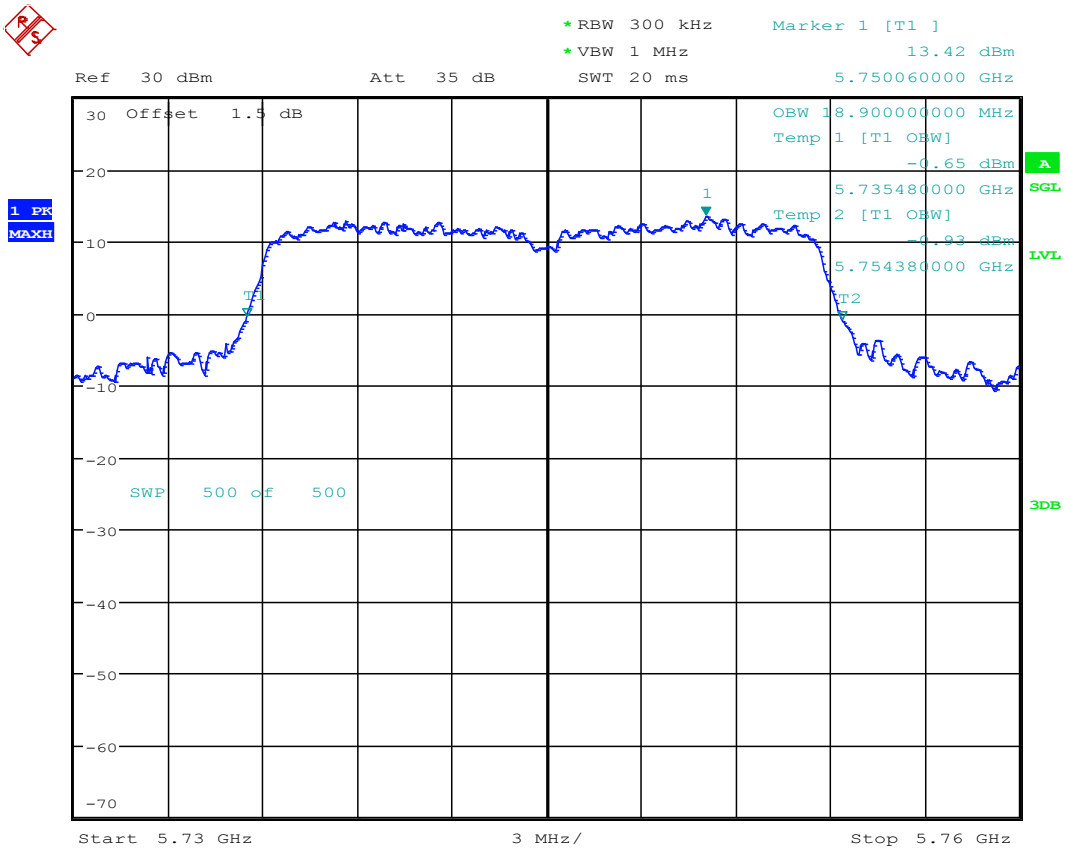
Date: 6.MAR.2018 16:49:22

6.52 11AC20MIMO_48 ANT 2

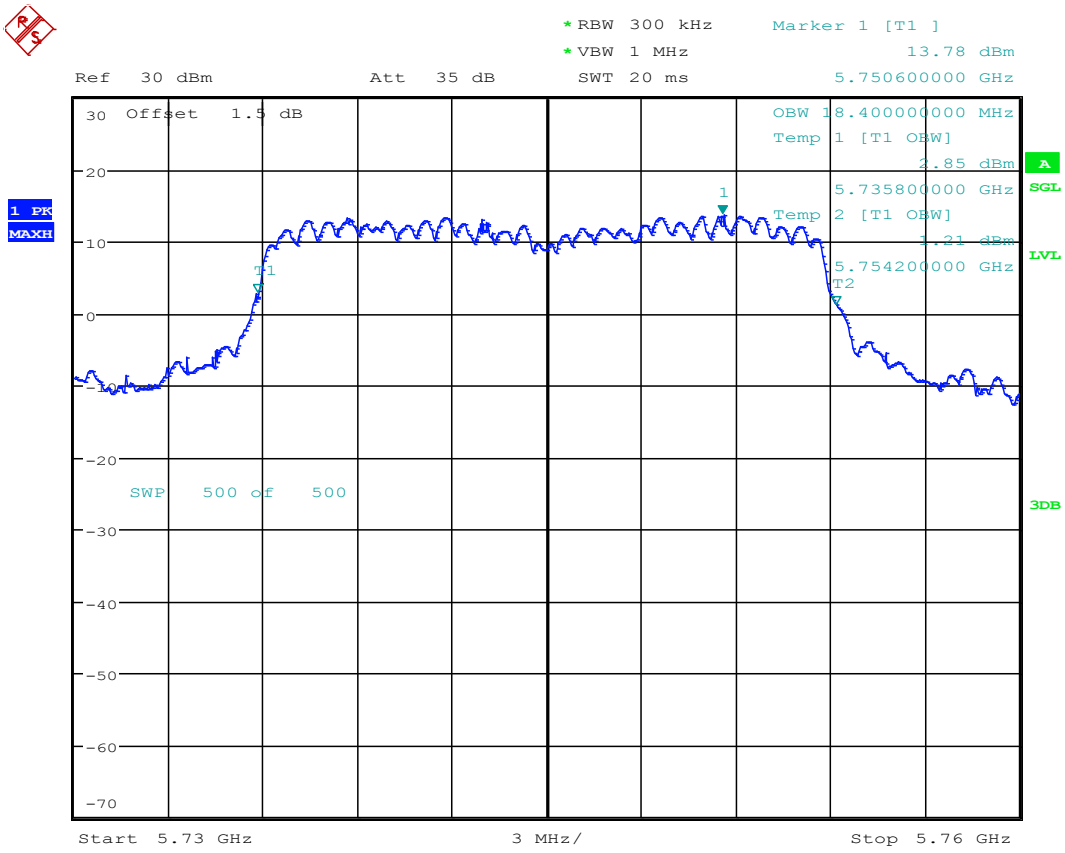


Date: 6.MAR.2018 18:17:01

6.53 11AC20MIMO_149 ANT 1

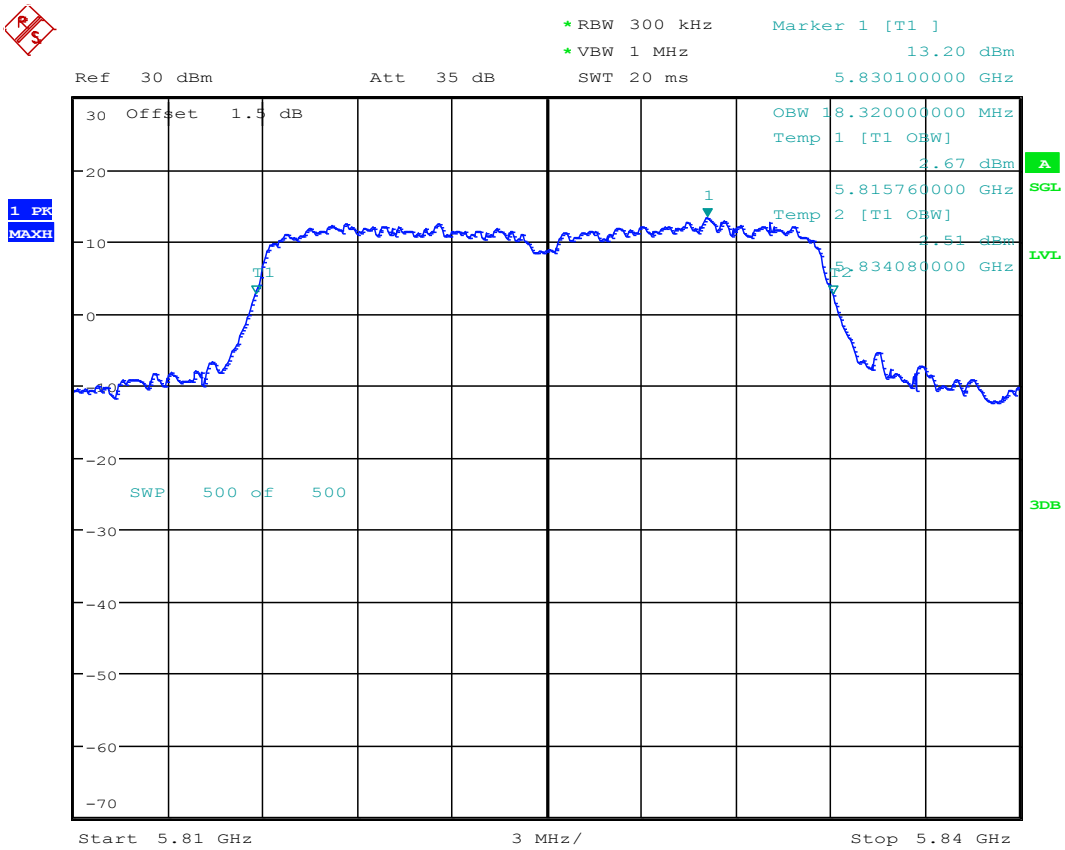


6.54 11AC20MIMO_149 ANT 2



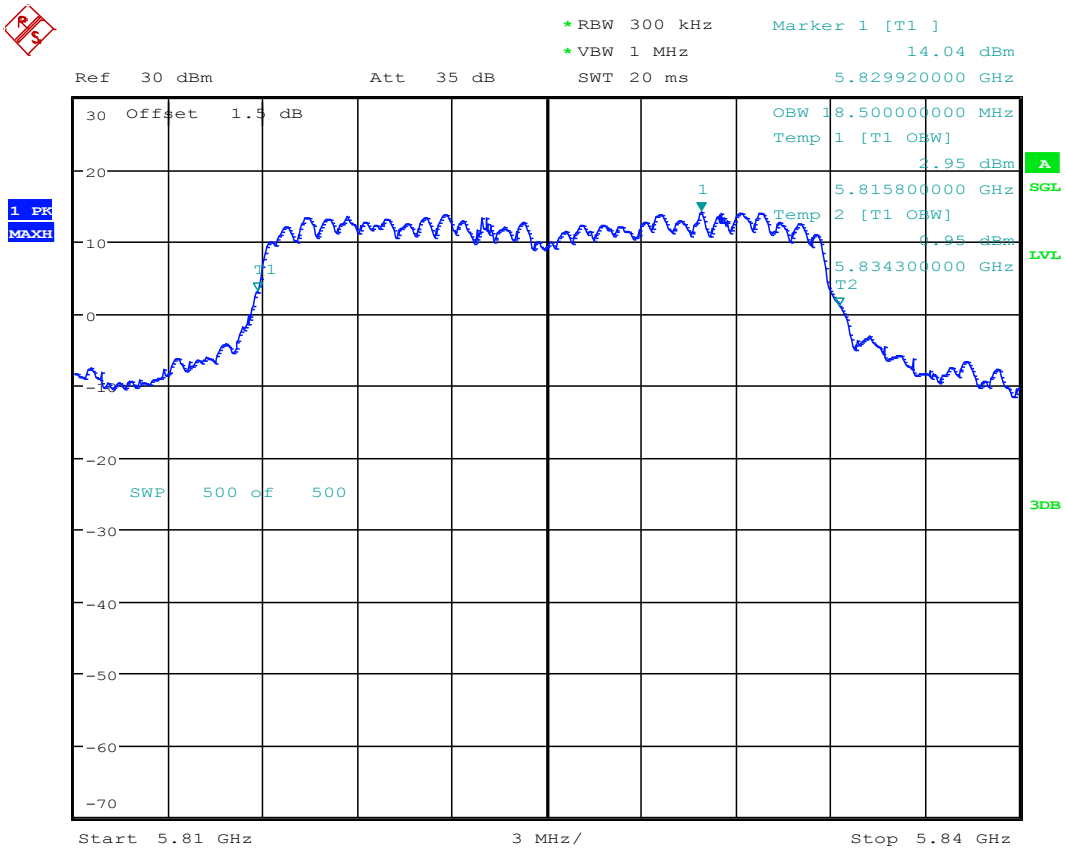
Date: 6.MAR.2018 18:20:05

6.55 11AC20MIMO_165 ANT 1



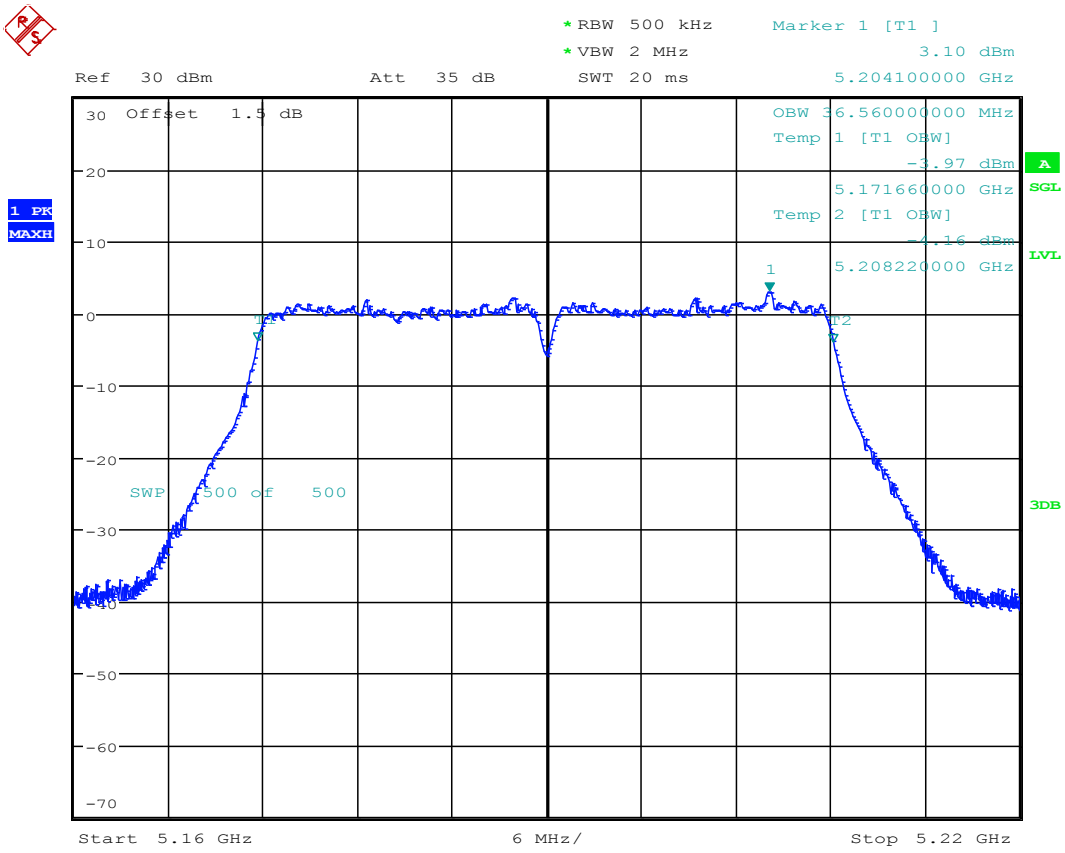
Date: 6.MAR.2018 16:59:53

6.56 11AC20MIMO_165 ANT 2



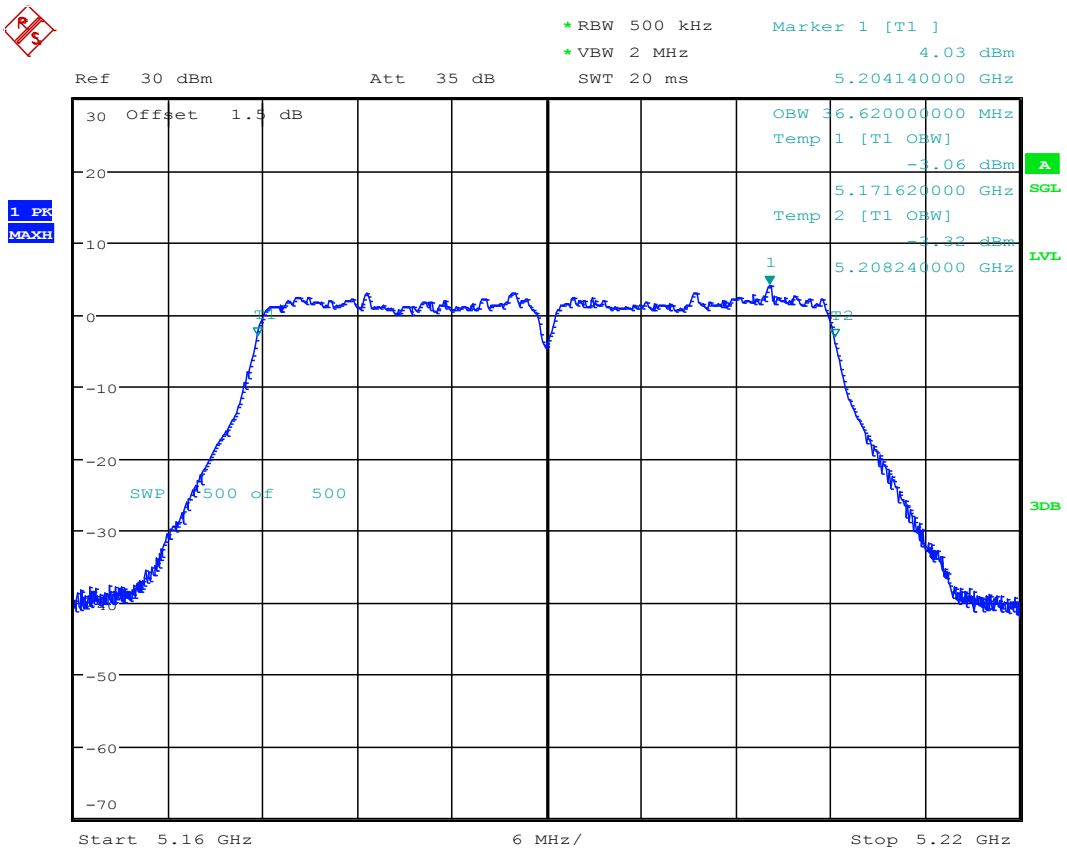
Date: 6.MAR.2018 18:28:13

6.57 11AC40_38 ANT 1

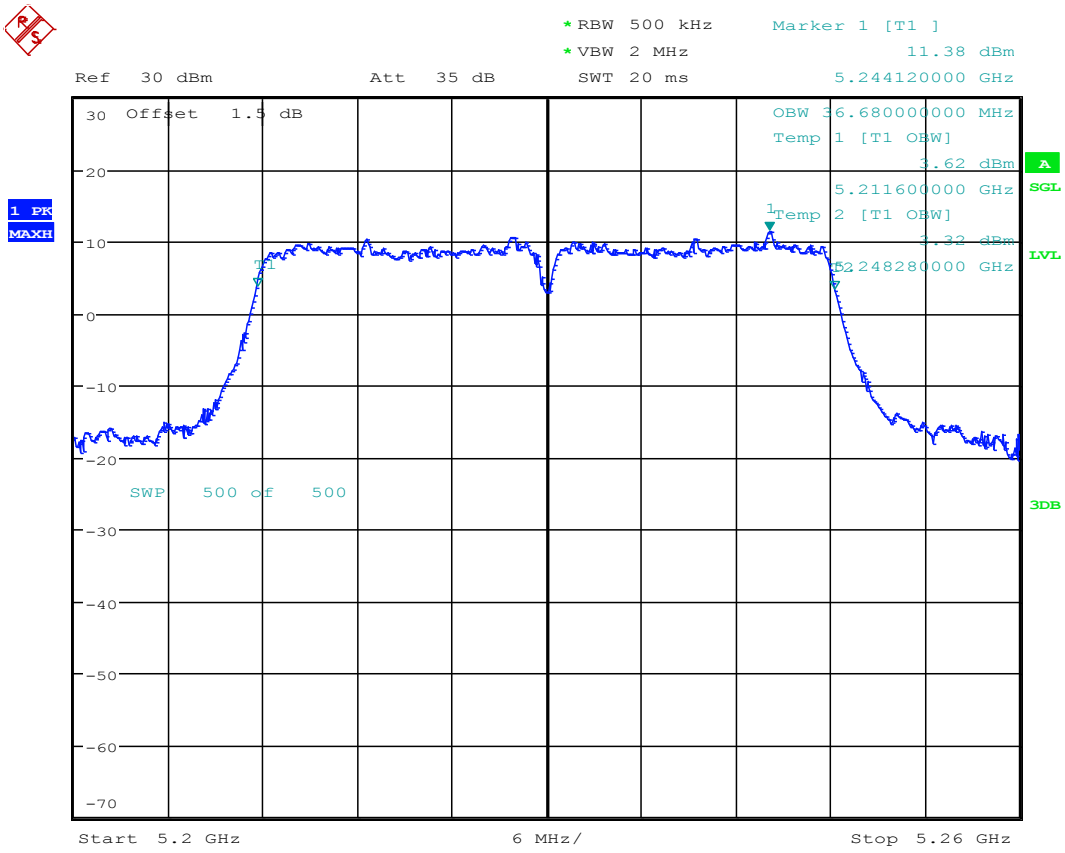


Date: 8.MAR.2018 14:33:44

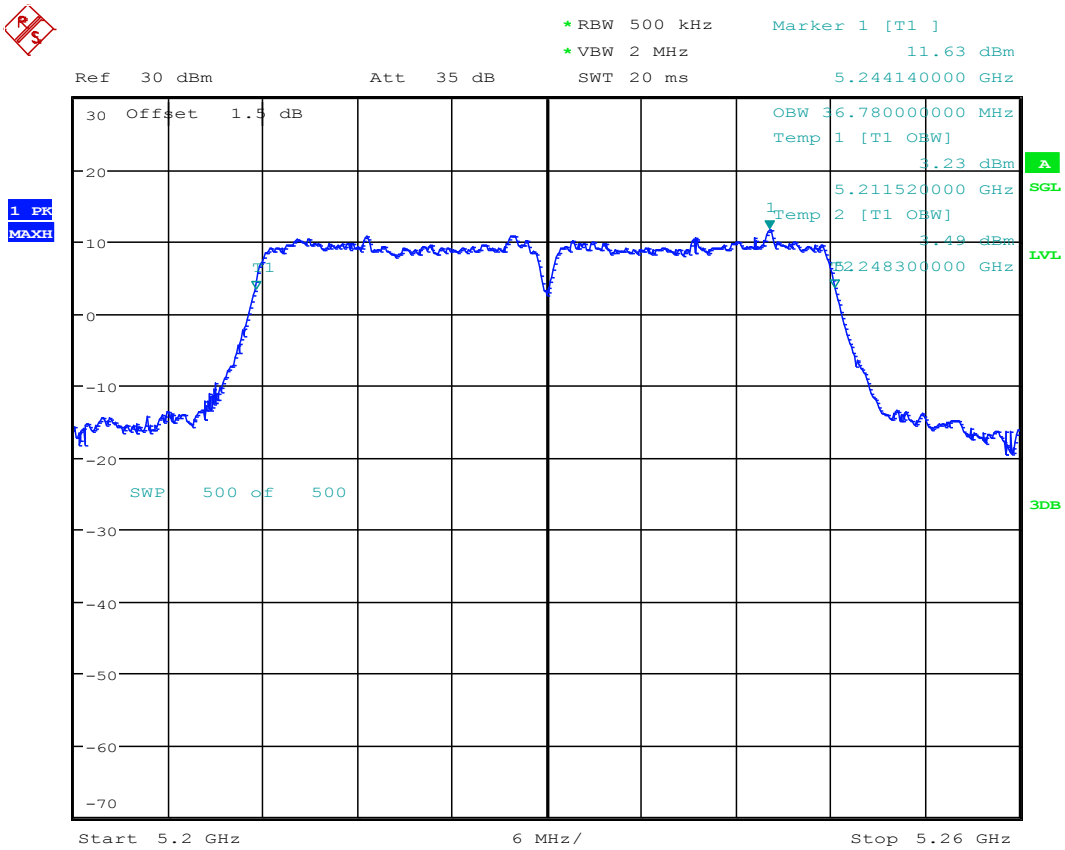
6.58 11AC40_38 ANT 2



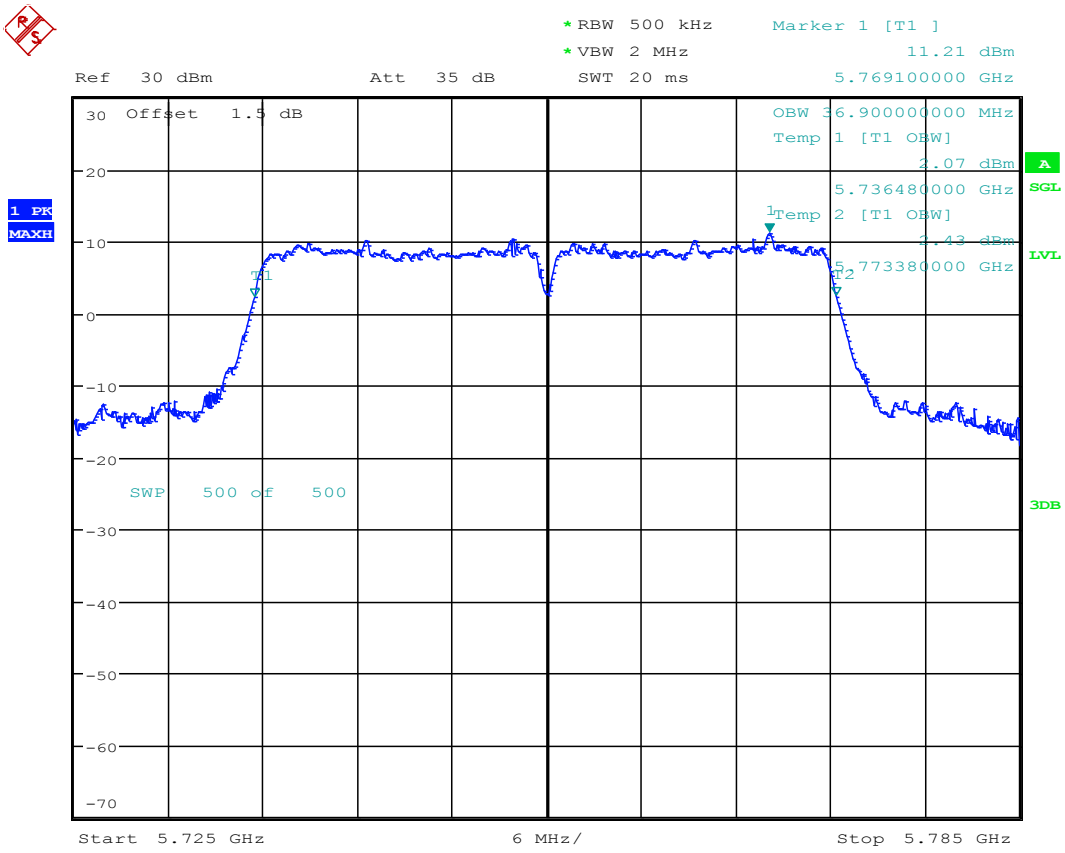
6.59 11AC40_46 ANT 1



6.60 11AC40_46 ANT 2

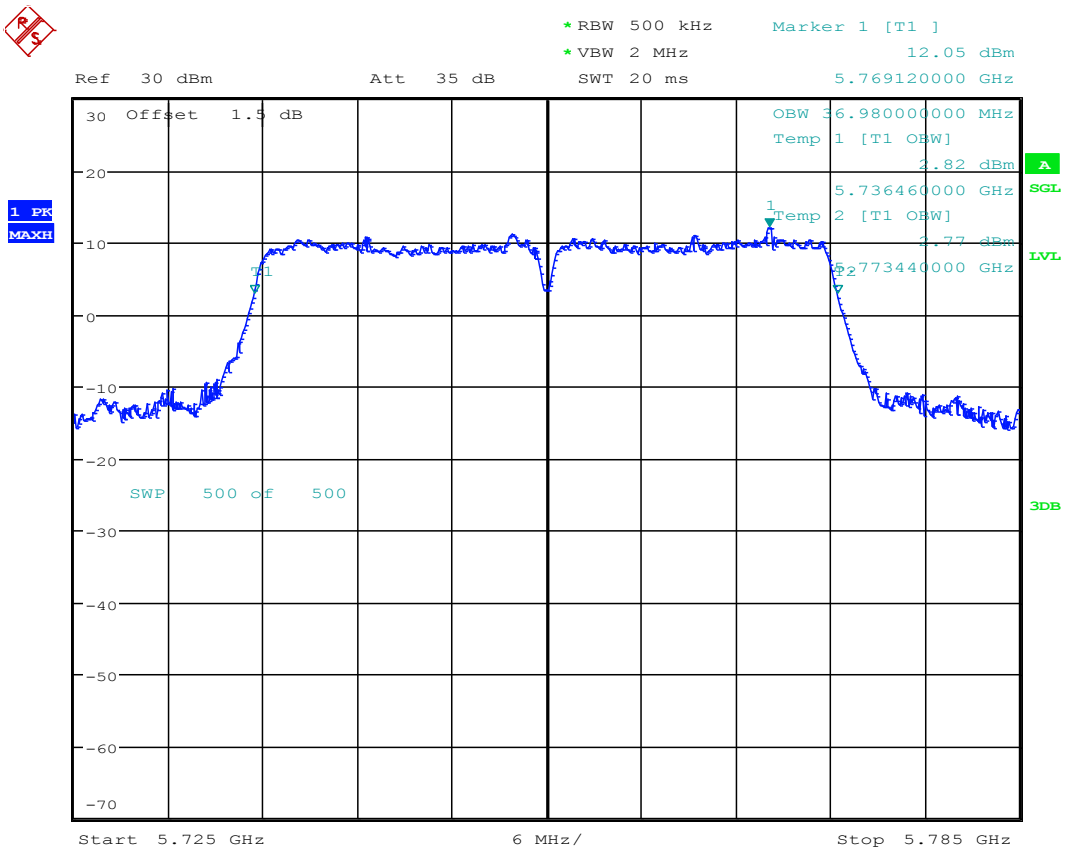


6.61 11AC40_151 ANT 1



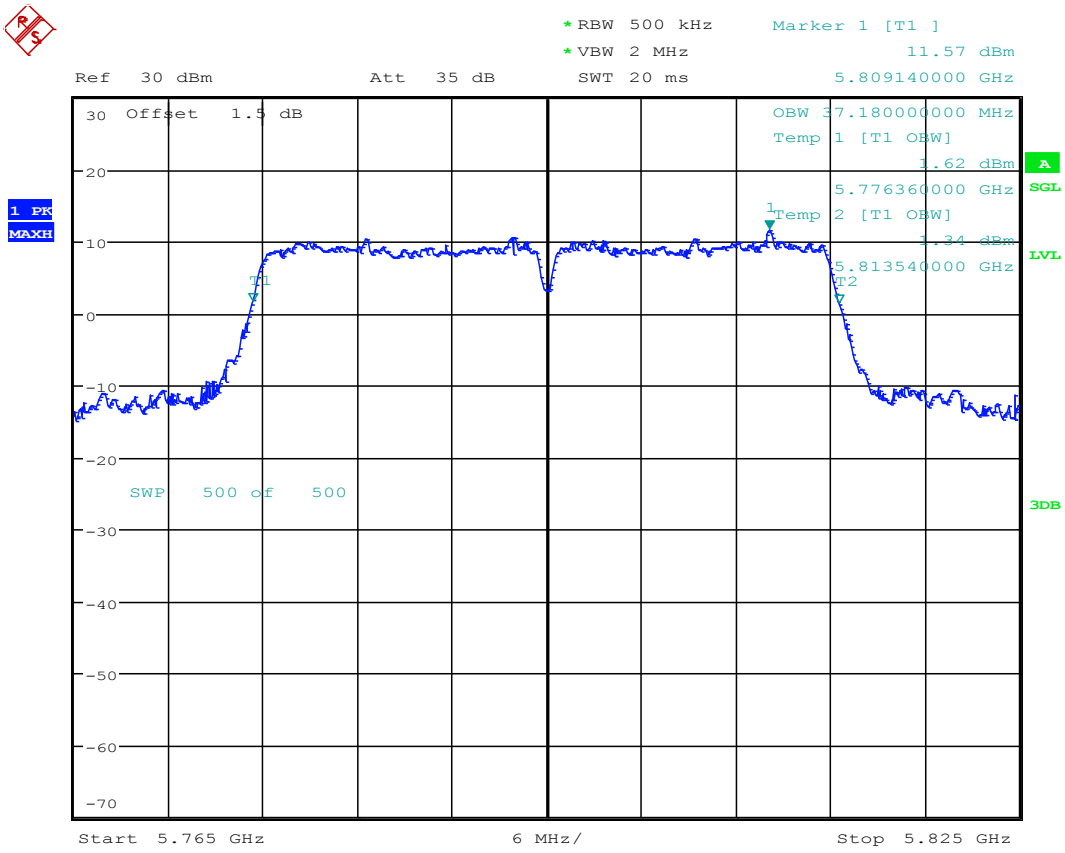
Date: 8.MAR.2018 14:50:29

6.62 11AC40_151 ANT 2



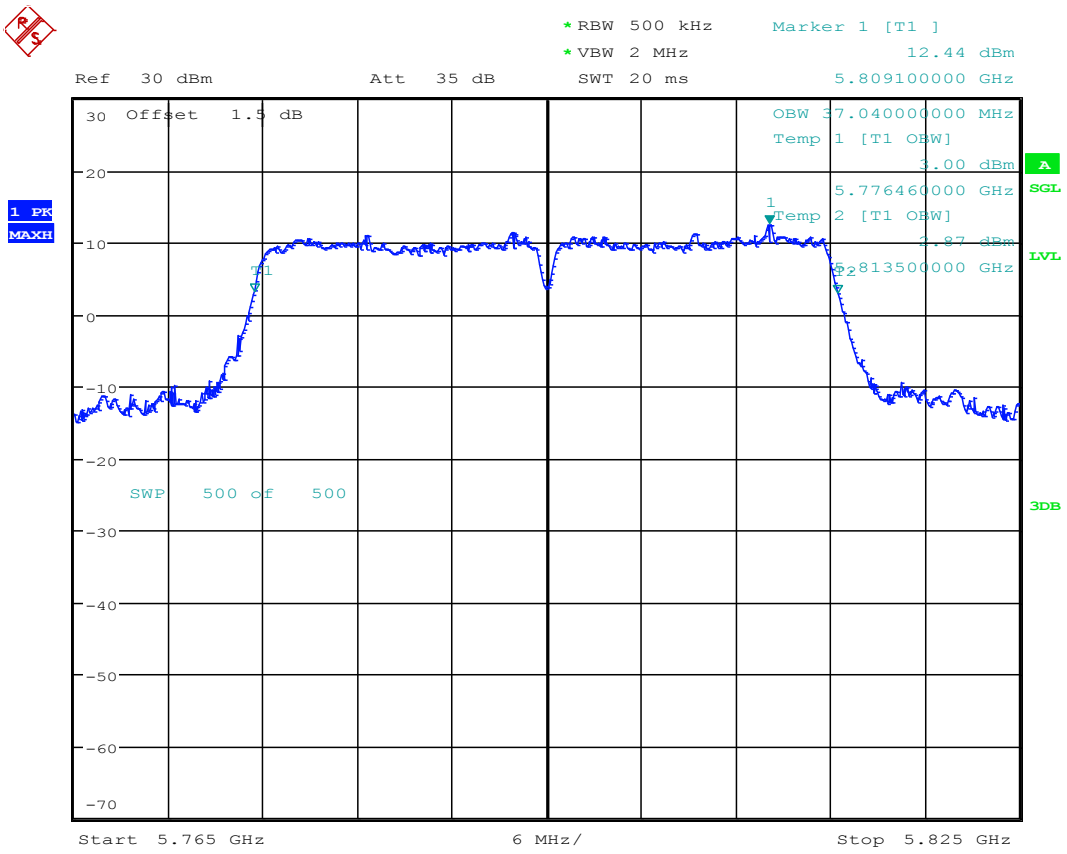
Date: 6.MAR.2018 14:22:55

6.63 11AC40_159 ANT 1

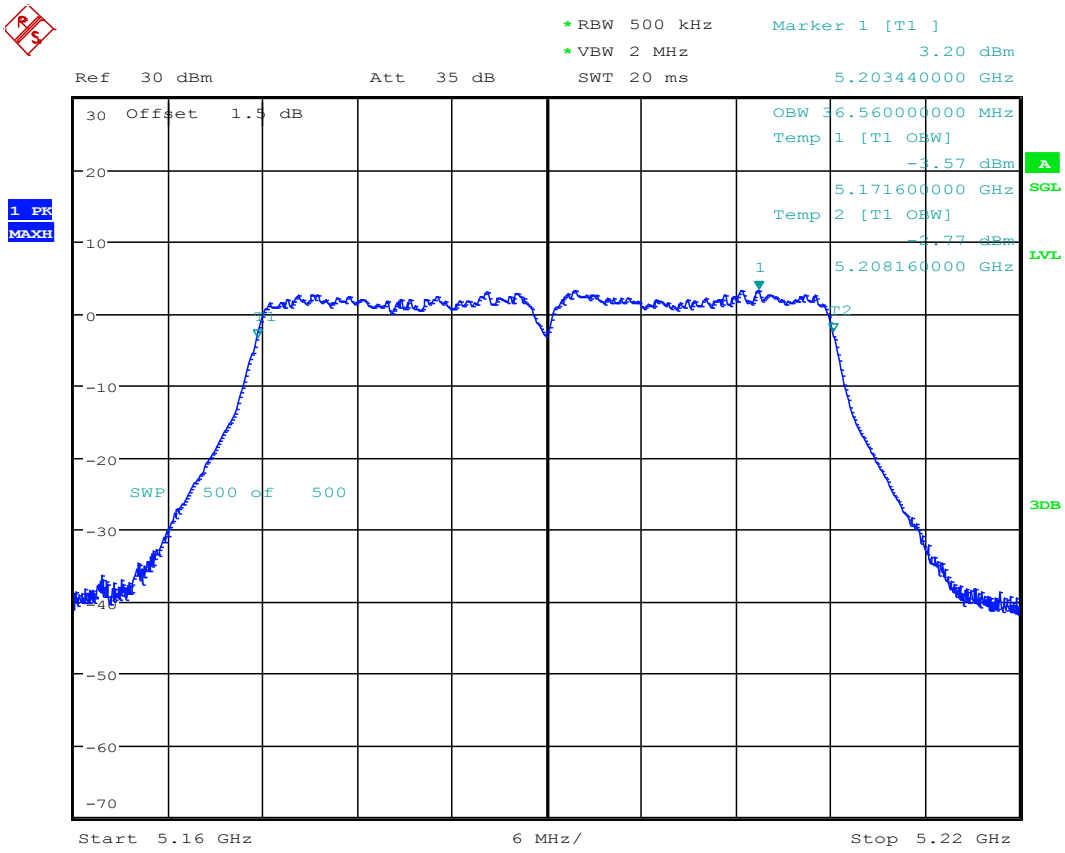


Date: 8.MAR.2018 14:47:02

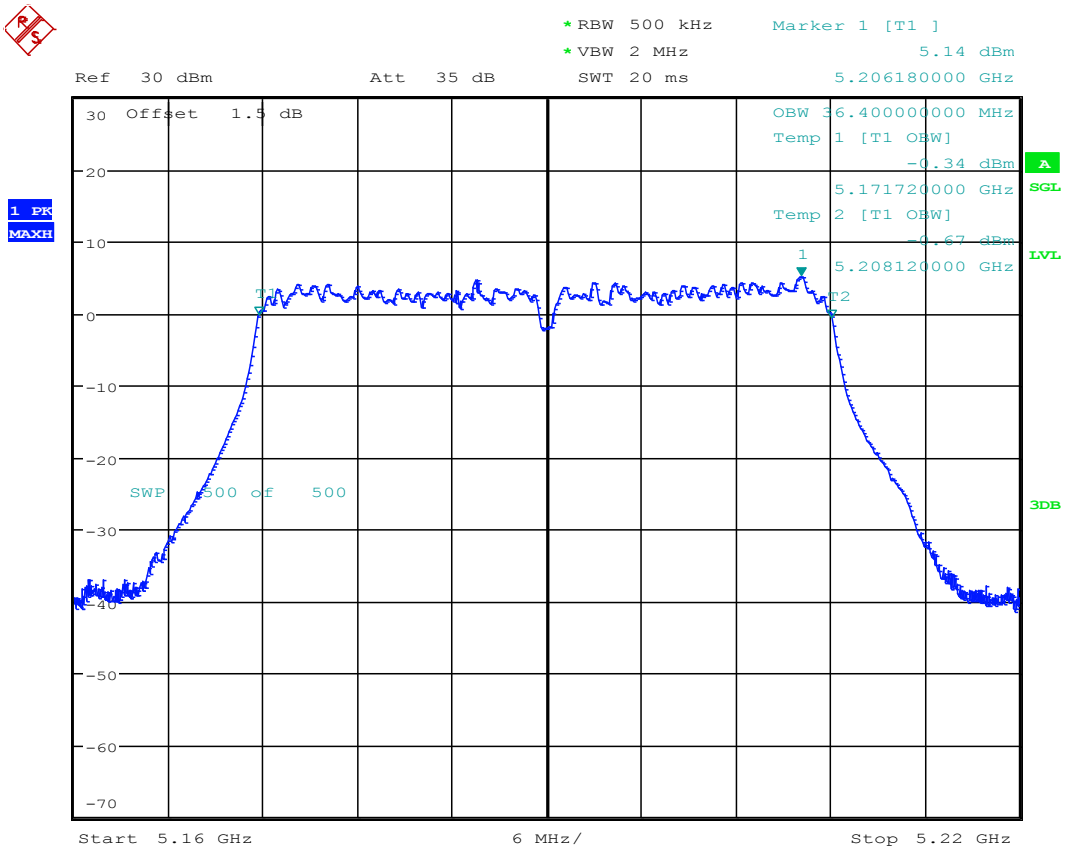
6.64 11AC40_159 ANT 2



6.65 11AC40MIMO_38 ANT 1

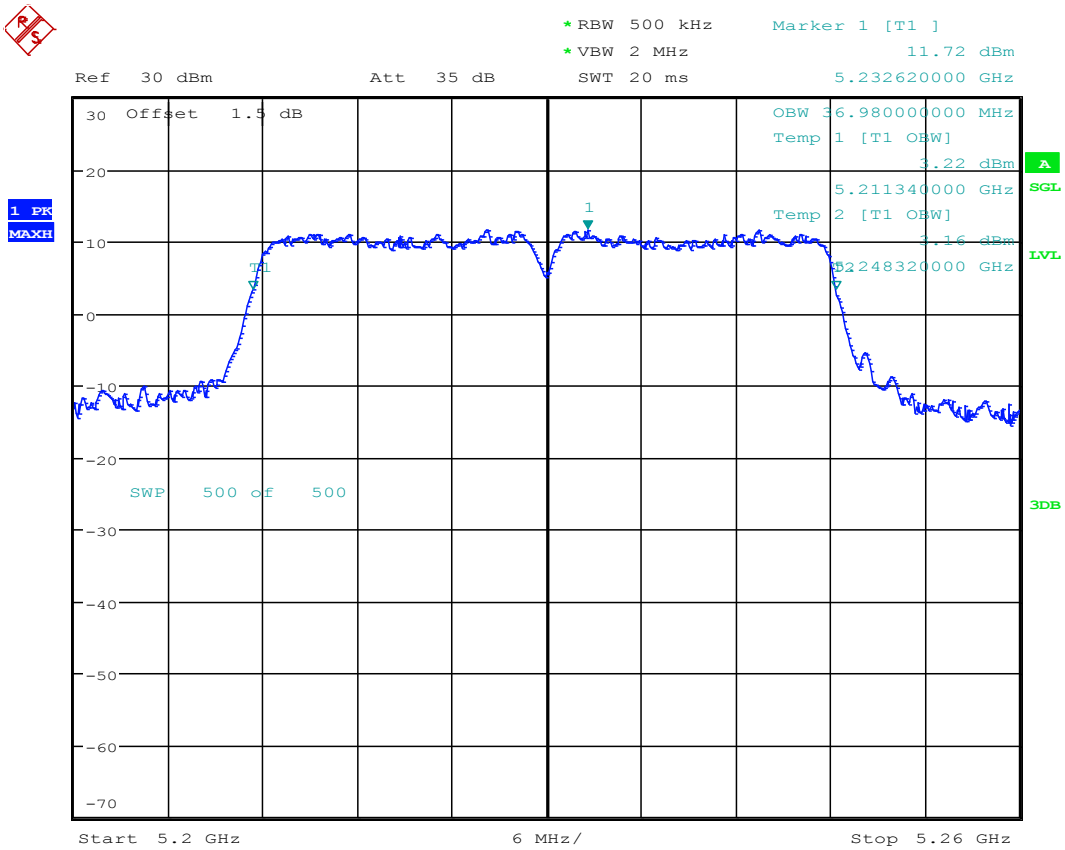


6.66 11AC40MIMO_38 ANT 2

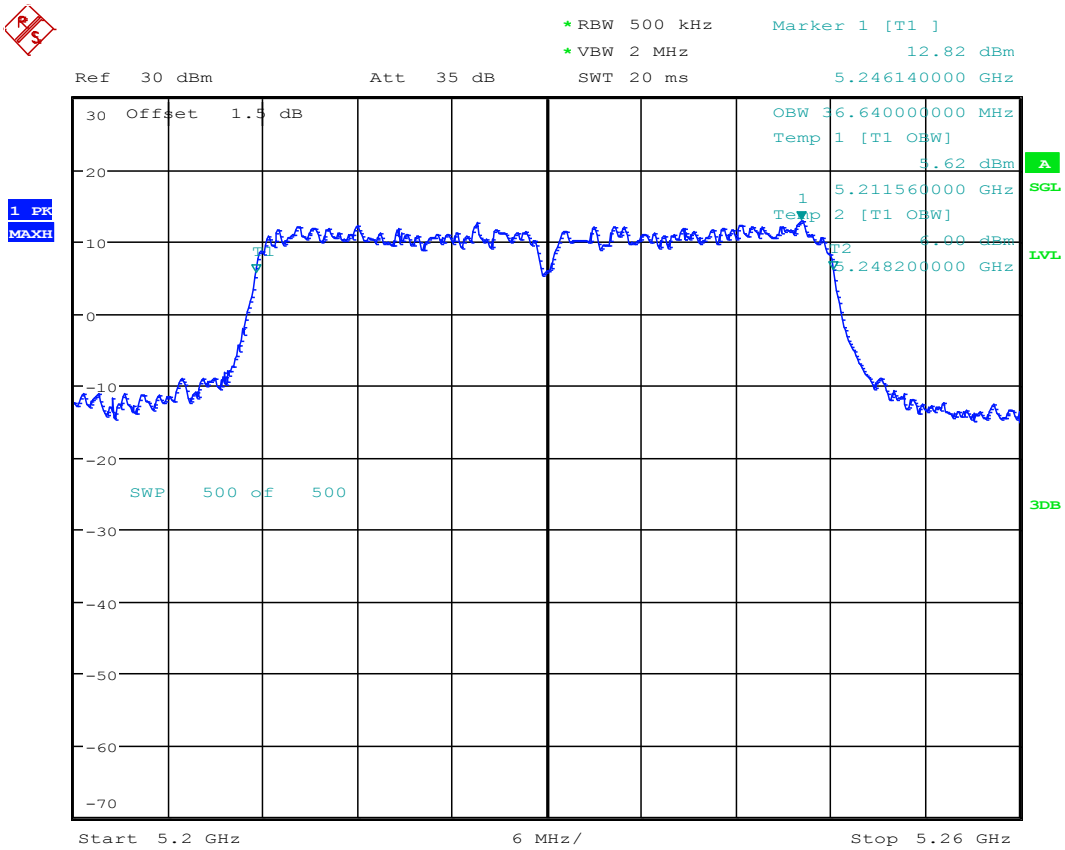


Date: 6.MAR.2018 18:47:24

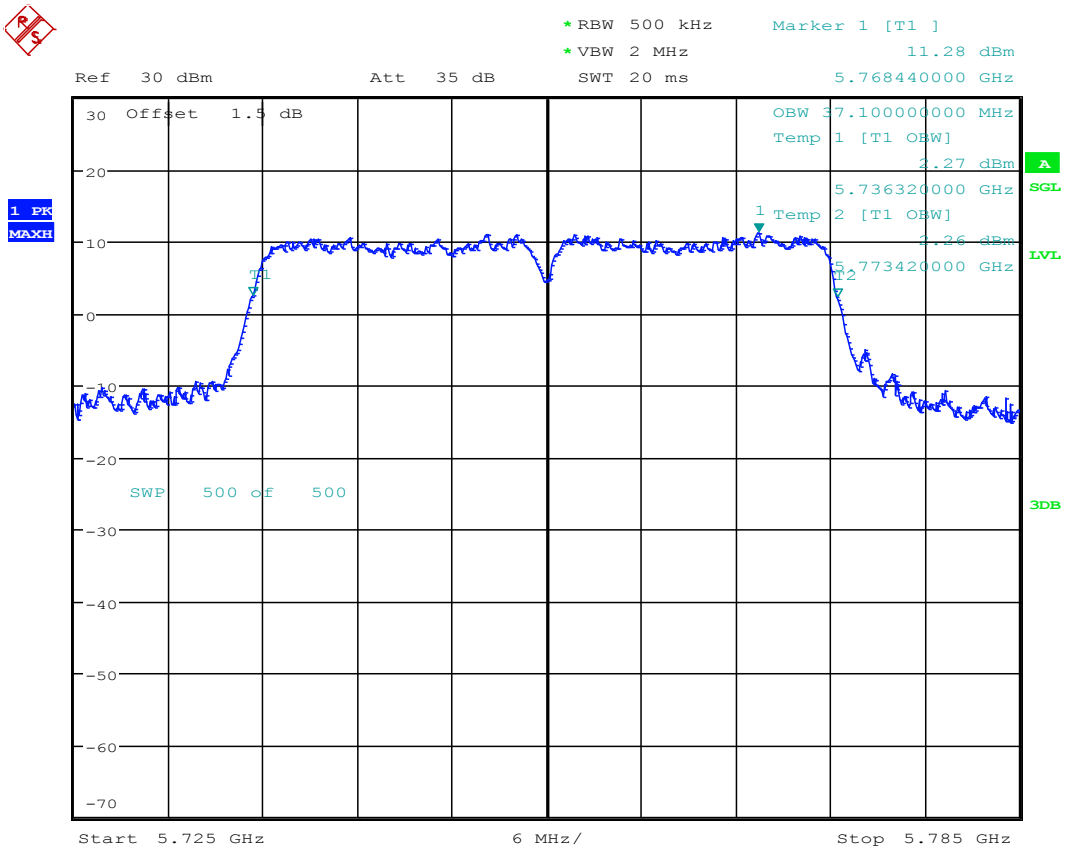
6.67 11AC40MIMO_46 ANT 1



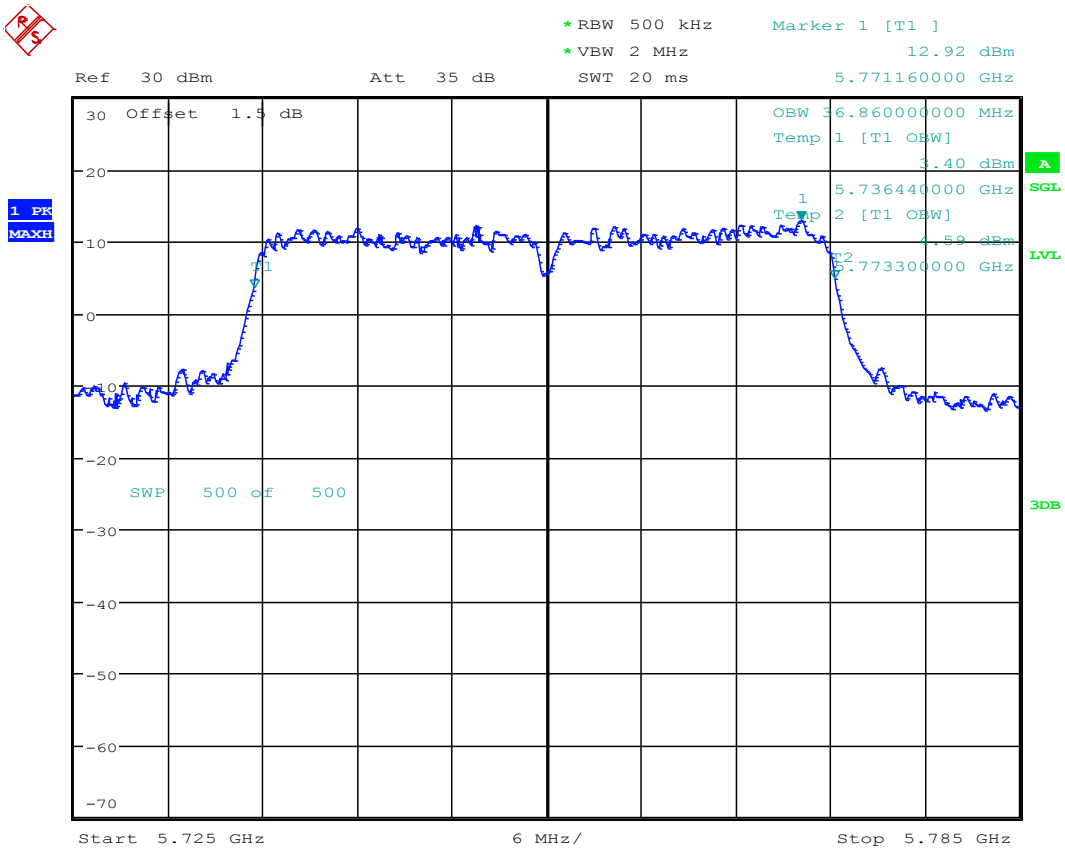
6.68 11AC40MIMO_46 ANT 2



6.69 11AC40MIMO_151 ANT 1

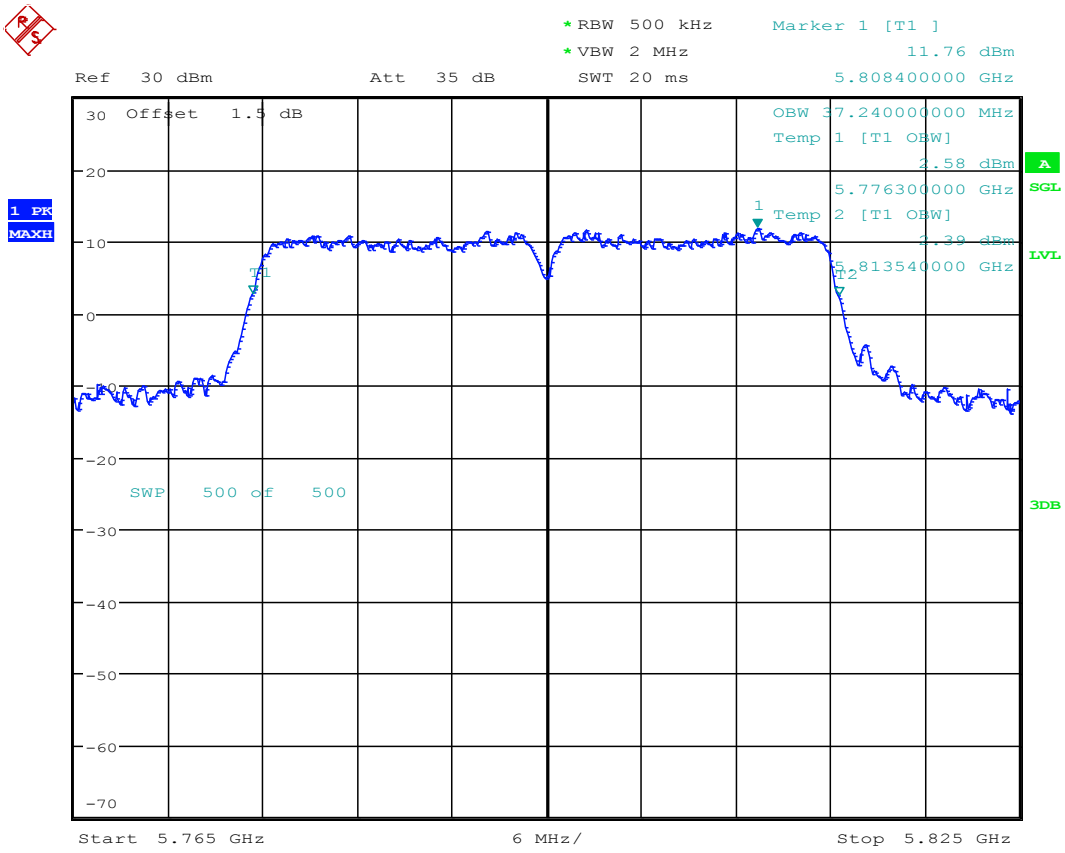


6.70 11AC40MIMO_151 ANT 2



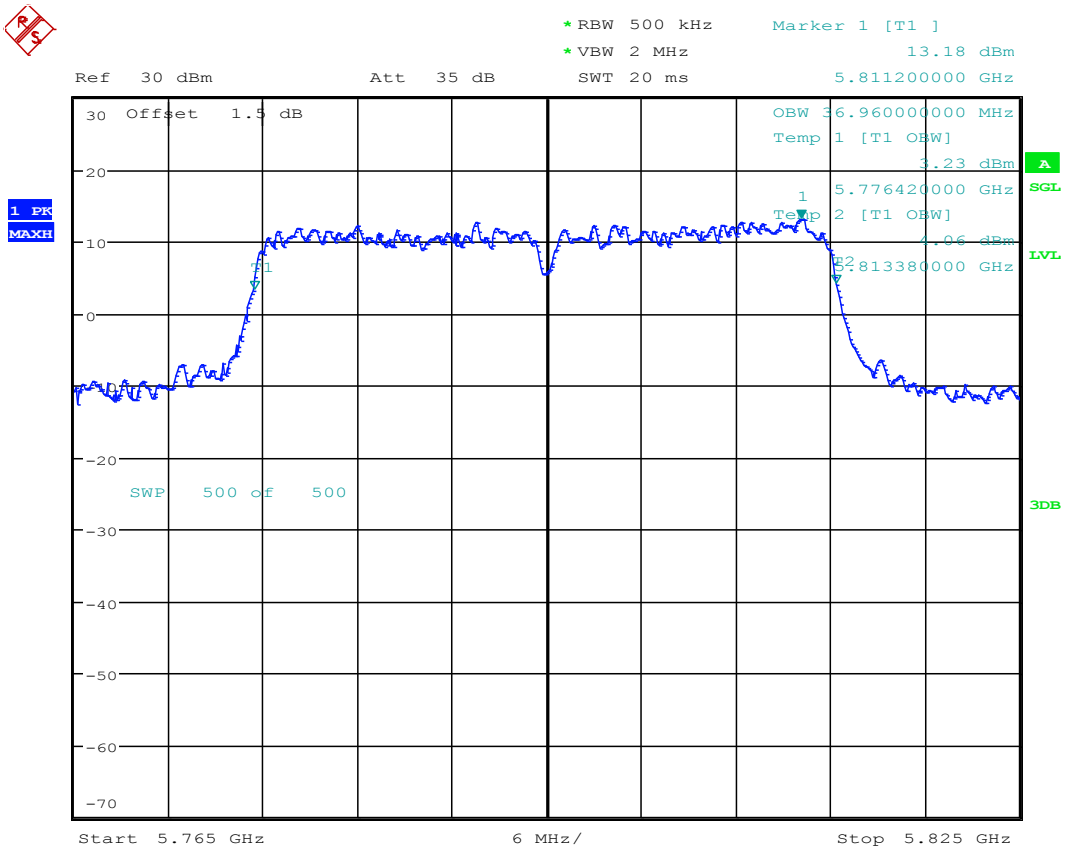
Date: 6.MAR.2018 18:52:59

6.71 11AC40MIMO_159 ANT 1



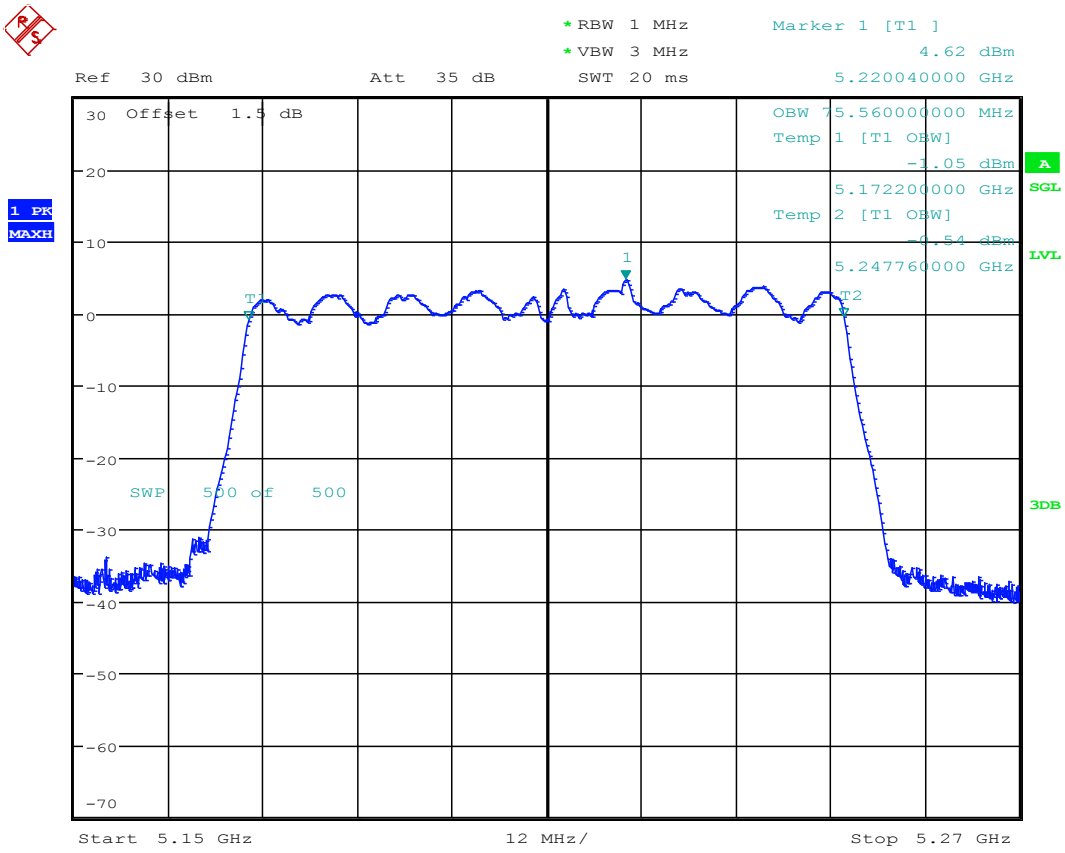
Date: 6.MAR.2018 17:33:06

6.72 11AC40MIMO_159 ANT 2

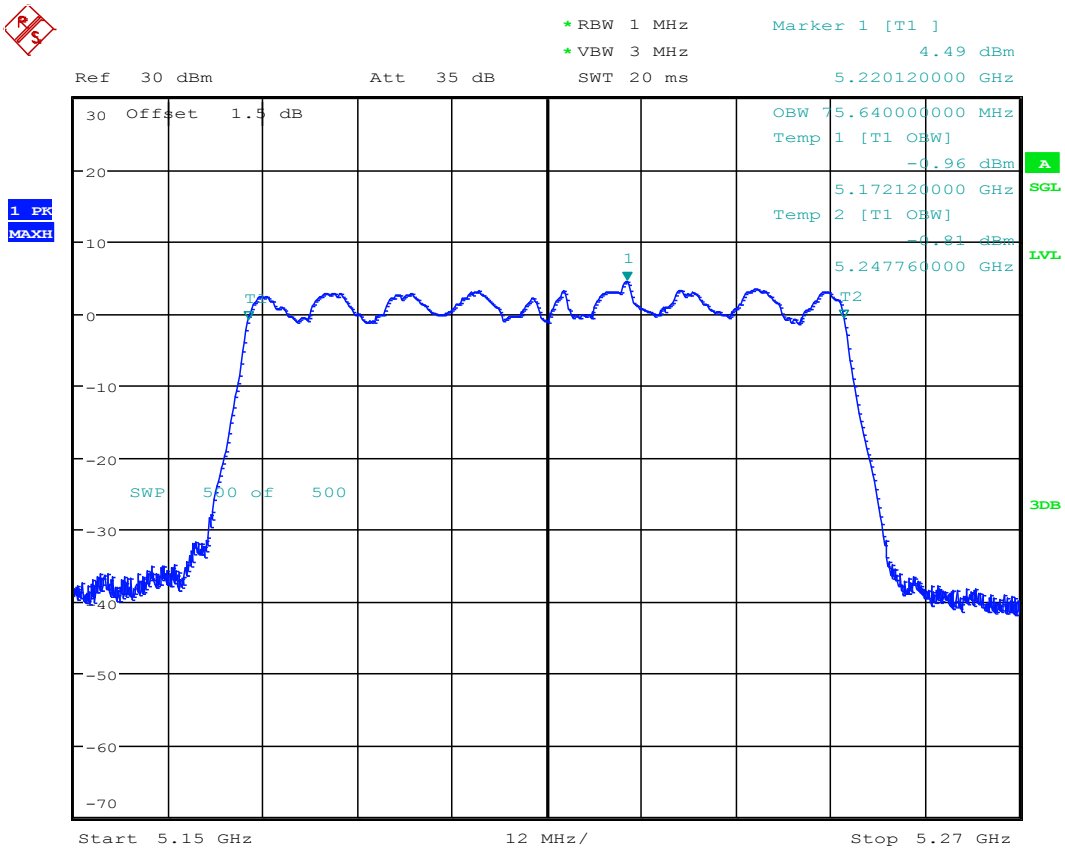


Date: 6.MAR.2018 18:57:31

6.73 11AC80_42 ANT 1

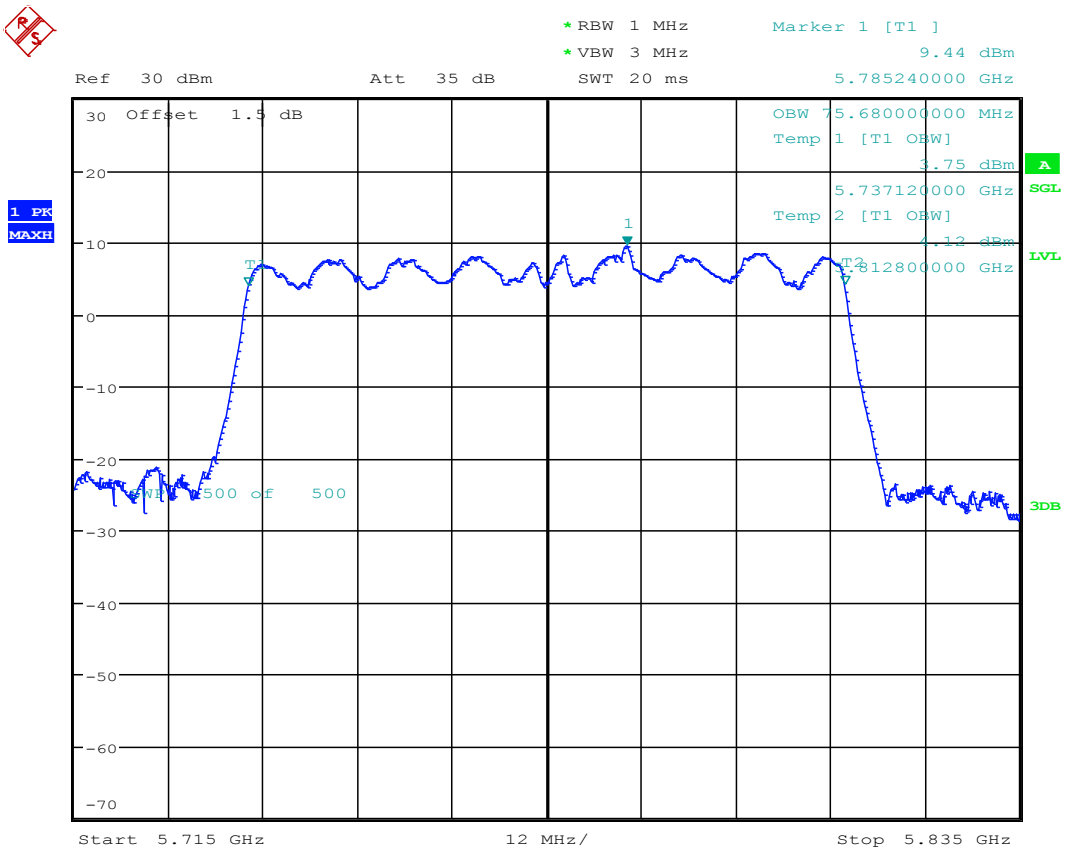


6.74 11AC80_42 ANT 2



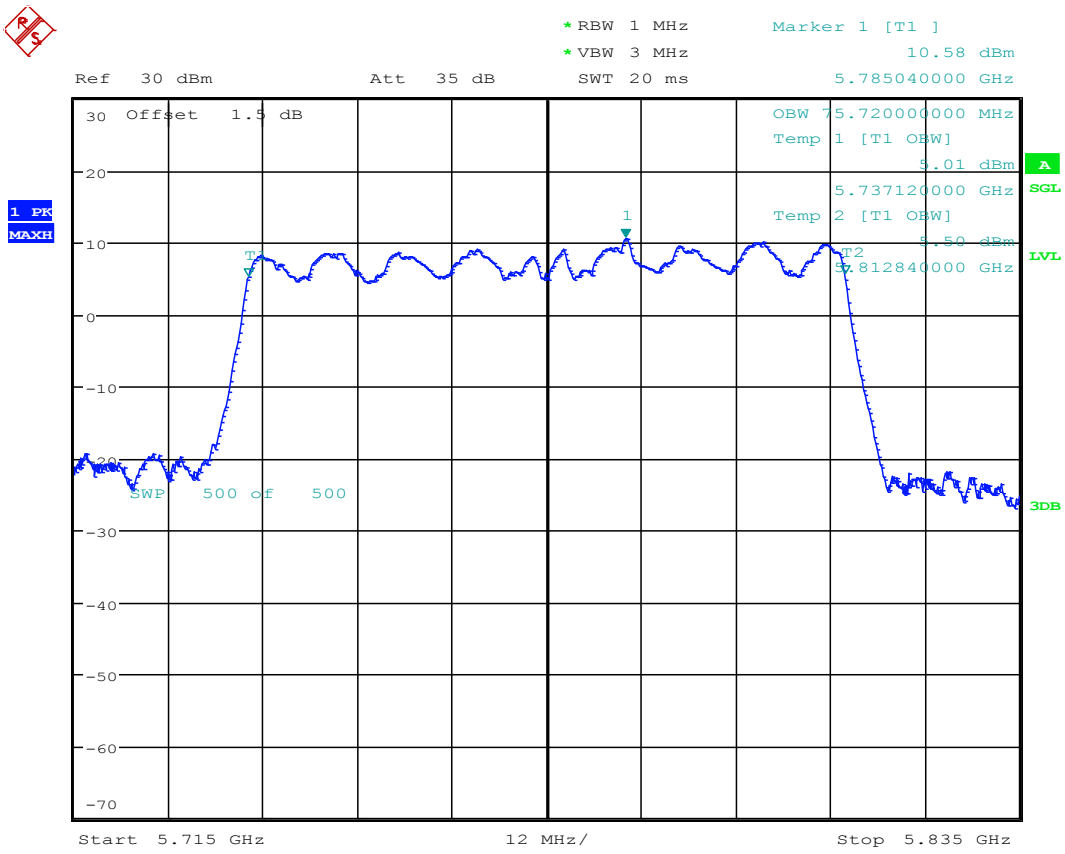
Date: 6.MAR.2018 14:39:04

6.75 11AC80_155 ANT 1

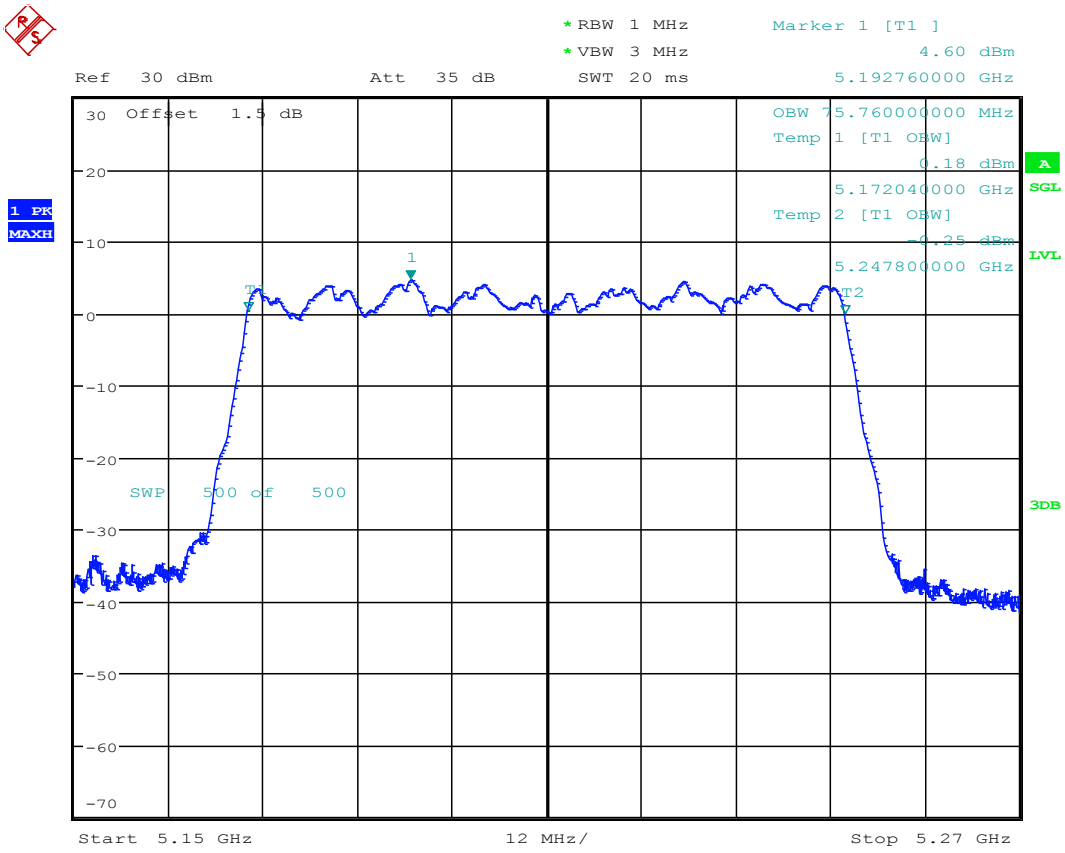


Date: 8.MAR.2018 15:00:28

6.76 11AC80_155 ANT 2

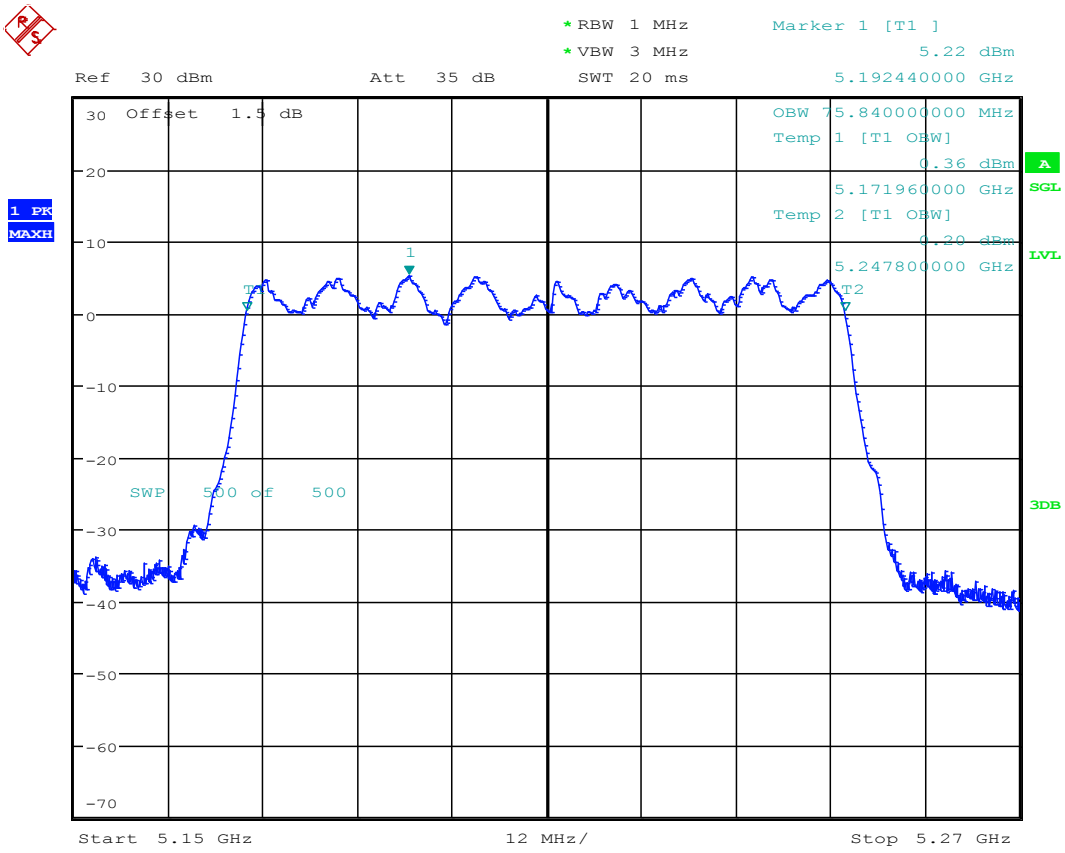


6.77 11AC80MIMO_42 ANT 1

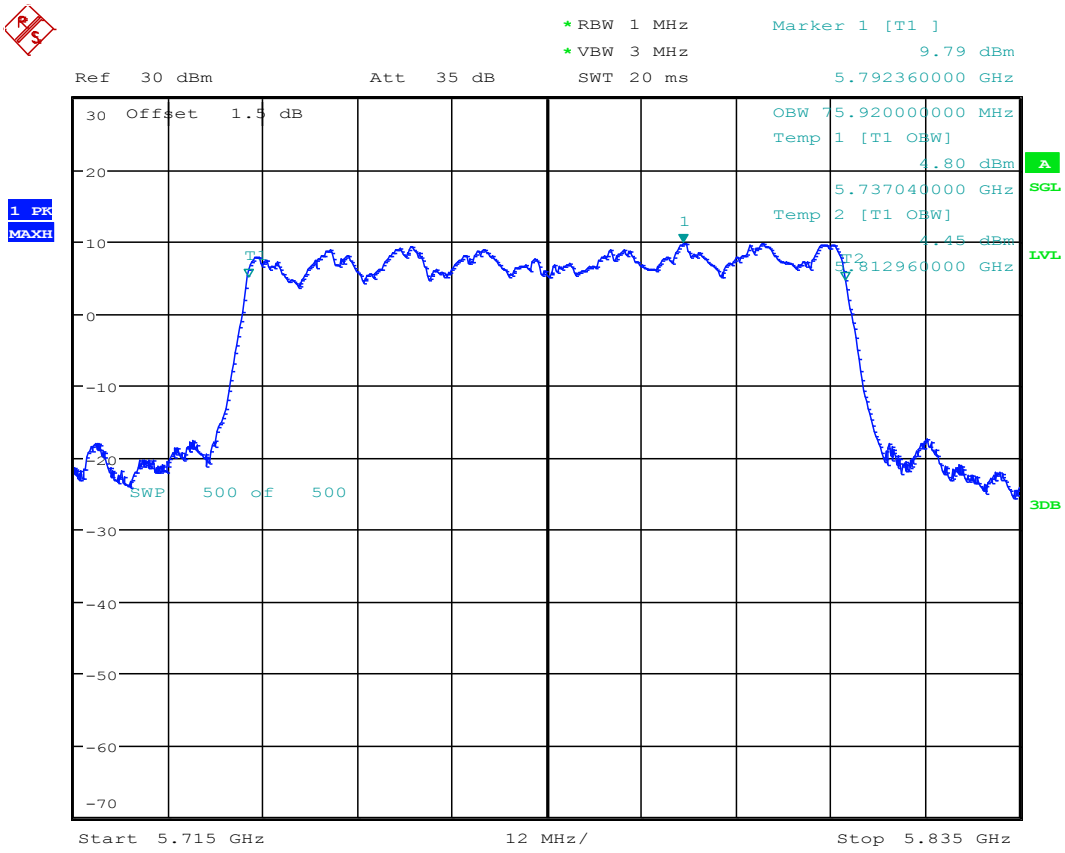


Date: 6.MAR.2018 17:37:55

6.78 11AC80MIMO_42 ANT 2

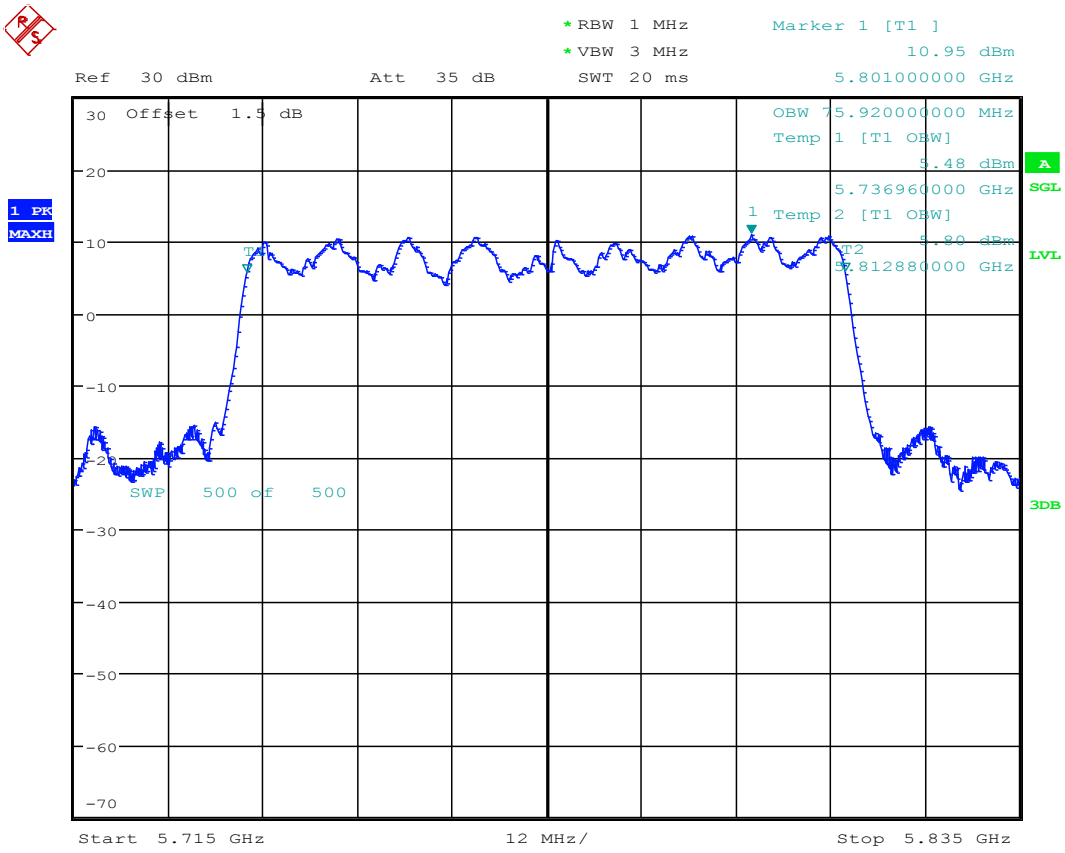


6.79 11AC80MIMO_155 ANT 1



Date: 6.MAR.2018 17:40:53

6.80 11AC80MIMO_155 ANT 2



Date: 6.MAR.2018 17:44:14

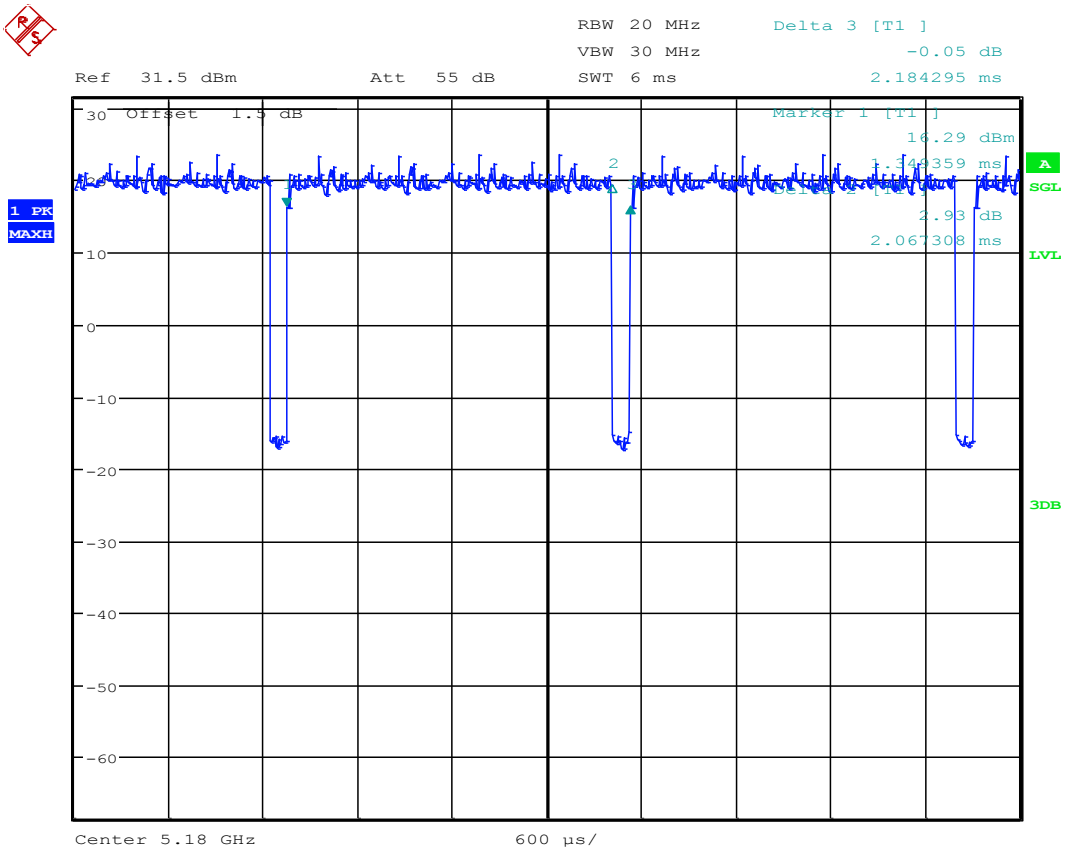
Appendix C: Duty Cycle

7 Part I - Test Results

Test Mode	Antenna Port	Duty cycle [%]
11A	Ant 1	94.64
	Ant 2	94.71
11N20	Ant 1	94.27
	Ant 2	94.34
11N20M	Ant 1	93.39
	Ant 2	93.82
11N40	Ant 1	89.97
	Ant 2	89.59
11N40M	Ant 1	88.34
	Ant 2	88.24
11AC20	Ant 1	94.74
	Ant 2	94.84
11AC20M	Ant 1	92
	Ant 2	92
11AC40	Ant 1	90.06
	Ant 2	90.05
11AC40M	Ant 1	87.61
	Ant 2	87.11
11AC80	Ant 1	79.64
	Ant 2	79.73
11AC80M	Ant 1	73.52
	Ant 2	73.52

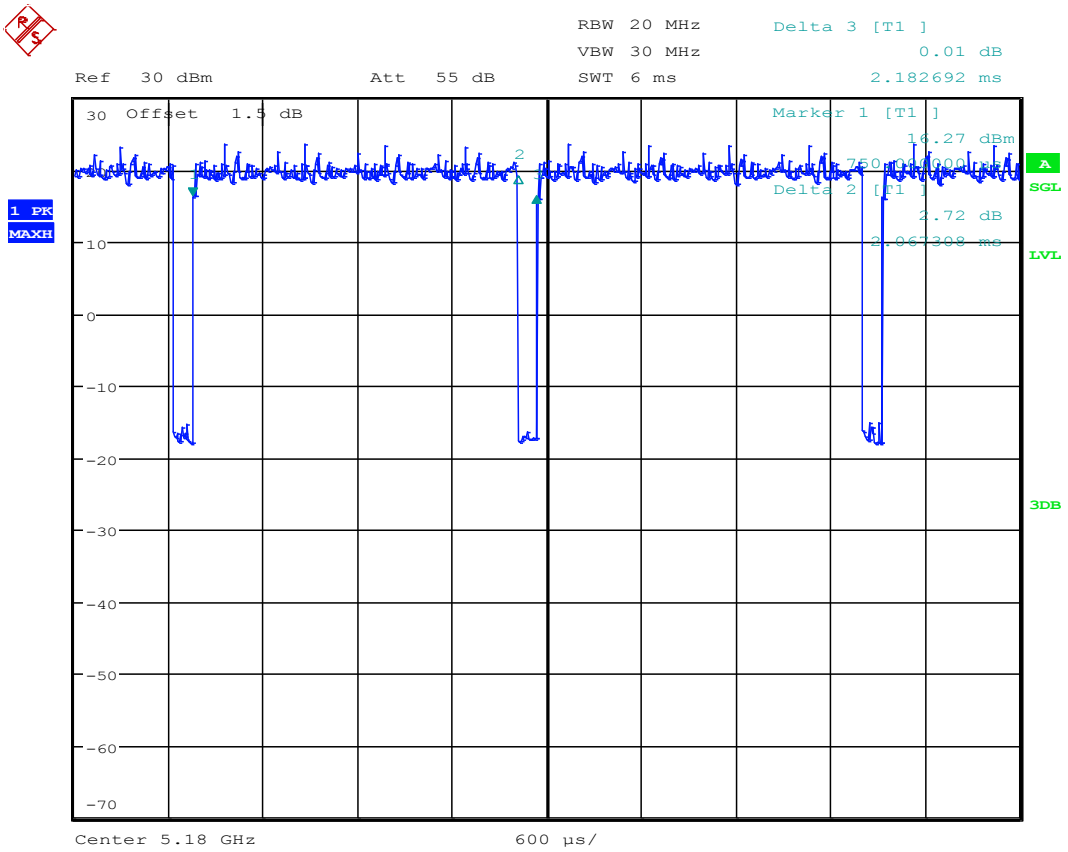
8 Test Plot

8.1 11A ANT1



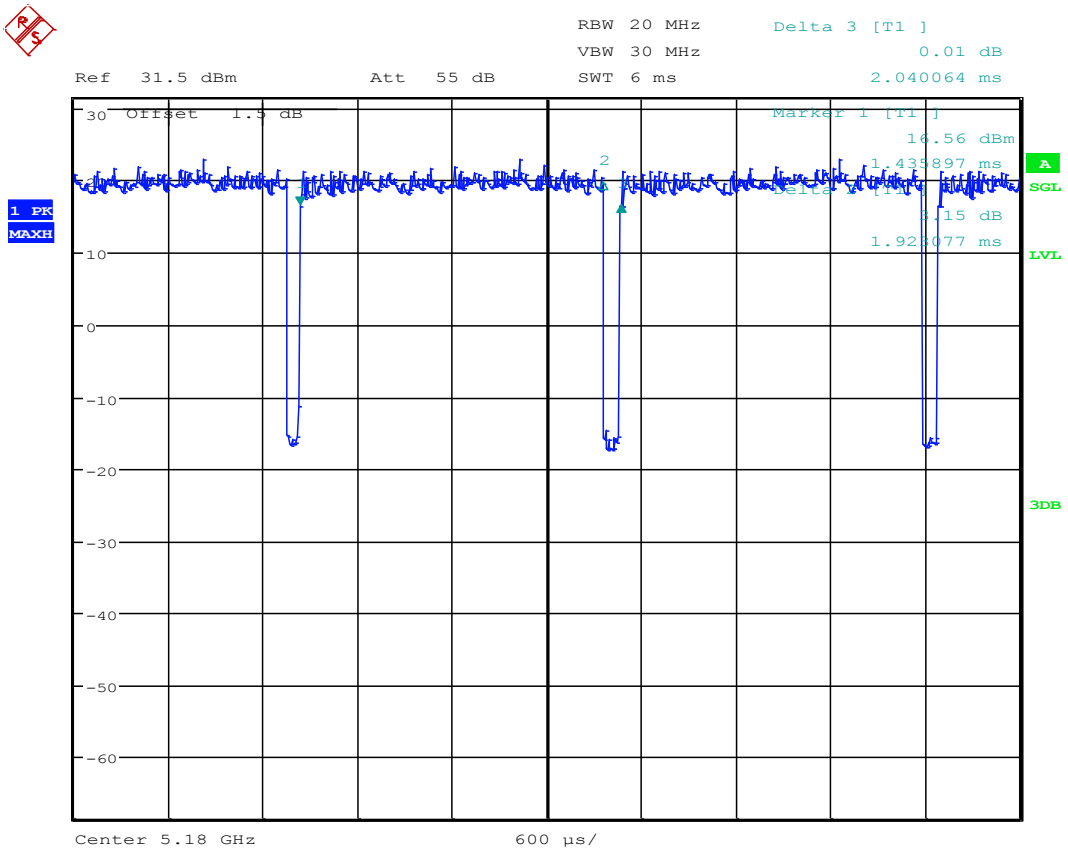
Date: 8.MAR.2018 09:44:06

8.2 11A ANT2



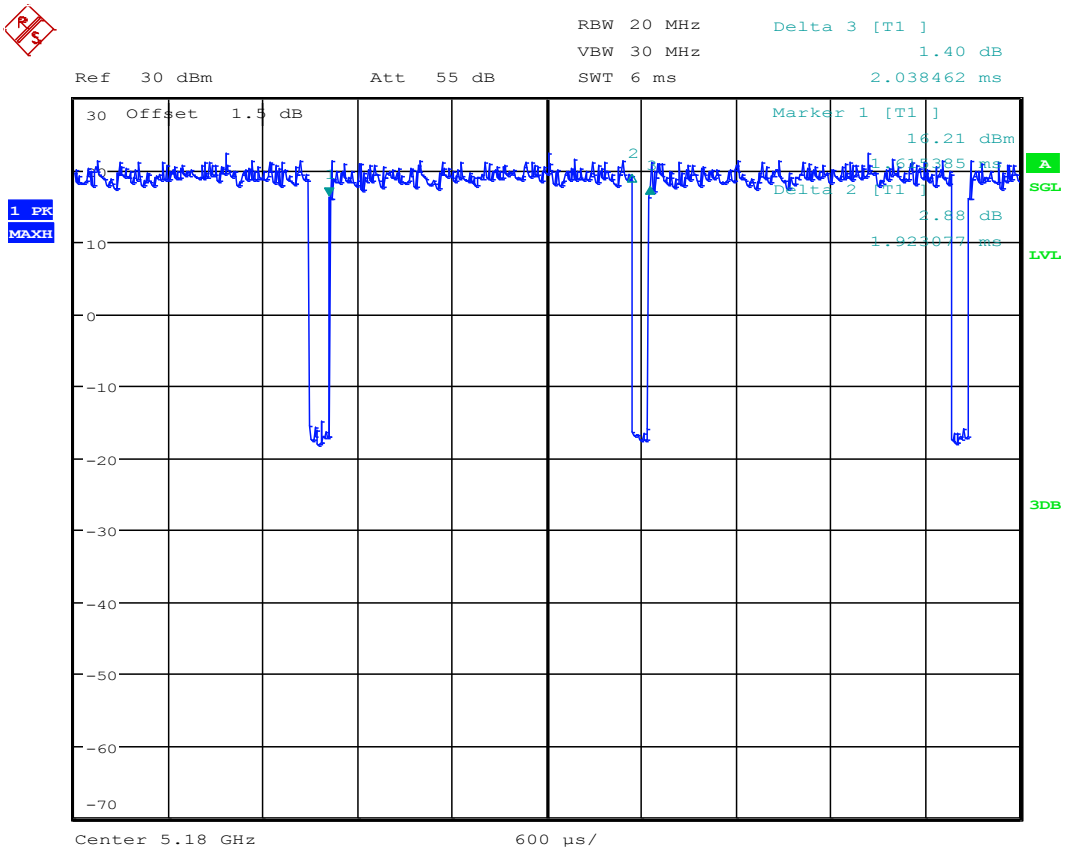
Date: 6.MAR.2018 10:36:36

8.3 11n20 ANT1



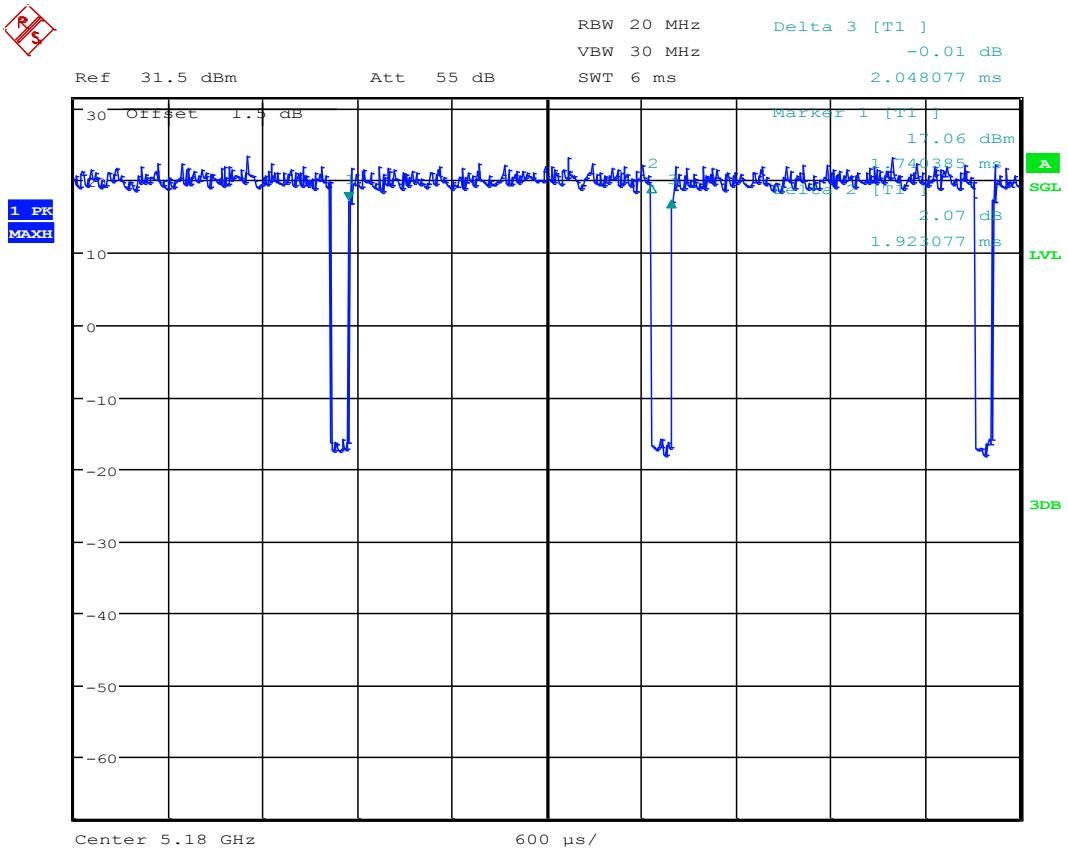
Date: 8.MAR.2018 10:29:15

8.4 11n20 ANT2



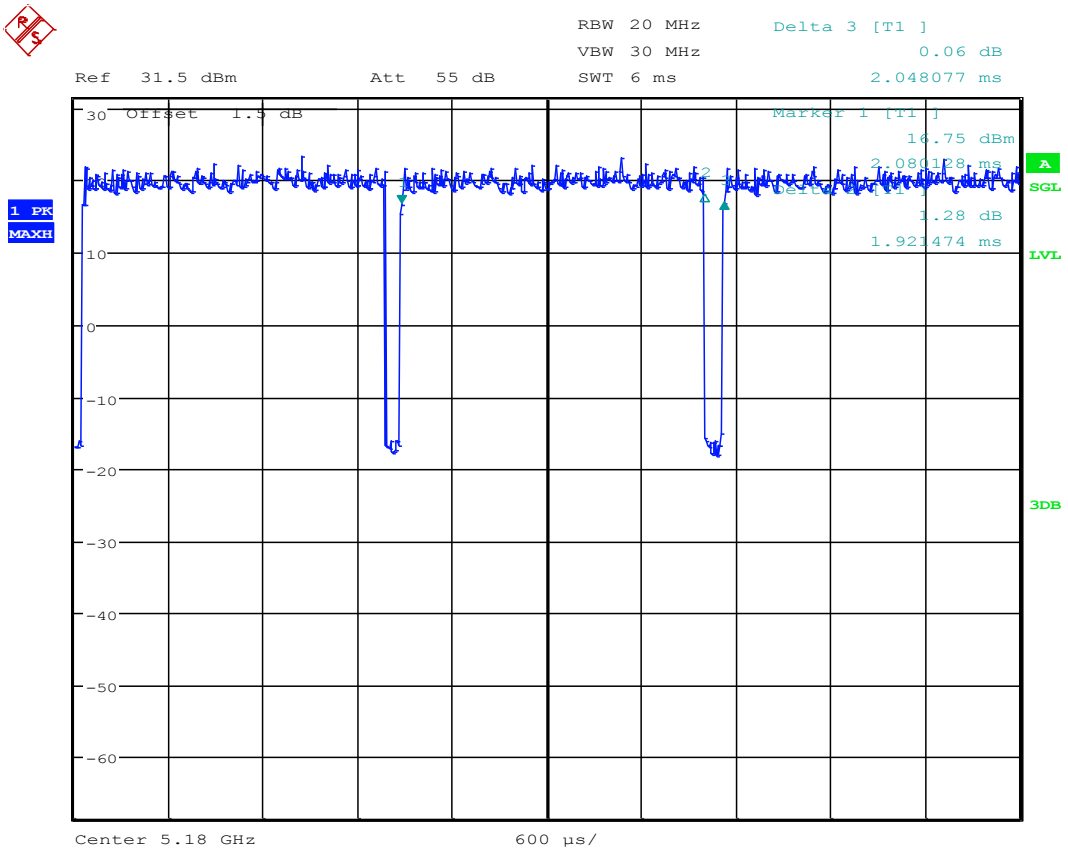
Date: 6.MAR.2018 10:41:08

8.5 11n20MIMO ANT1



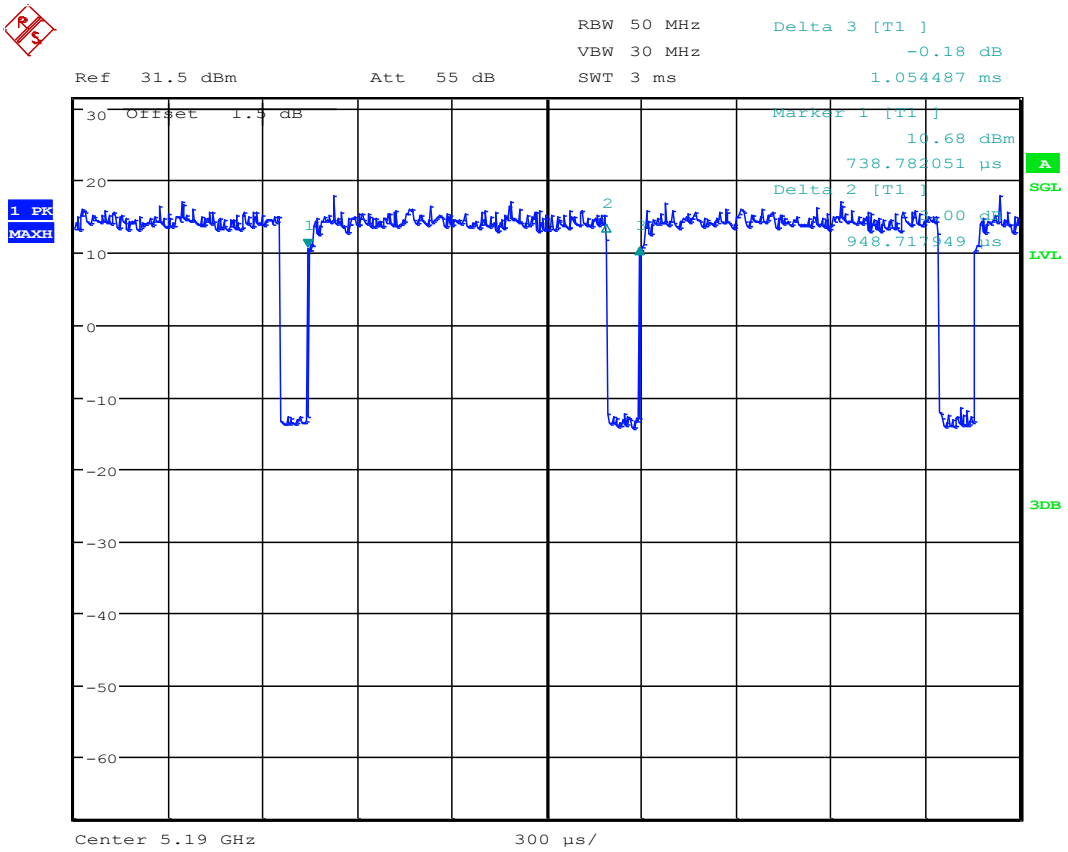
Date: 6.MAR.2018 15:11:04

8.6 11n20MIMO ANT2



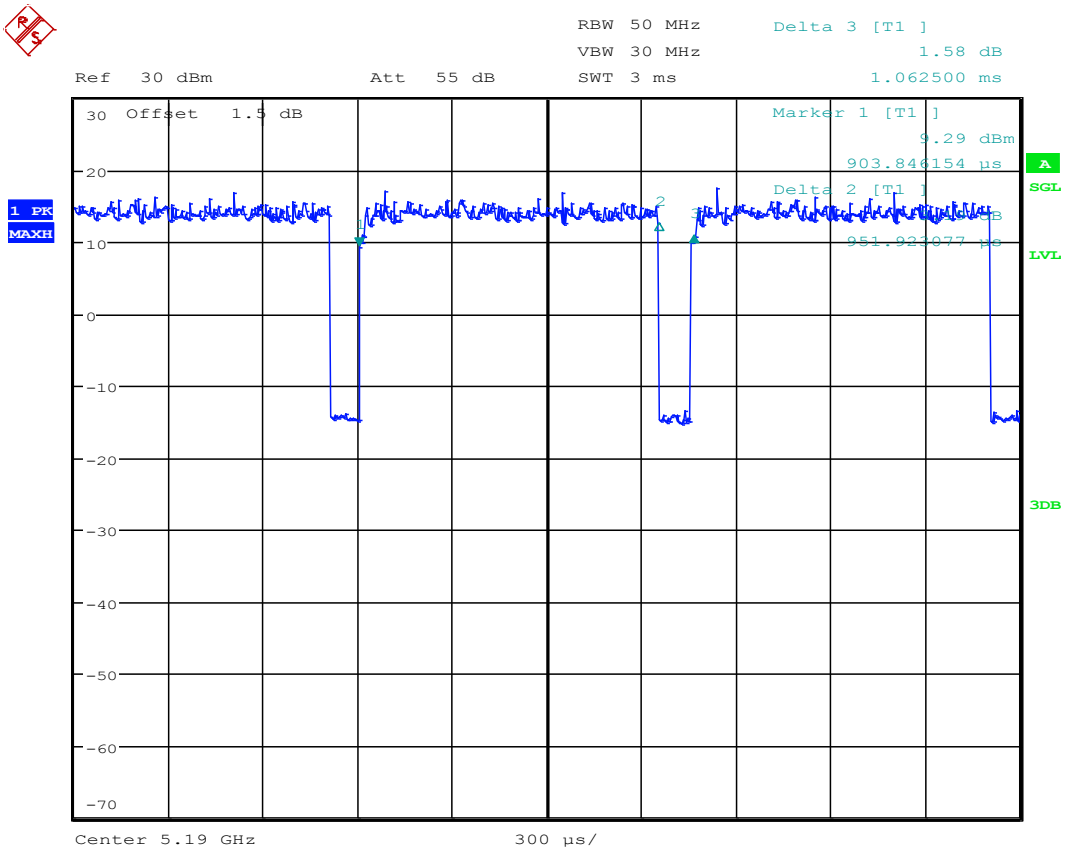
Date: 6.MAR.2018 15:58:46

8.7 11n40 ANT1



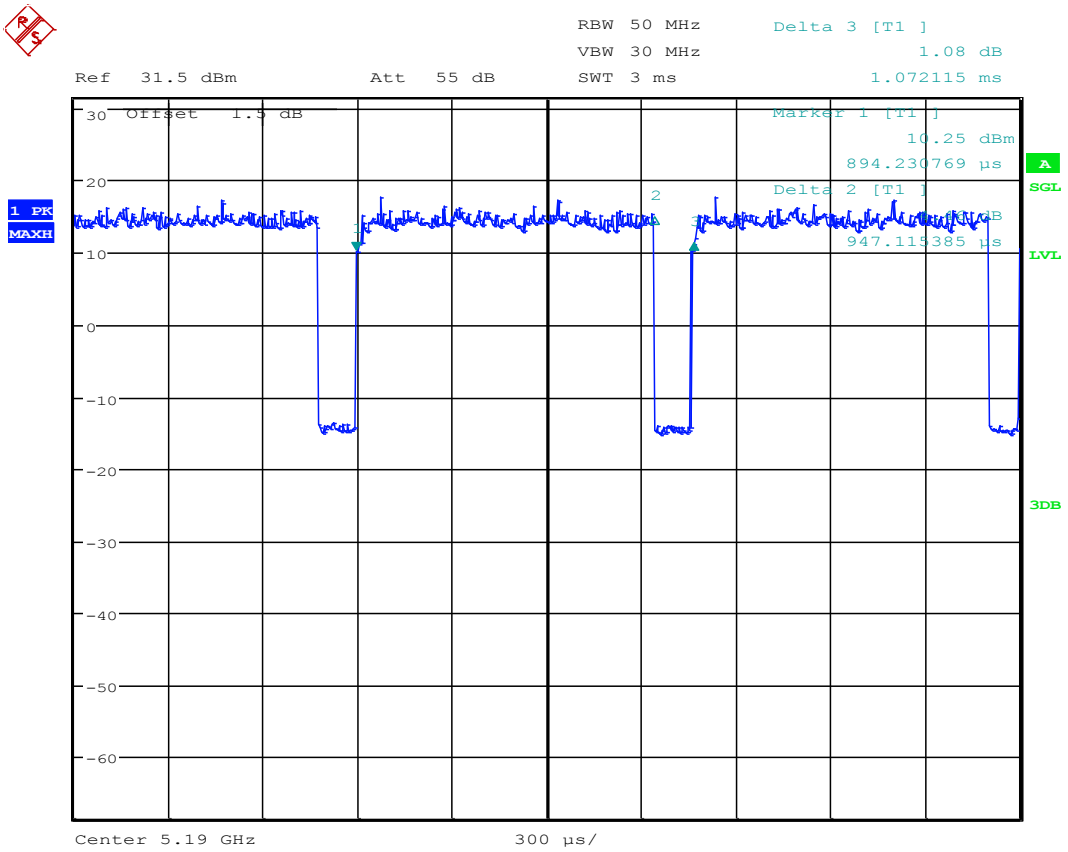
Date: 8.MAR.2018 10:45:02

8.8 11n40 ANT2



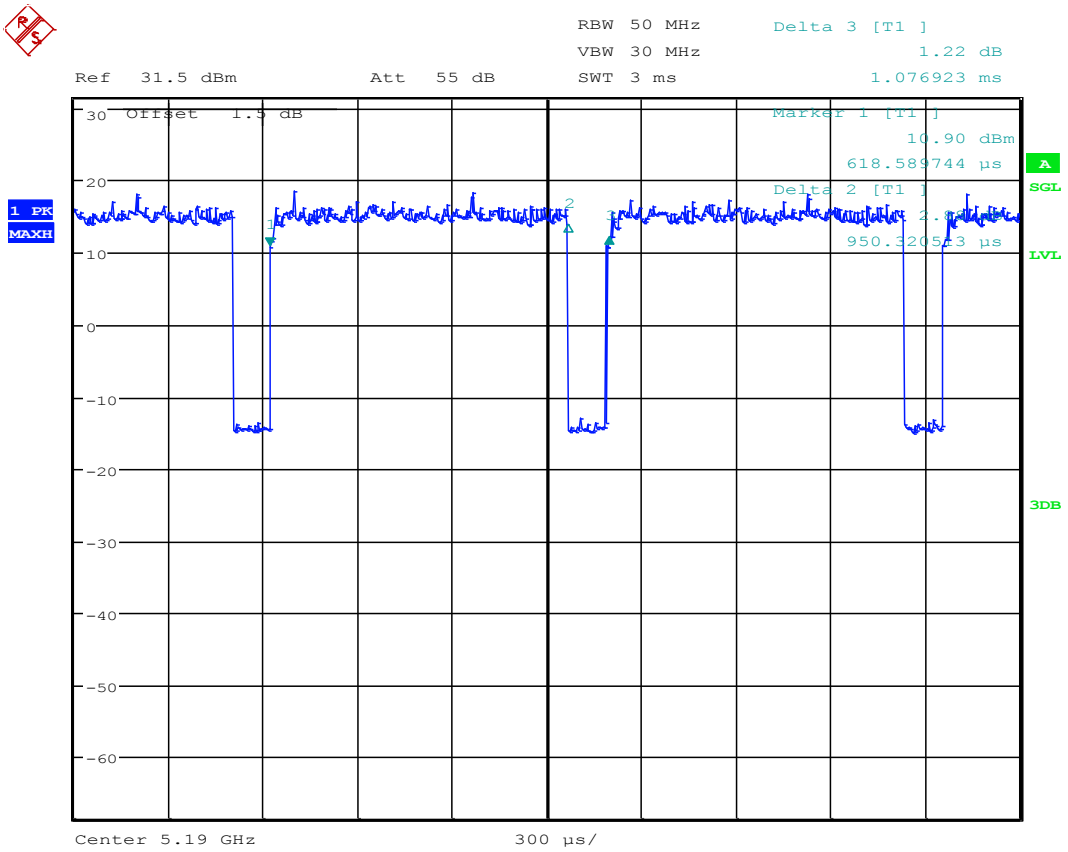
Date: 6.MAR.2018 11:06:35

8.9 11n40MIMO ANT1



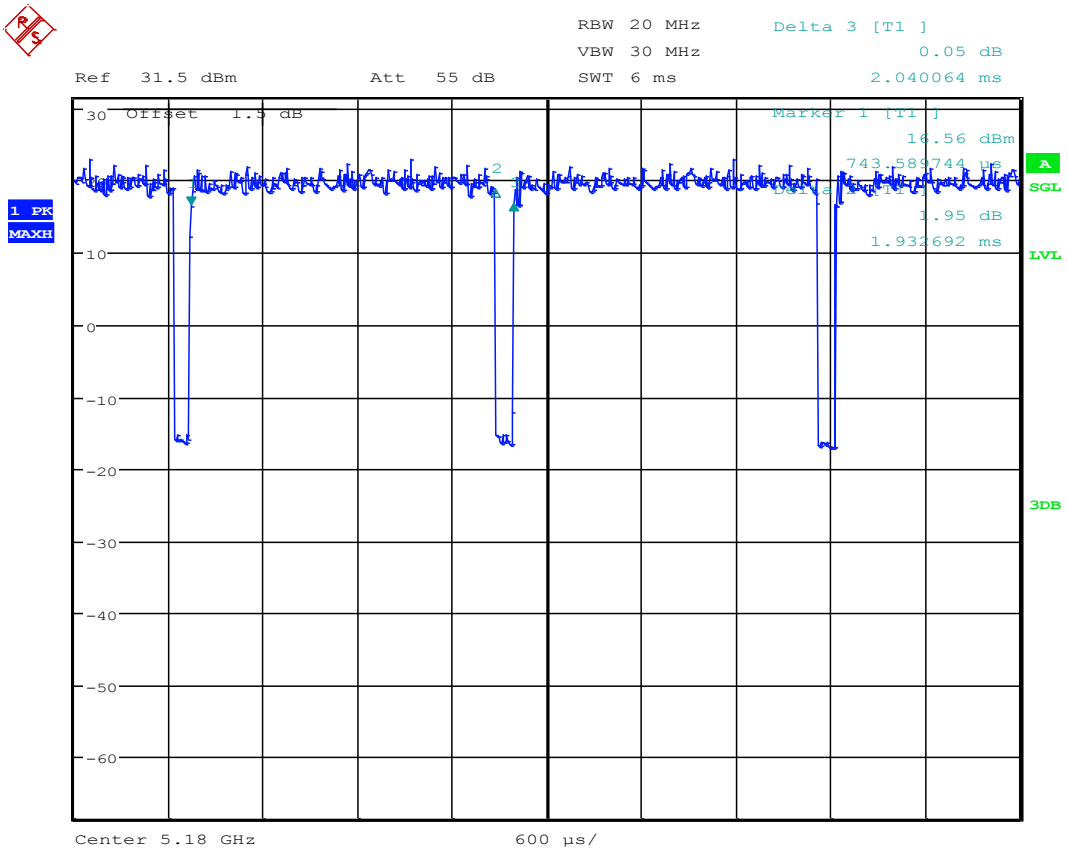
Date: 6.MAR.2018 15:22:48

8.10 11n40MIMO ANT2



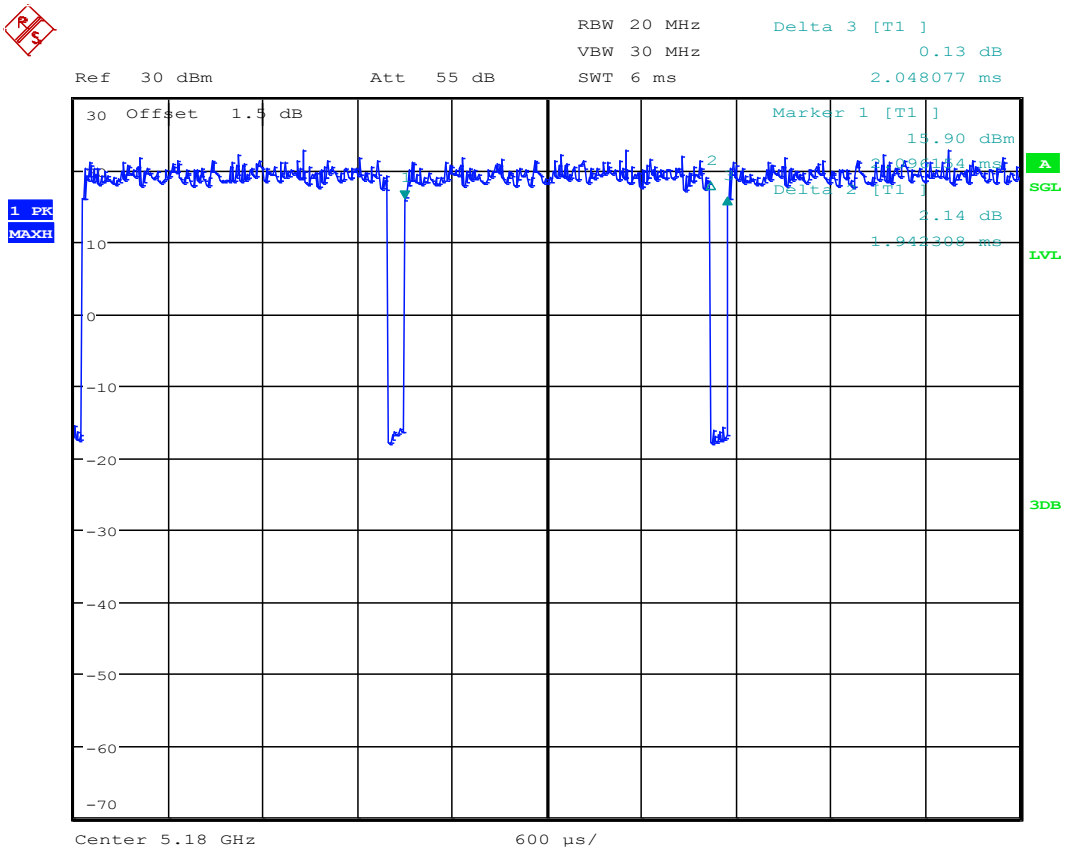
Date: 6.MAR.2018 15:55:29

8.11 11ac20 ANT1



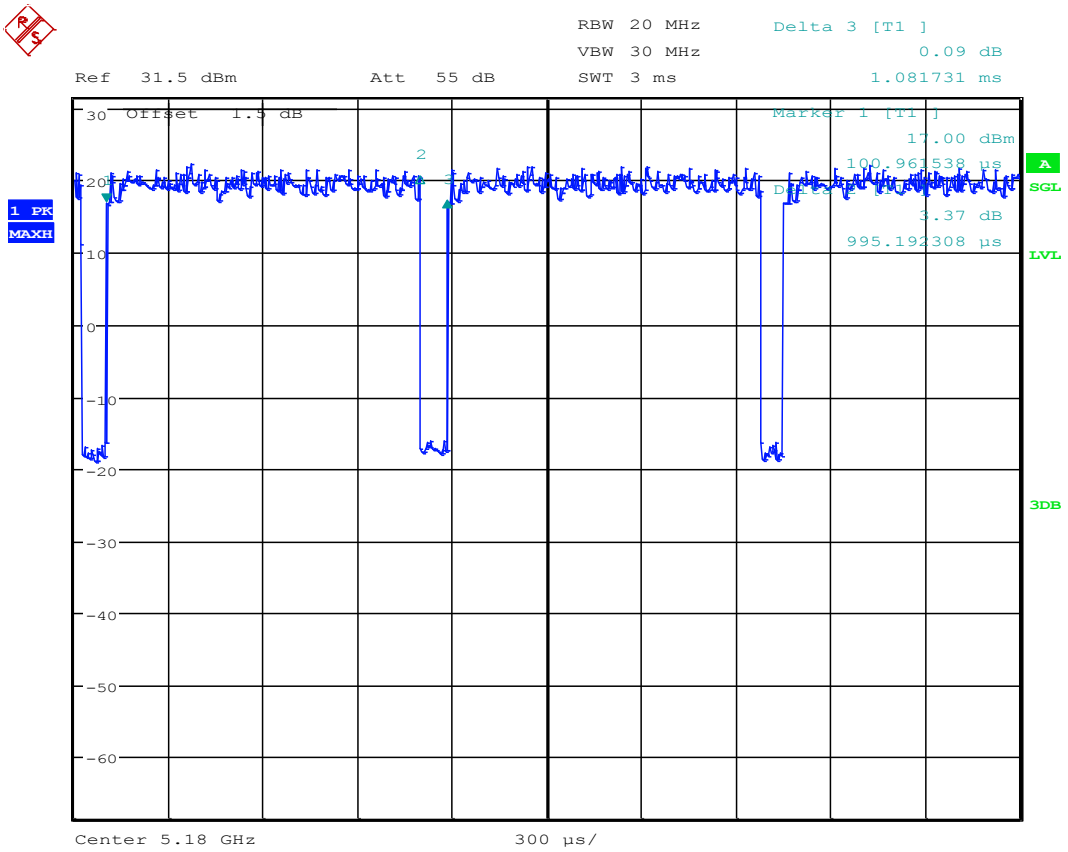
Date: 8.MAR.2018 10:26:57

8.12 11ac20 ANT2



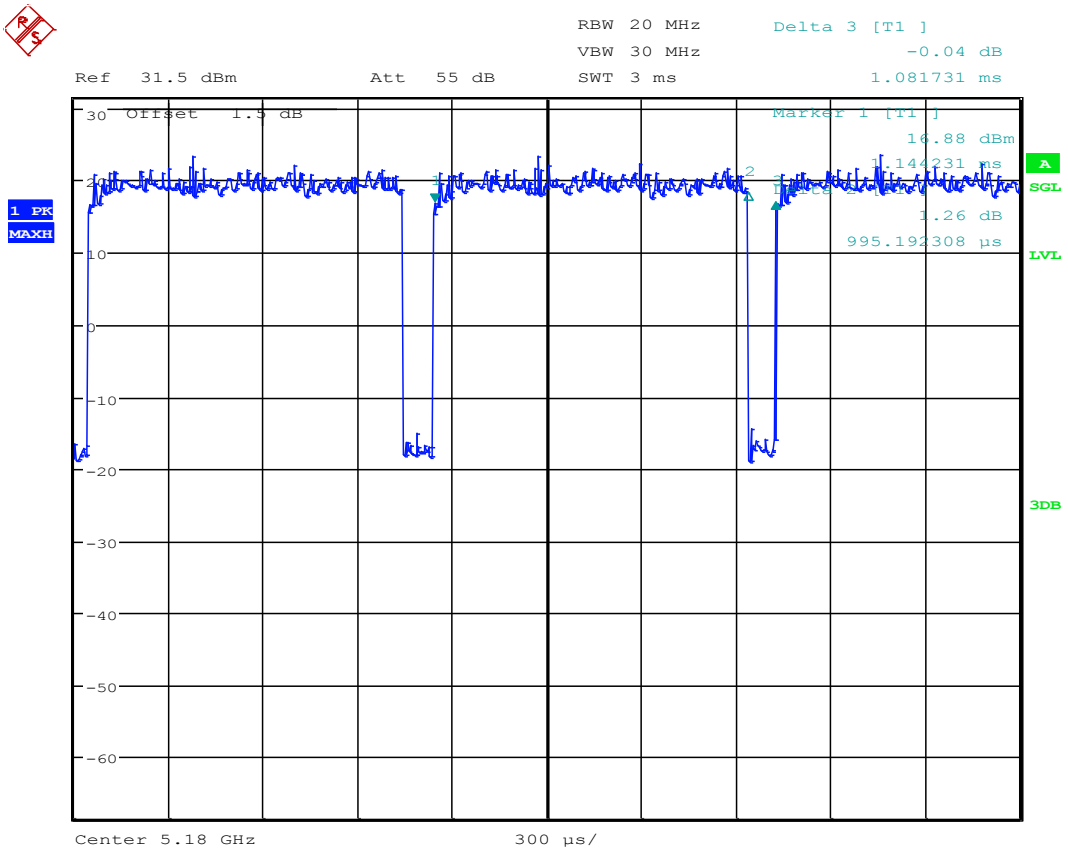
Date: 6.MAR.2018 10:43:26

8.13 11ac20MIMO ANT1



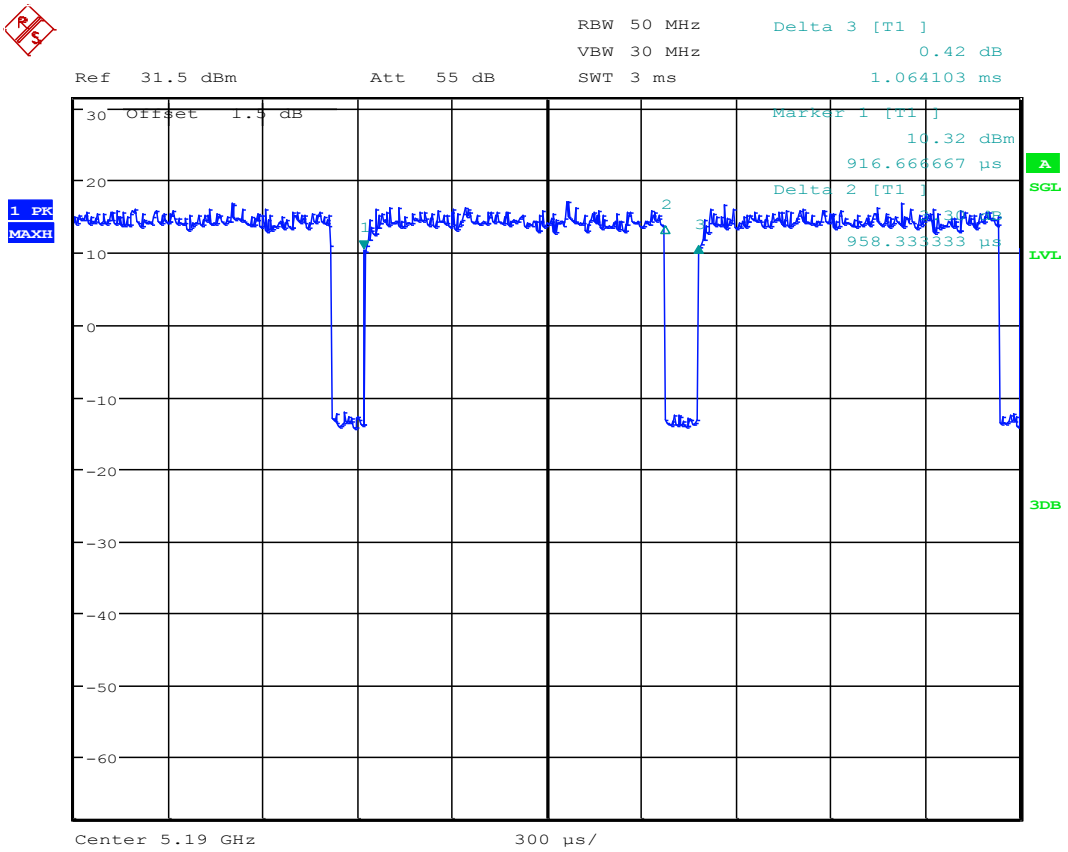
Date: 6.MAR.2018 15:17:48

8.14 11ac20MIMO ANT2



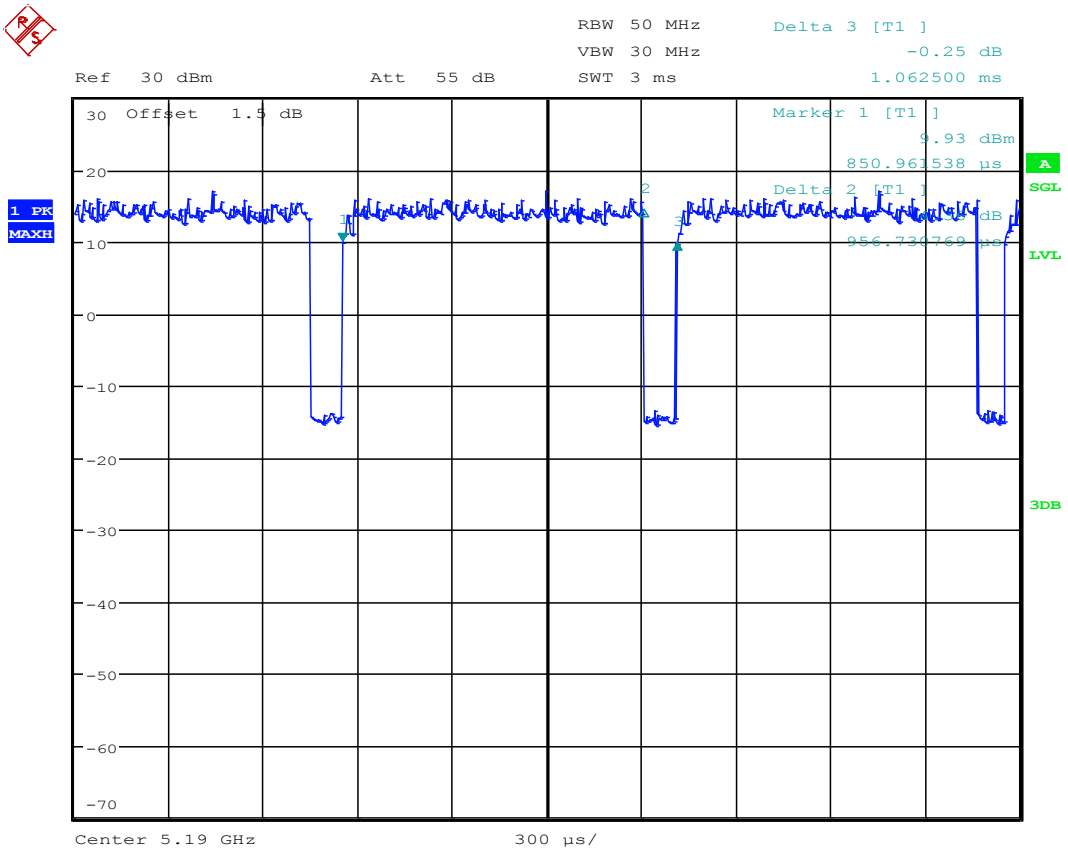
Date: 6.MAR.2018 16:02:43

8.15 11ac40 ANT1



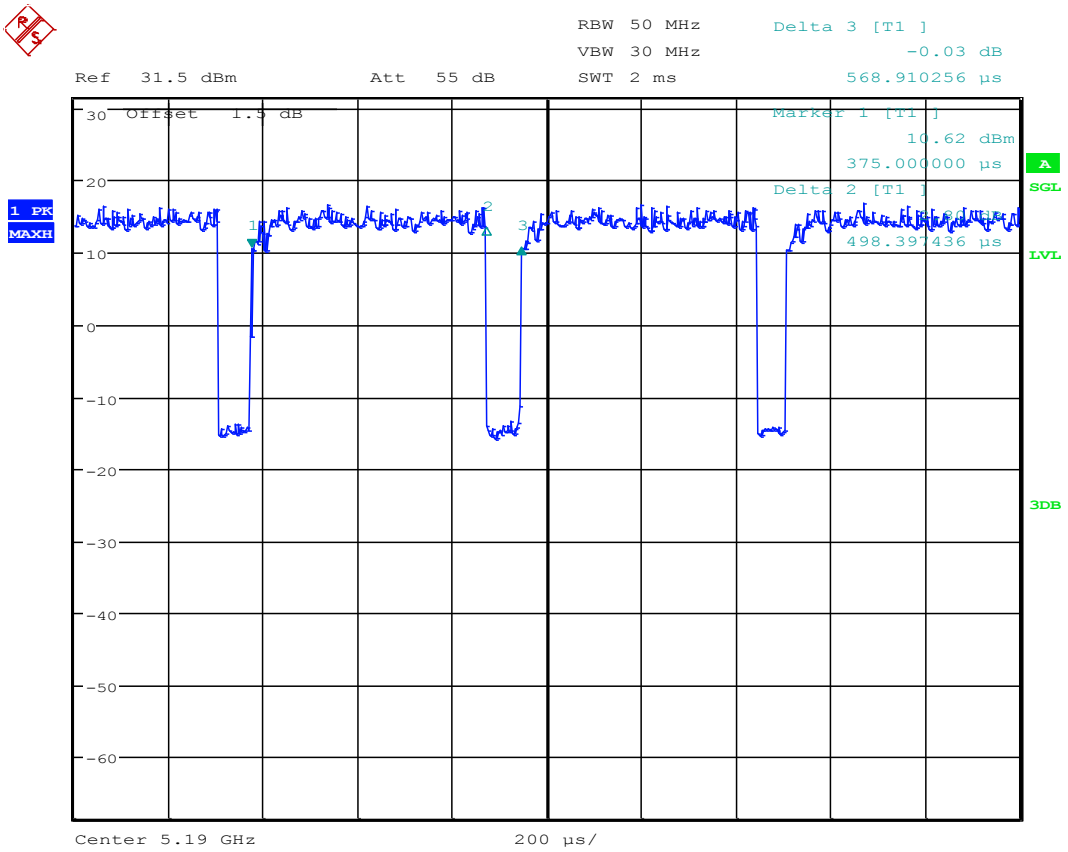
Date: 8.MAR.2018 10:38:30

8.16 11ac40 ANT2



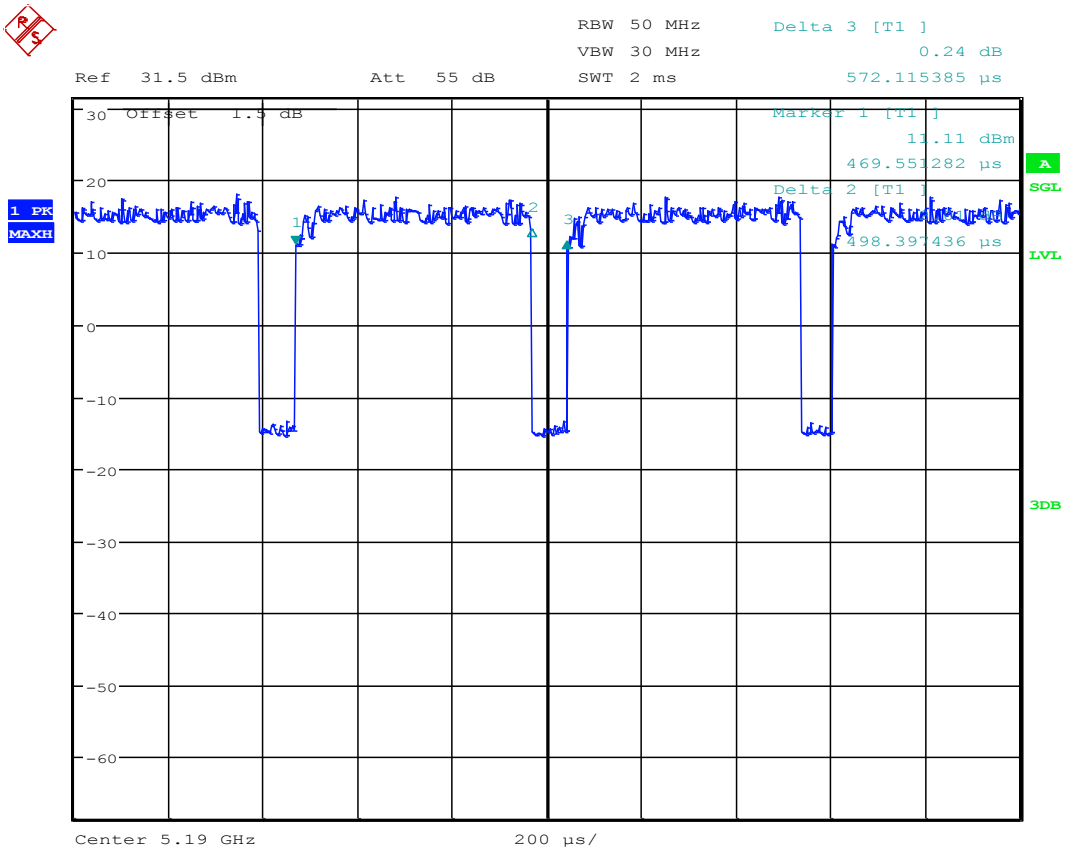
Date: 6.MAR.2018 11:03:29

8.17 11ac40MIMO ANT1



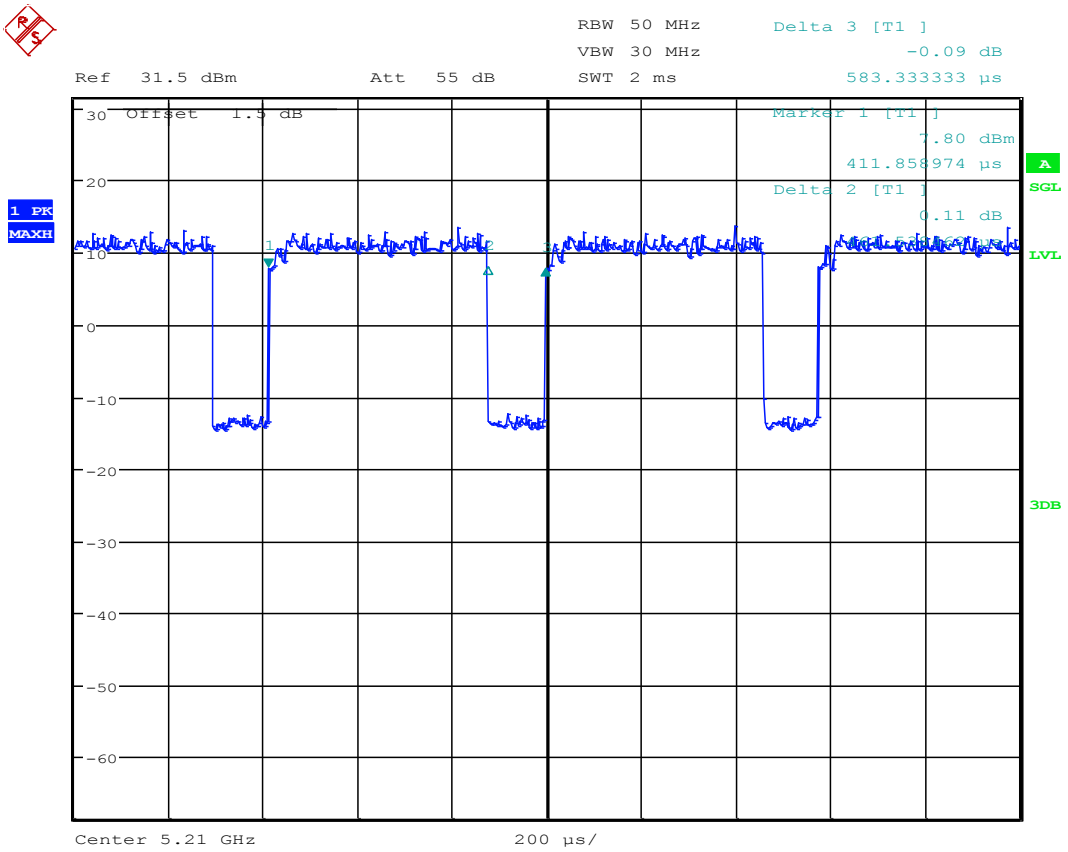
Date: 6.MAR.2018 15:32:51

8.18 11ac40MIMO ANT2



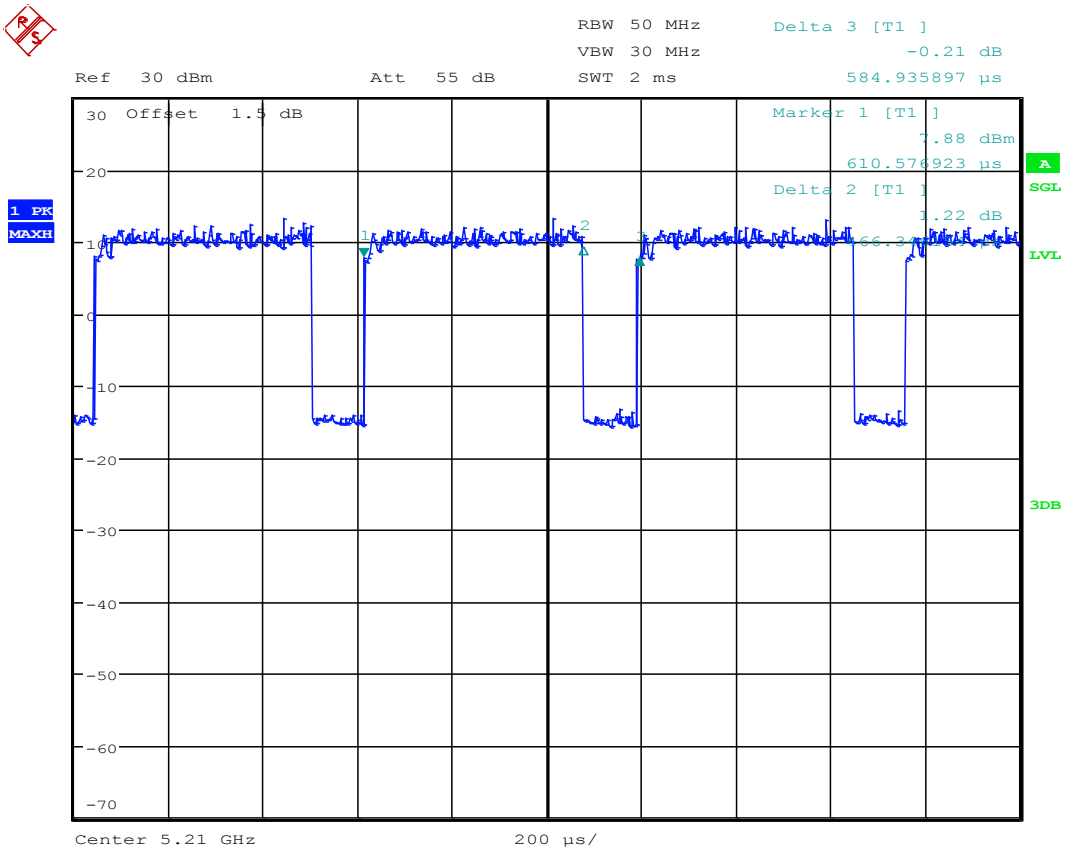
Date: 6.MAR.2018 15:51:55

8.19 11ac80 ANT1



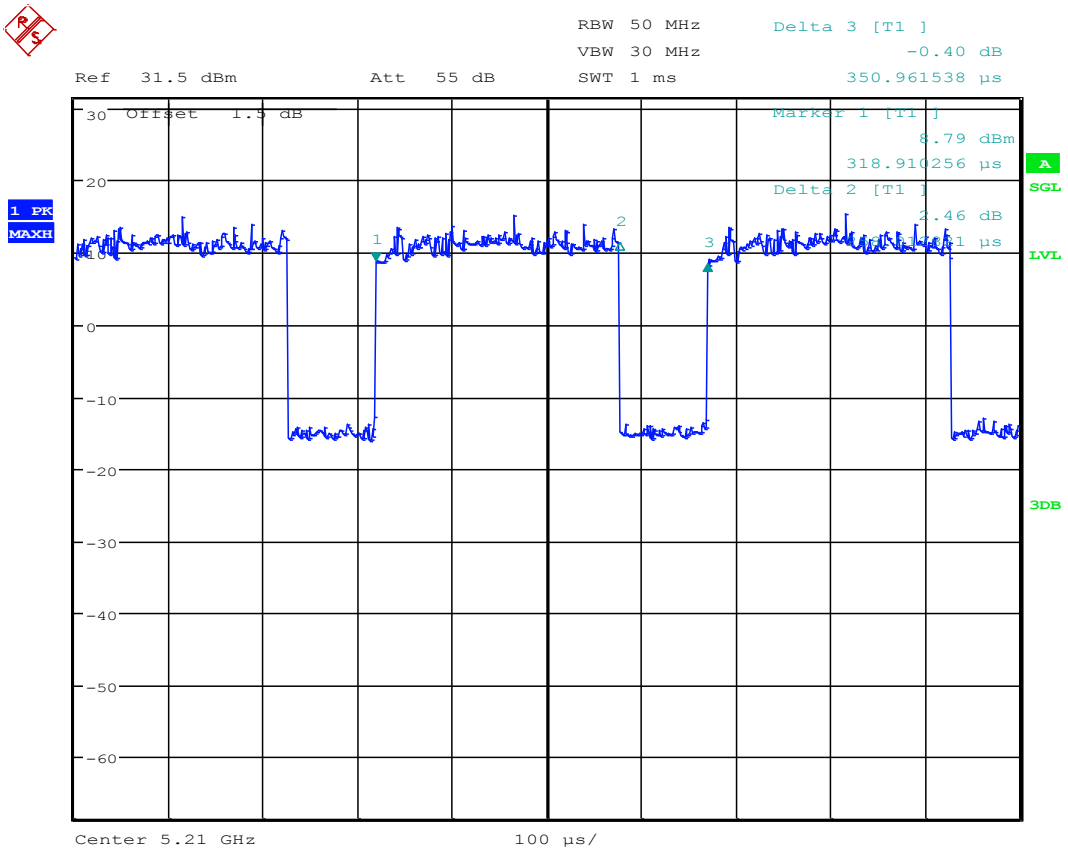
Date: 8.MAR.2018 10:48:41

8.20 11ac80 ANT2



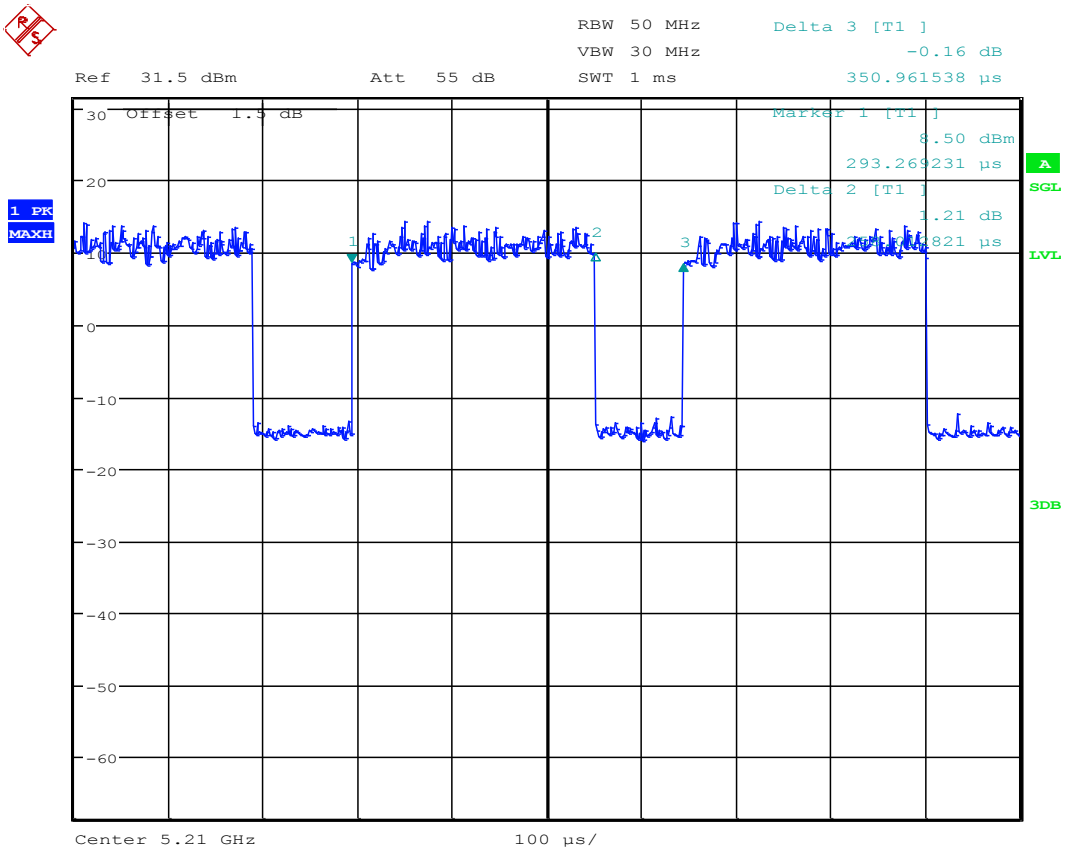
Date: 6.MAR.2018 10:59:15

8.21 11ac80MIMO ANT1



Date: 6.MAR.2018 15:37:50

8.22 11ac80MIMO ANT2



Date: 6.MAR.2018 15:46:55

Appendix D: Maximum Conducted Output Power

9 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A20	36	5180	ANT 1	13.88	PASS
	36	5180	ANT 2	13.98	PASS
	40	5200	ANT 1	20.3	PASS
	40	5200	ANT 2	19.61	PASS
	48	5240	ANT 1	20.38	PASS
	48	5240	ANT 2	19.77	PASS
	149	5745	ANT 1	19.82	PASS
	149	5745	ANT 2	20.01	PASS
	165	5825	ANT 1	19.49	PASS
	165	5825	ANT 2	20.18	PASS
11N20	36	5180	ANT 1	13.74	PASS
	36	5180	ANT 2	14.33	PASS
	40	5200	ANT 1	20.18	PASS
	40	5200	ANT 2	20.21	PASS
	48	5240	ANT 1	20.36	PASS
	48	5240	ANT 2	19.71	PASS
	149	5745	ANT 1	19.83	PASS
	149	5745	ANT 2	20.01	PASS
	165	5825	ANT 1	19.56	PASS
	165	5825	ANT 2	20.2	PASS
11N20MIMO	36	5180	ANT 1	15.1	---
	36	5180	ANT 2	14.97	---
	36	5180	SUM	18.05	PASS
	40	5200	ANT 1	20.18	---
	40	5200	ANT 2	20.21	---
	40	5200	SUM	23.21	PASS
	48	5240	ANT 1	20.71	---
	48	5240	ANT 2	20.73	---
	48	5240	SUM	23.73	PASS
	149	5745	ANT 1	20.86	---
	149	5745	ANT 2	20.7	---
	149	5745	SUM	23.79	PASS
	165	5825	ANT 1	20.99	---
	165	5825	ANT 2	21.01	---

	165	5825	SUM	24.01	PASS
11N40	38	5190	ANT 1	11.15	PASS
	38	5190	ANT 2	12.3	PASS
	46	5230	ANT 1	19.94	PASS
	46	5230	ANT 2	20	PASS
	151	5755	ANT 1	18.98	PASS
	151	5755	ANT 2	20.12	PASS
	159	5795	ANT 1	19.55	PASS
	159	5795	ANT 2	20.39	PASS
11N40MIMO	38	5190	ANT 1	12.55	---
	38	5190	ANT 2	12.8	---
	38	5190	SUM	15.69	PASS
	46	5230	ANT 1	20.65	---
	46	5230	ANT 2	21.01	---
	46	5230	SUM	23.84	PASS
	151	5755	ANT 1	20.09	---
	151	5755	ANT 2	20.79	---
	151	5755	SUM	23.46	PASS
	159	5795	ANT 1	20.81	---
	159	5795	ANT 2	21.1	---
	159	5795	SUM	23.97	PASS
11AC20	36	5180	ANT 1	13.69	PASS
	36	5180	ANT 2	14.27	PASS
	40	5200	ANT 1	20.13	PASS
	40	5200	ANT 2	19.58	PASS
	48	5240	ANT 1	19.83	PASS
	48	5240	ANT 2	19.62	PASS
	149	5745	ANT 1	19.79	PASS
	149	5745	ANT 2	19.93	PASS
	165	5825	ANT 1	19.48	PASS
	165	5825	ANT 2	20.1	PASS
11AC20MIMO	36	5180	ANT 1	15.52	---
	36	5180	ANT 2	14.89	---
	36	5180	SUM	18.23	PASS
	40	5200	ANT 1	20.49	---
	40	5200	ANT 2	20.06	---
	40	5200	SUM	23.29	PASS
	48	5240	ANT 1	20.8	---
	48	5240	ANT 2	20.57	---
	48	5240	SUM	23.7	PASS
	149	5745	ANT 1	20.96	---

	149	5745	ANT 2	20.63	---
	149	5745	SUM	23.81	PASS
	165	5825	ANT 1	20.8	---
	165	5825	ANT 2	21.02	---
	165	5825	SUM	23.92	PASS
11AC40	38	5190	ANT 1	11.26	PASS
	38	5190	ANT 2	12.36	PASS
	46	5230	ANT 1	19.68	PASS
	46	5230	ANT 2	20.02	PASS
	151	5755	ANT 1	19.4	PASS
	151	5755	ANT 2	20.19	PASS
	159	5795	ANT 1	19.51	PASS
	159	5795	ANT 2	20.47	PASS
11AC40MIMO	38	5190	ANT 1	12.57	---
	38	5190	ANT 2	12.88	---
	38	5190	SUM	15.74	PASS
	46	5230	ANT 1	20.79	---
	46	5230	ANT 2	20.74	---
	46	5230	SUM	23.78	PASS
	151	5755	ANT 1	19.77	---
	151	5755	ANT 2	20.51	---
	151	5755	SUM	23.17	PASS
	159	5795	ANT 1	20.58	---
	159	5795	ANT 2	20.9	---
	159	5795	SUM	23.75	PASS
11AC80	42	5210	ANT 1	11.63	PASS
	42	5210	ANT 2	11.61	PASS
	155	5775	ANT 1	16.34	PASS
	155	5775	ANT 2	17.32	PASS
11AC80MIMO	42	5210	ANT 1	12.44	---
	42	5210	ANT 2	12.41	---
	42	5210	SUM	15.44	PASS
	155	5775	ANT 1	17.35	---
	155	5775	ANT 2	17.02	---
	155	5775	SUM	20.2	PASS

Appendix E: Peak Power Spectral Density Level

10 Result Table

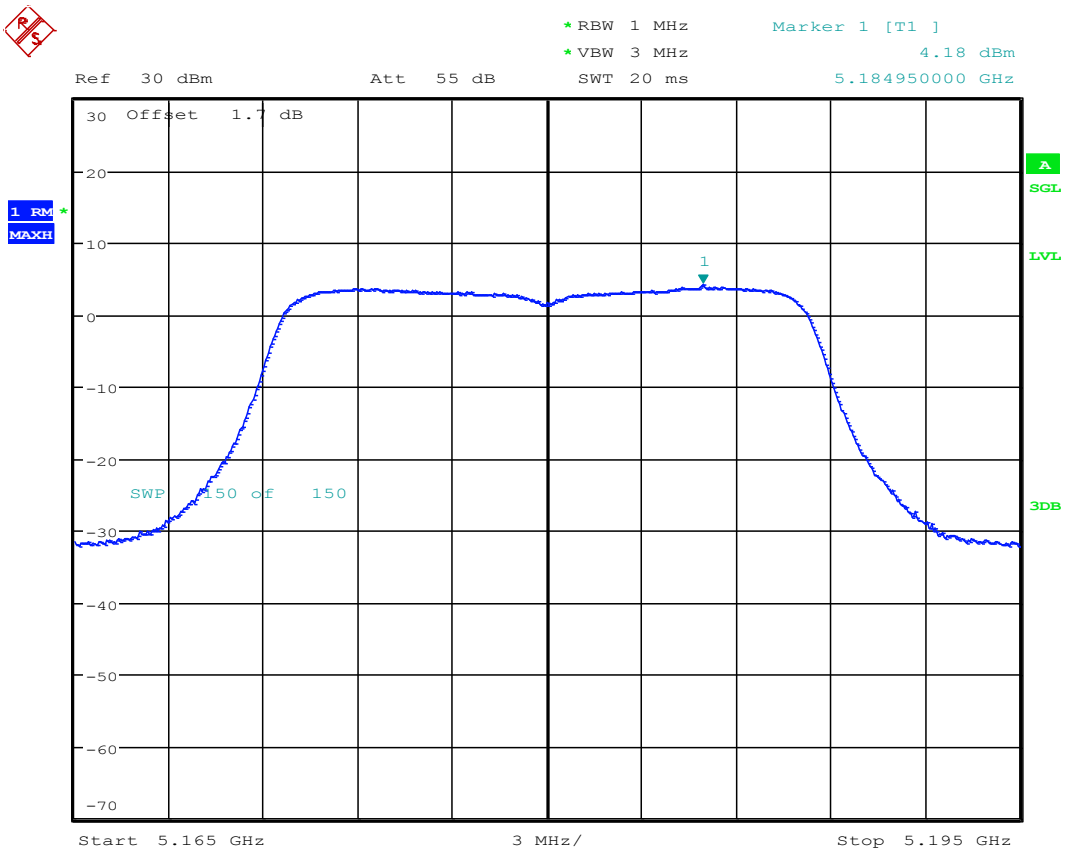
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A20	36	5180	ANT 1	4.18	PASS
	36	5180	ANT 2	3.83	PASS
	40	5200	ANT 1	10.4	PASS
	40	5200	ANT 2	9.51	PASS
	48	5240	ANT 1	10.68	PASS
	48	5240	ANT 2	9.58	PASS
	149	5745	ANT 1	8.52	PASS
	149	5745	ANT 2	8.74	PASS
	165	5825	ANT 1	8.01	PASS
	165	5825	ANT 2	8.47	PASS
11N20	36	5180	ANT 1	3.84	PASS
	36	5180	ANT 2	4.04	PASS
	40	5200	ANT 1	10.13	PASS
	40	5200	ANT 2	9.29	PASS
	48	5240	ANT 1	10.45	PASS
	48	5240	ANT 2	9.47	PASS
	149	5745	ANT 1	8.1	PASS
	149	5745	ANT 2	8.41	PASS
	165	5825	ANT 1	7.9	PASS
	165	5825	ANT 2	8.45	PASS
11N20MIMO	36	5180	ANT 1	4.84	---
	36	5180	ANT 2	4.84	---
	36	5180	SUM	7.85	PASS
	40	5200	ANT 1	10.37	---
	40	5200	ANT 2	10.38	---
	40	5200	SUM	13.39	PASS
	48	5240	ANT 1	10.62	---
	48	5240	ANT 2	10.74	---
	48	5240	SUM	13.69	PASS
	149	5745	ANT 1	9.62	---
	149	5745	ANT 2	9.45	---
	149	5745	SUM	12.55	PASS
	165	5825	ANT 1	9.46	---
	165	5825	ANT 2	9.54	---

	165	5825	SUM	12.51	PASS
11N40	38	5190	ANT 1	-1.46	PASS
	38	5190	ANT 2	-0.63	PASS
	46	5230	ANT 1	7.15	PASS
	46	5230	ANT 2	7.16	PASS
	151	5755	ANT 1	4.54	PASS
	151	5755	ANT 2	5.75	PASS
	159	5795	ANT 1	4.99	PASS
	159	5795	ANT 2	5.81	PASS
11N40MIMO	38	5190	ANT 1	-0.23	---
	38	5190	ANT 2	0	---
	38	5190	SUM	2.9	PASS
	46	5230	ANT 1	7.59	---
	46	5230	ANT 2	8.22	---
	46	5230	SUM	10.93	PASS
	151	5755	ANT 1	6.17	---
	151	5755	ANT 2	6.67	---
	151	5755	SUM	9.44	PASS
	159	5795	ANT 1	6.11	---
	159	5795	ANT 2	6.72	---
	159	5795	SUM	9.44	PASS
11AC20	36	5180	ANT 1	3.6	PASS
	36	5180	ANT 2	3.98	PASS
	40	5200	ANT 1	10.08	PASS
	40	5200	ANT 2	9.55	PASS
	48	5240	ANT 1	9.84	PASS
	48	5240	ANT 2	9.49	PASS
	149	5745	ANT 1	8.19	PASS
	149	5745	ANT 2	8.46	PASS
	165	5825	ANT 1	7.82	PASS
	165	5825	ANT 2	8.3	PASS
11AC20MIMO	36	5180	ANT 1	5.59	---
	36	5180	ANT 2	4.96	---
	36	5180	SUM	8.3	PASS
	40	5200	ANT 1	10.49	---
	40	5200	ANT 2	10.33	---
	40	5200	SUM	13.42	PASS
	48	5240	ANT 1	10.88	---
	48	5240	ANT 2	10.88	---
	48	5240	SUM	13.89	PASS
	149	5745	ANT 1	10	---

	149	5745	ANT 2	9.9	---
	149	5745	SUM	12.96	PASS
	165	5825	ANT 1	9.65	---
	165	5825	ANT 2	9.81	---
	165	5825	SUM	12.74	PASS
11AC40	38	5190	ANT 1	-1.39	PASS
	38	5190	ANT 2	-0.54	PASS
	46	5230	ANT 1	6.71	PASS
	46	5230	ANT 2	7.06	PASS
	151	5755	ANT 1	4.82	PASS
	151	5755	ANT 2	5.84	PASS
	159	5795	ANT 1	5.28	PASS
	159	5795	ANT 2	5.9	PASS
11AC40MIMO	38	5190	ANT 1	0.15	---
	38	5190	ANT 2	0.22	---
	38	5190	SUM	3.2	PASS
	46	5230	ANT 1	8.08	---
	46	5230	ANT 2	8.13	---
	46	5230	SUM	11.12	PASS
	151	5755	ANT 1	5.87	---
	151	5755	ANT 2	6.4	---
	151	5755	SUM	9.15	PASS
	159	5795	ANT 1	6.52	---
	159	5795	ANT 2	6.64	---
	159	5795	SUM	9.59	PASS
11AC80	42	5210	ANT 1	-2.54	PASS
	42	5210	ANT 2	-3.13	PASS
	155	5775	ANT 1	0.19	PASS
	155	5775	ANT 2	1.67	PASS
11AC80MIMO	42	5210	ANT 1	-1.59	---
	42	5210	ANT 2	-1.45	---
	42	5210	SUM	1.49	PASS
	155	5775	ANT 1	2.13	---
	155	5775	ANT 2	2.73	---
	155	5775	SUM	5.45	PASS

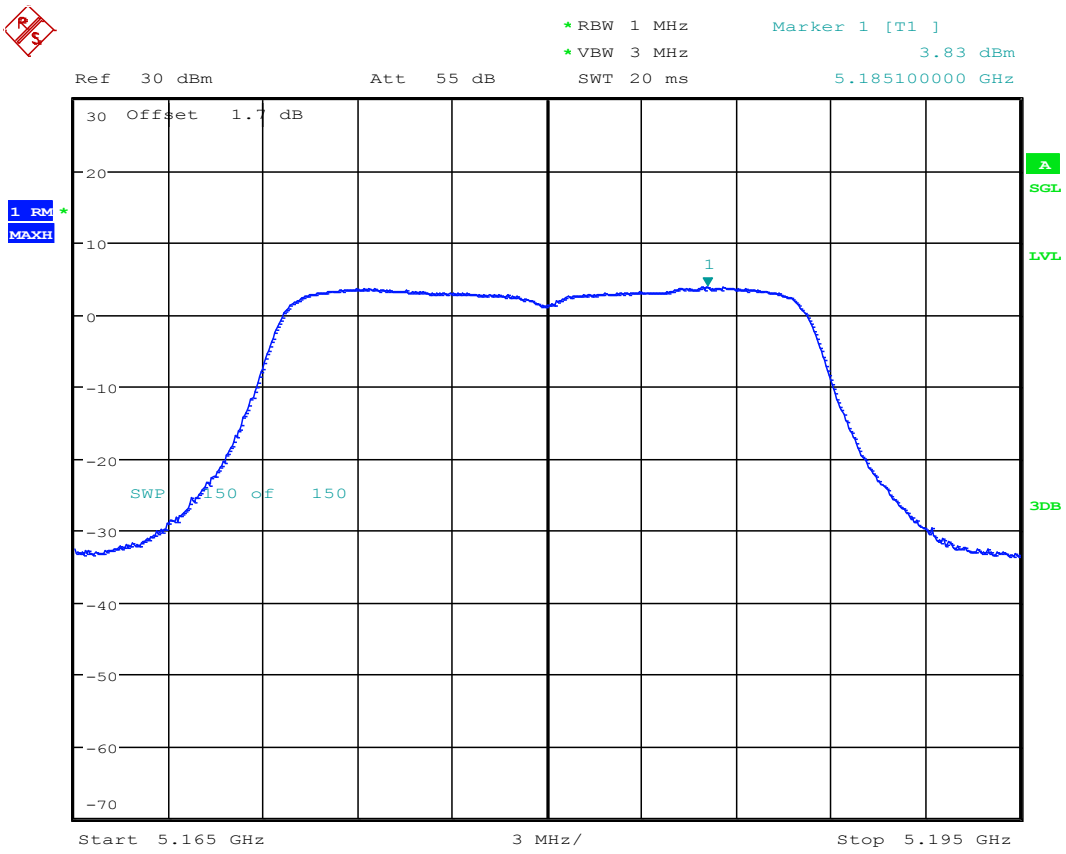
11 Test Plot

11.1 11A20_36 ANT 1



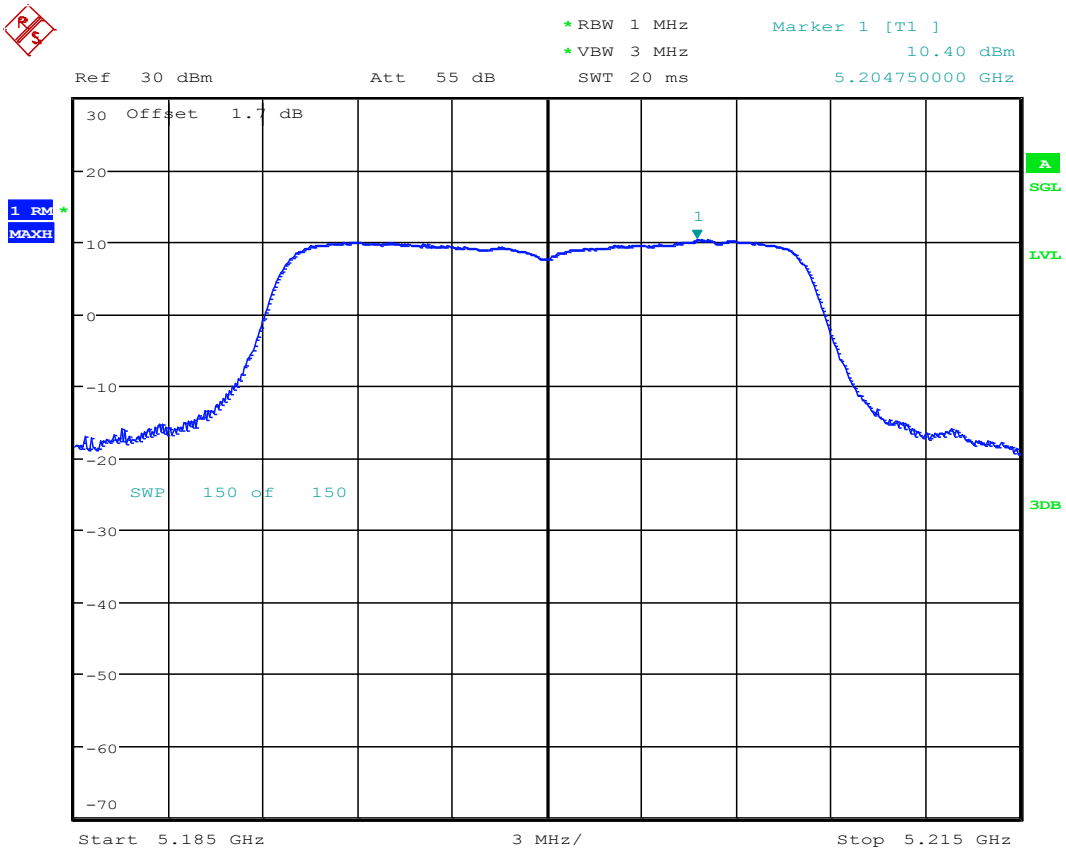
Date: 8.MAR.2018 11:08:59

11.2 11A20_36 ANT 2

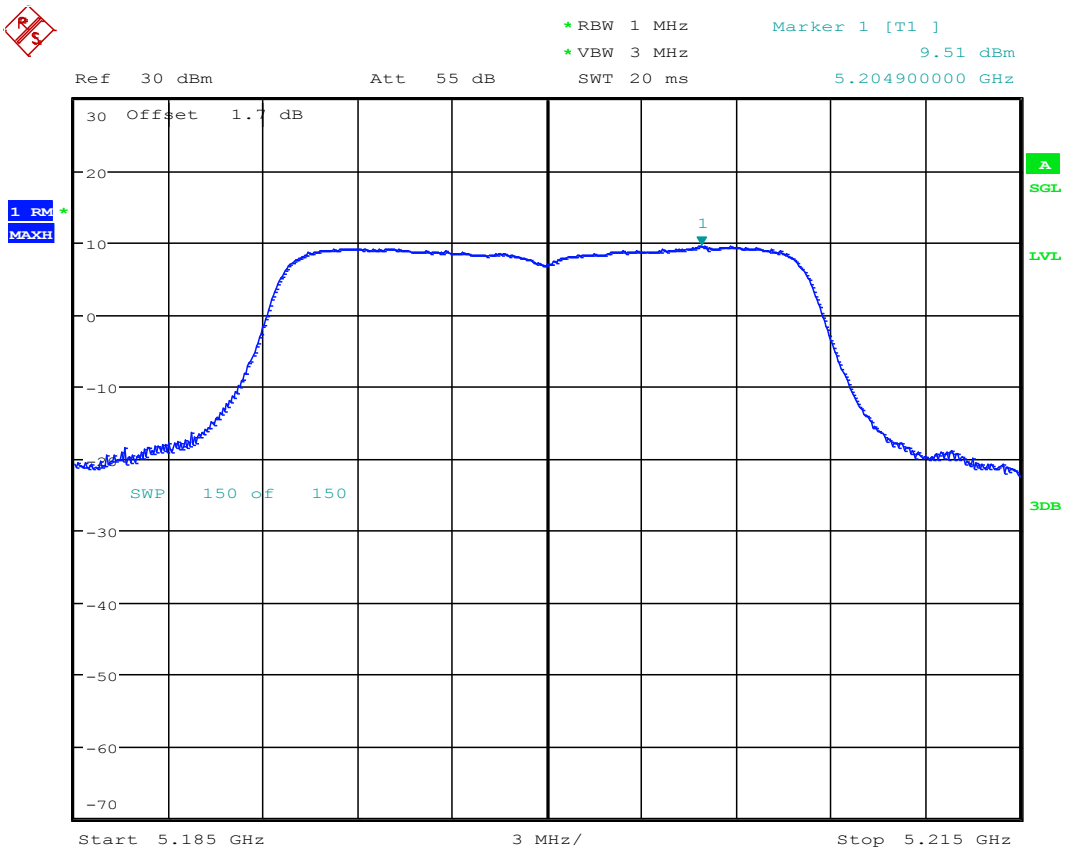


Date: 6.MAR.2018 11:09:56

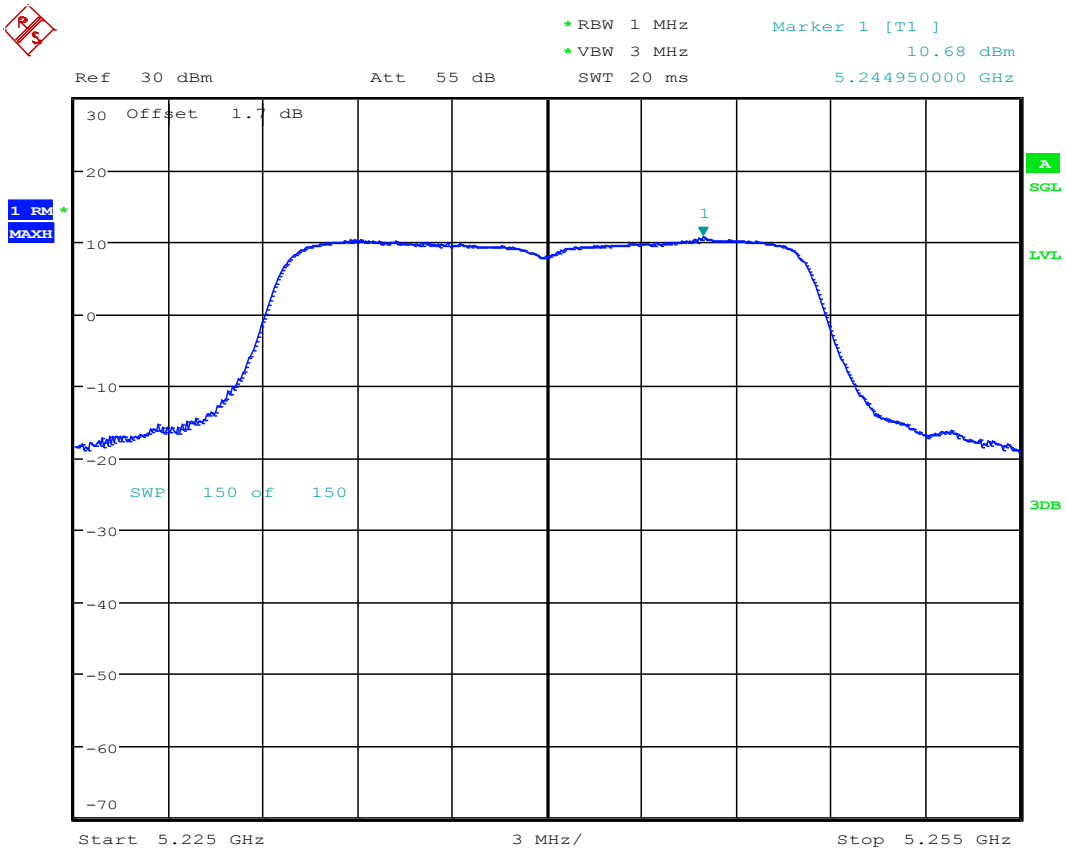
11.3 11A20_40 ANT 1



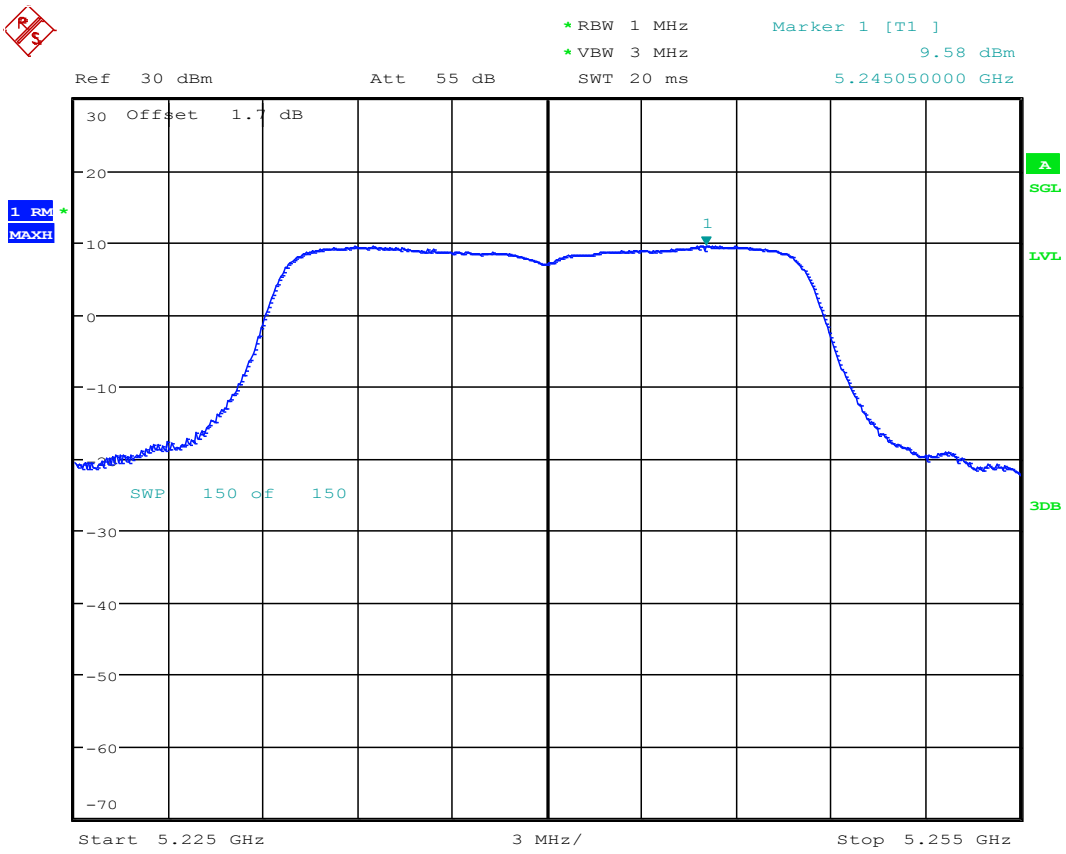
11.4 11A20_40 ANT 2



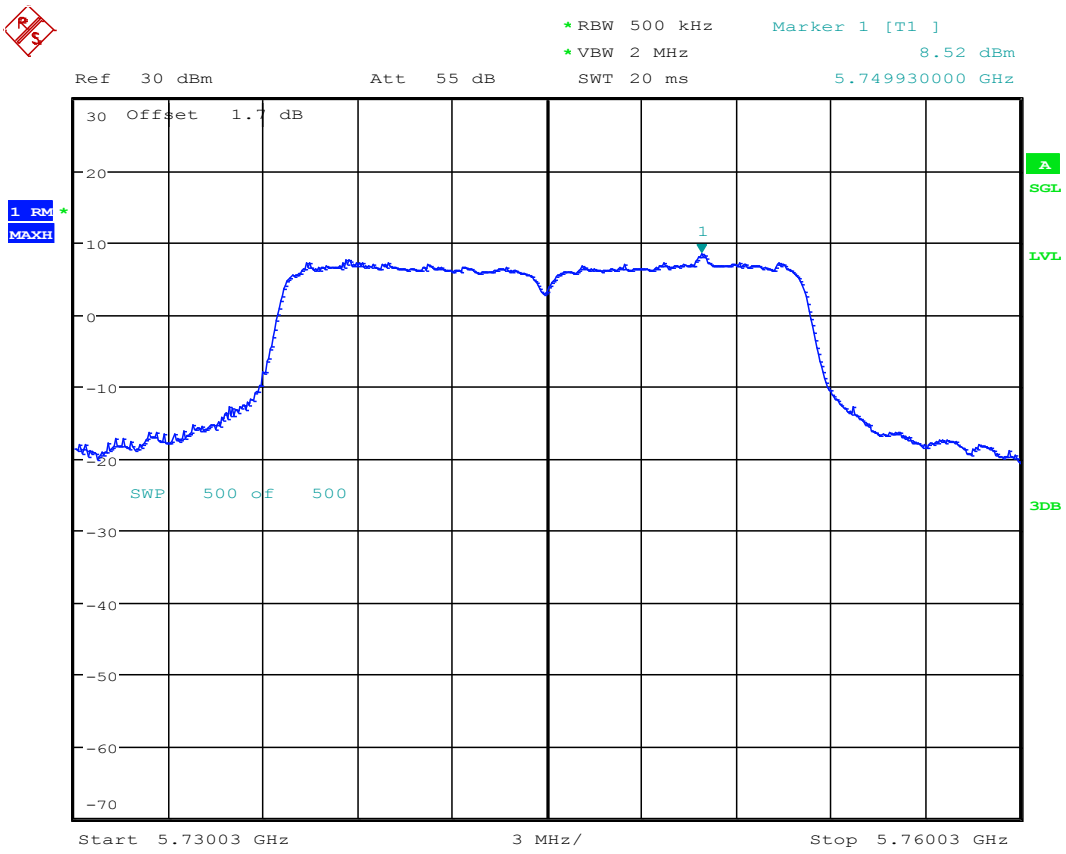
11.5 11A20_48 ANT 1



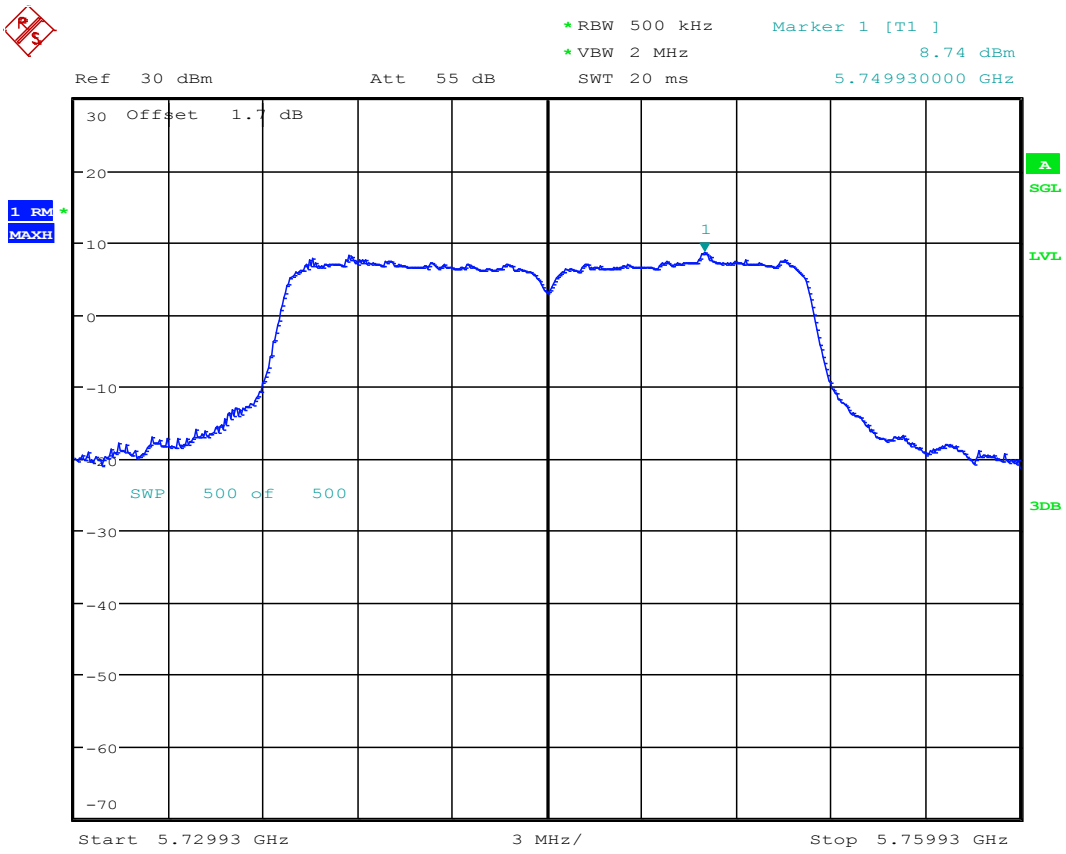
11.6 11A20_48 ANT 2



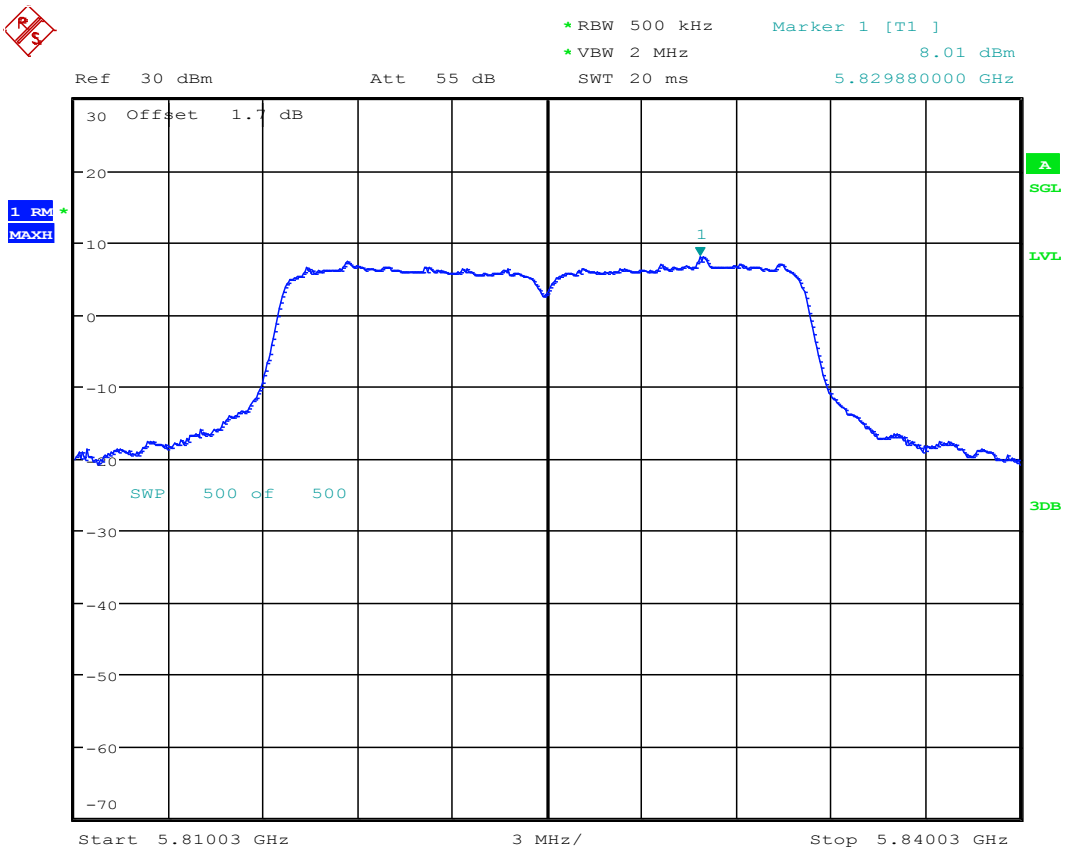
11.7 11A20_149 ANT 1



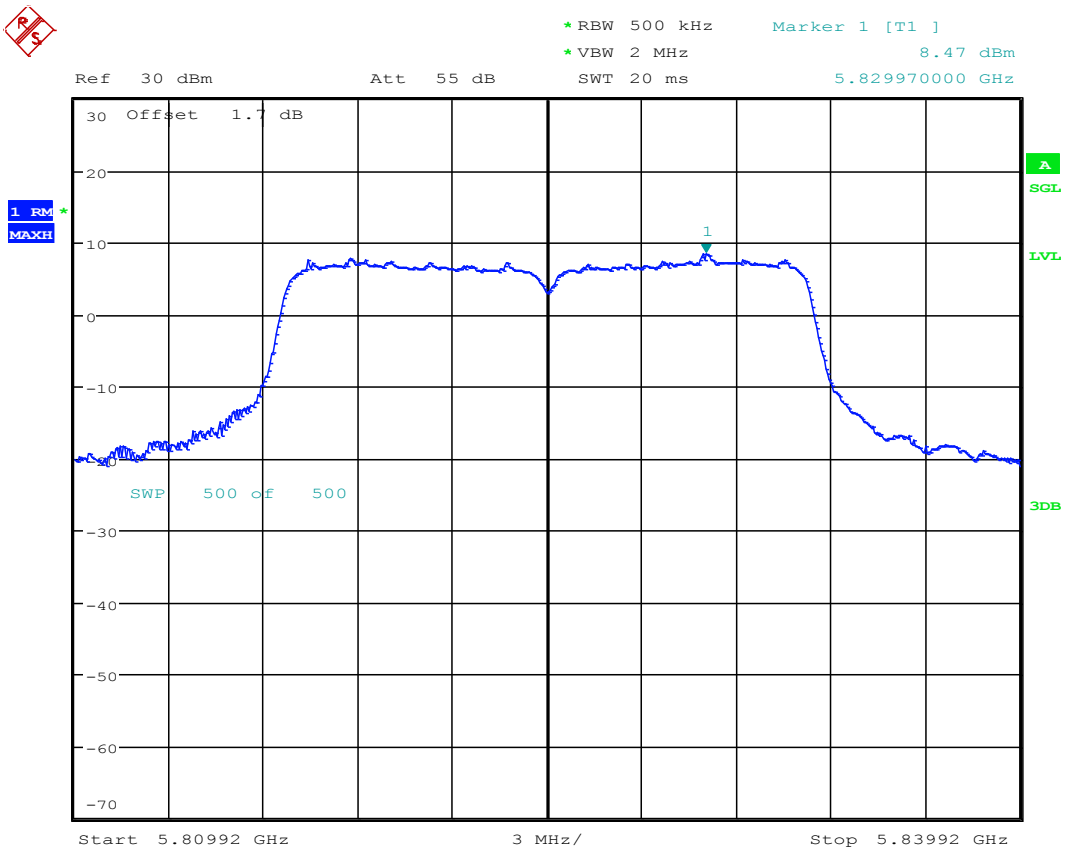
11.8 11A20_149 ANT 2



11.9 11A20_165 ANT 1

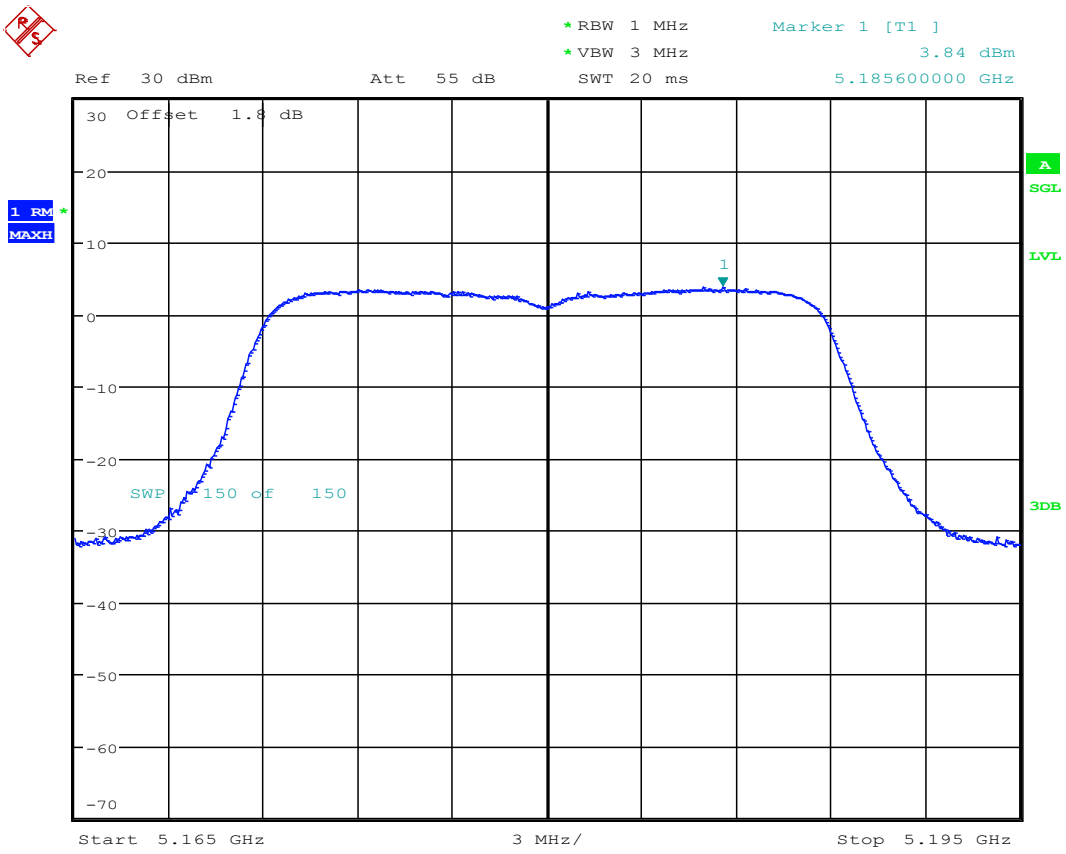


11.10 11A20_165 ANT 2



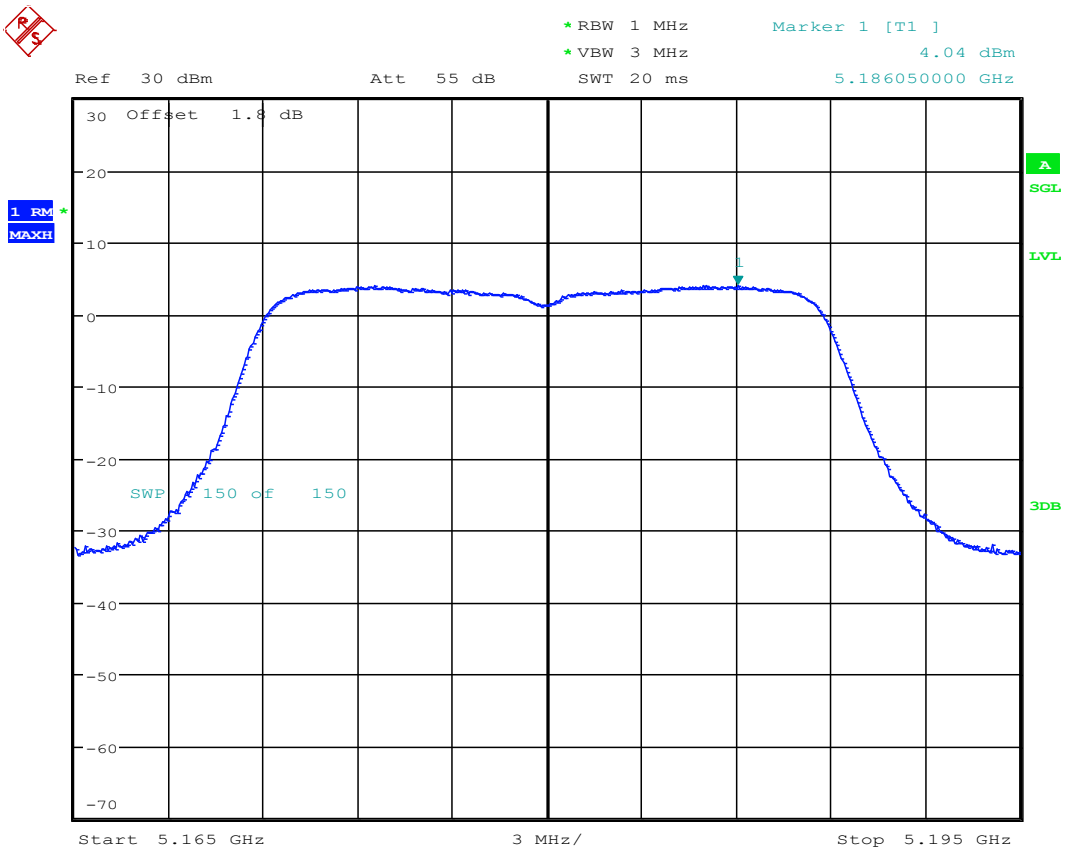
Date: 6.MAR.2018 11:24:30

11.11 11N20_36 ANT 1



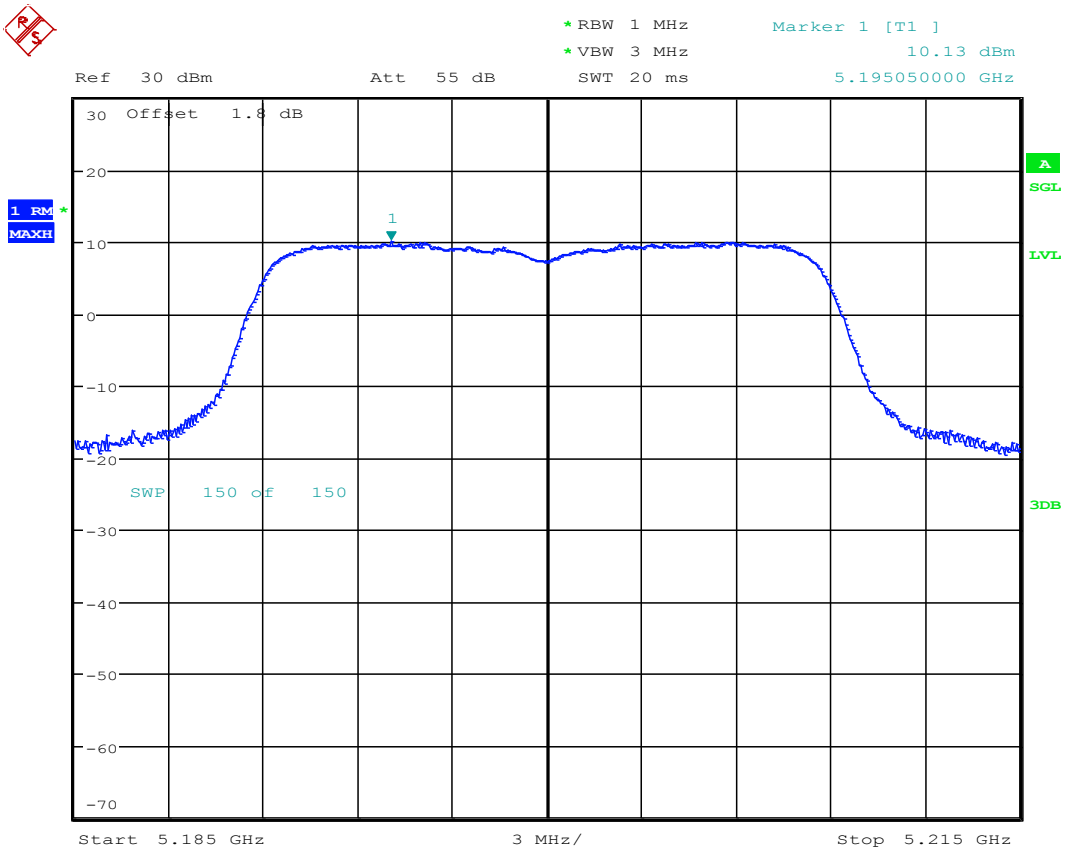
Date: 8.MAR.2018 11:39:10

11.12 11N20_36 ANT 2

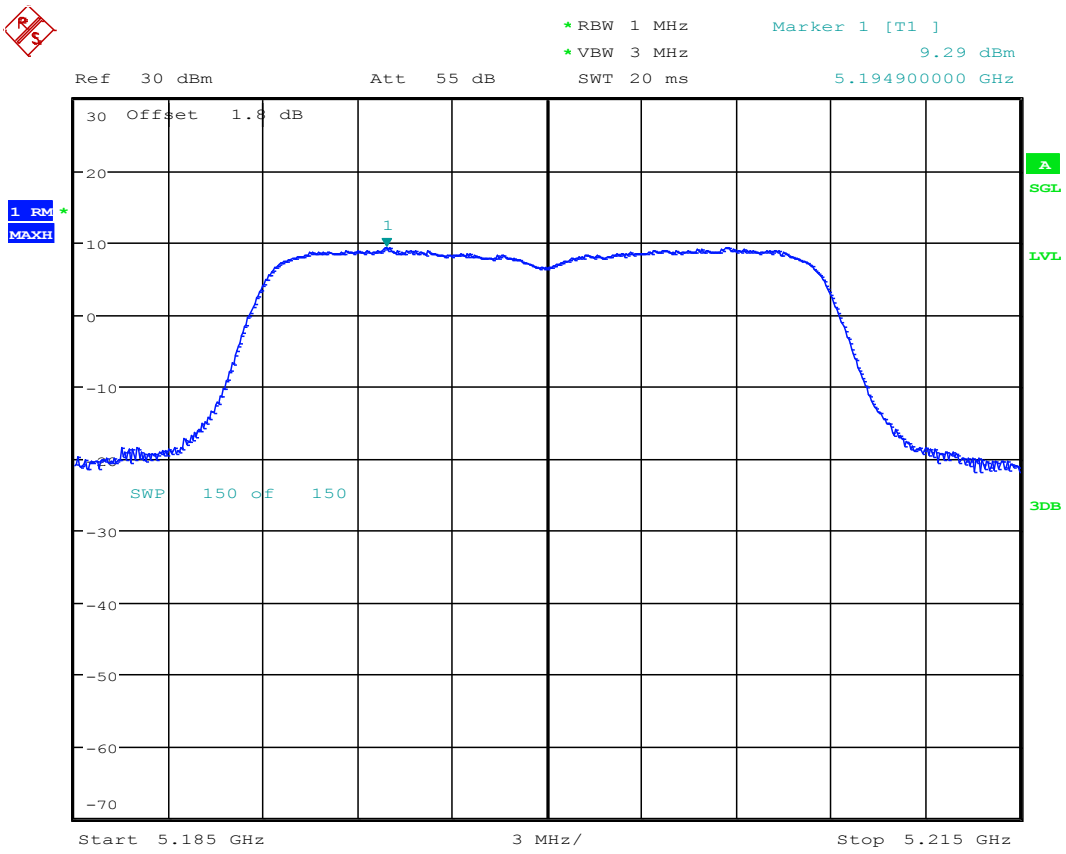


Date: 6.MAR.2018 11:30:33

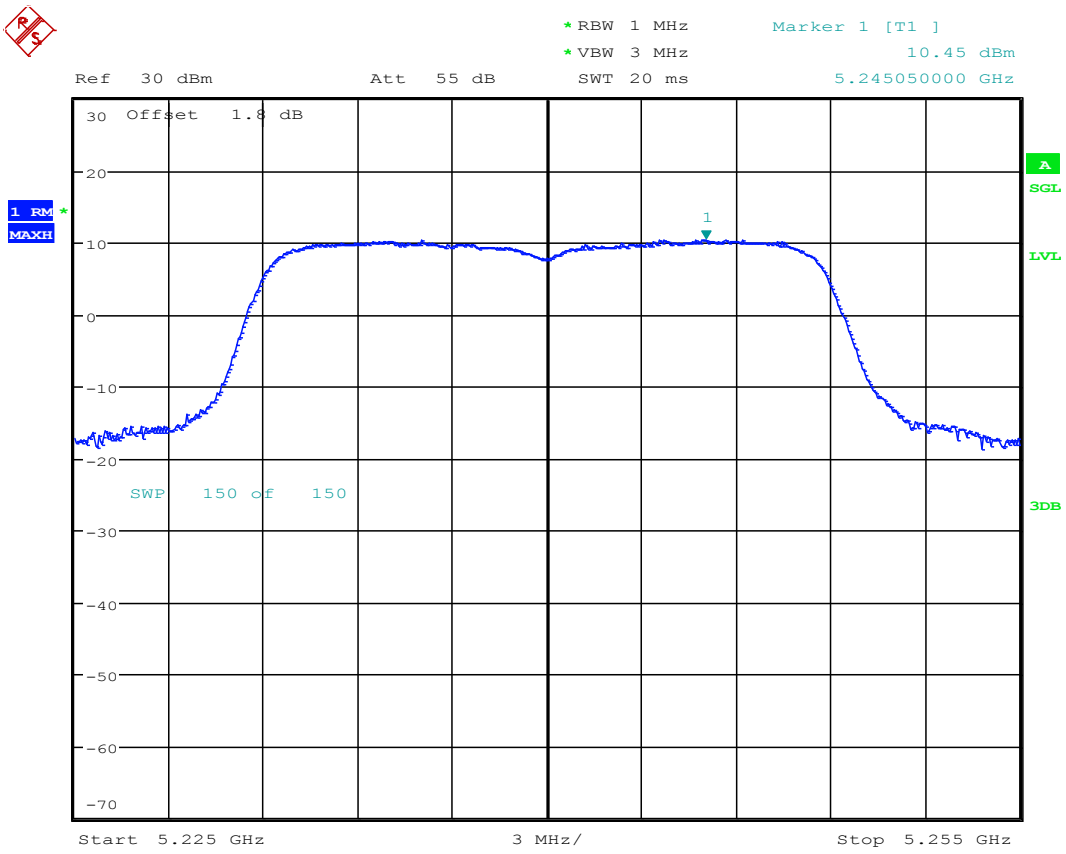
11.13 11N20_40 ANT 1



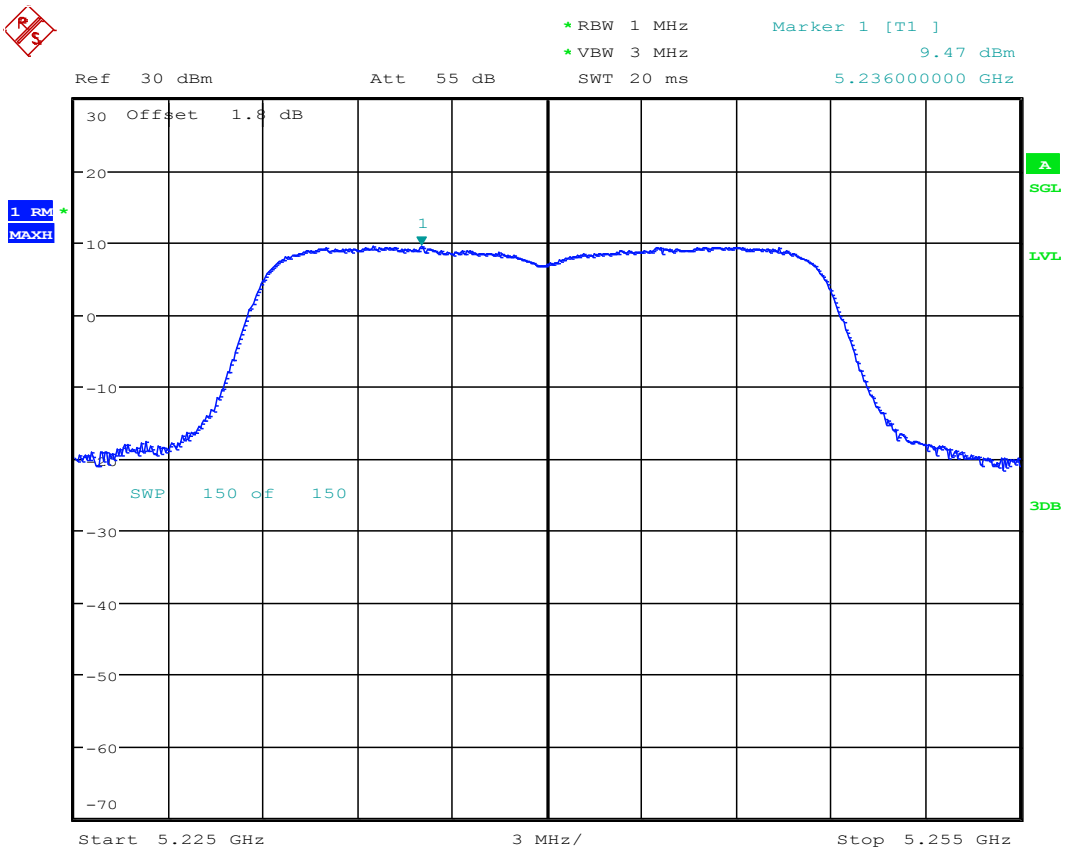
11.14 11N20_40 ANT 2



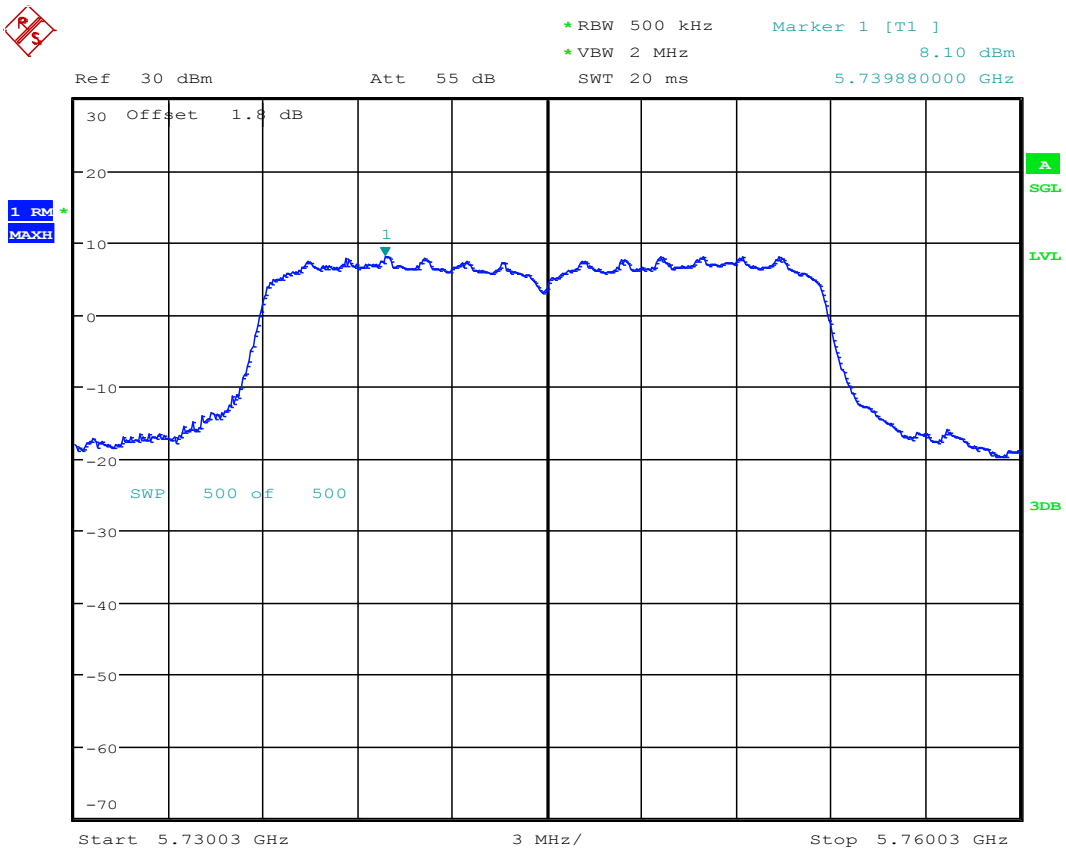
11.15 11N20_48 ANT 1



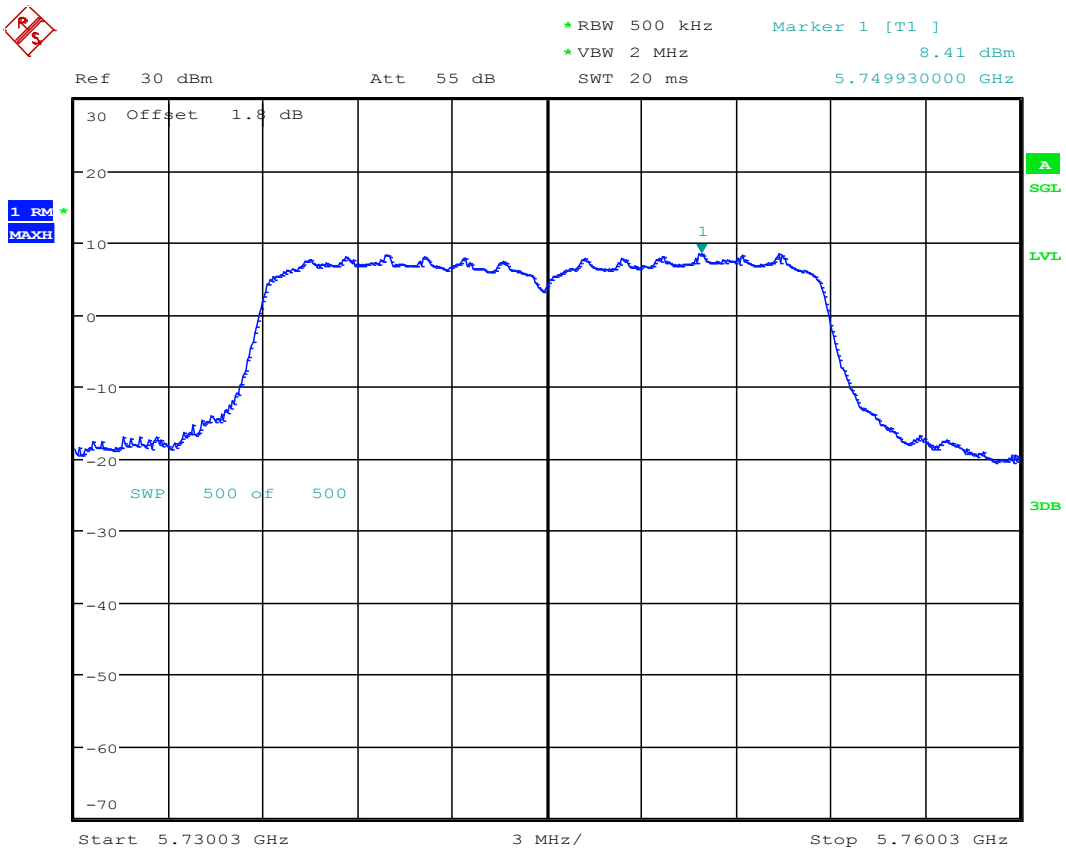
11.16 11N20_48 ANT 2



11.17 11N20_149 ANT 1

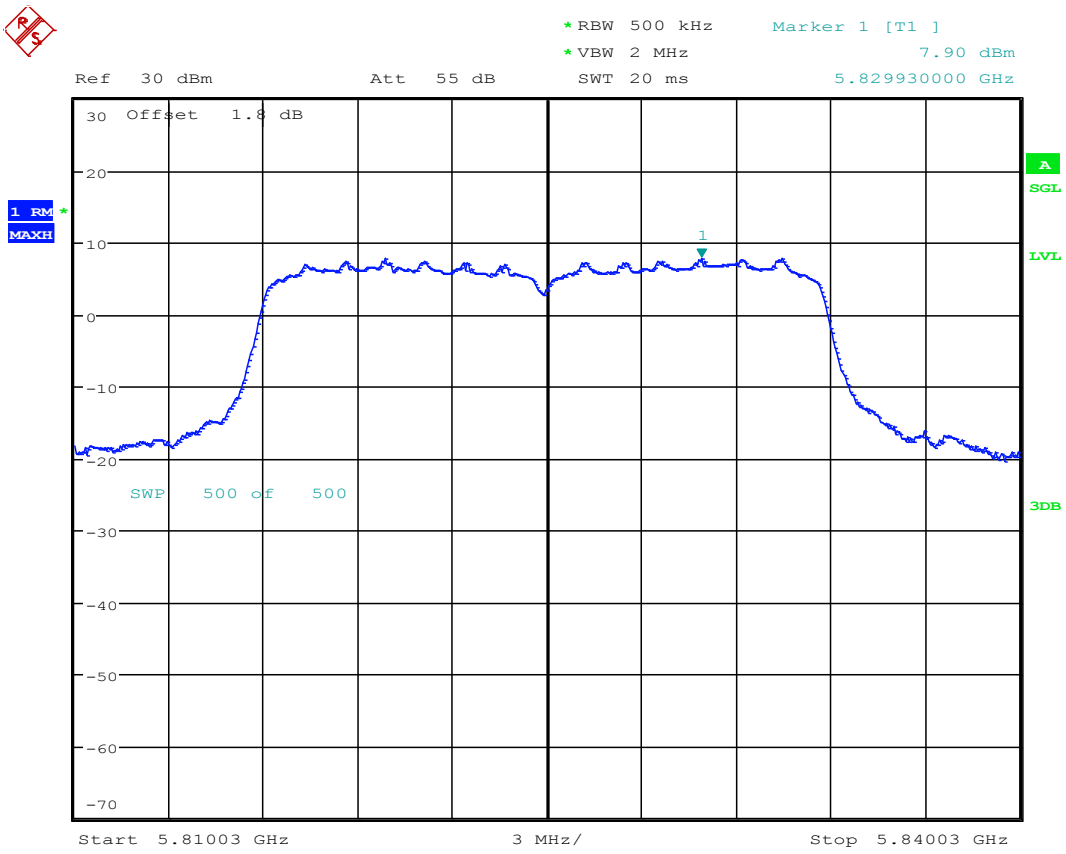


11.18 11N20_149 ANT 2

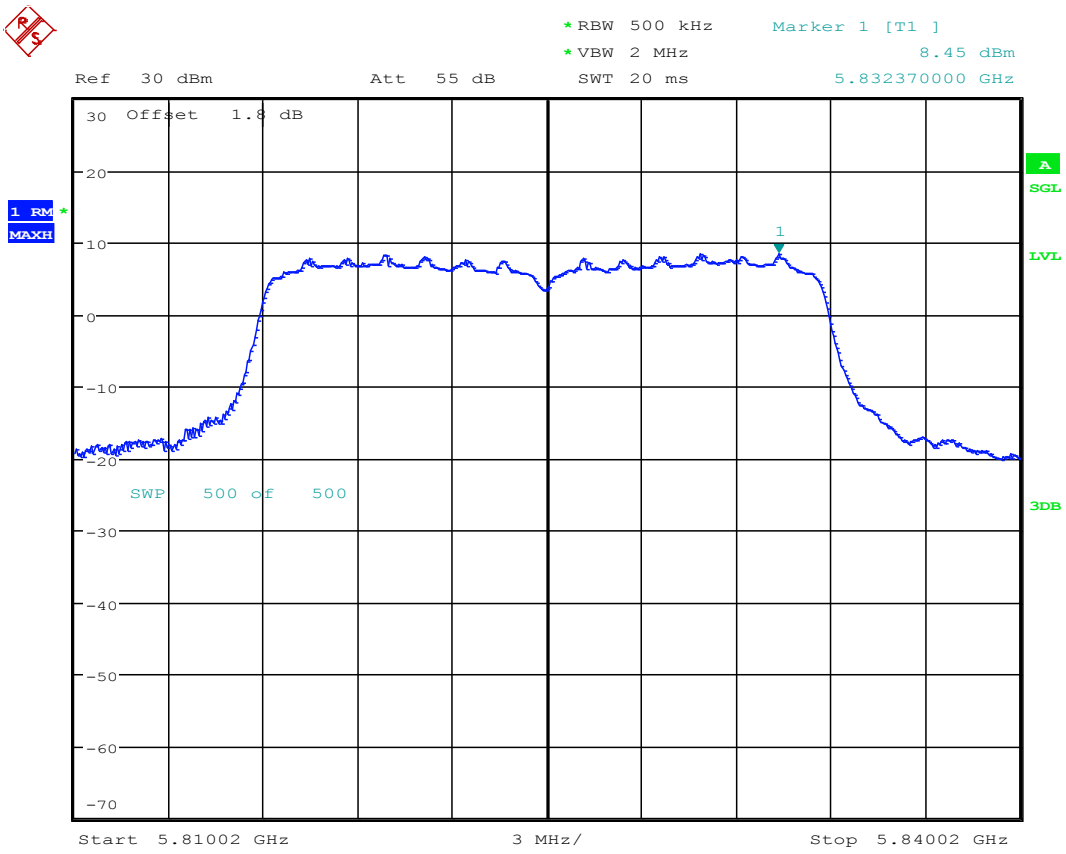


Date: 6.MAR.2018 11:43:04

11.19 11N20_165 ANT 1

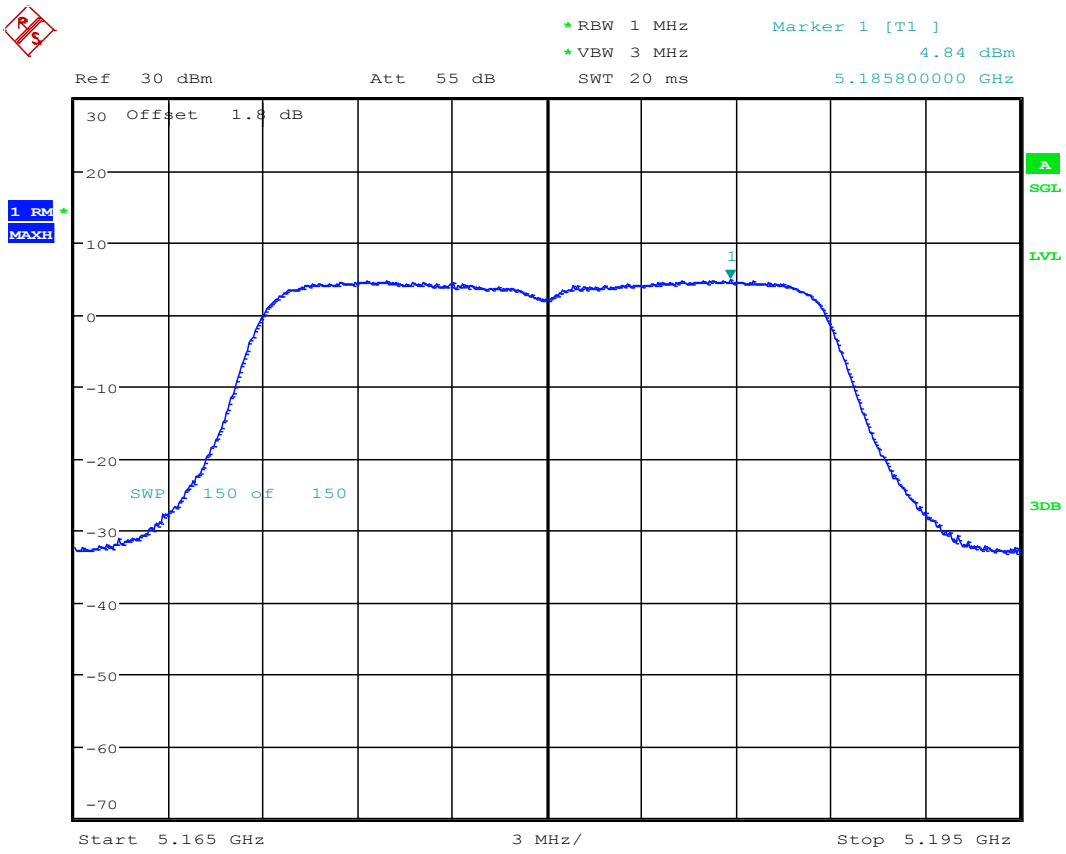


11.20 11N20_165 ANT 2



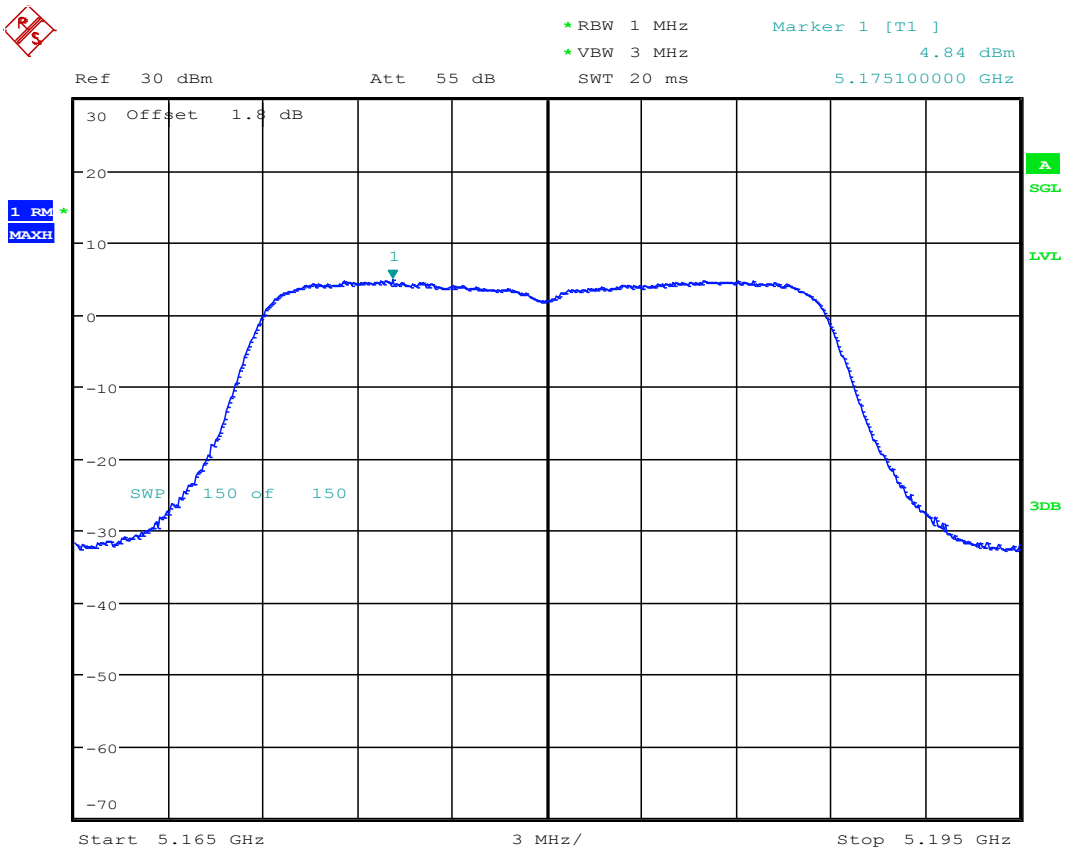
Date: 6.MAR.2018 11:49:58

11.21 11N20MIMO_36 ANT 1



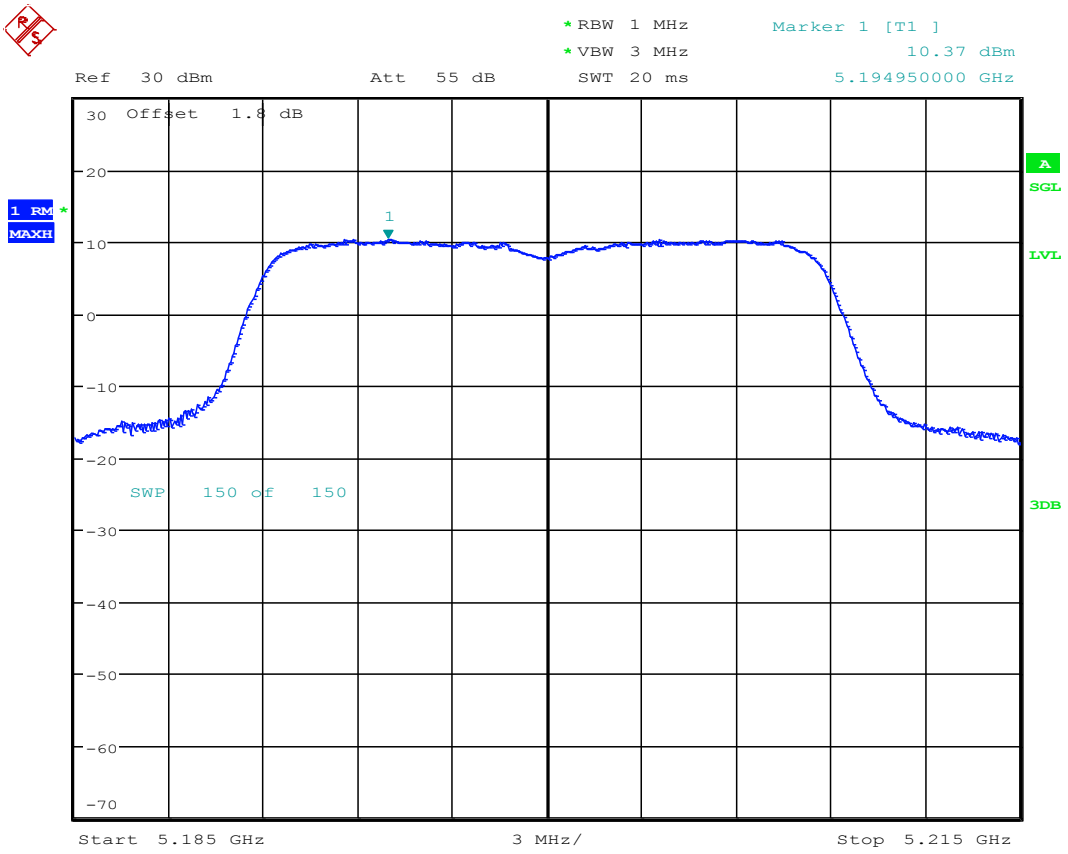
Date: 6.MAR.2018 16:06:23

11.22 11N20MIMO_36 ANT 2



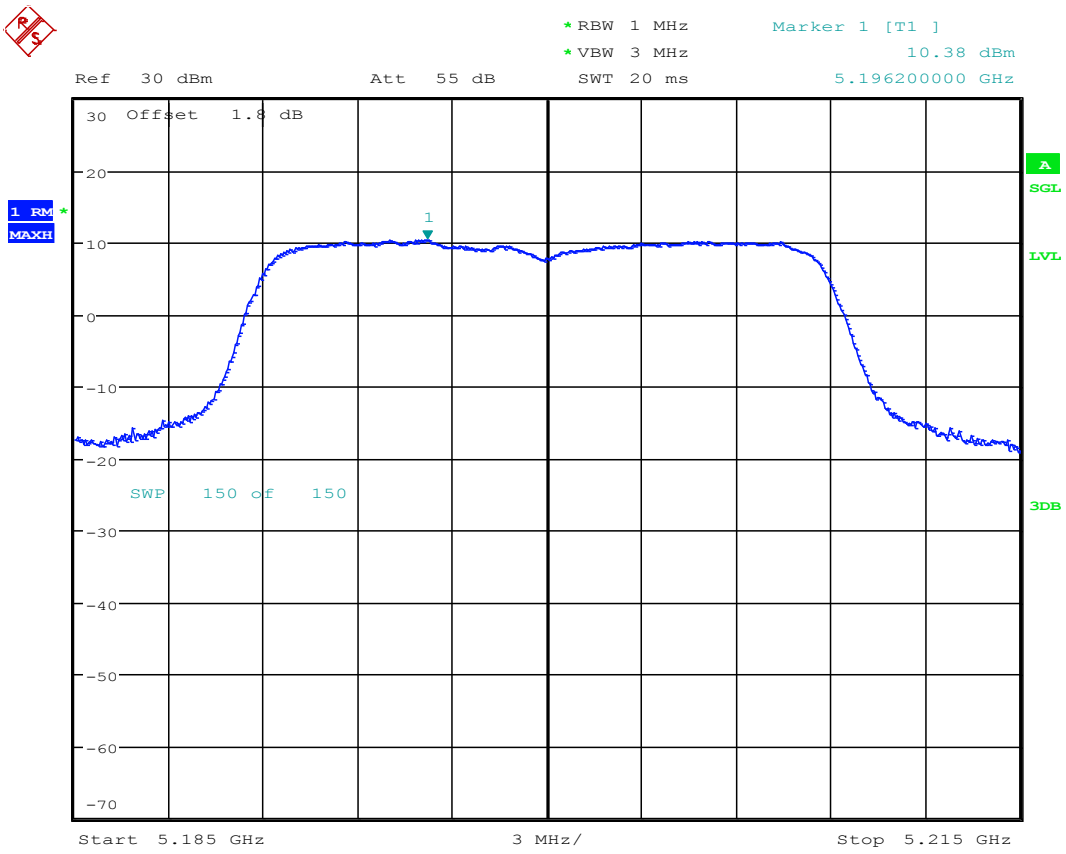
Date: 6.MAR.2018 17:51:34

11.23 11N20MIMO_40 ANT 1

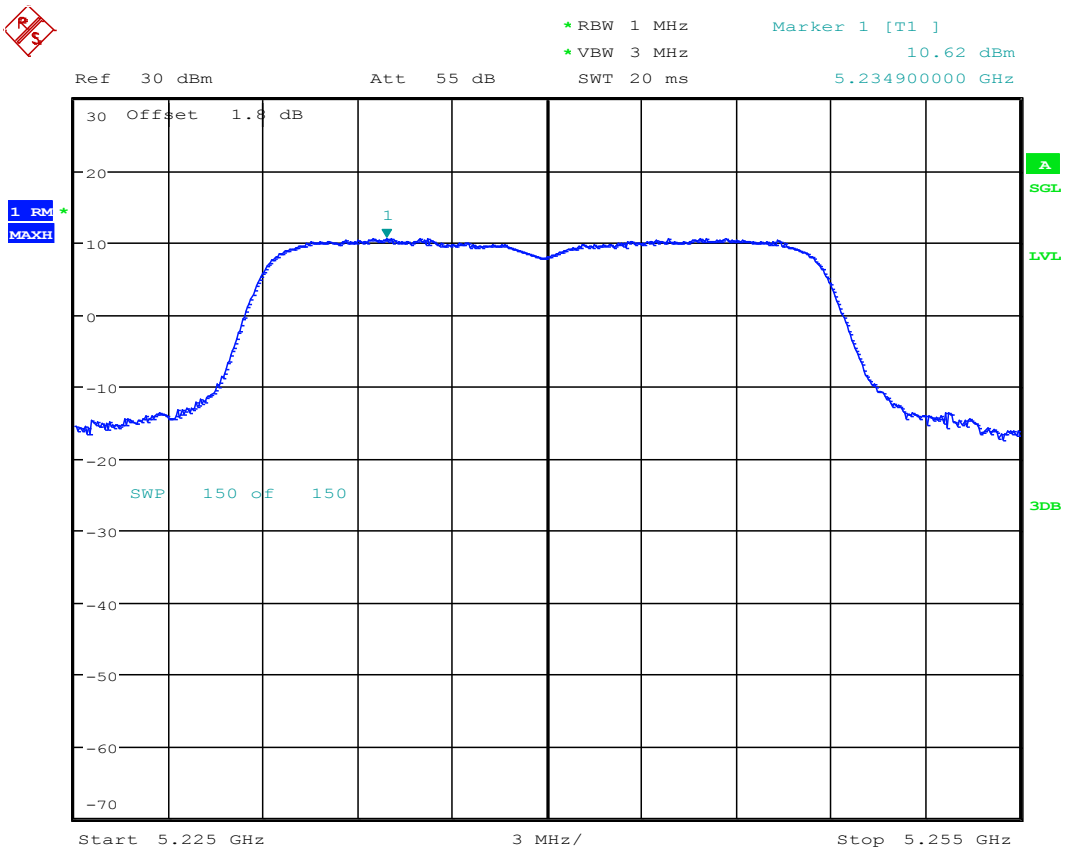


Date: 21.MAR.2018 11:56:21

11.24 11N20MIMO_40 ANT 2

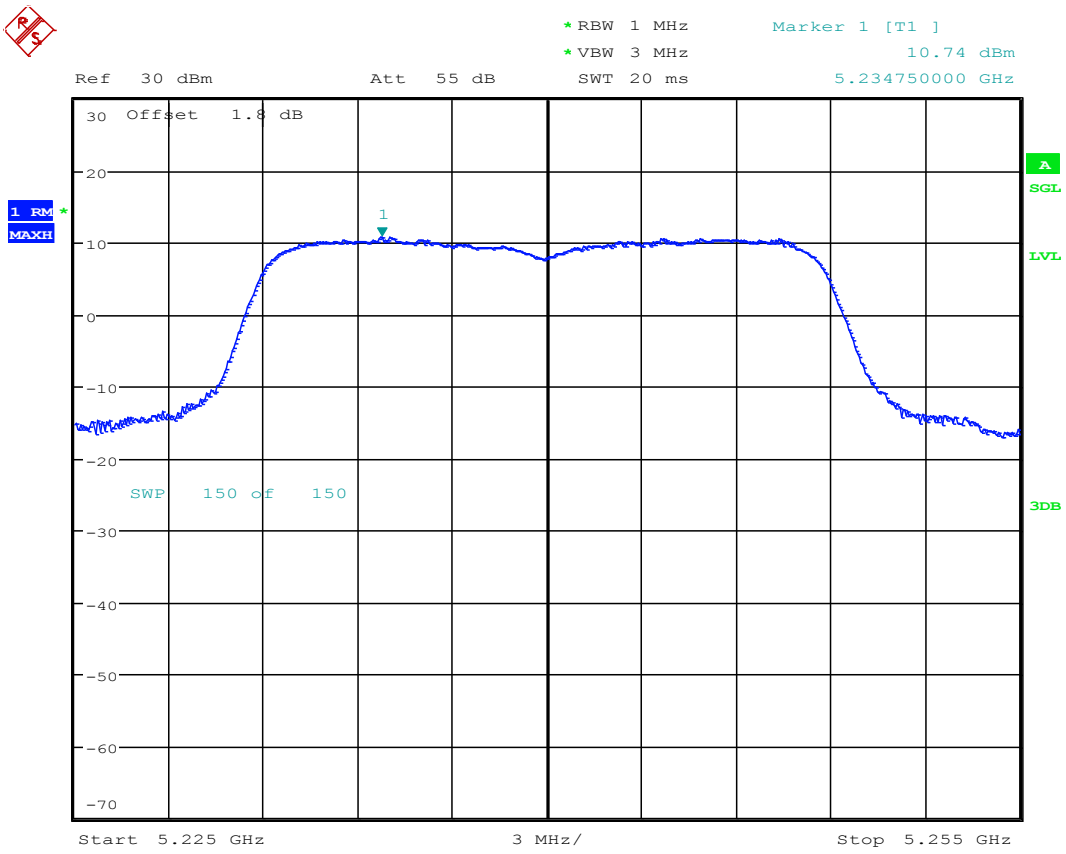


11.25 11N20MIMO_48 ANT 1

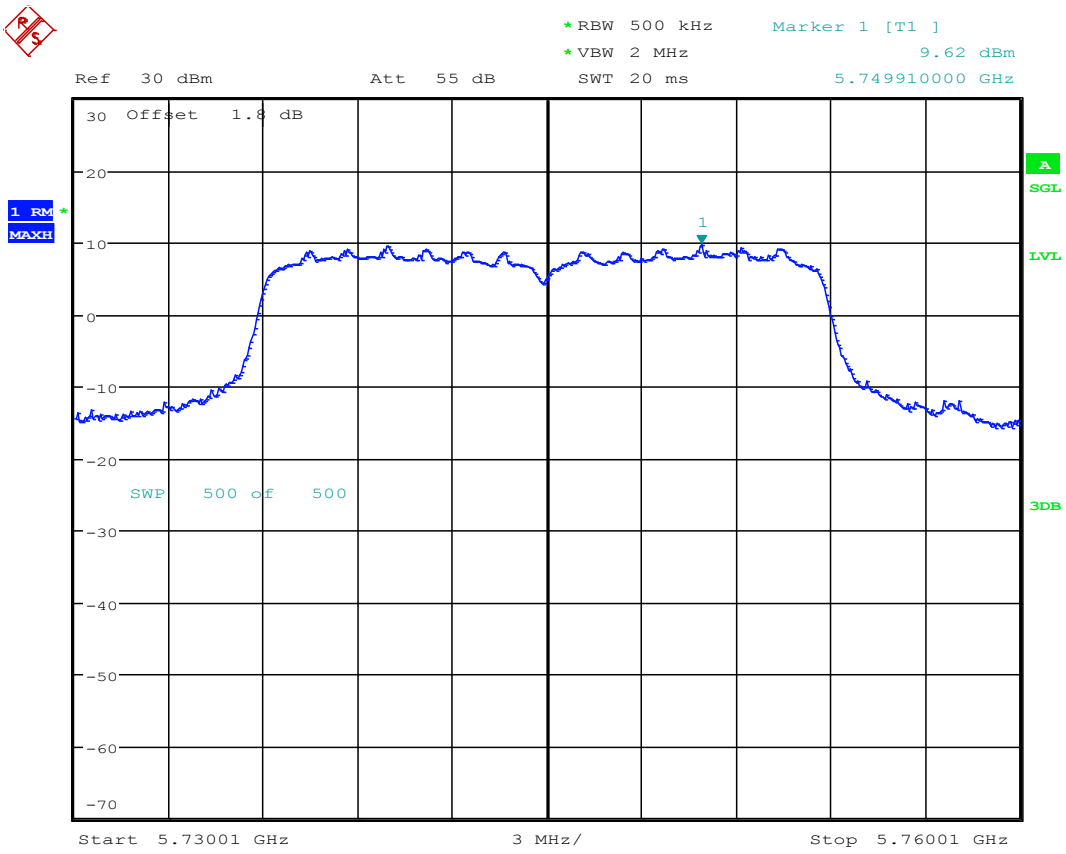


Date: 6.MAR.2018 16:09:31

11.26 11N20MIMO_48 ANT 2

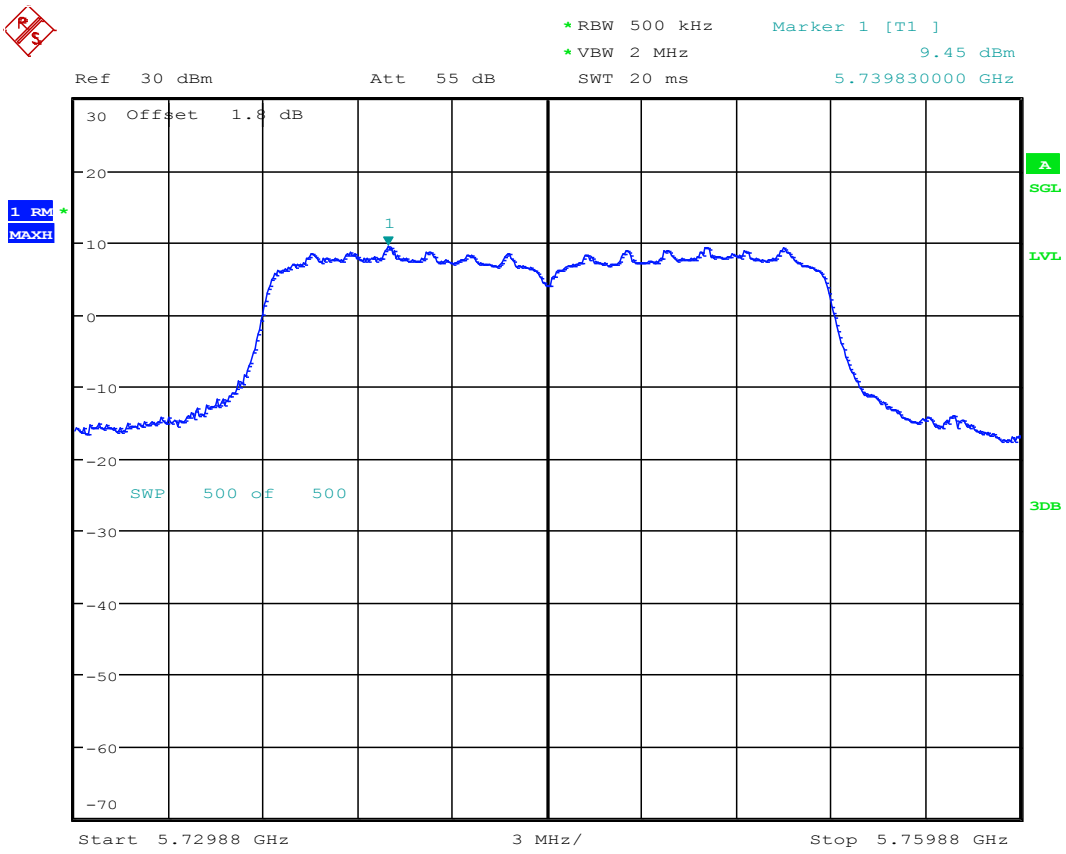


11.27 11N20MIMO_149 ANT 1



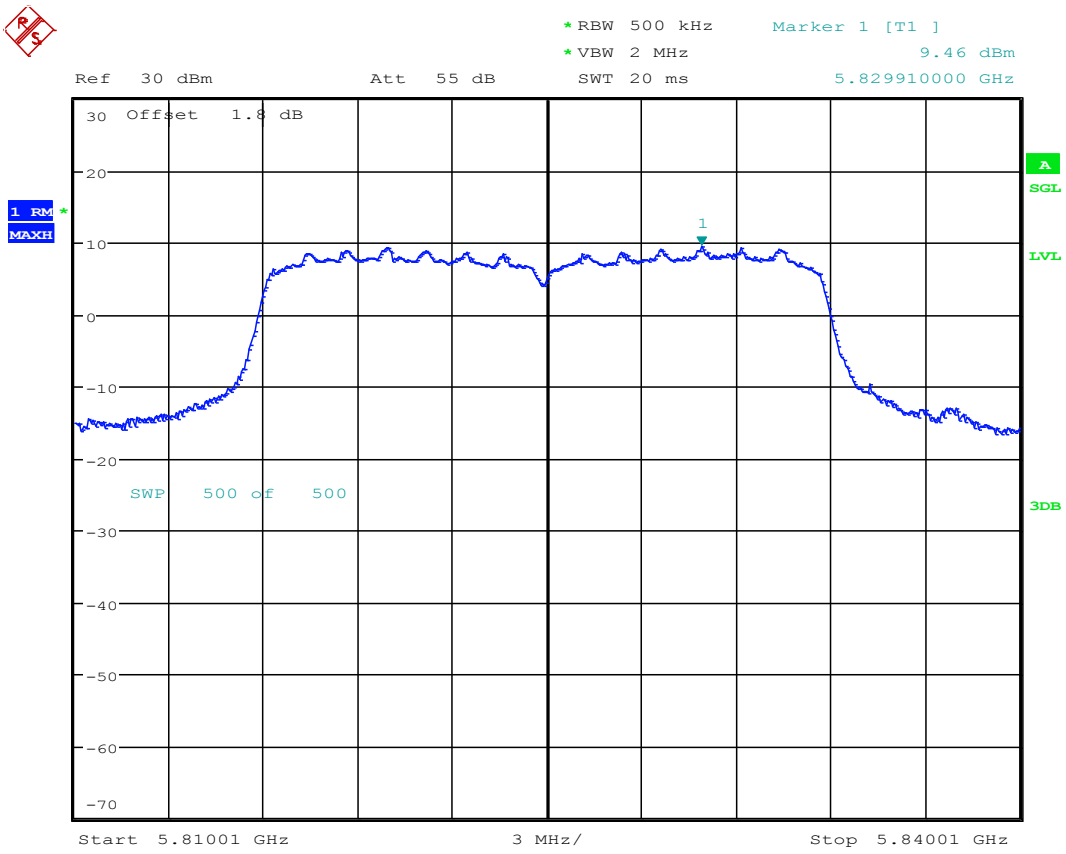
Date: 6.MAR.2018 16:14:23

11.28 11N20MIMO_149 ANT 2



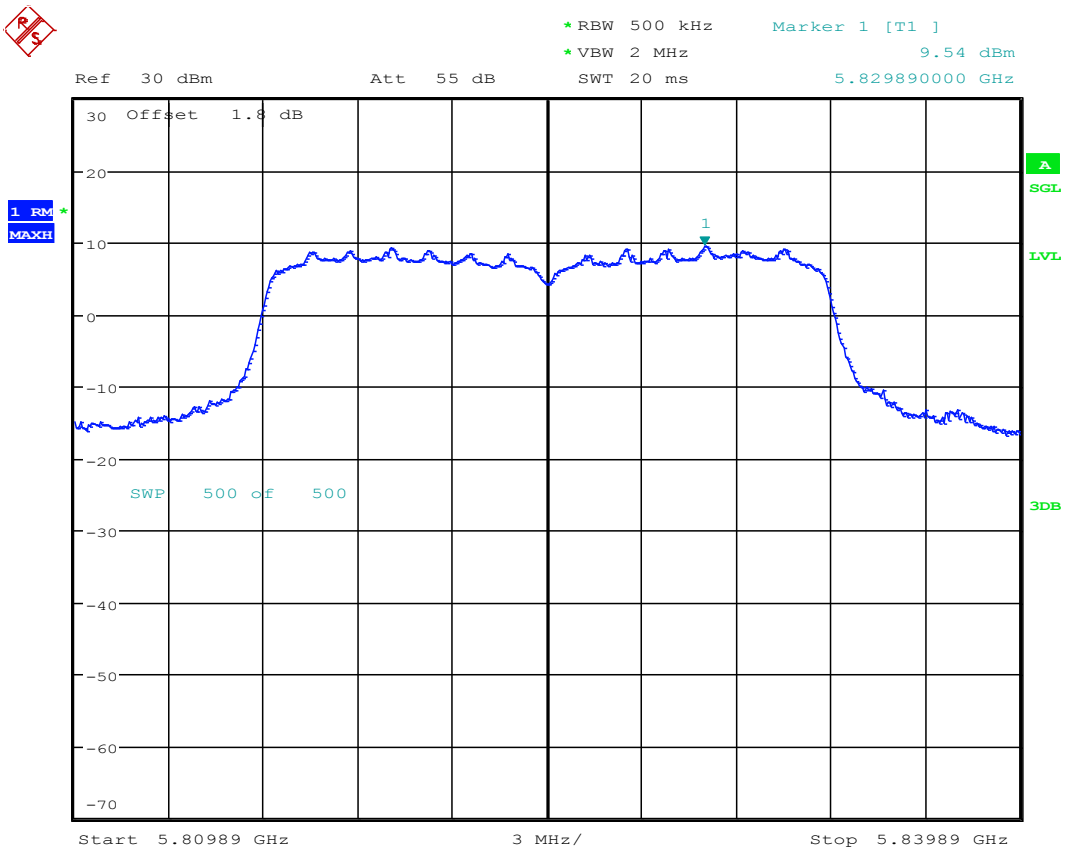
Date: 6.MAR.2018 17:58:13

11.29 11N20MIMO_165 ANT 1



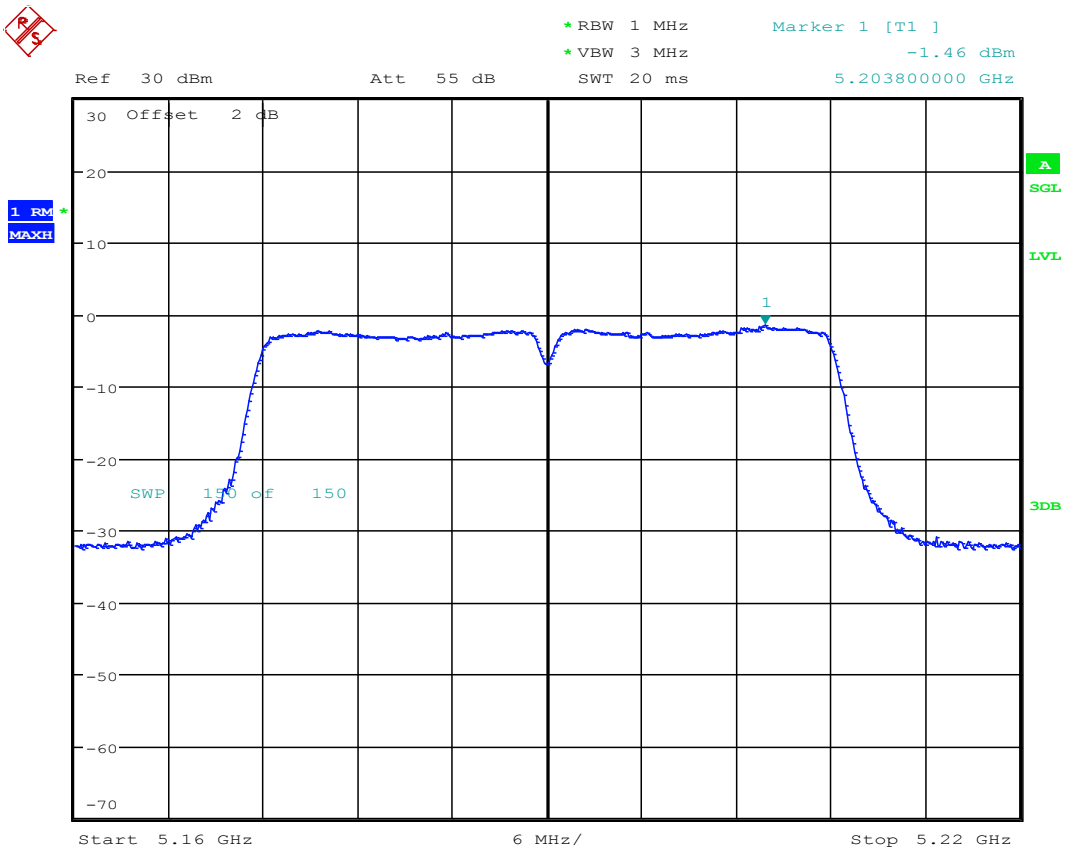
Date: 6.MAR.2018 16:20:43

11.30 11N20MIMO_165 ANT 2

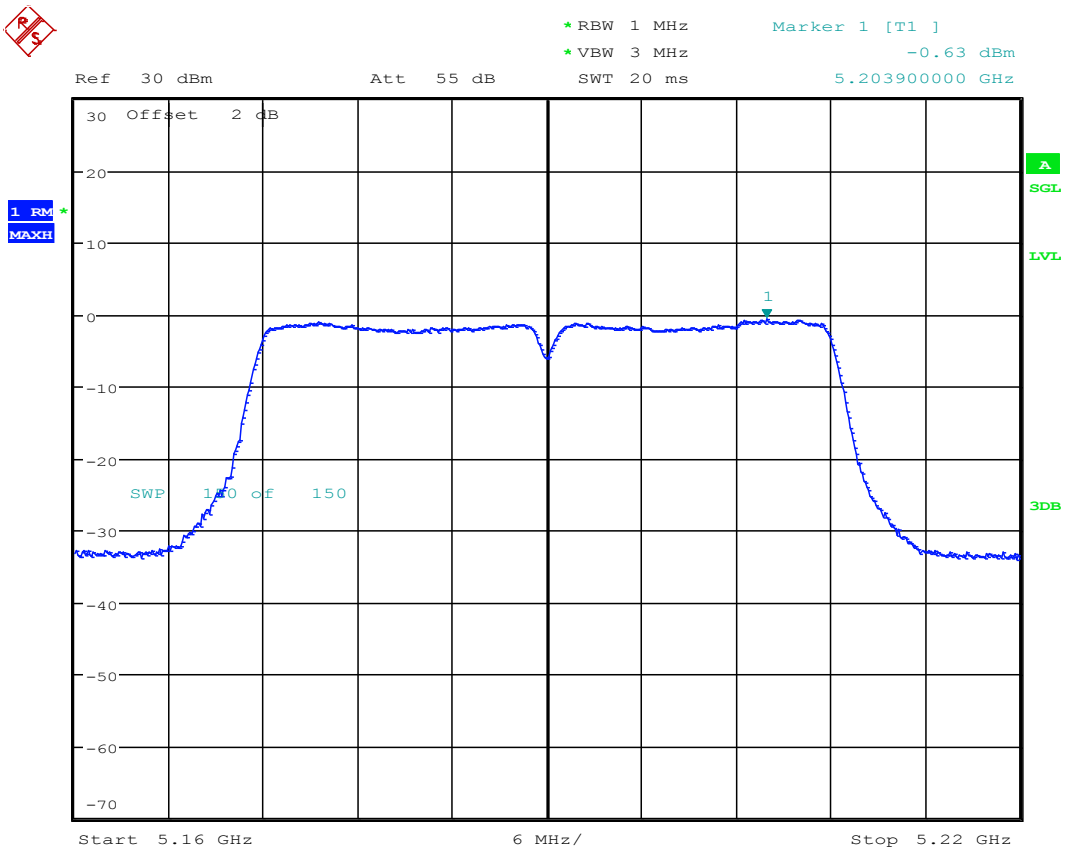


Date: 6.MAR.2018 18:06:47

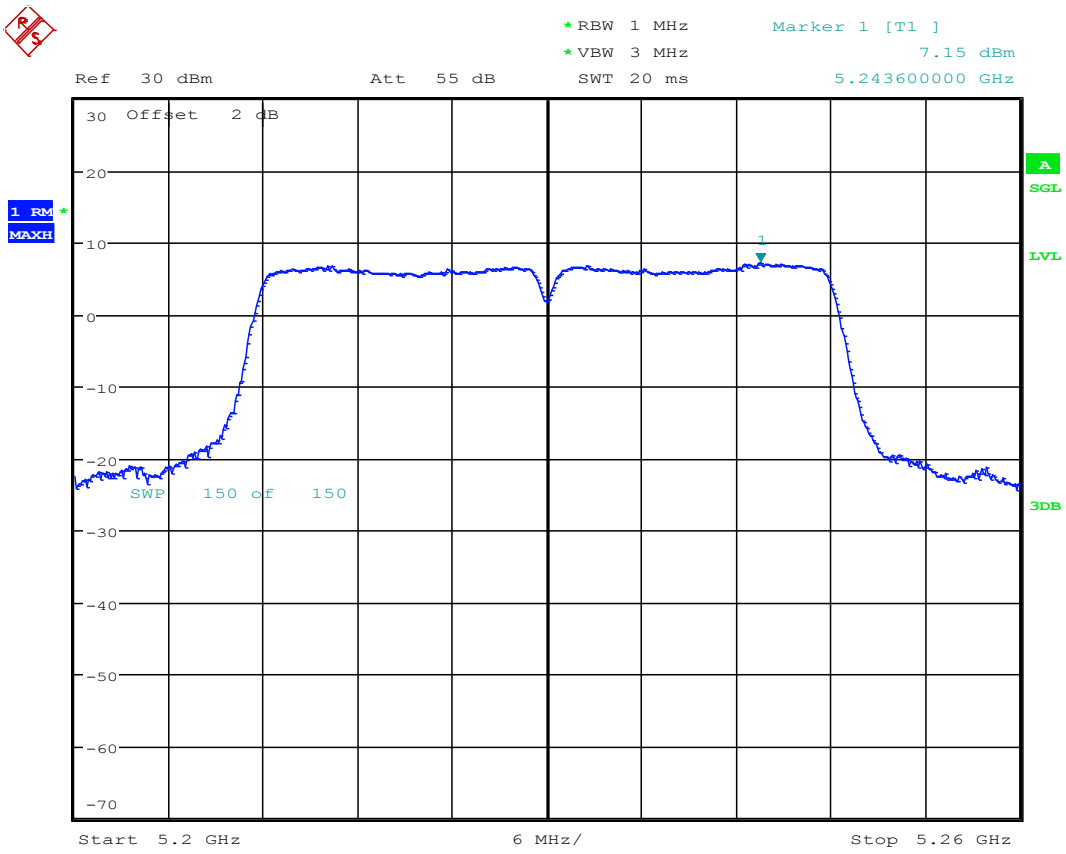
11.31 11N40_38 ANT 1



11.32 11N40_38 ANT 2

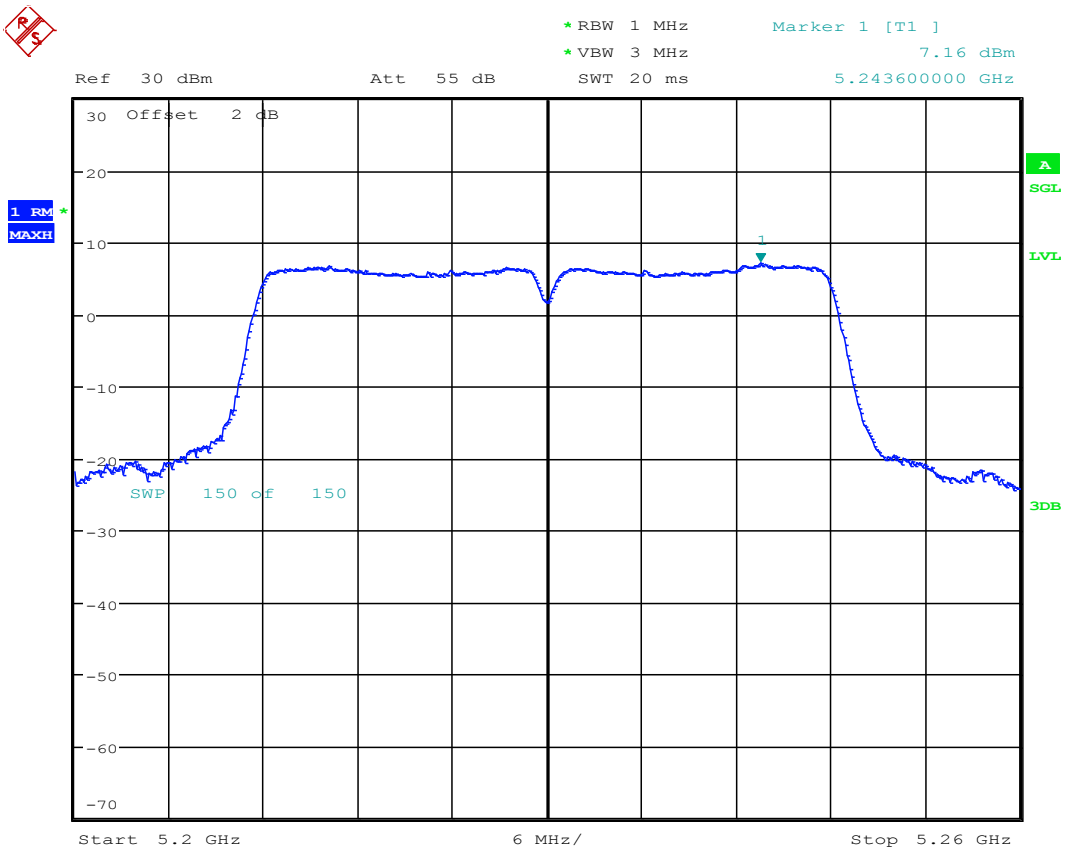


11.33 11N40_46 ANT 1



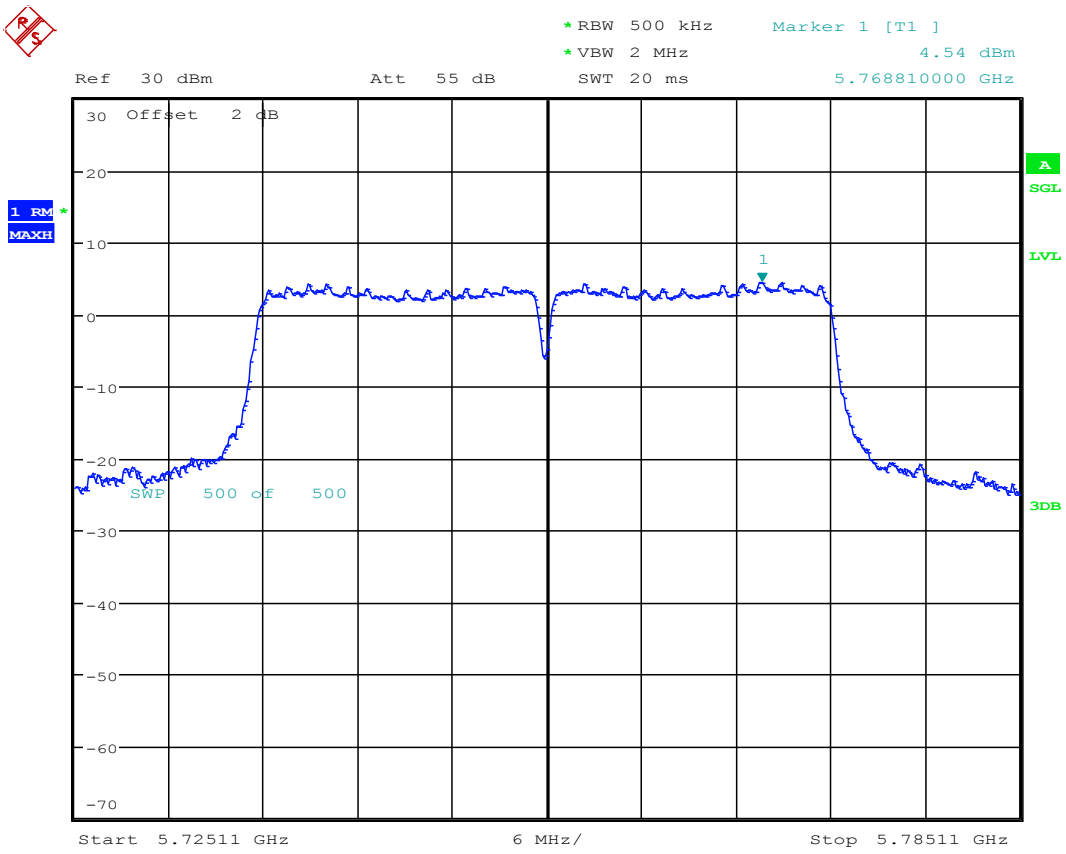
Date: 8.MAR.2018 13:58:47

11.34 11N40_46 ANT 2



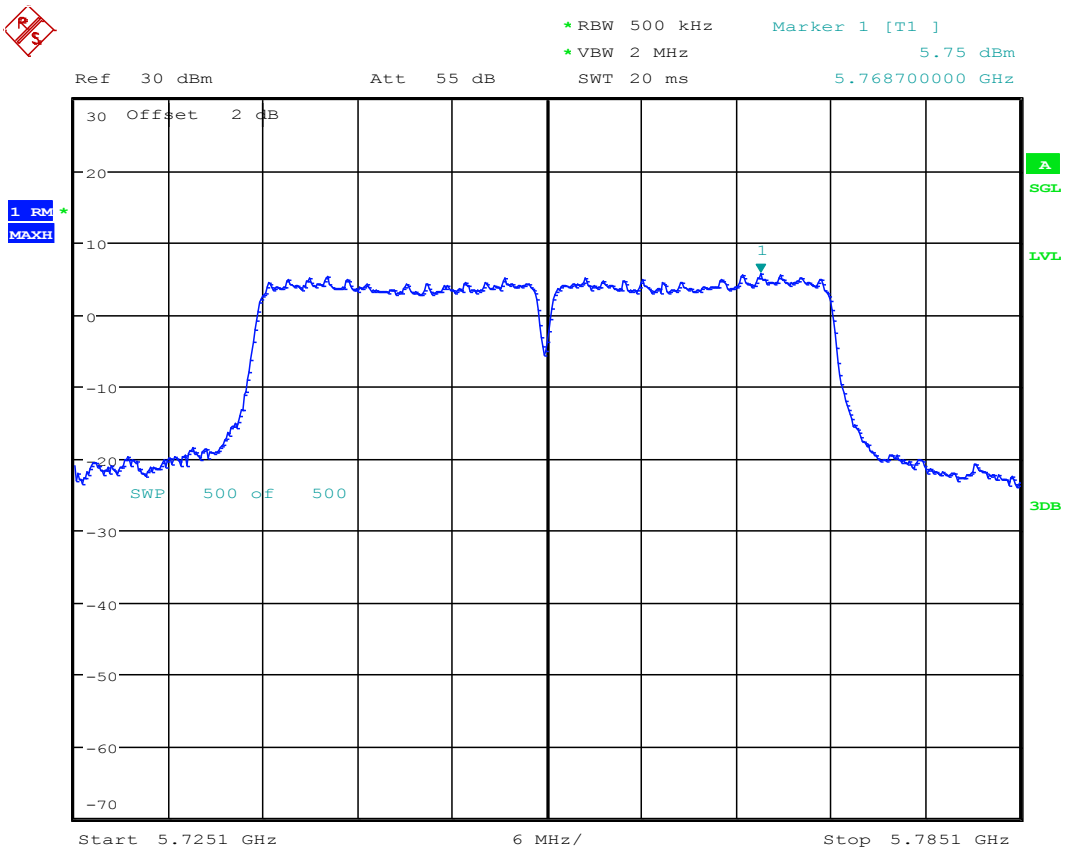
Date: 6.MAR.2018 11:57:44

11.35 11N40_151 ANT 1

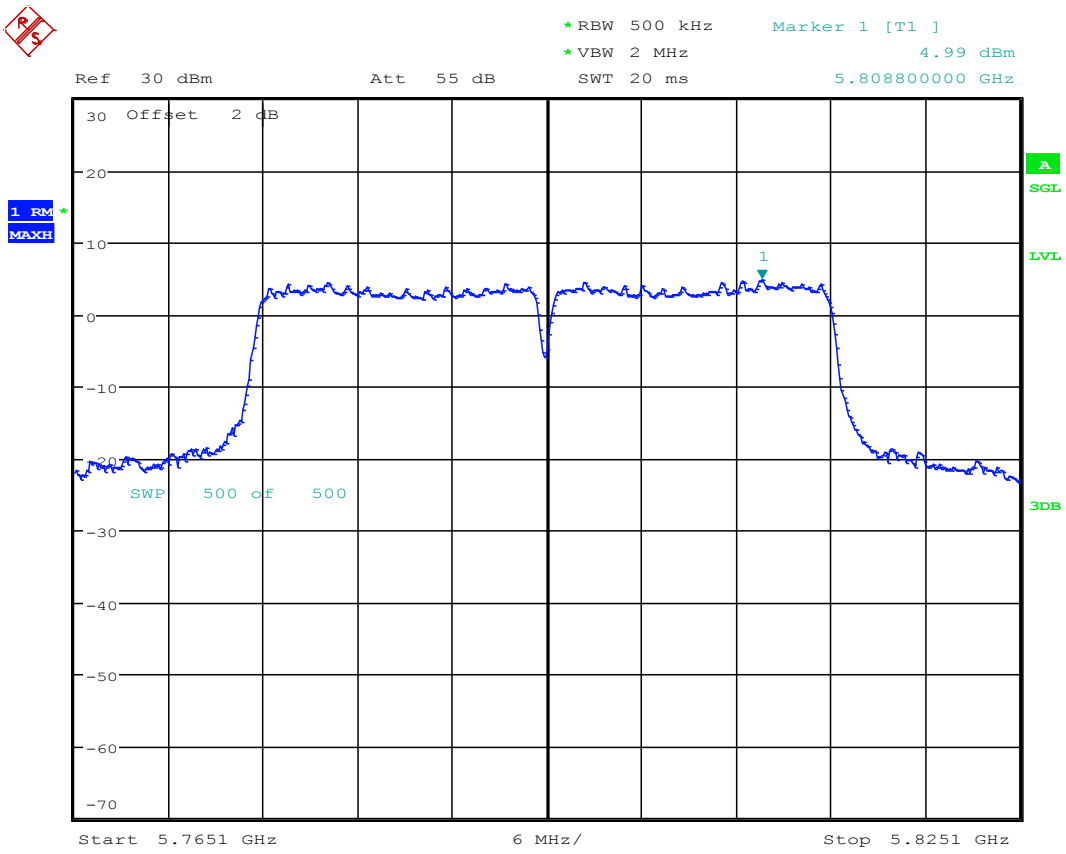


Date: 8.MAR.2018 14:02:27

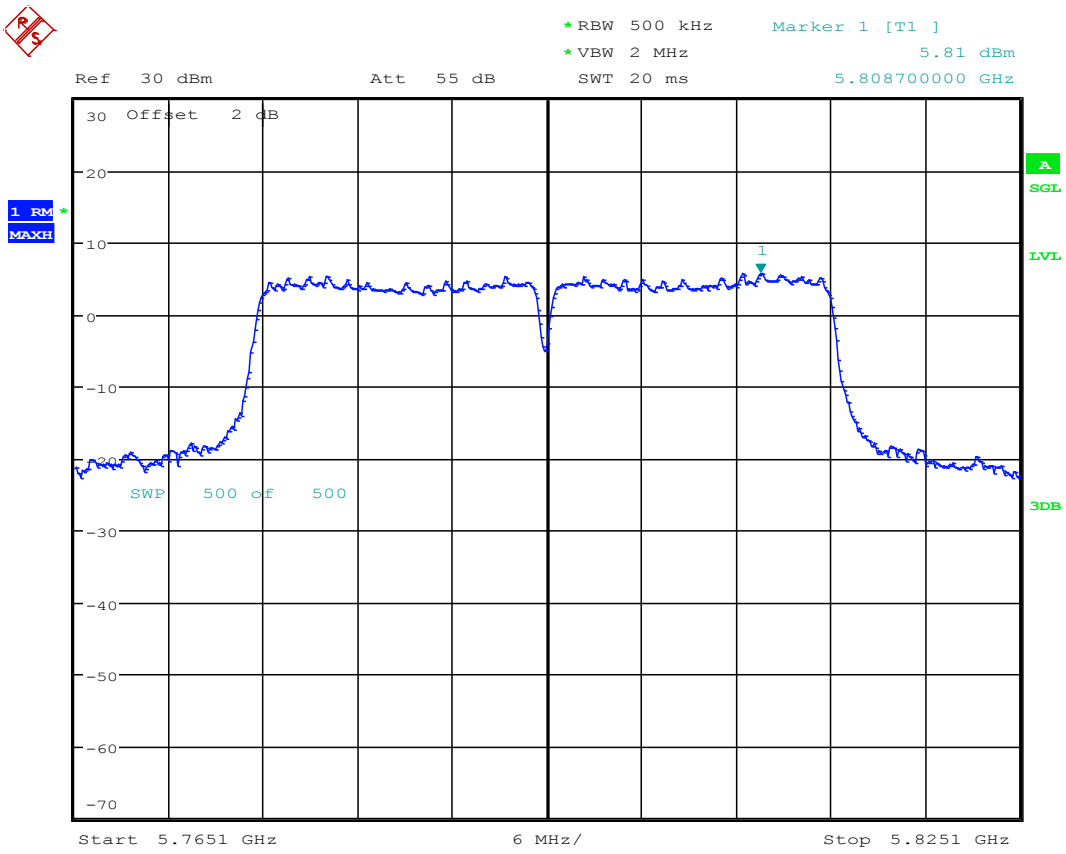
11.36 11N40_151 ANT 2



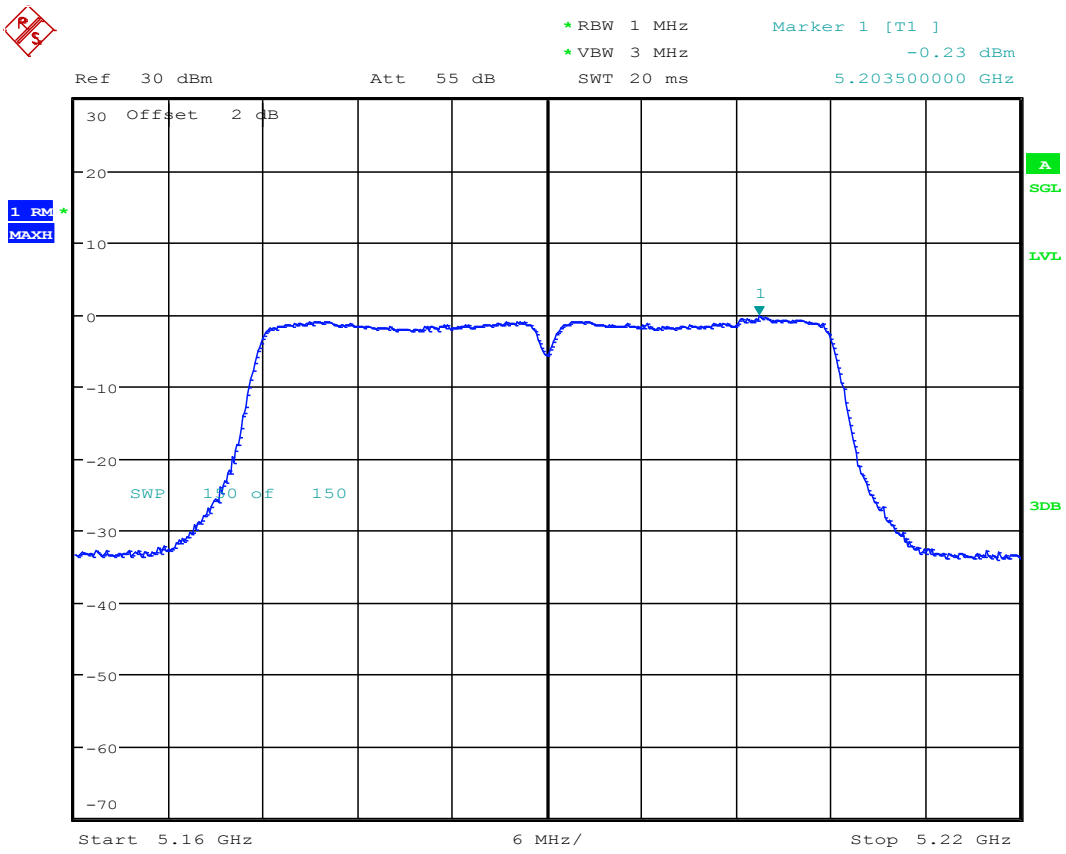
11.37 11N40_159 ANT 1



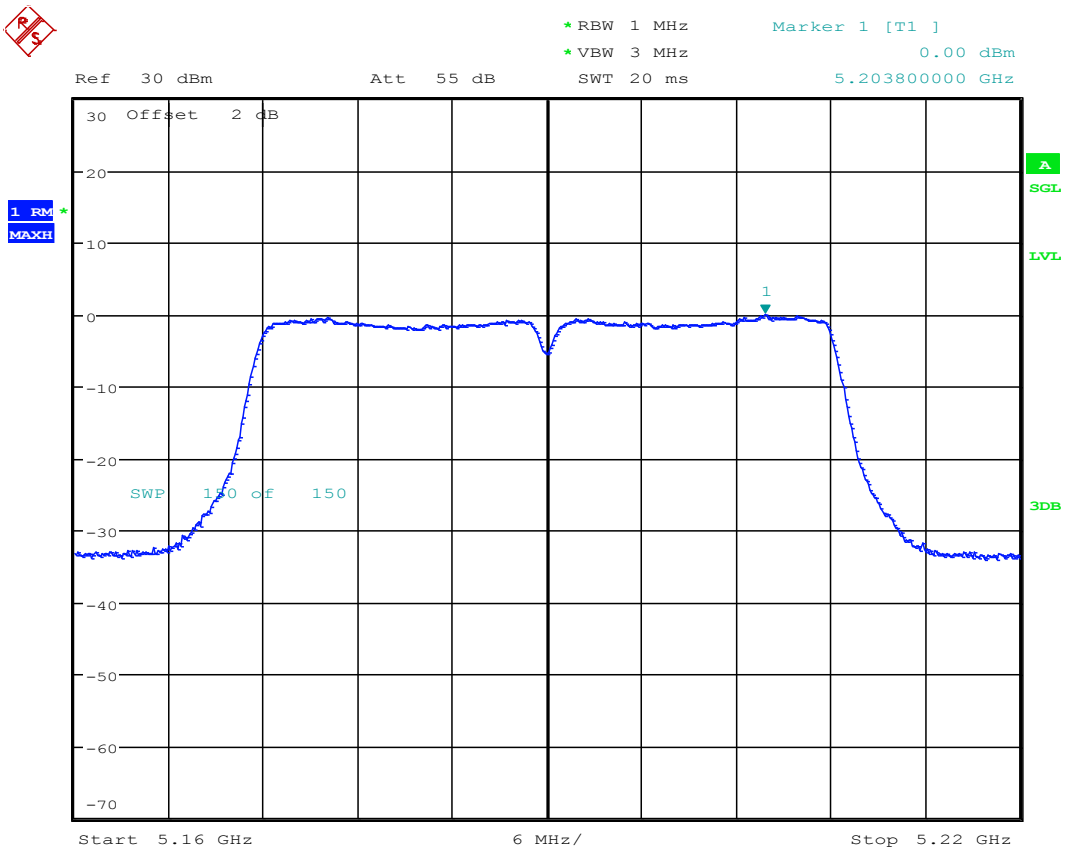
11.38 11N40_159 ANT 2



11.39 11N40MIMO_38 ANT 1

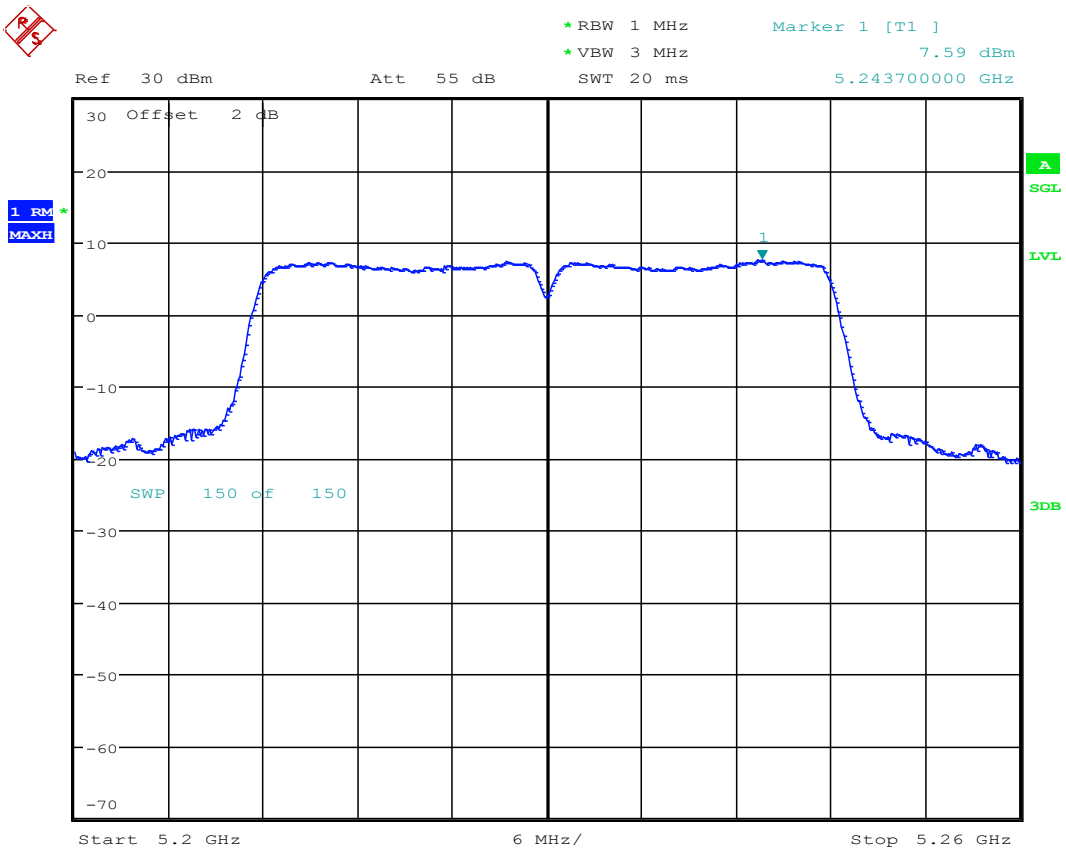


11.40 11N40MIMO_38 ANT 2



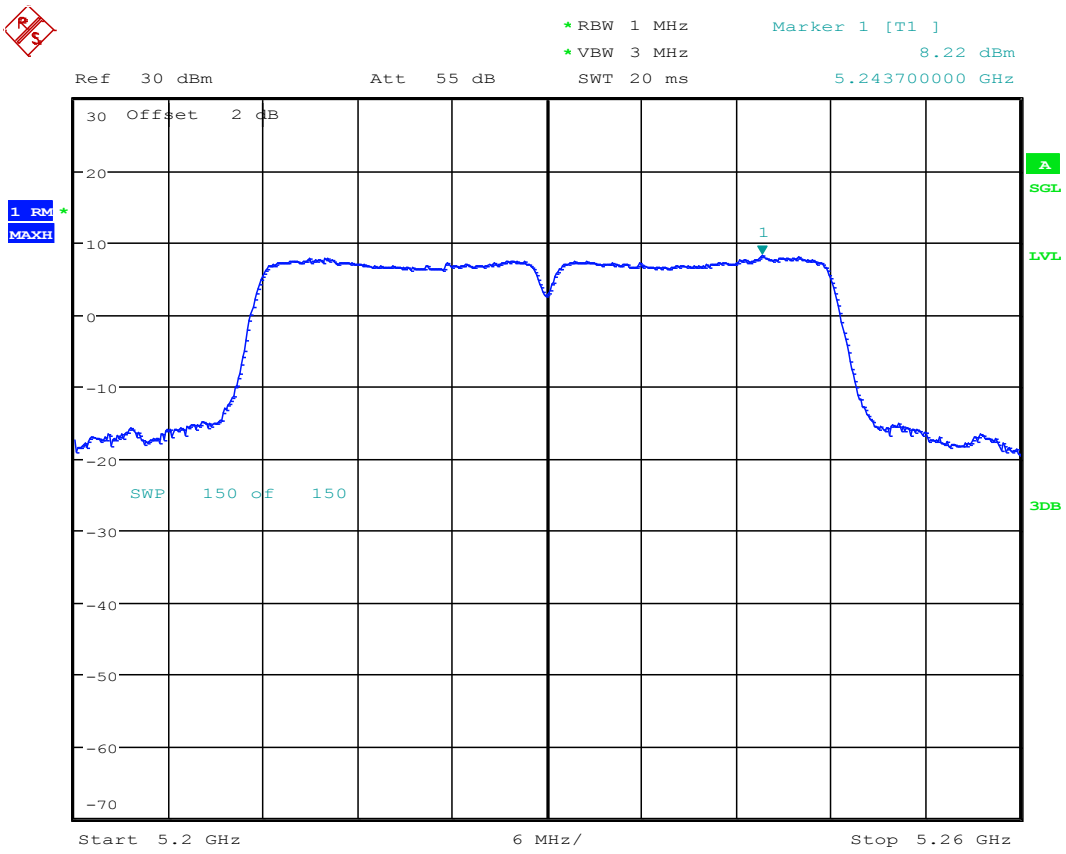
Date: 6.MAR.2018 18:32:30

11.41 11N40MIMO_46 ANT 1

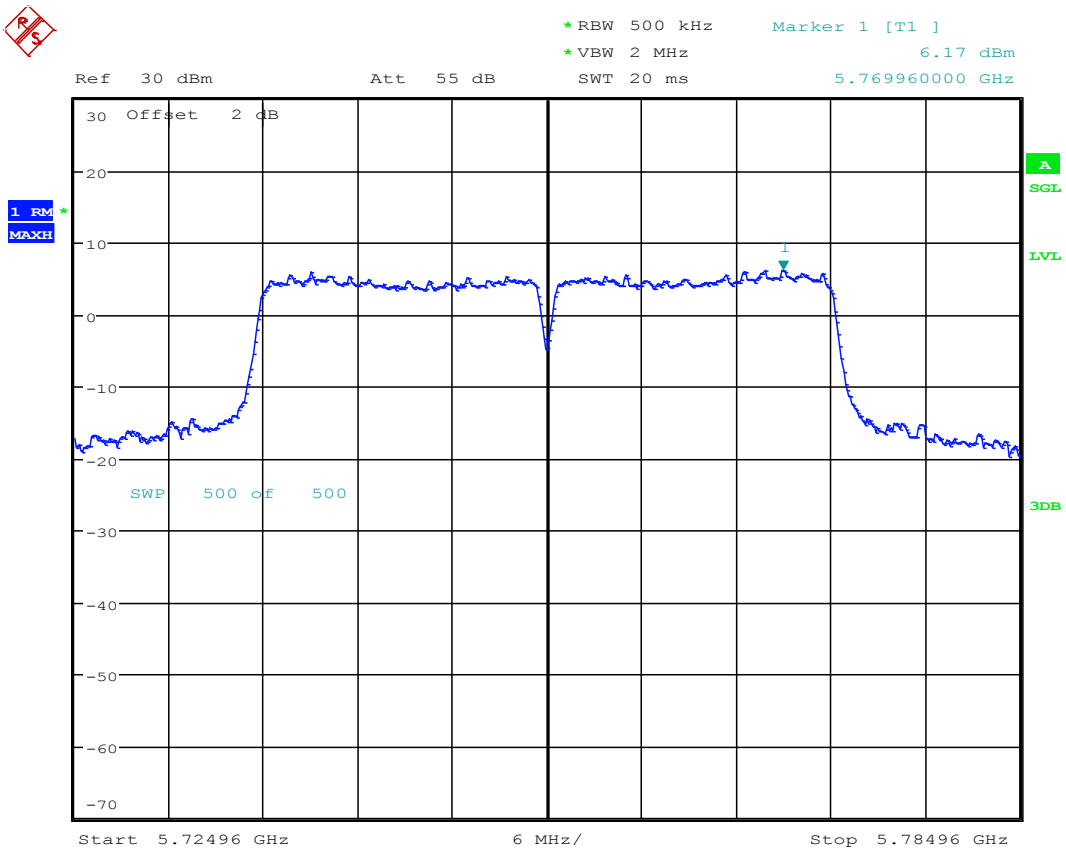


Date: 6.MAR.2018 17:08:41

11.42 11N40MIMO_46 ANT 2

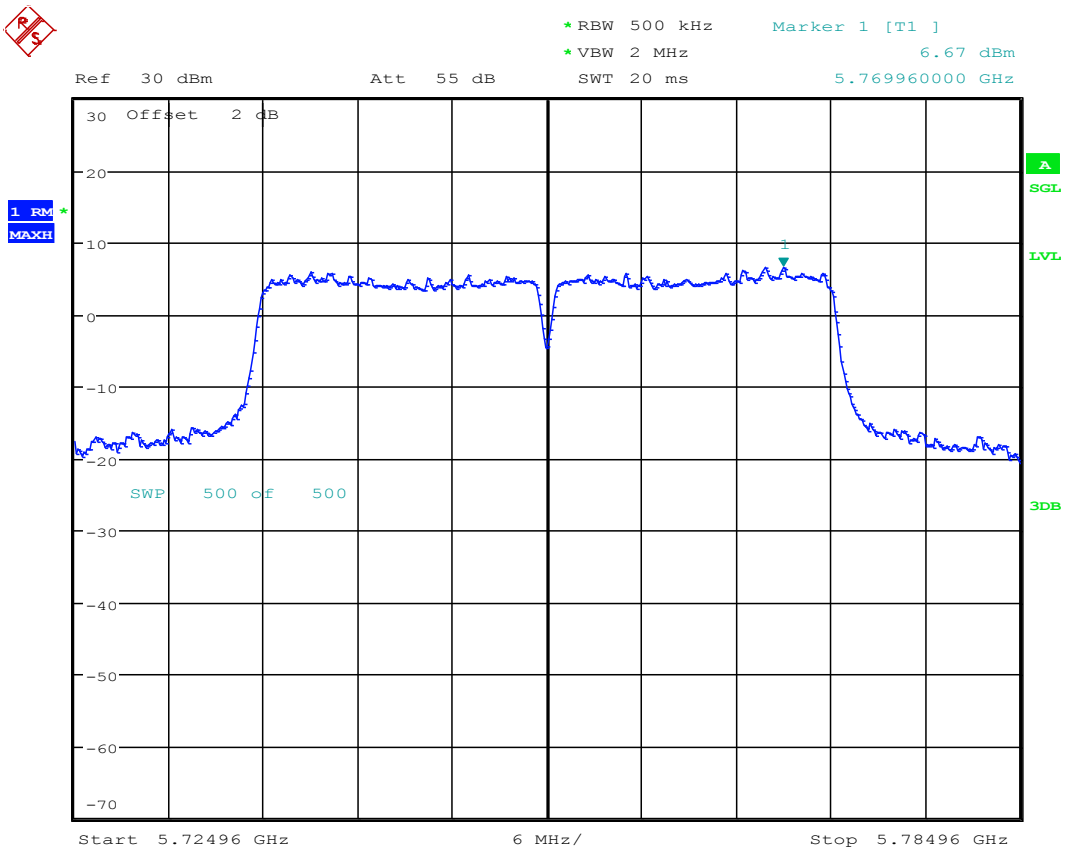


11.43 11N40MIMO_151 ANT 1



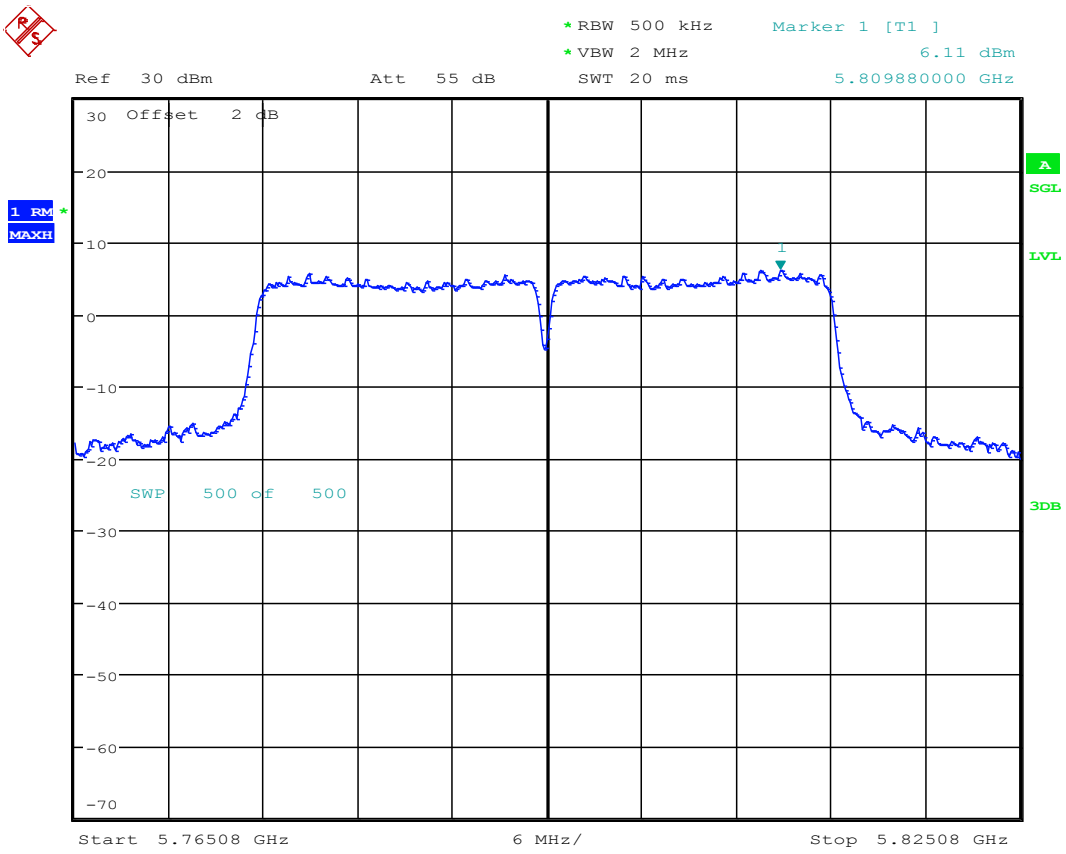
Date: 6.MAR.2018 17:12:22

11.44 11N40MIMO_151 ANT 2



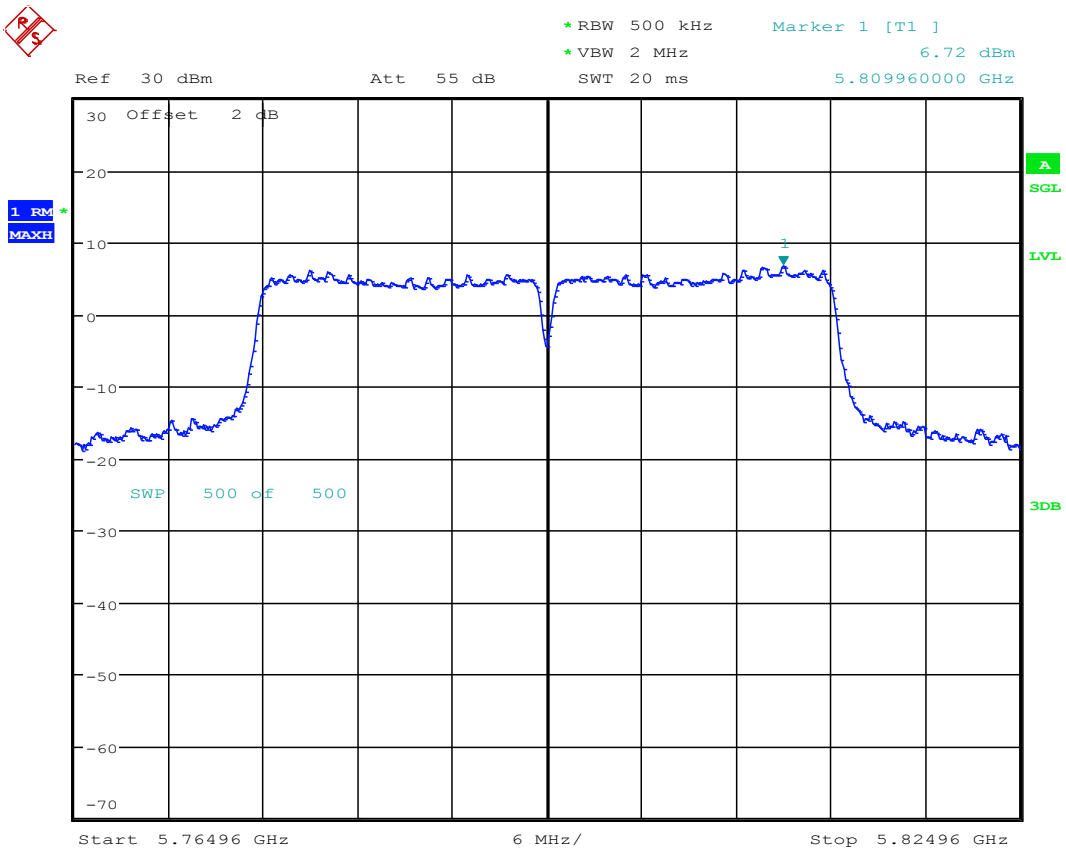
Date: 6.MAR.2018 18:39:50

11.45 11N40MIMO_159 ANT 1



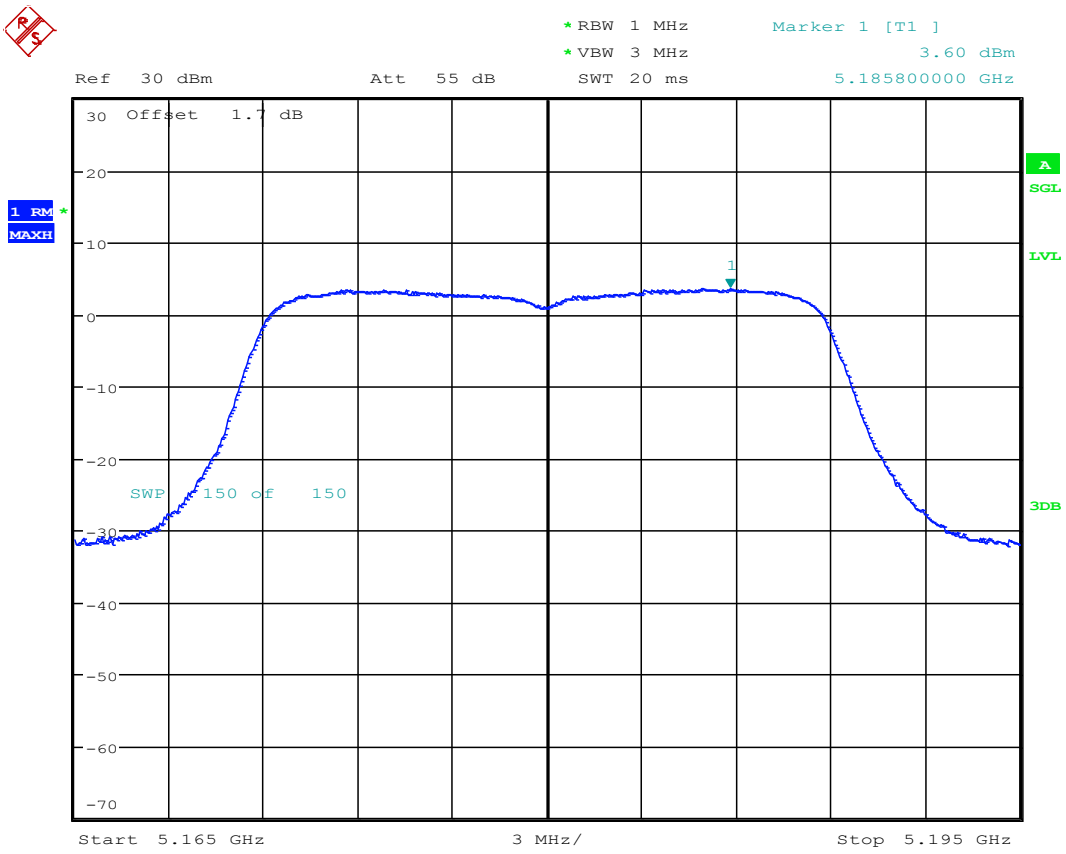
Date: 6.MAR.2018 17:15:30

11.46 11N40MIMO_159 ANT 2



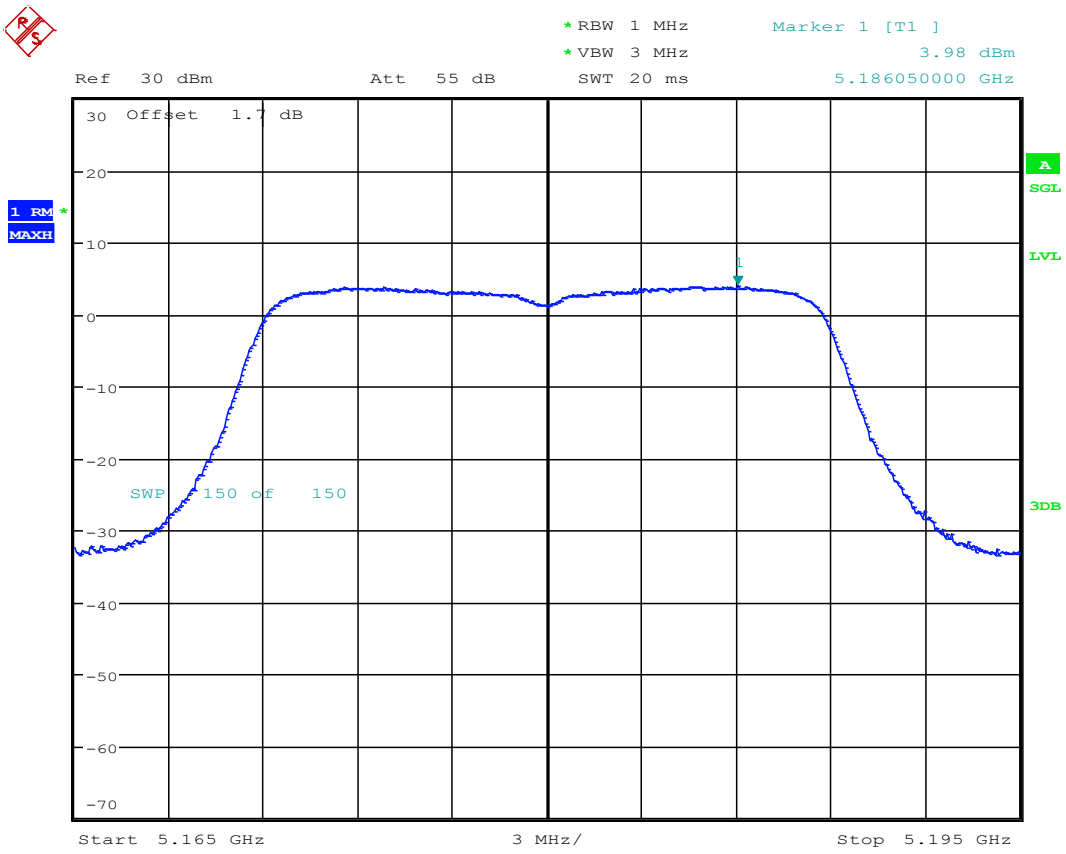
Date: 6.MAR.2018 18:44:19

11.47 11AC20_36 ANT 1



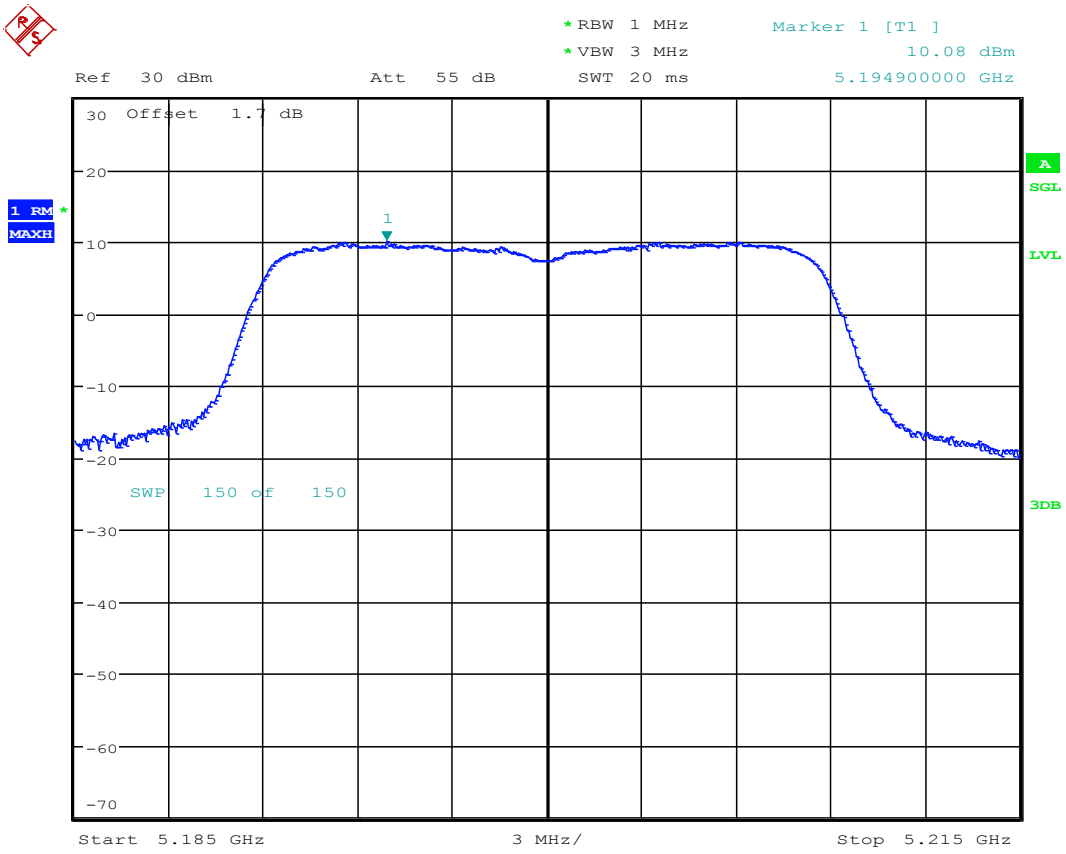
Date: 8.MAR.2018 14:12:46

11.48 11AC20_36 ANT 2

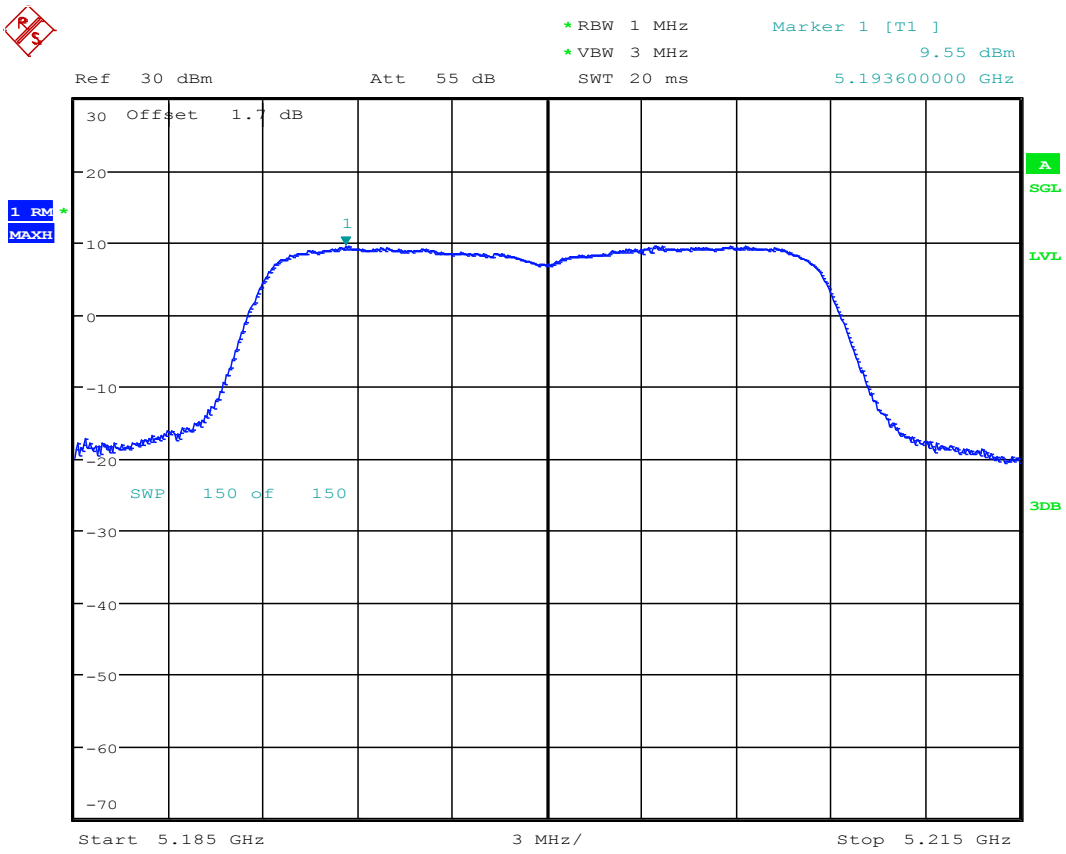


Date: 6.MAR.2018 13:41:08

11.49 11AC20_40 ANT 1

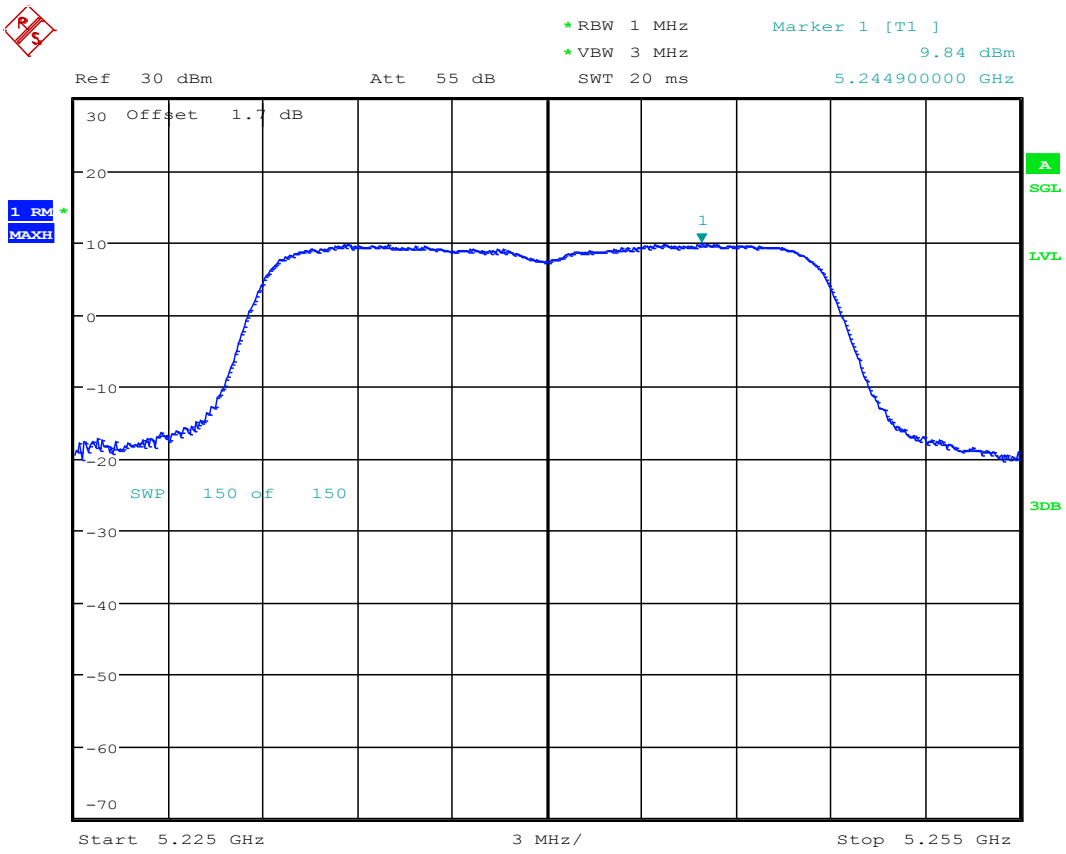


11.50 11AC20_40 ANT 2

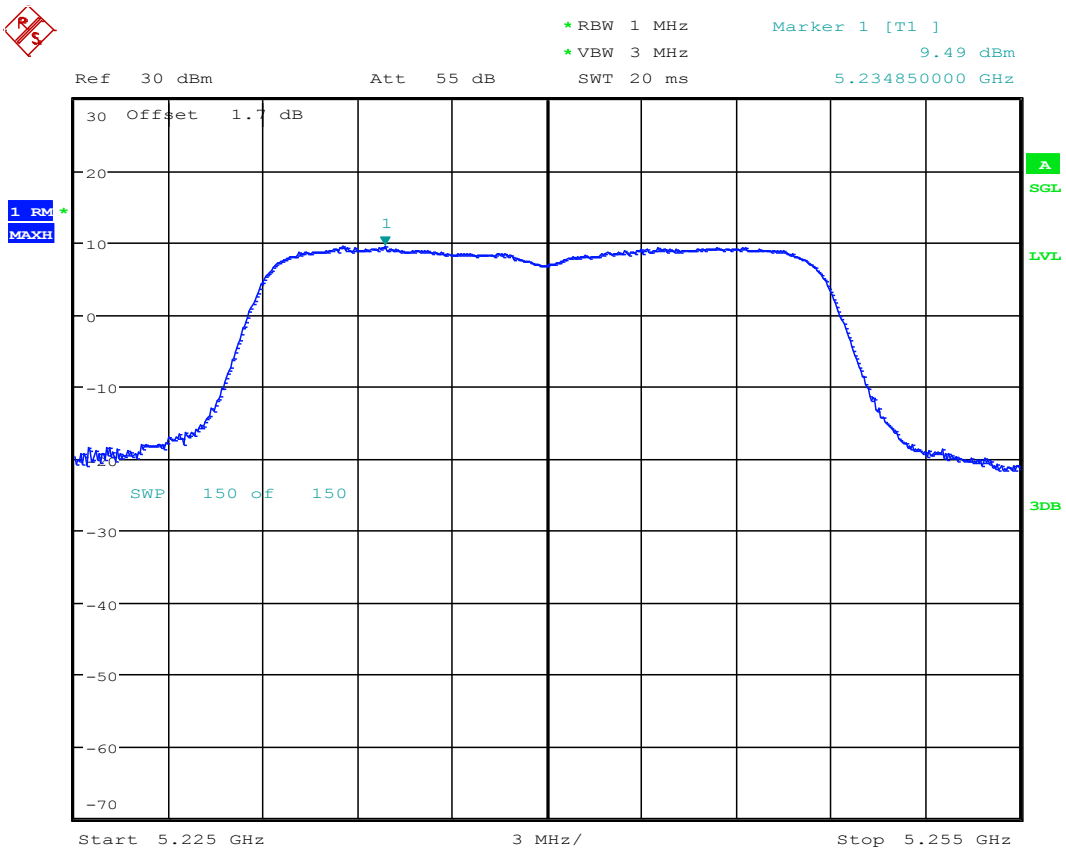


Date: 21.MAR.2018 12:01:49

11.51 11AC20_48 ANT 1

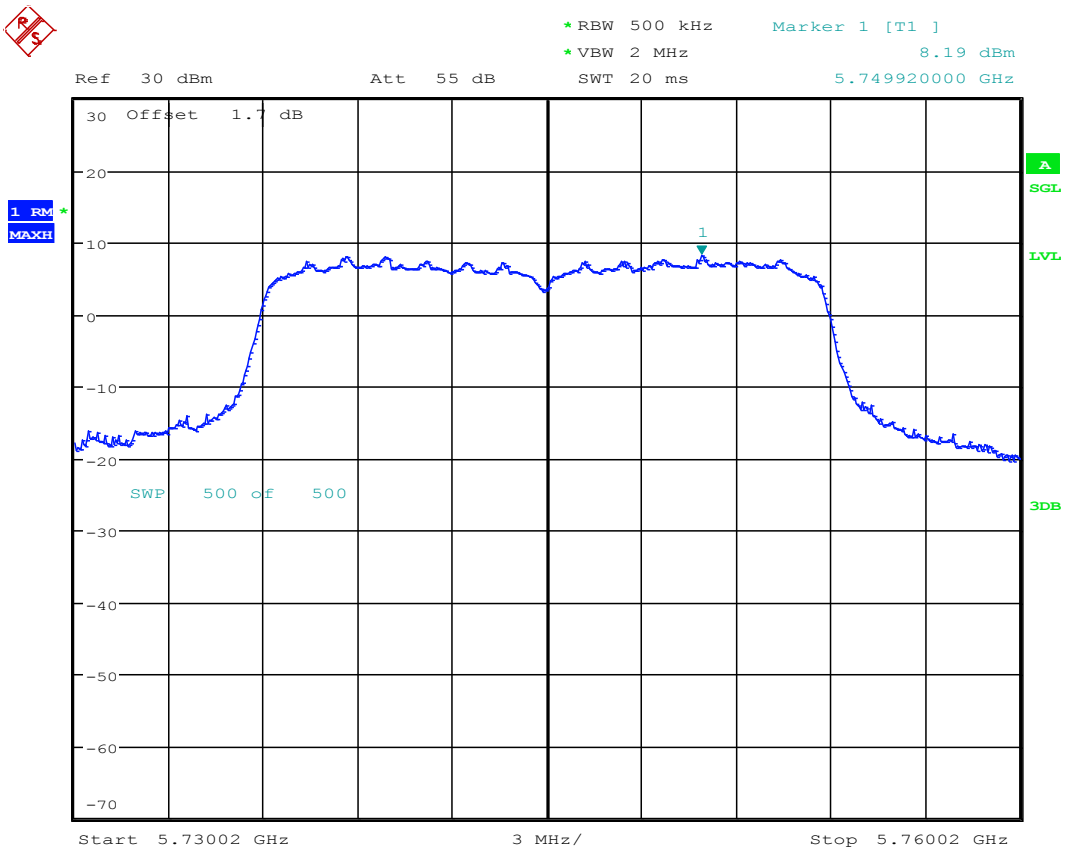


11.52 11AC20_48 ANT 2



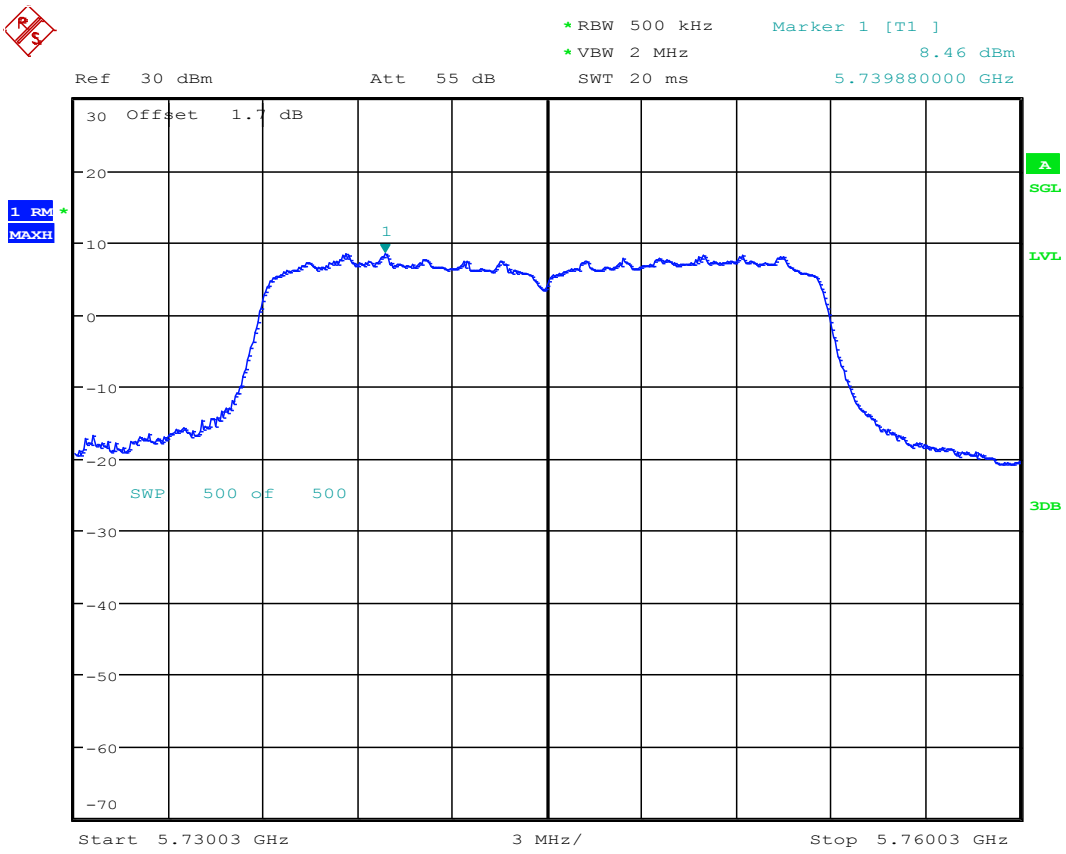
Date: 6.MAR.2018 13:43:52

11.53 11AC20_149 ANT 1



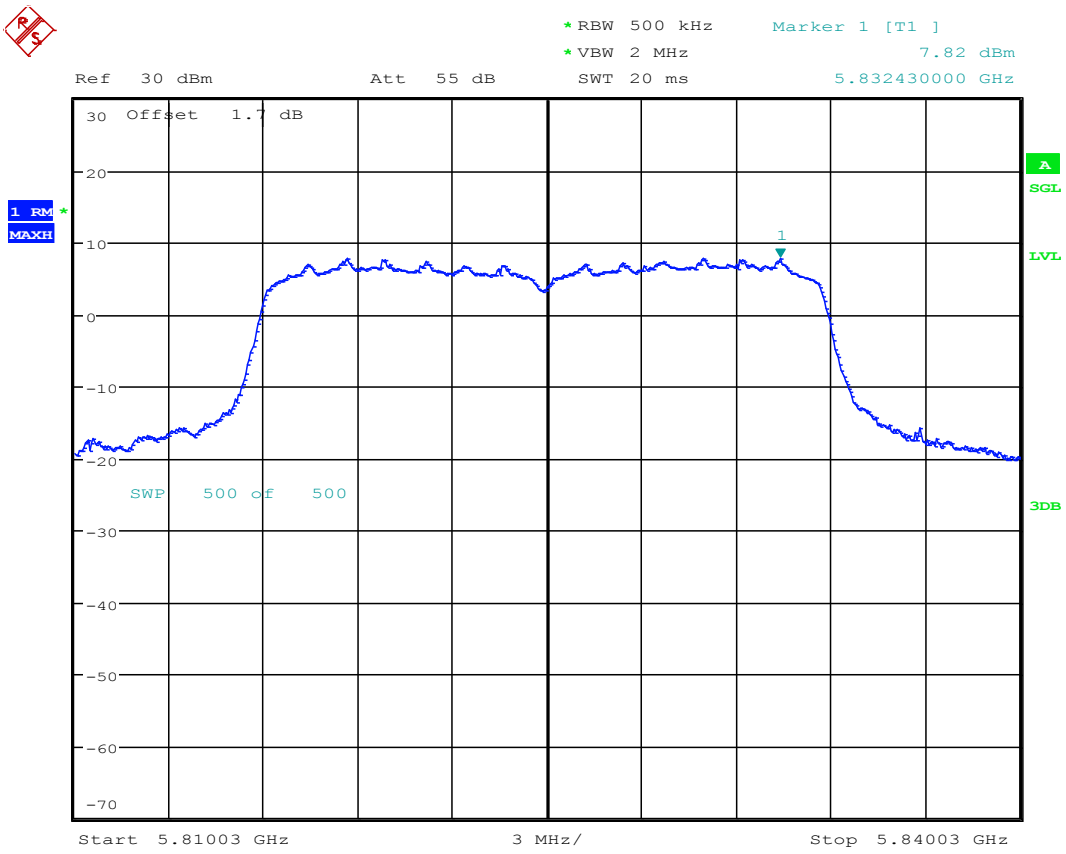
Date: 8.MAR.2018 14:20:40

11.54 11AC20_149 ANT 2

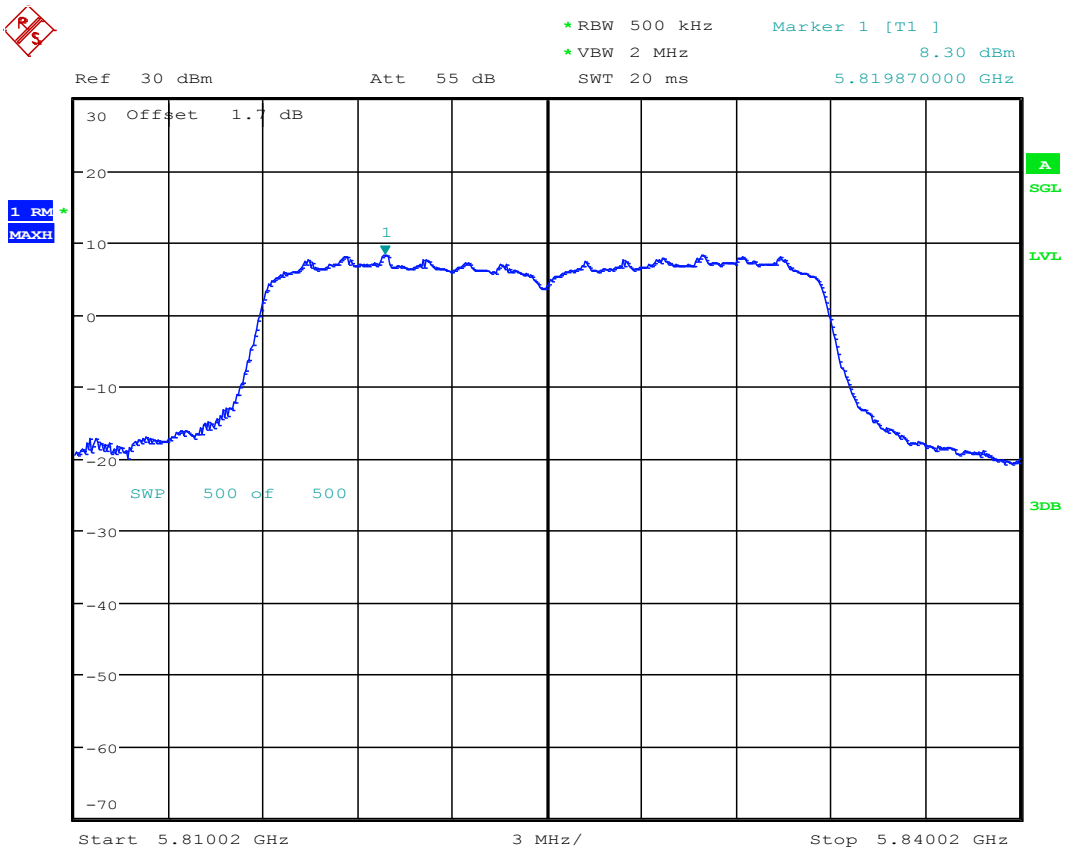


Date: 6.MAR.2018 13:47:09

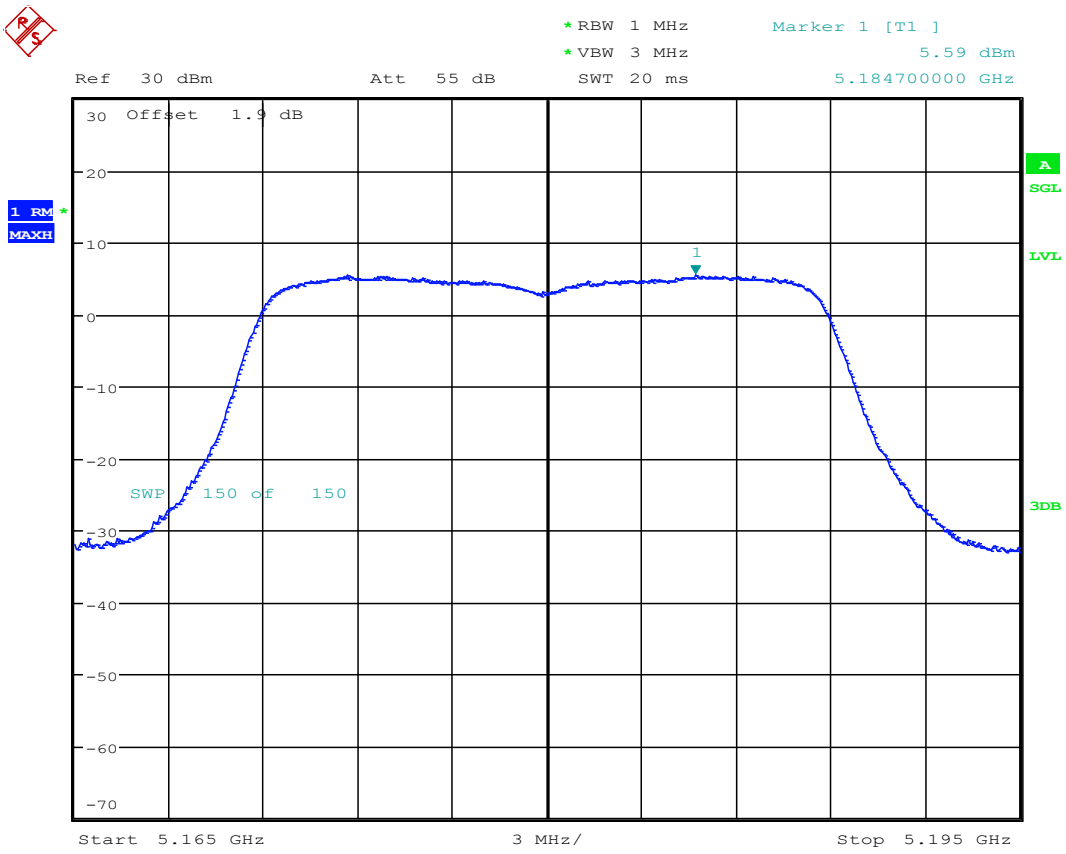
11.55 11AC20_165 ANT 1



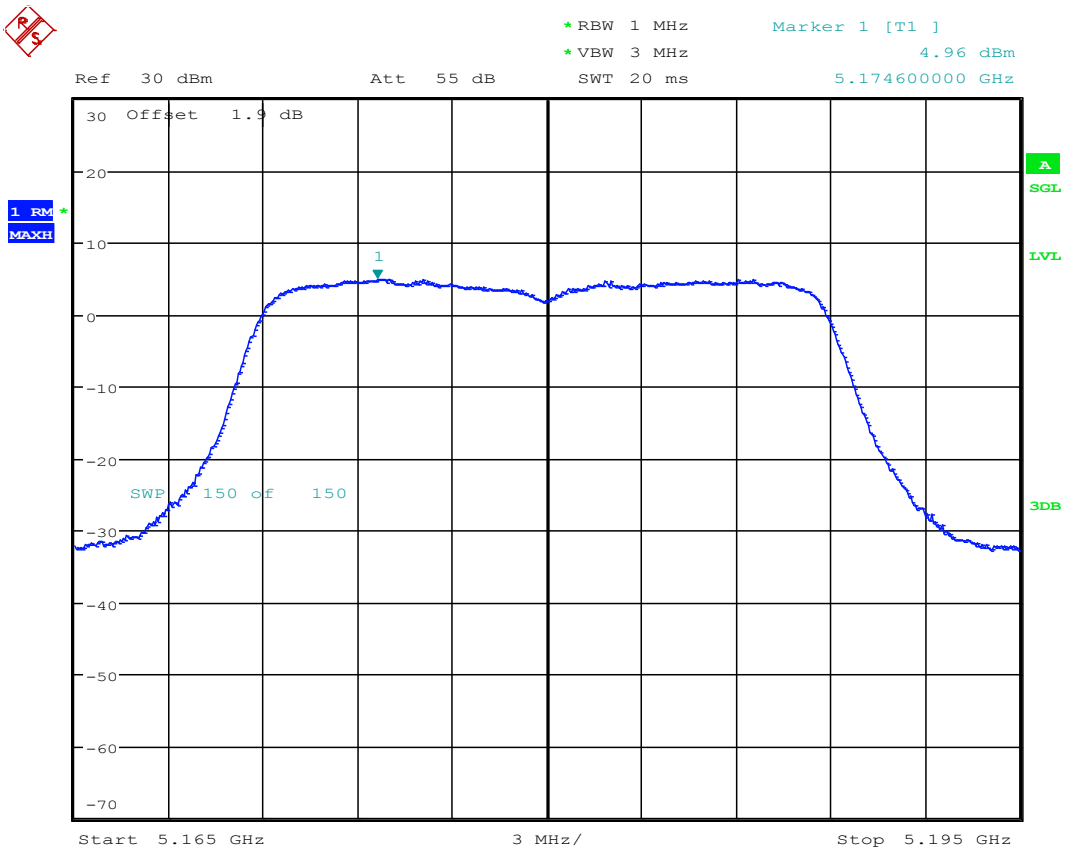
11.56 11AC20_165 ANT 2



11.57 11AC20MIMO_36 ANT 1

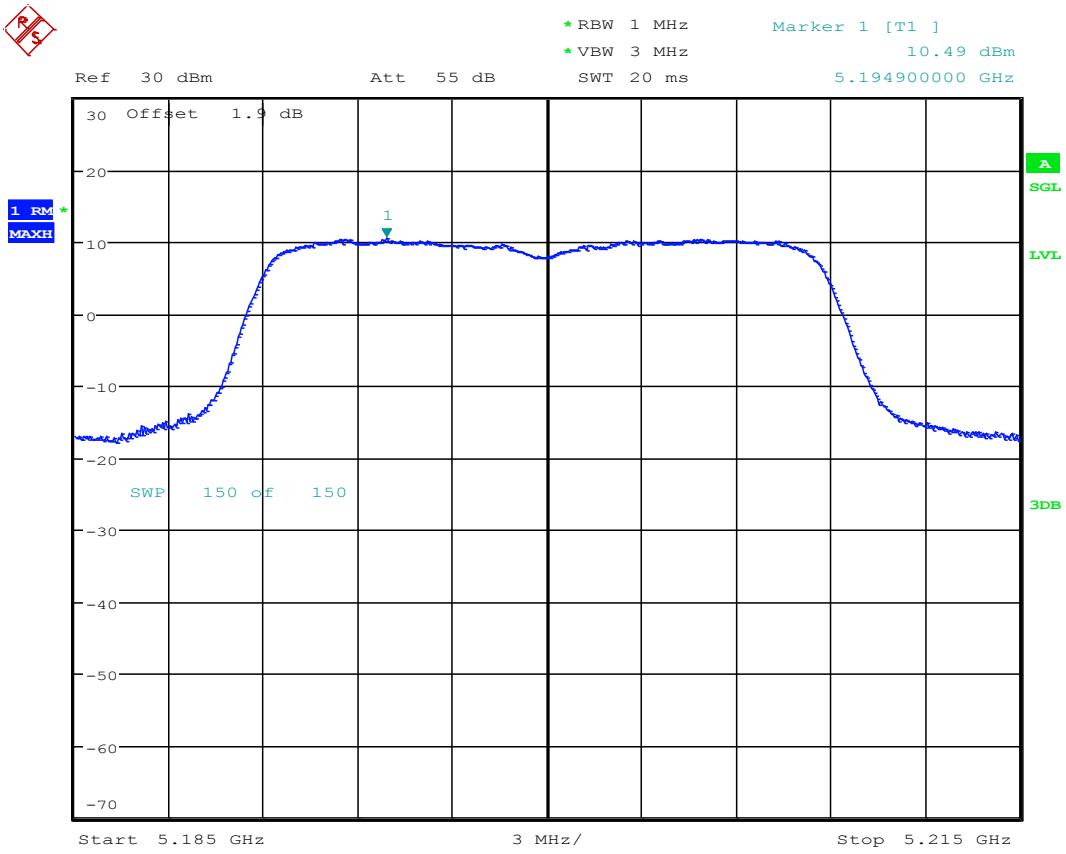


11.58 11AC20MIMO_36 ANT 2



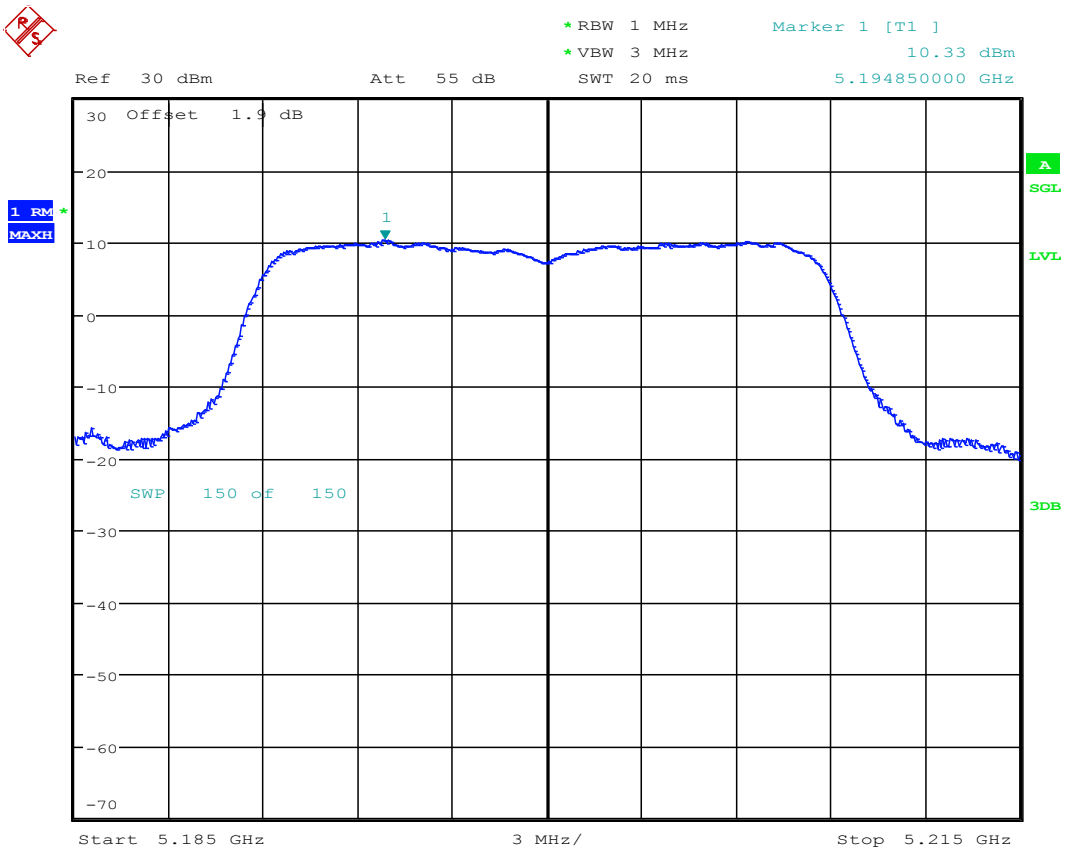
Date: 6.MAR.2018 18:09:41

11.59 11AC20MIMO_40 ANT 1



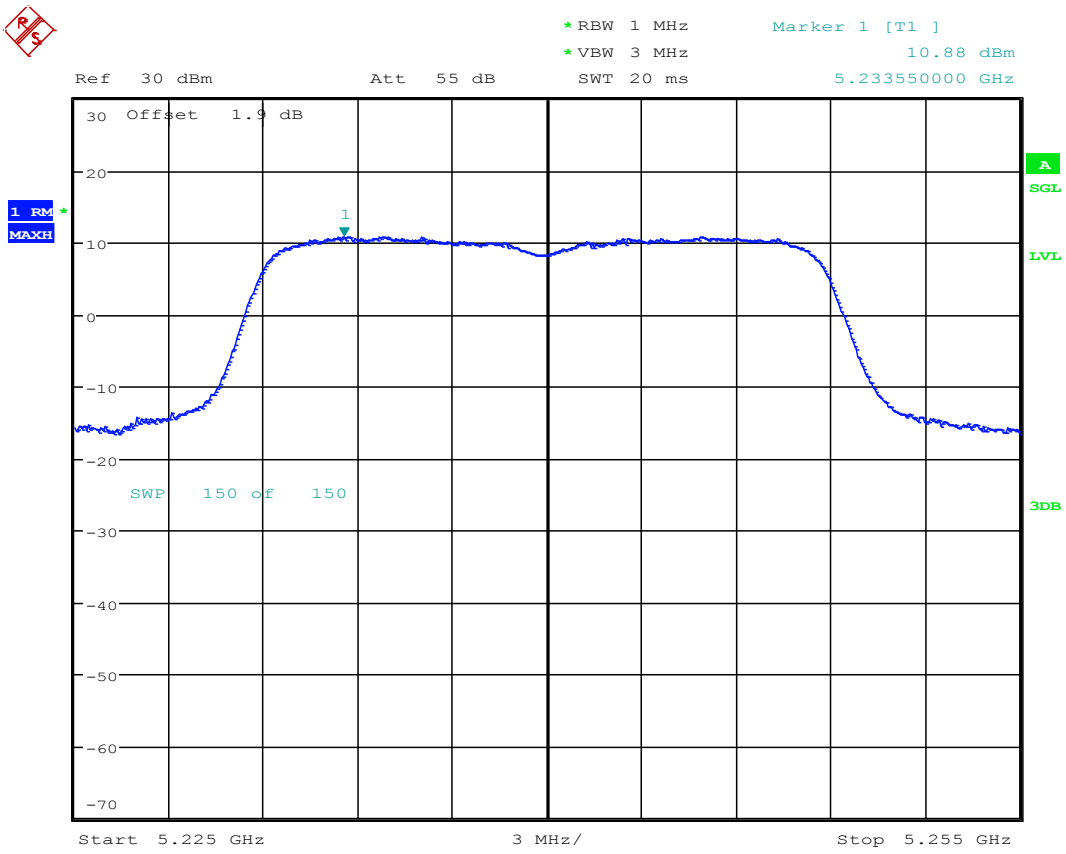
Date: 21.MAR.2018 11:57:51

11.60 11AC20MIMO_40 ANT 2



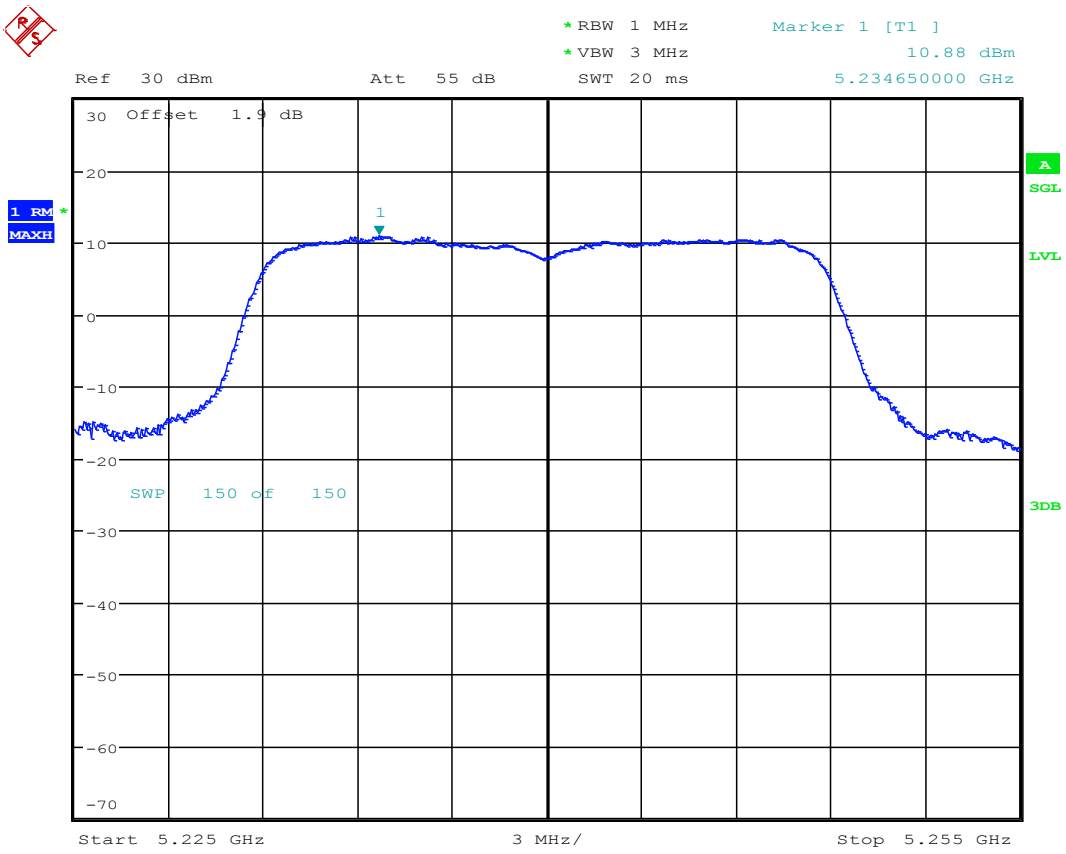
Date: 21.MAR.2018 11:58:58

11.61 11AC20MIMO_48 ANT 1



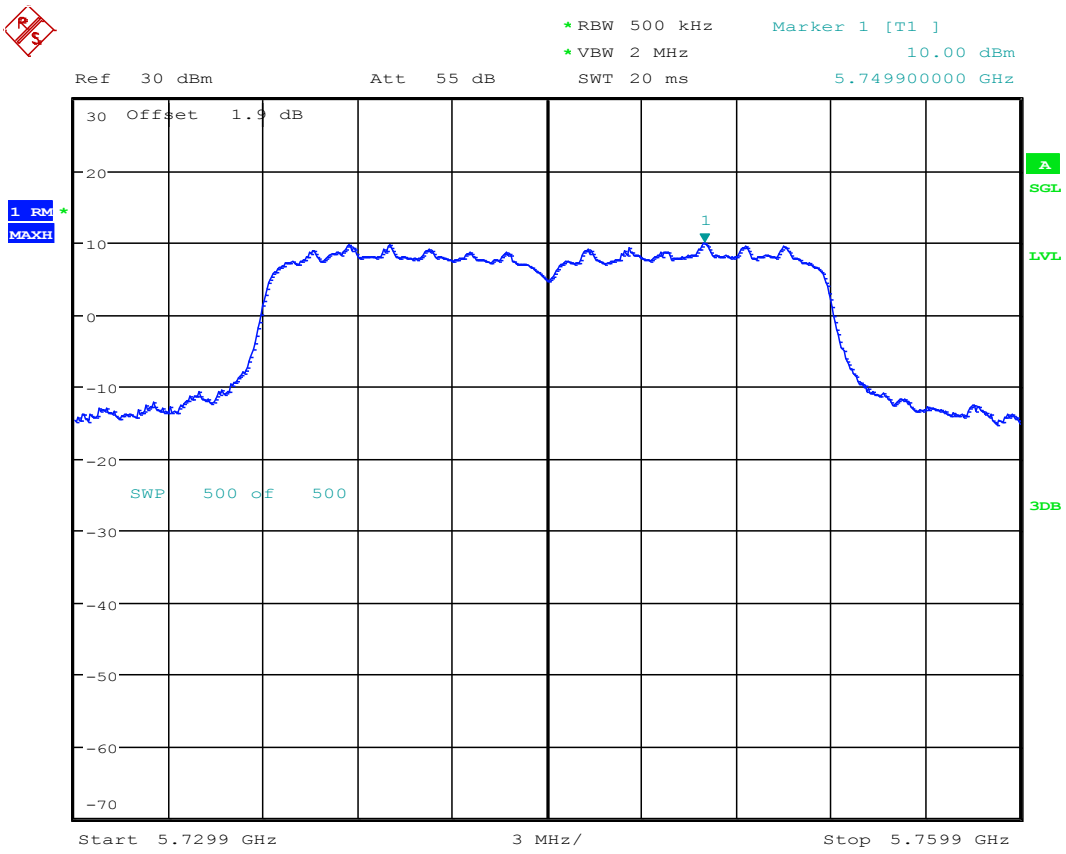
Date: 6.MAR.2018 16:49:53

11.62 11AC20MIMO_48 ANT 2



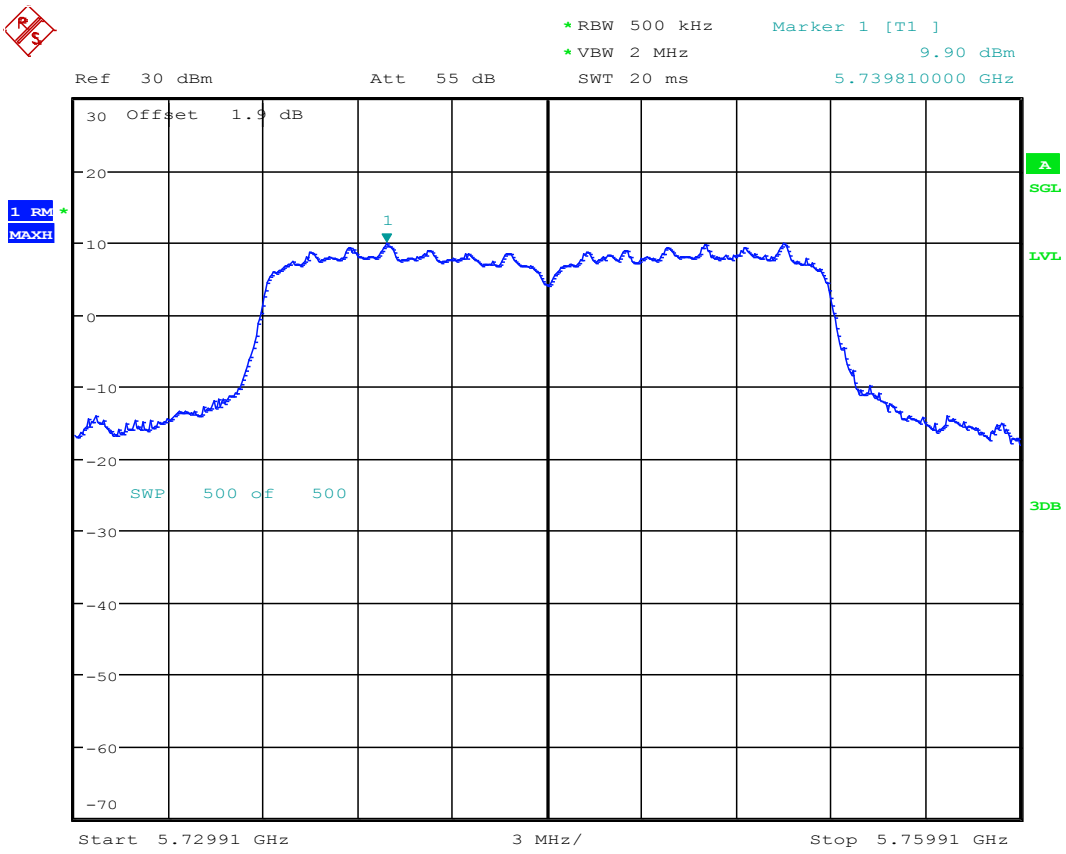
Date: 7.MAR.2018 10:28:54

11.63 11AC20MIMO_149 ANT 1

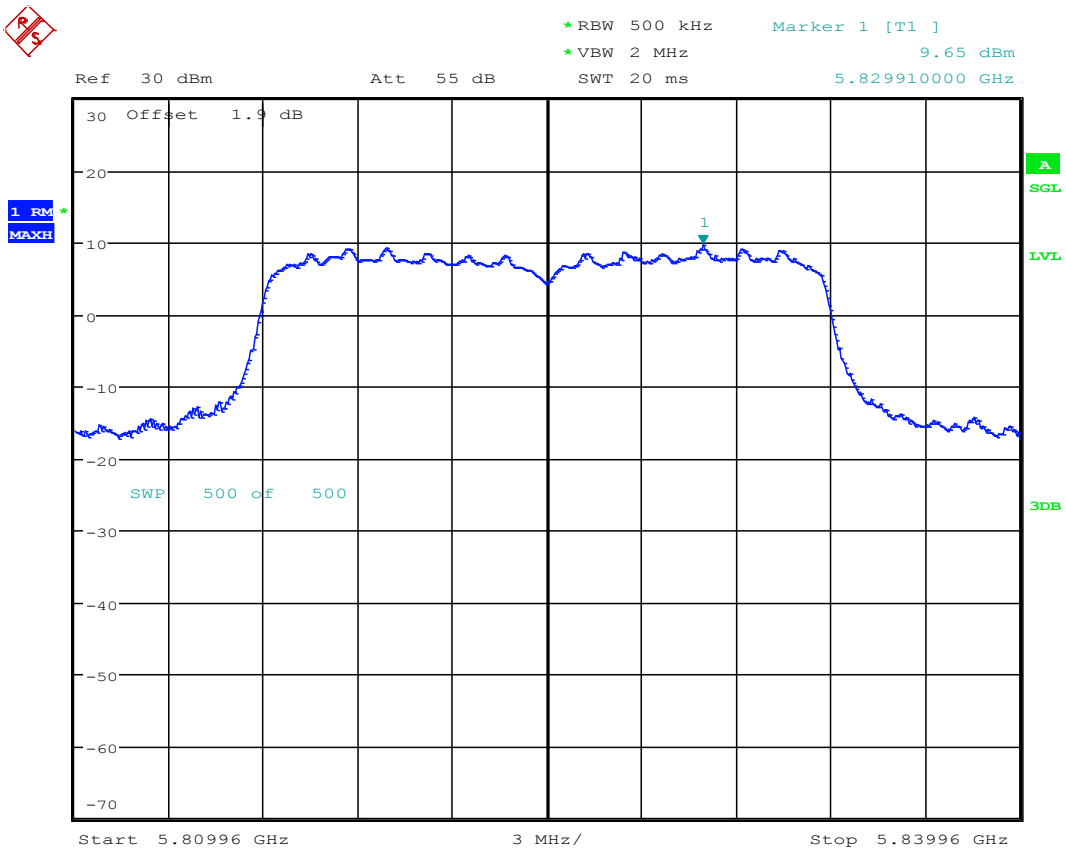


Date: 6.MAR.2018 16:54:19

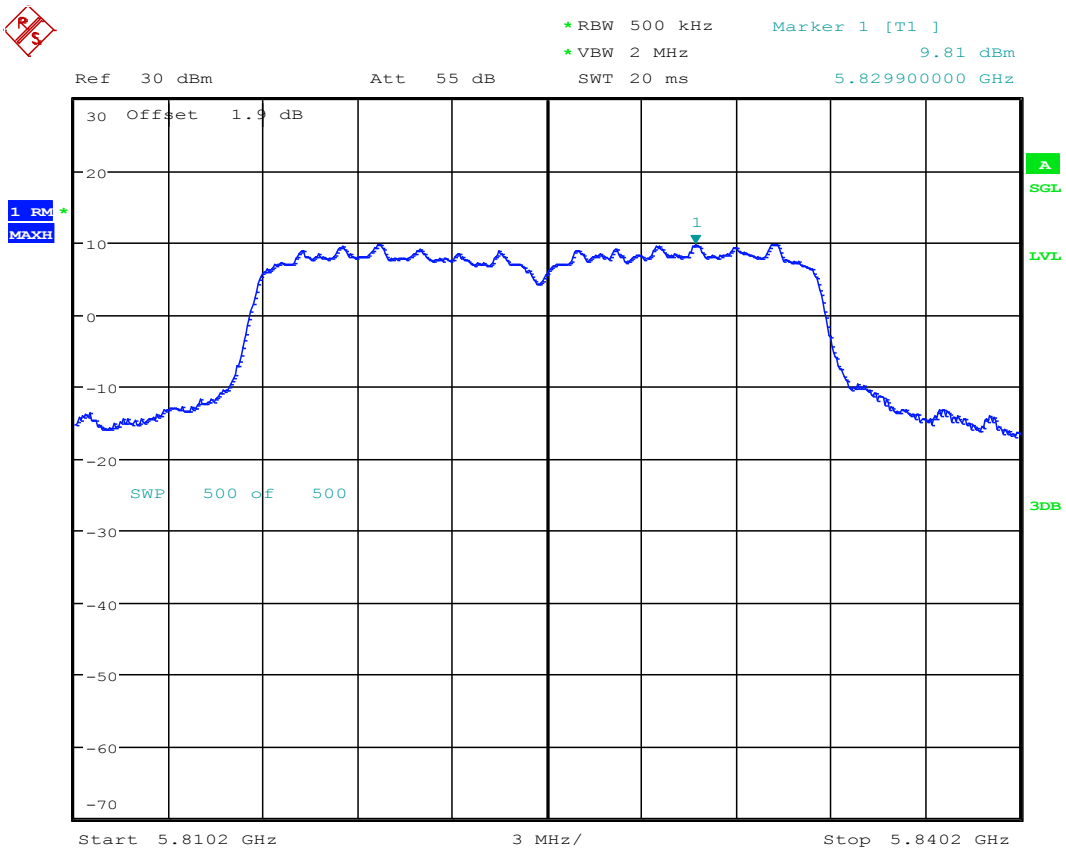
11.64 11AC20MIMO_149 ANT 2



11.65 11AC20MIMO_165 ANT 1

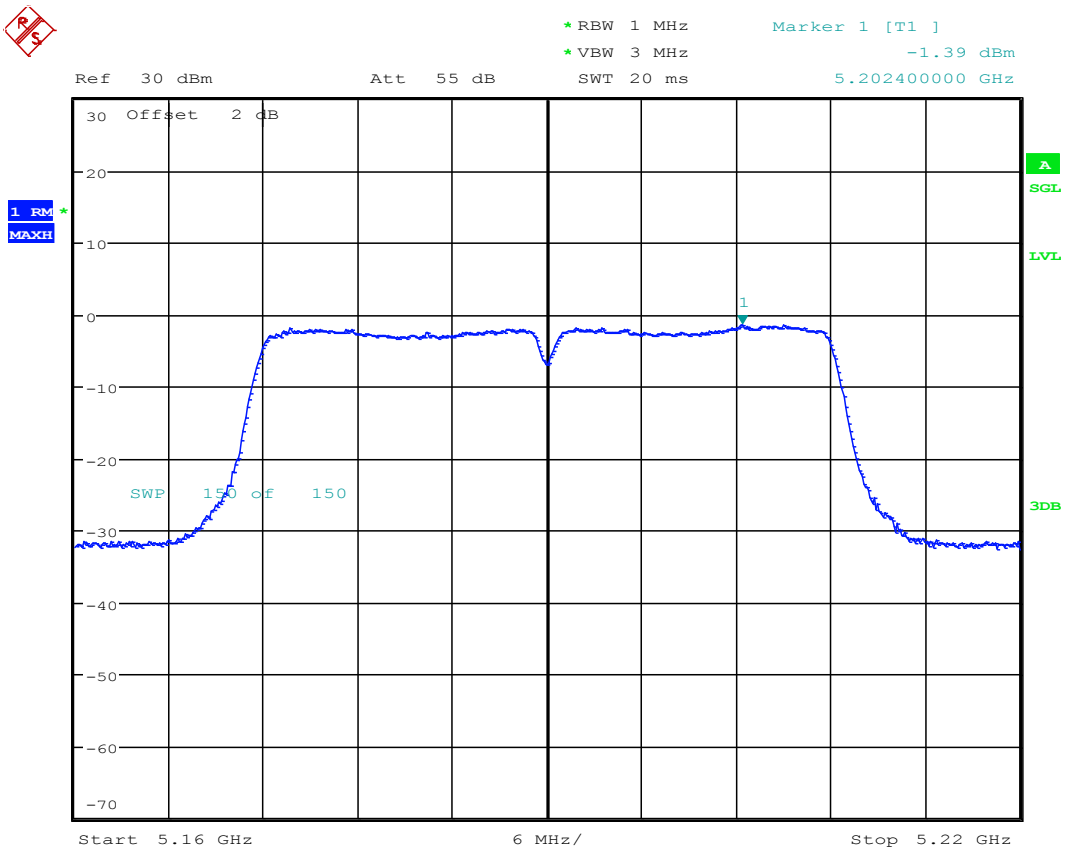


11.66 11AC20MIMO_165 ANT 2

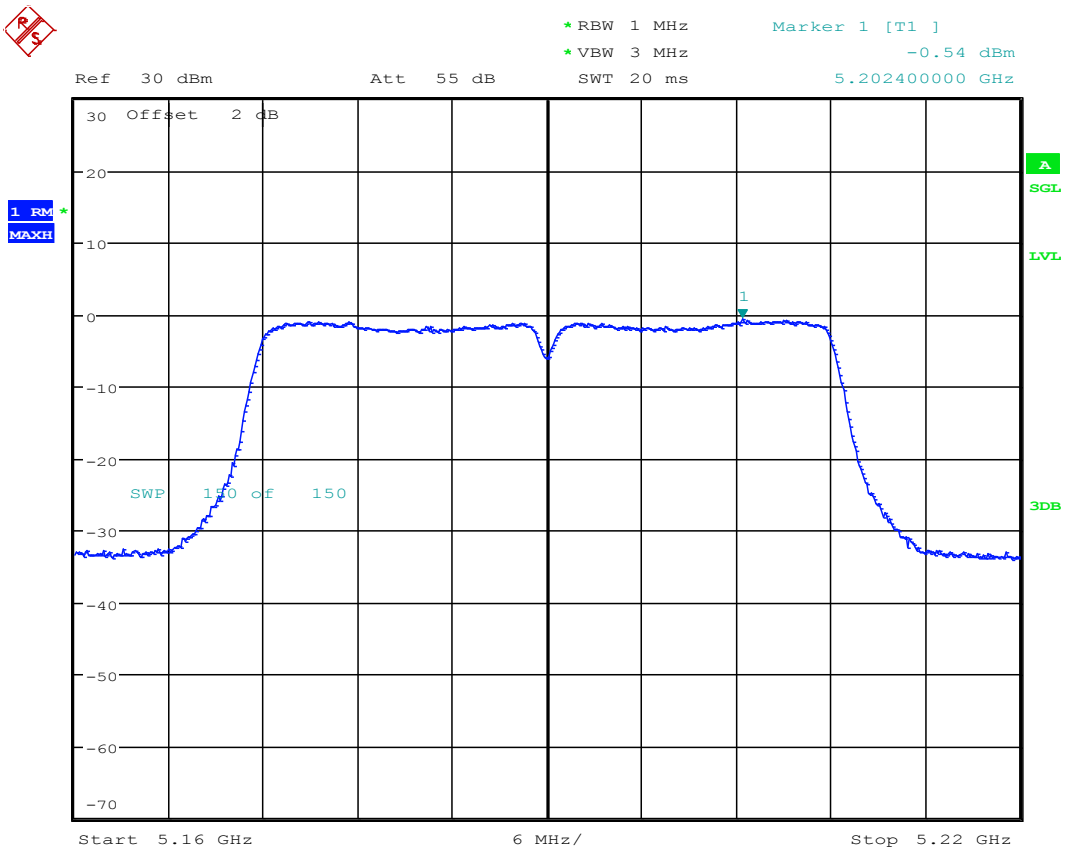


Date: 6.MAR.2018 18:29:19

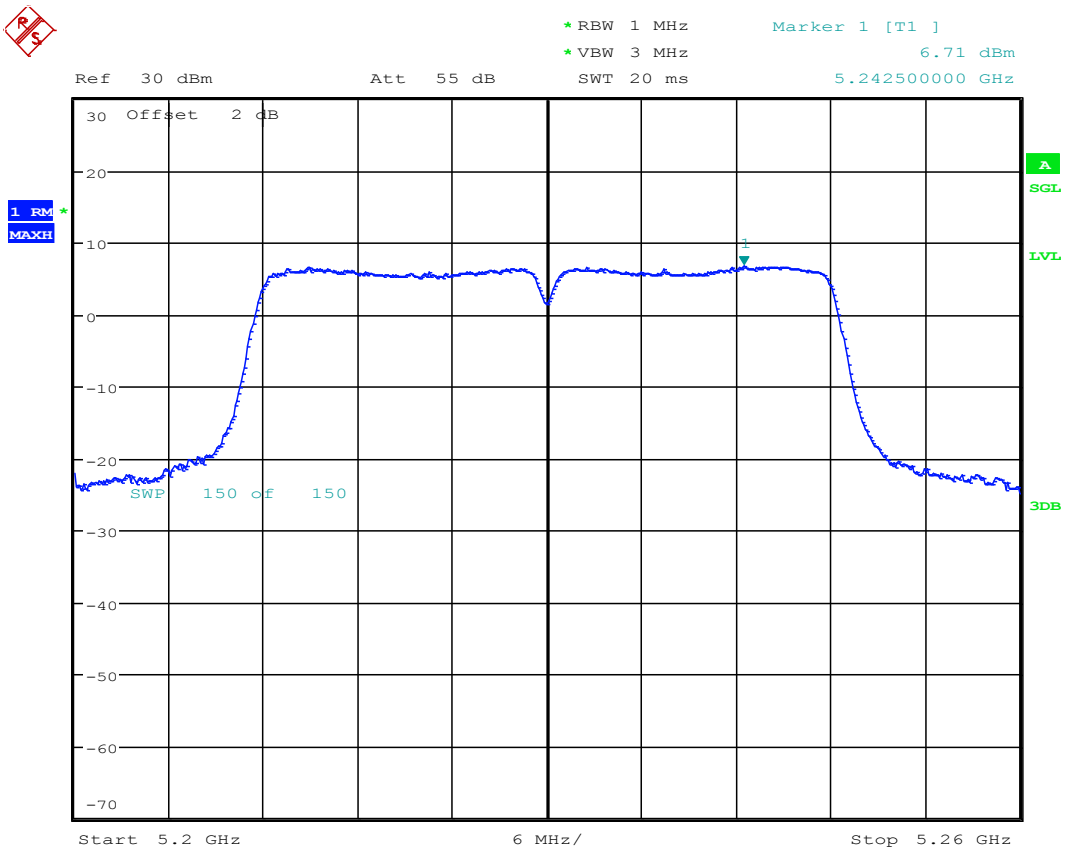
11.67 11AC40_38 ANT 1



11.68 11AC40_38 ANT 2

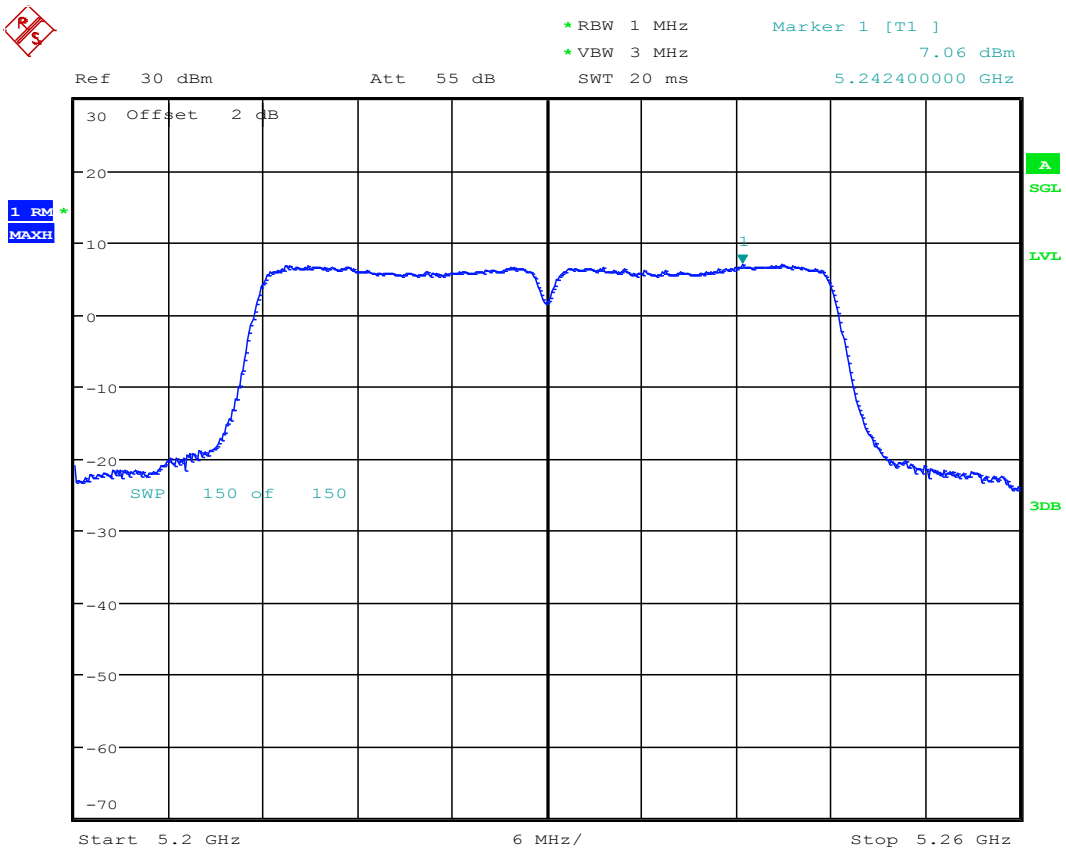


11.69 11AC40_46 ANT 1

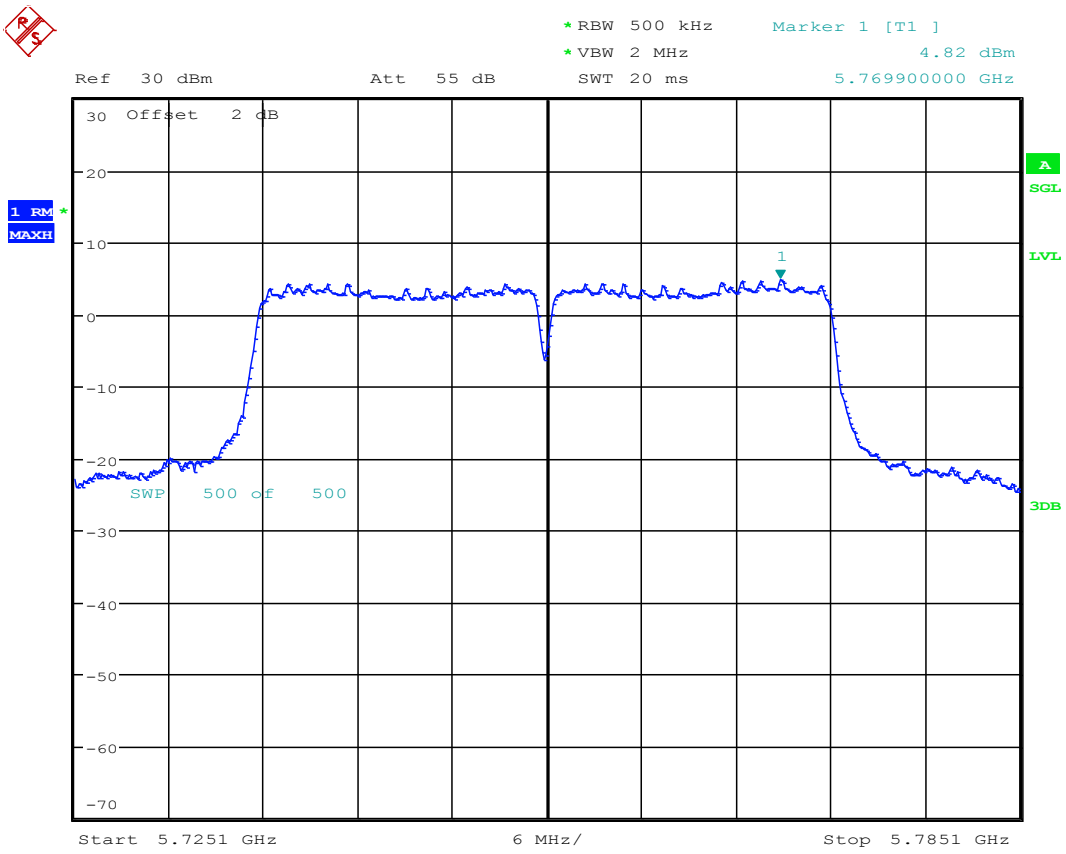


Date: 8.MAR.2018 14:38:55

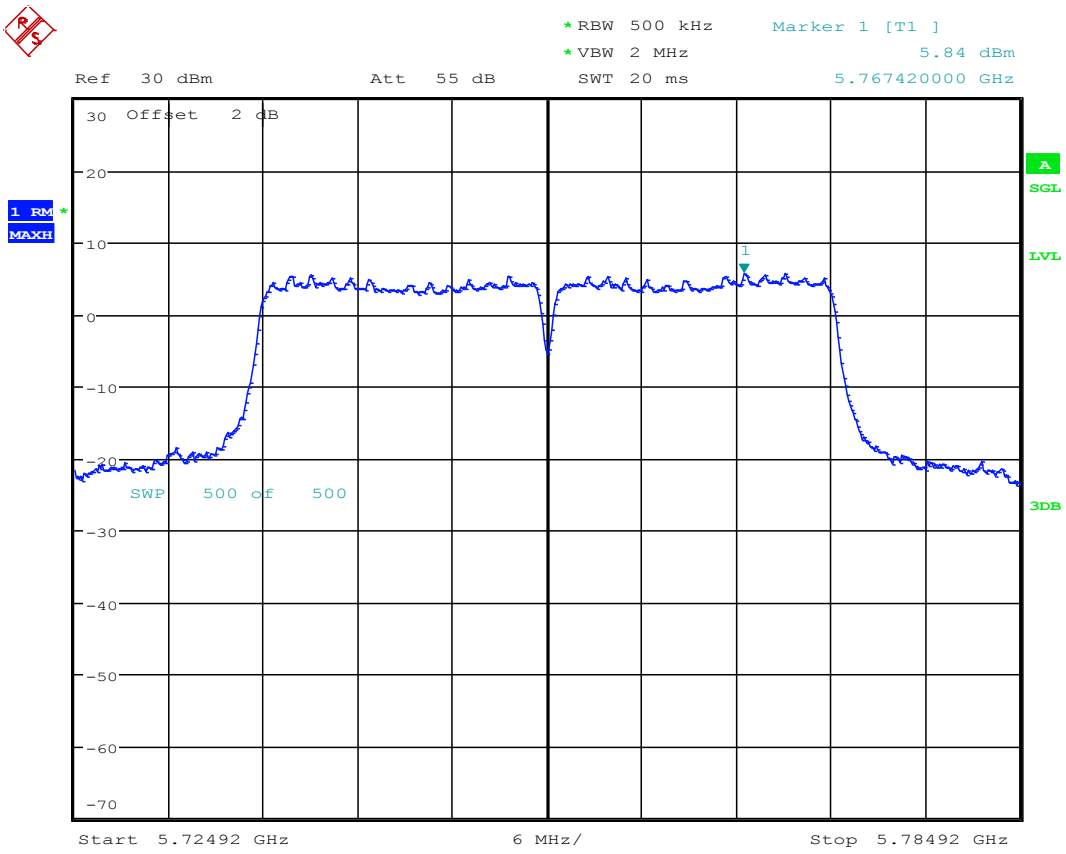
11.70 11AC40_46 ANT 2



11.71 11AC40_151 ANT 1

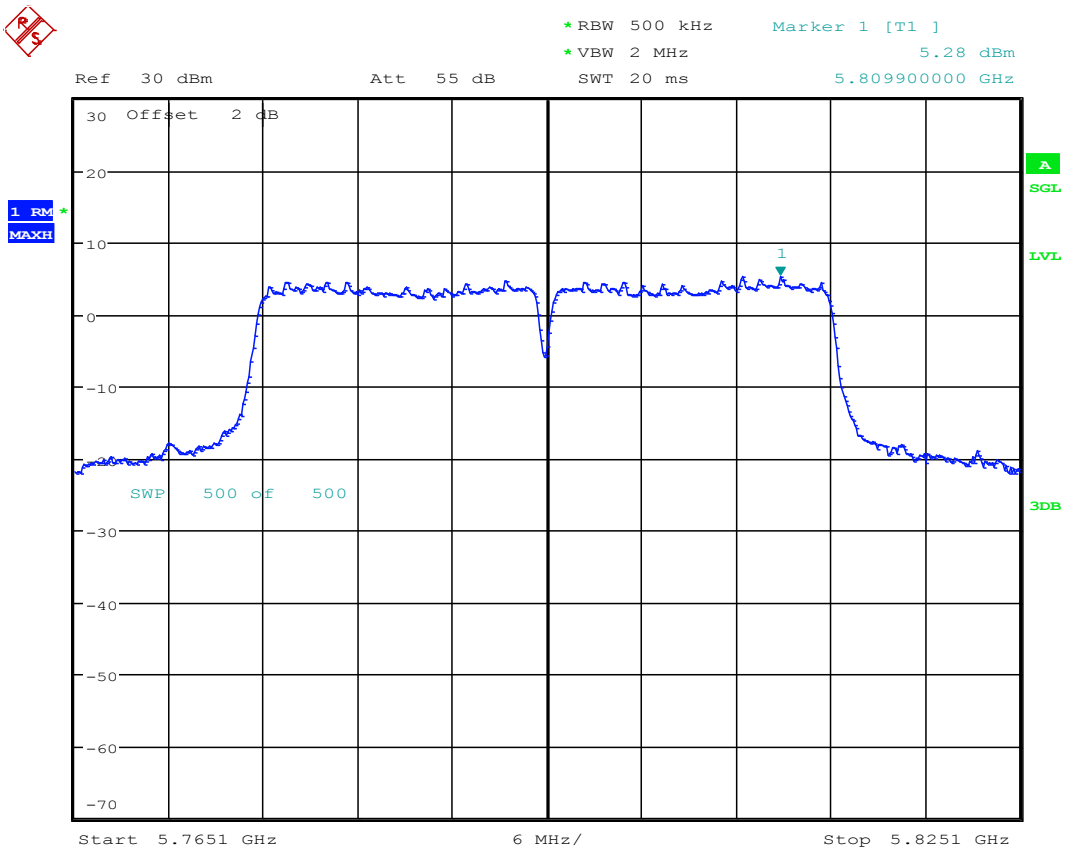


11.72 11AC40_151 ANT 2

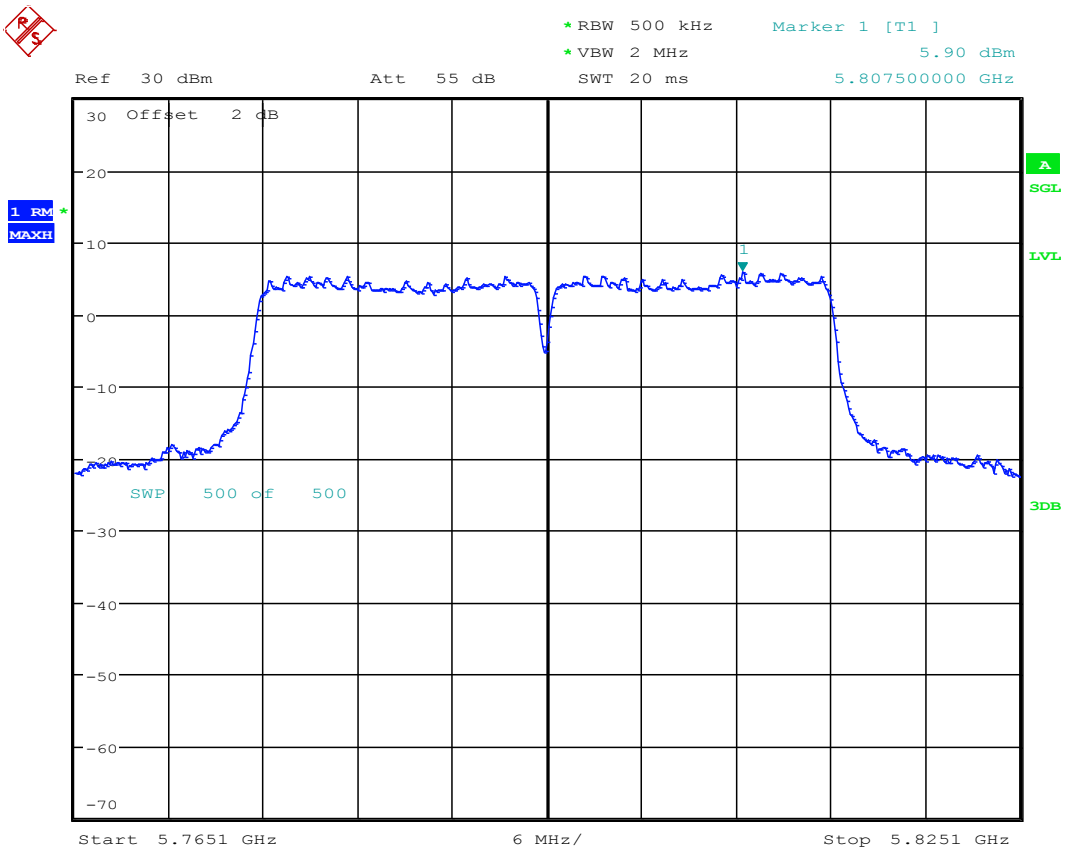


Date: 6.MAR.2018 14:23:56

11.73 11AC40_159 ANT 1

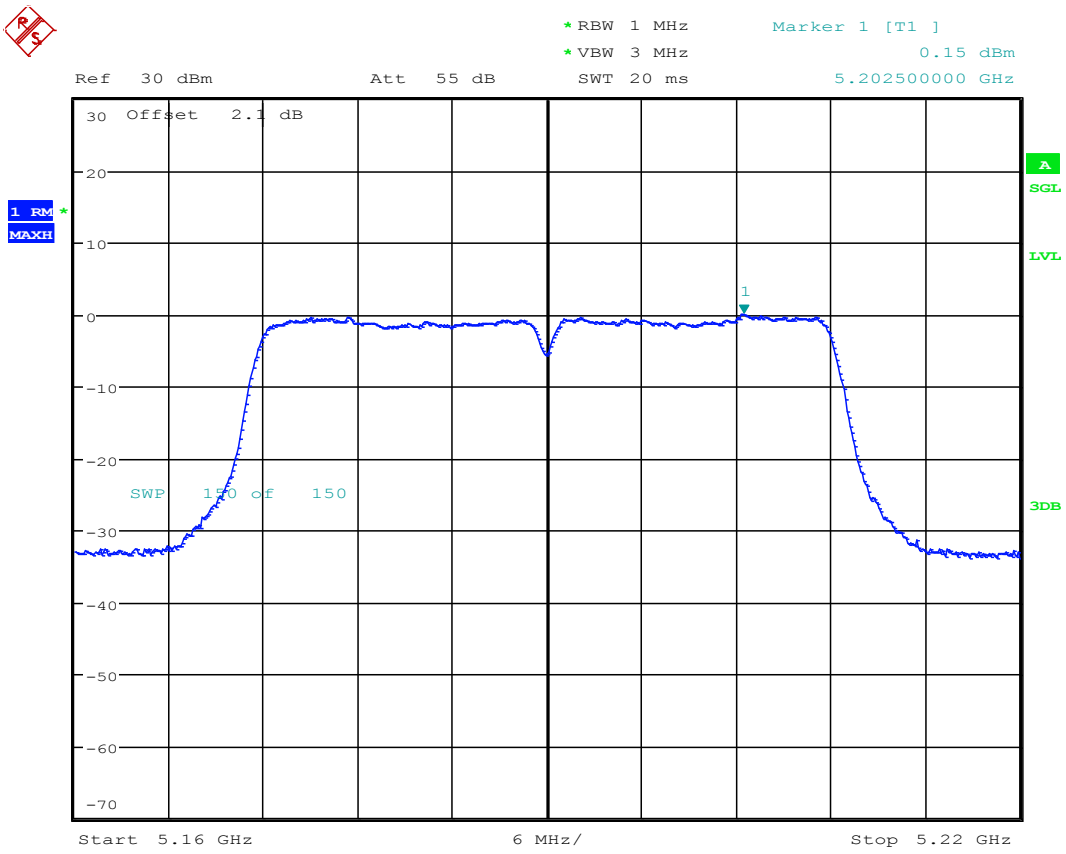


11.74 11AC40_159 ANT 2

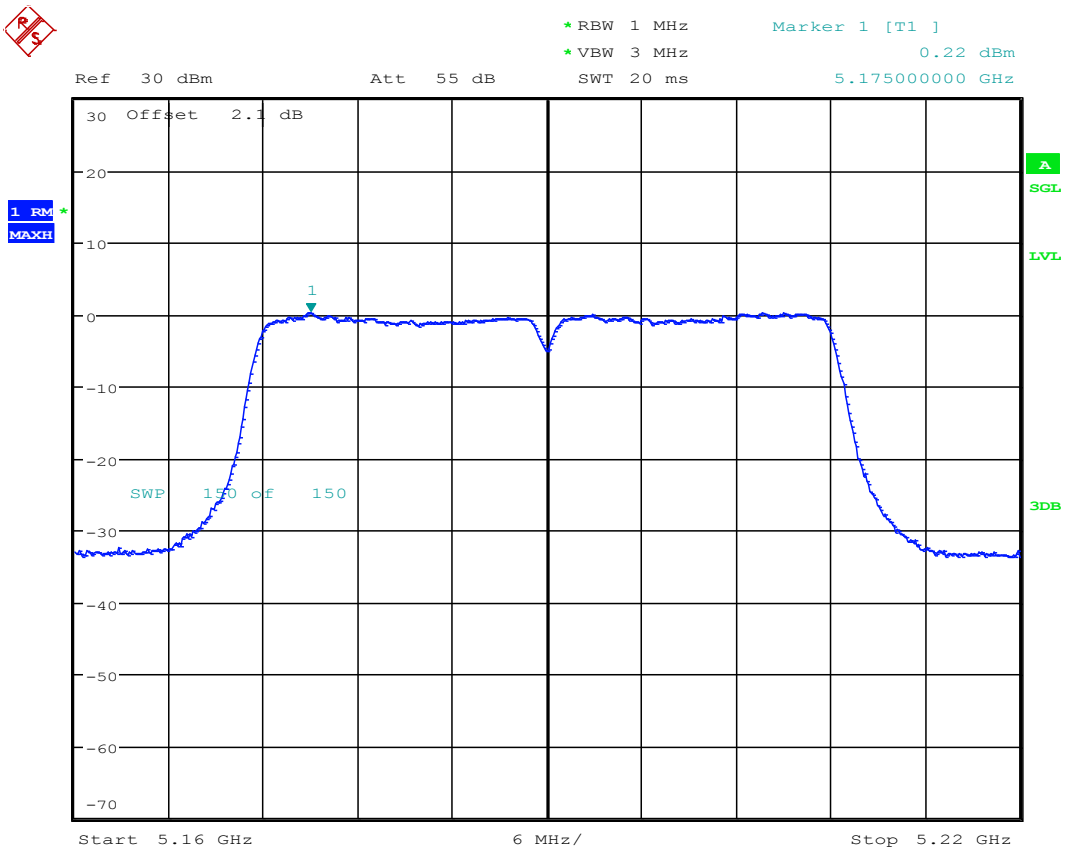


Date: 6.MAR.2018 14:27:11

11.75 11AC40MIMO_38 ANT 1

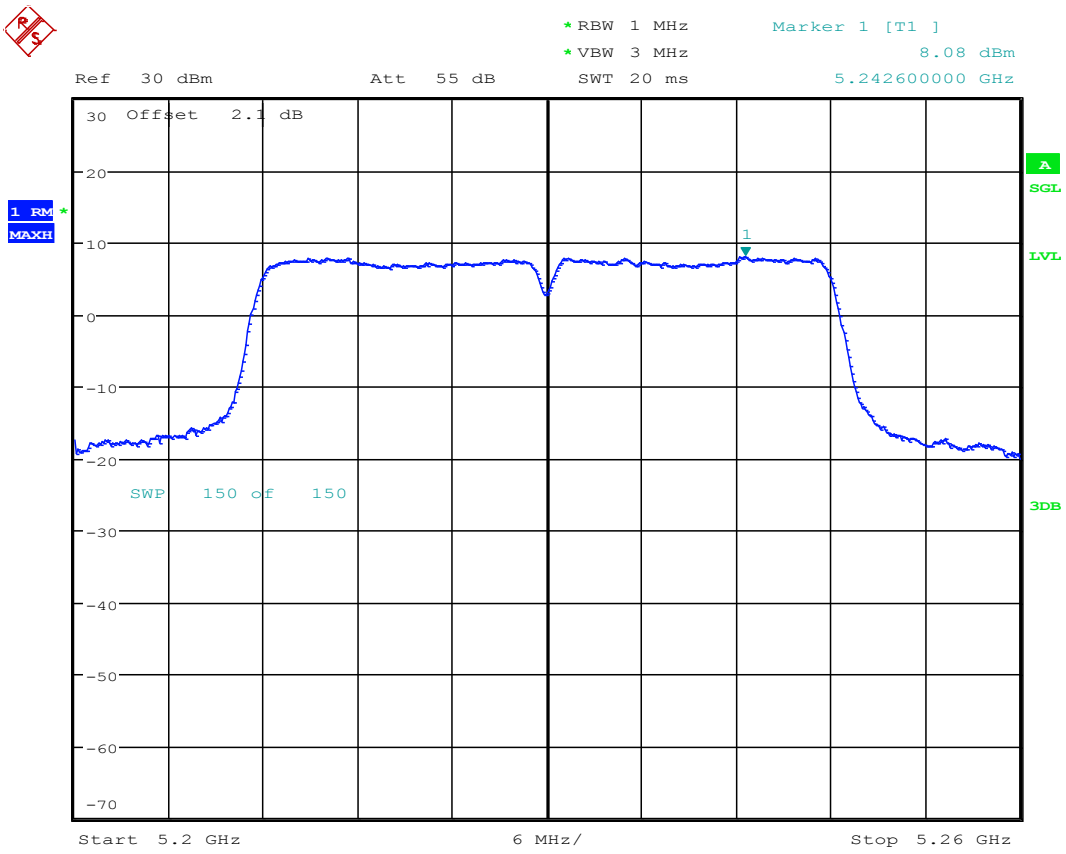


11.76 11AC40MIMO_38 ANT 2



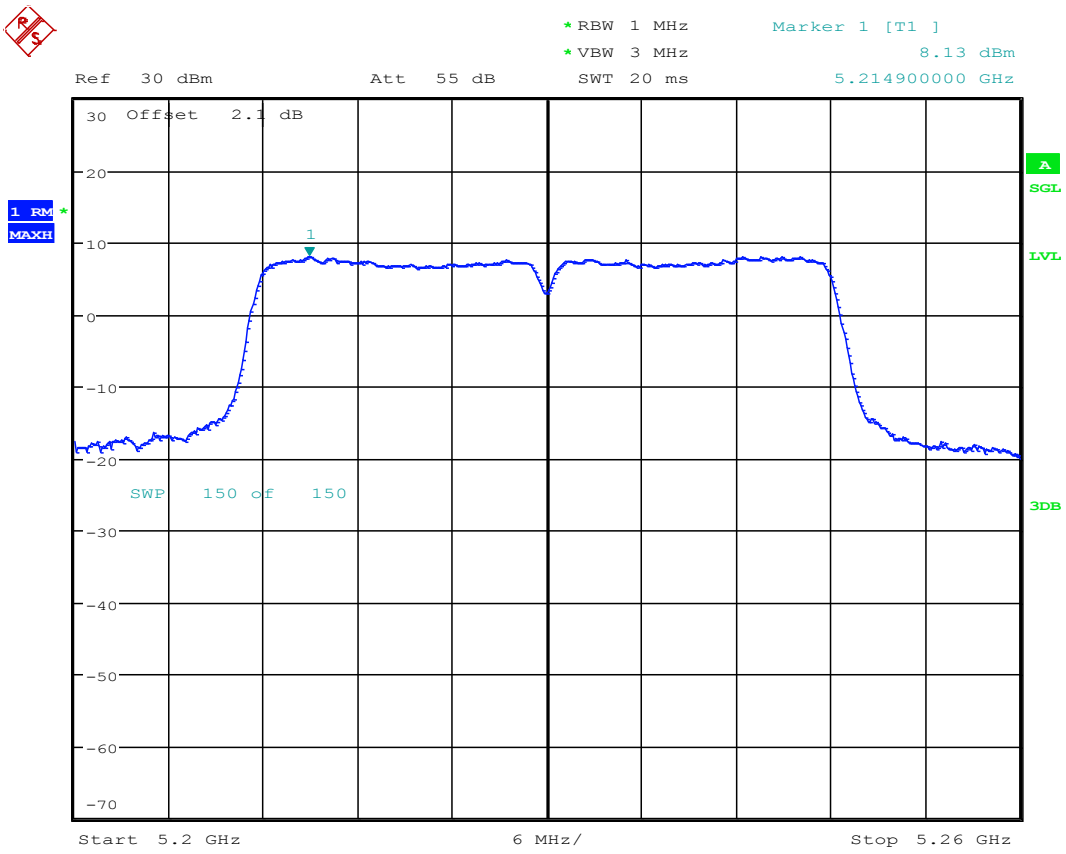
Date: 6.MAR.2018 18:47:53

11.77 11AC40MIMO_46 ANT 1

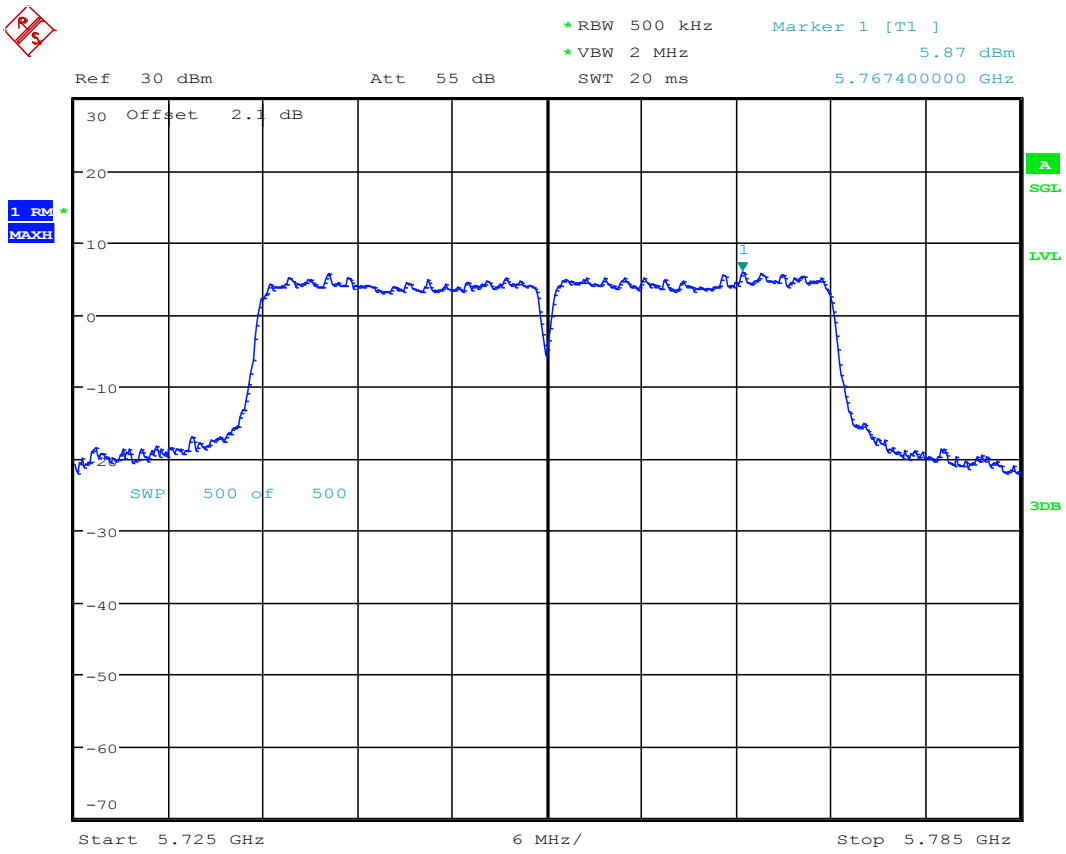


Date: 6.MAR.2018 17:21:04

11.78 11AC40MIMO_46 ANT 2

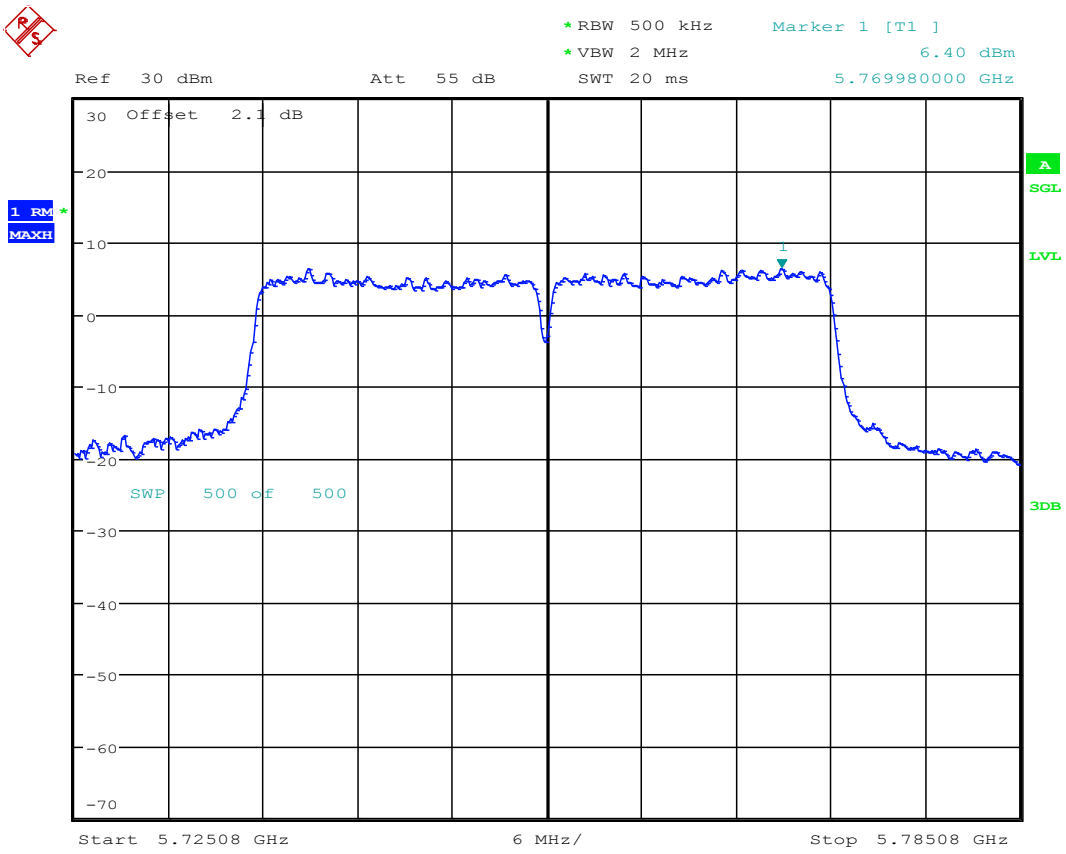


11.79 11AC40MIMO_151 ANT 1



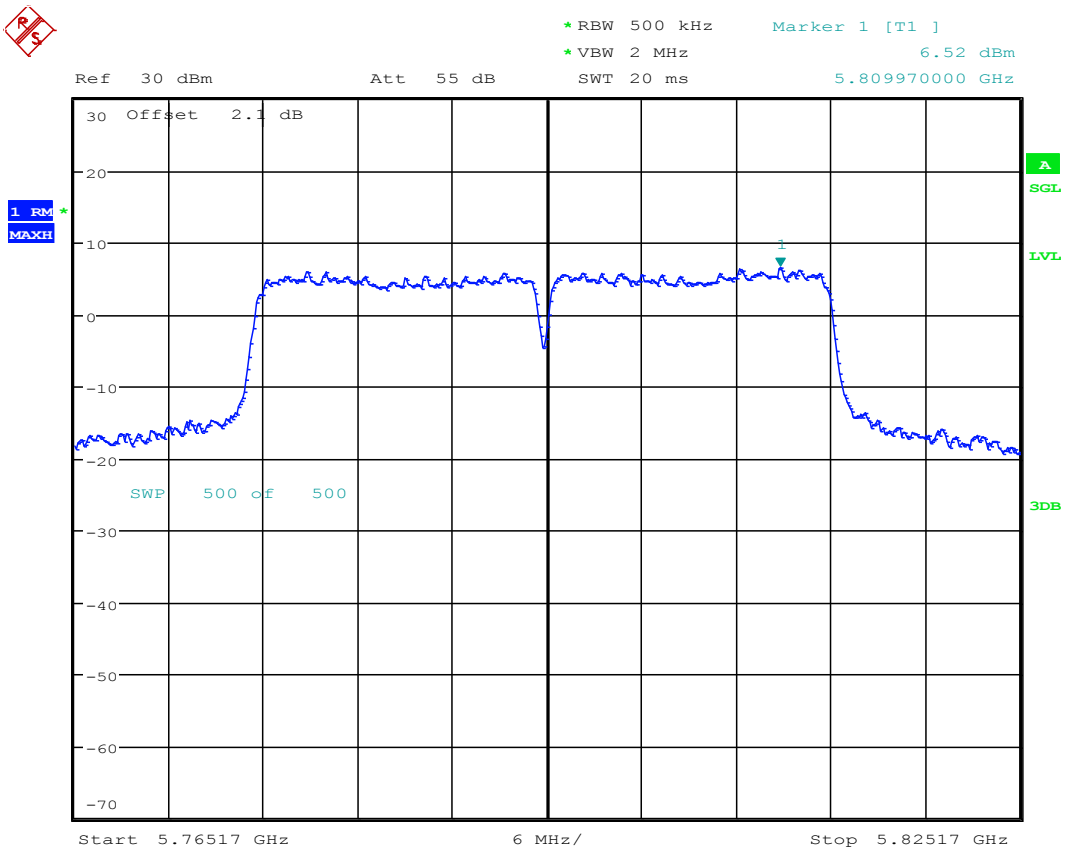
Date: 6.MAR.2018 17:30:50

11.80 11AC40MIMO_151 ANT 2



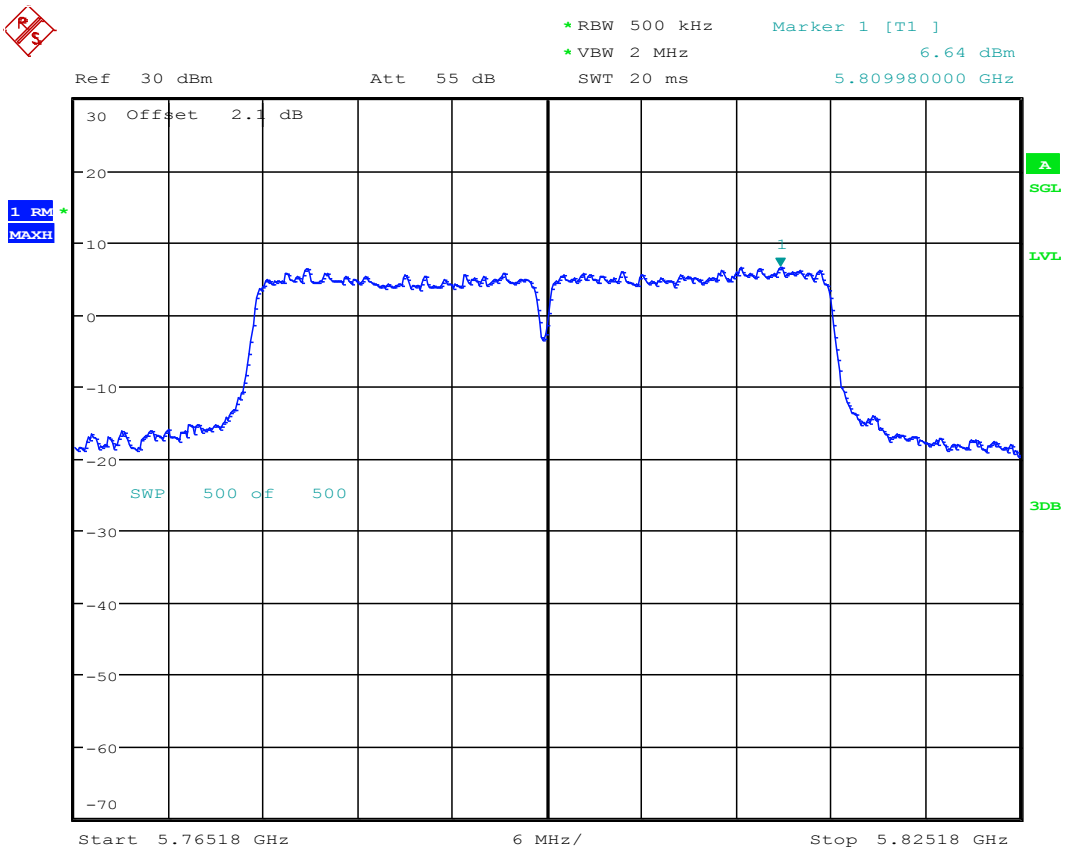
Date: 6.MAR.2018 18:54:00

11.81 11AC40MIMO_159 ANT 1



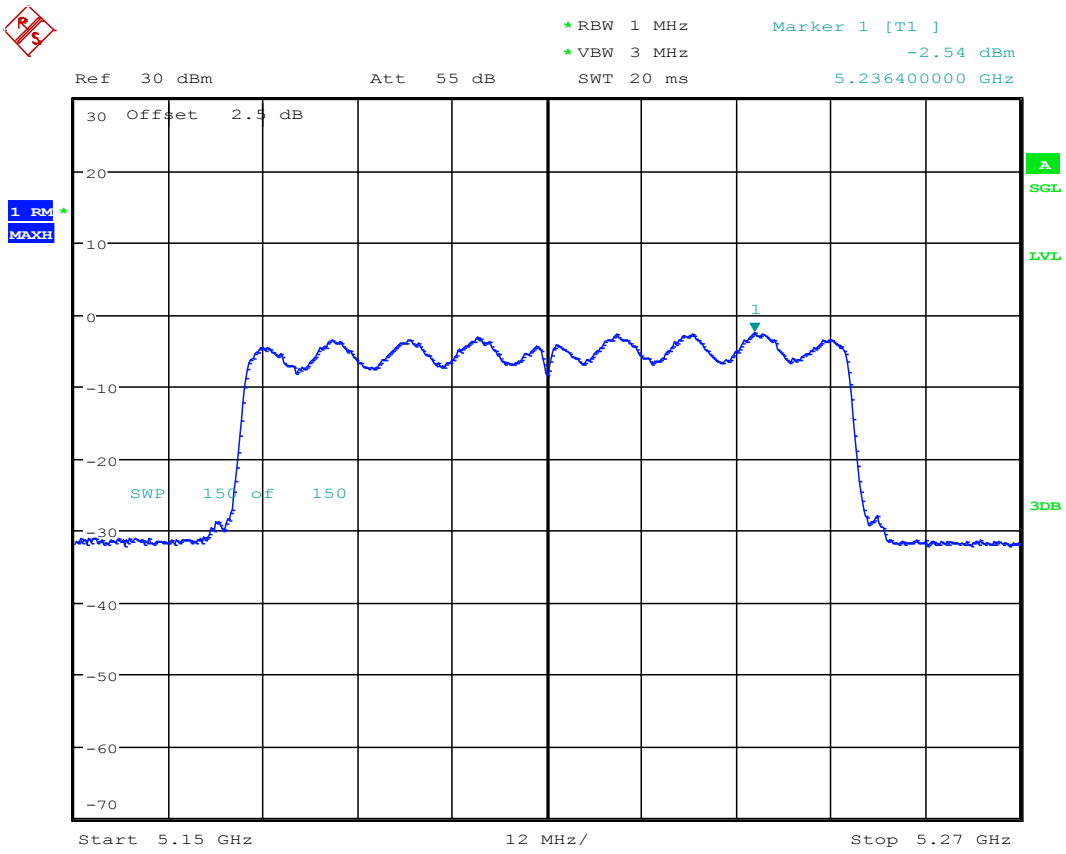
Date: 6.MAR.2018 17:34:06

11.82 11AC40MIMO_159 ANT 2



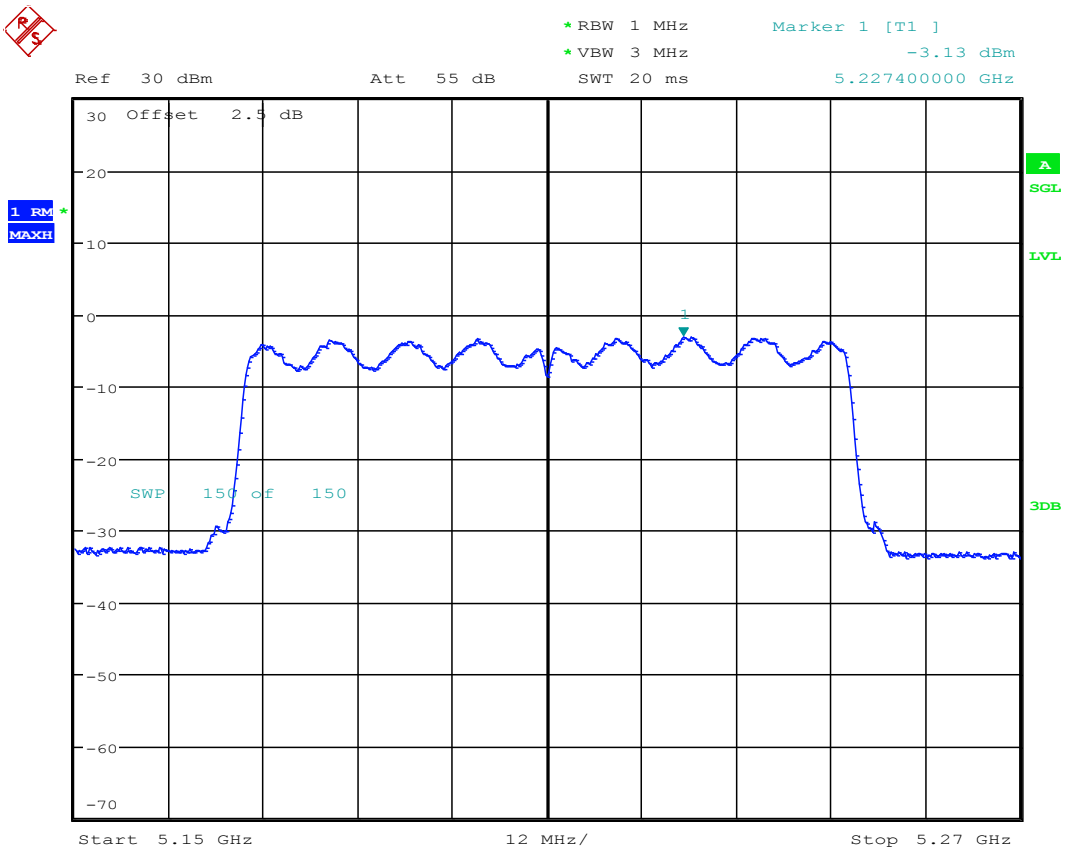
Date: 6.MAR.2018 18:58:31

11.83 11AC80_42 ANT 1



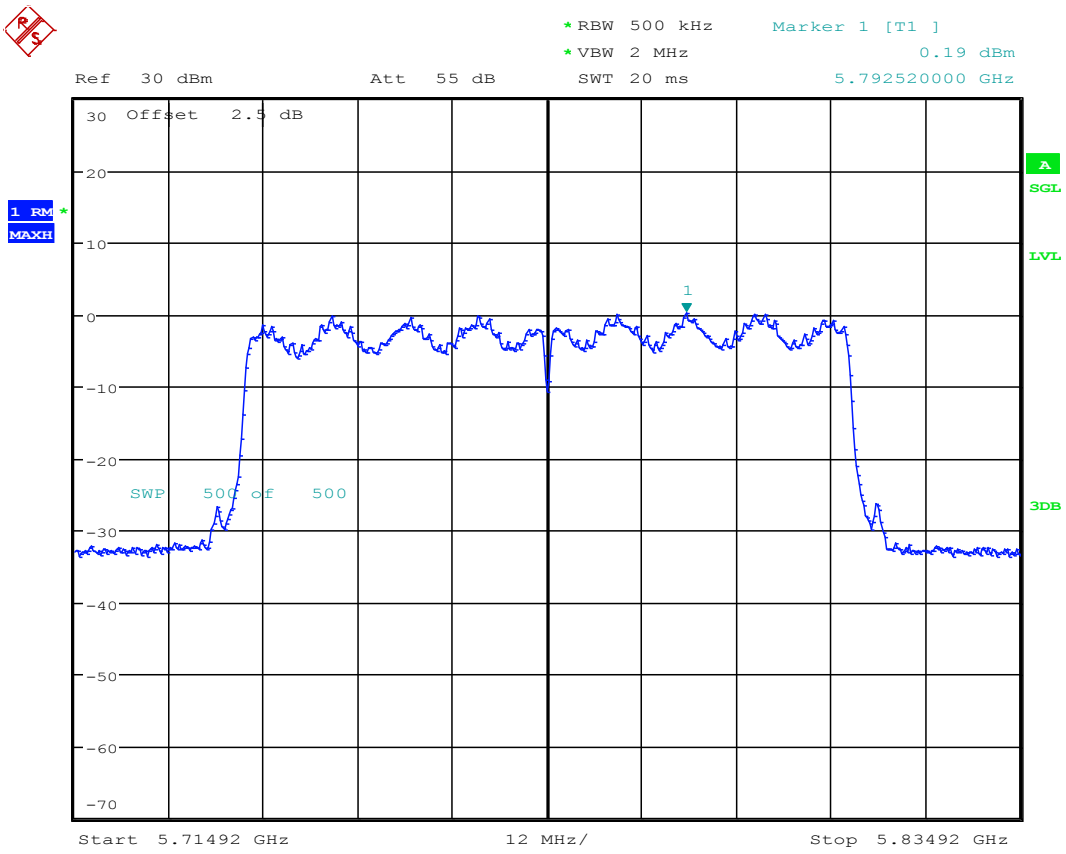
Date: 8.MAR.2018 14:56:48

11.84 11AC80_42 ANT 2

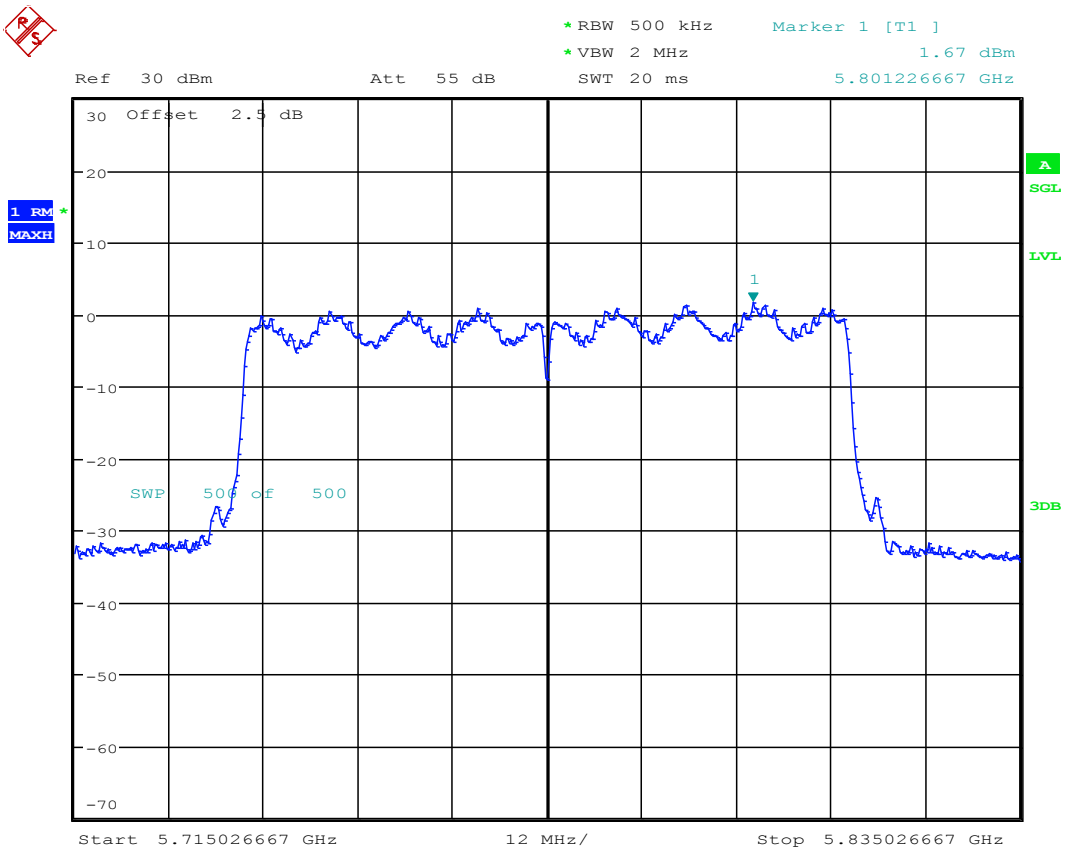


Date: 6.MAR.2018 14:39:34

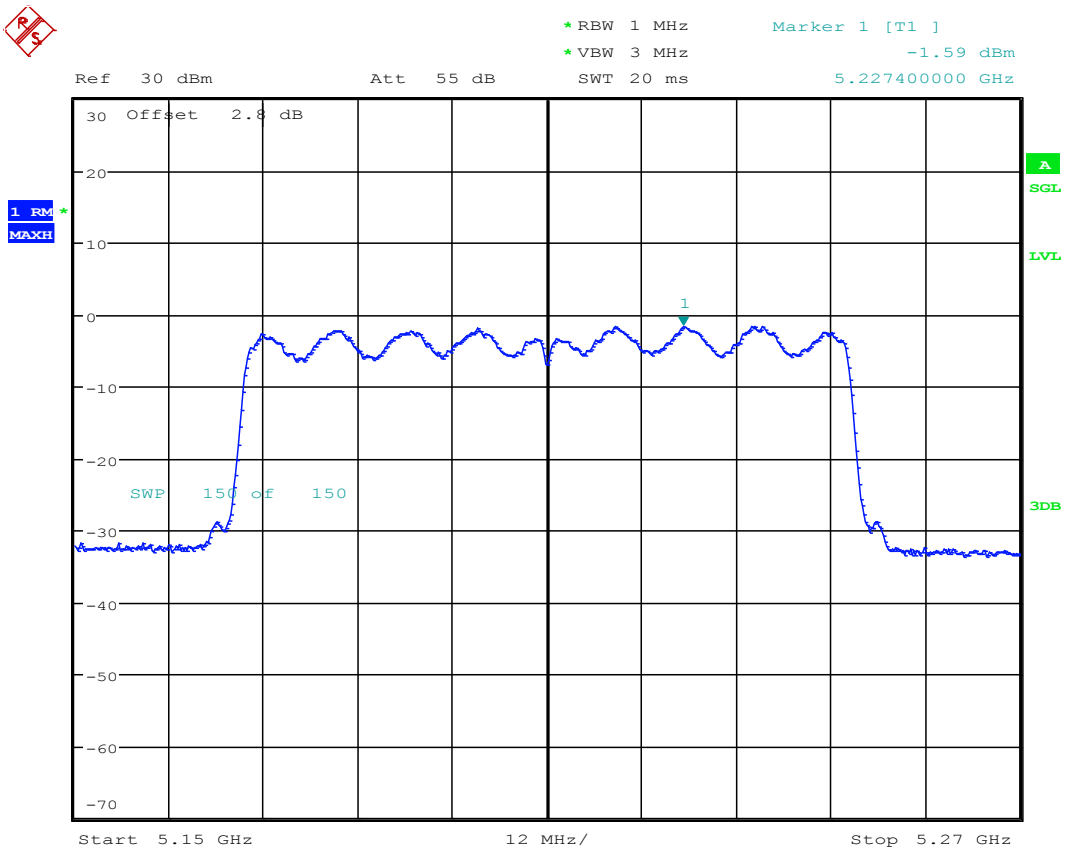
11.85 11AC80_155 ANT 1



11.86 11AC80_155 ANT 2

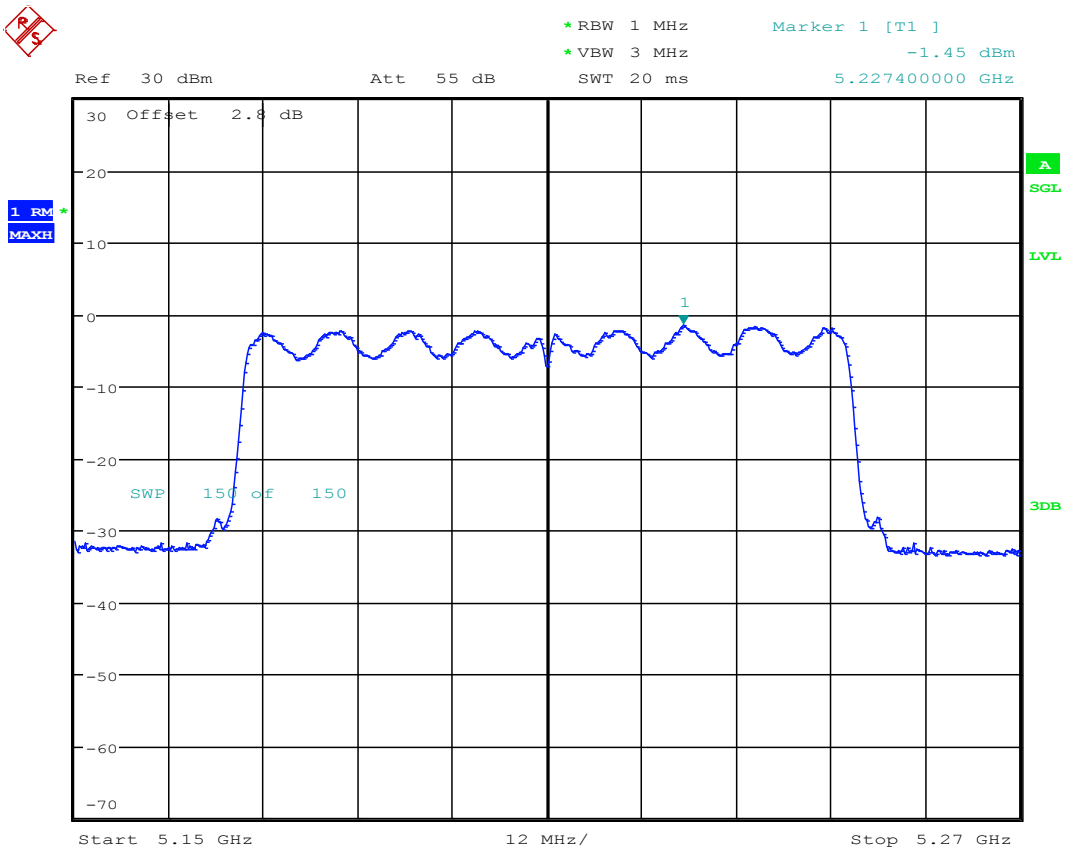


11.87 11AC80MIMO_42 ANT 1



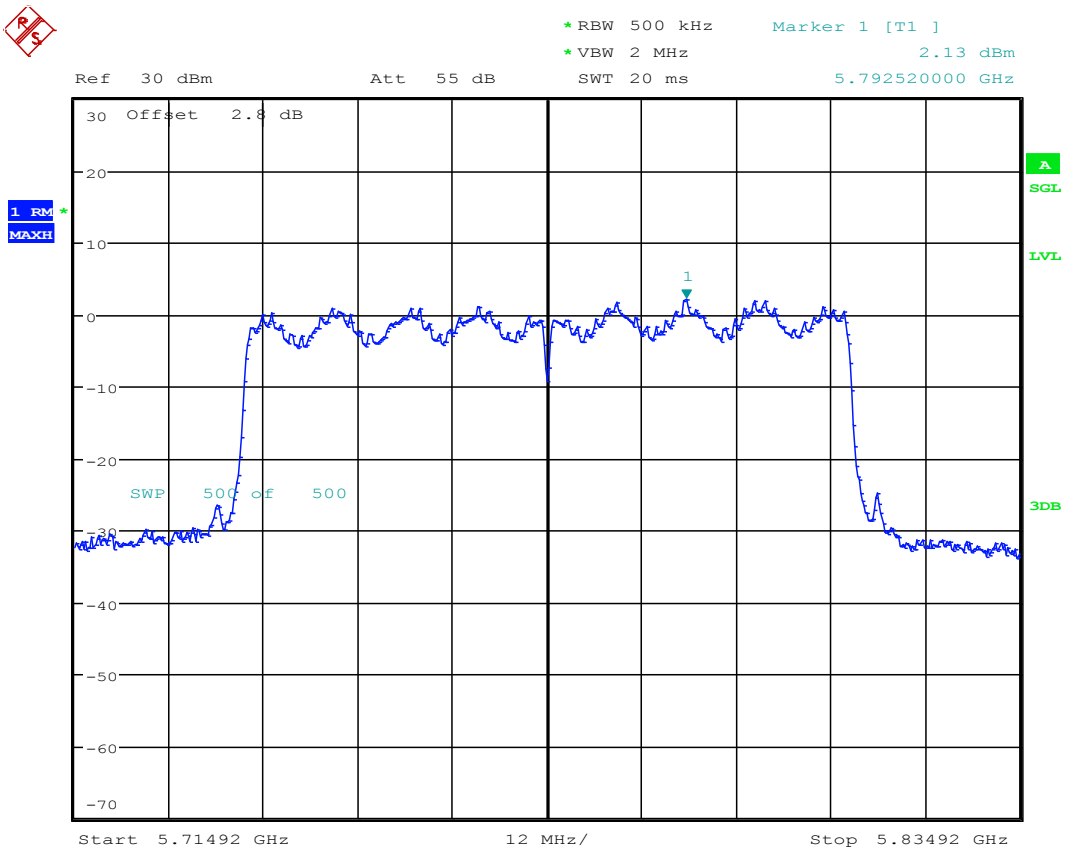
Date: 6.MAR.2018 17:38:23

11.88 11AC80MIMO_42 ANT 2

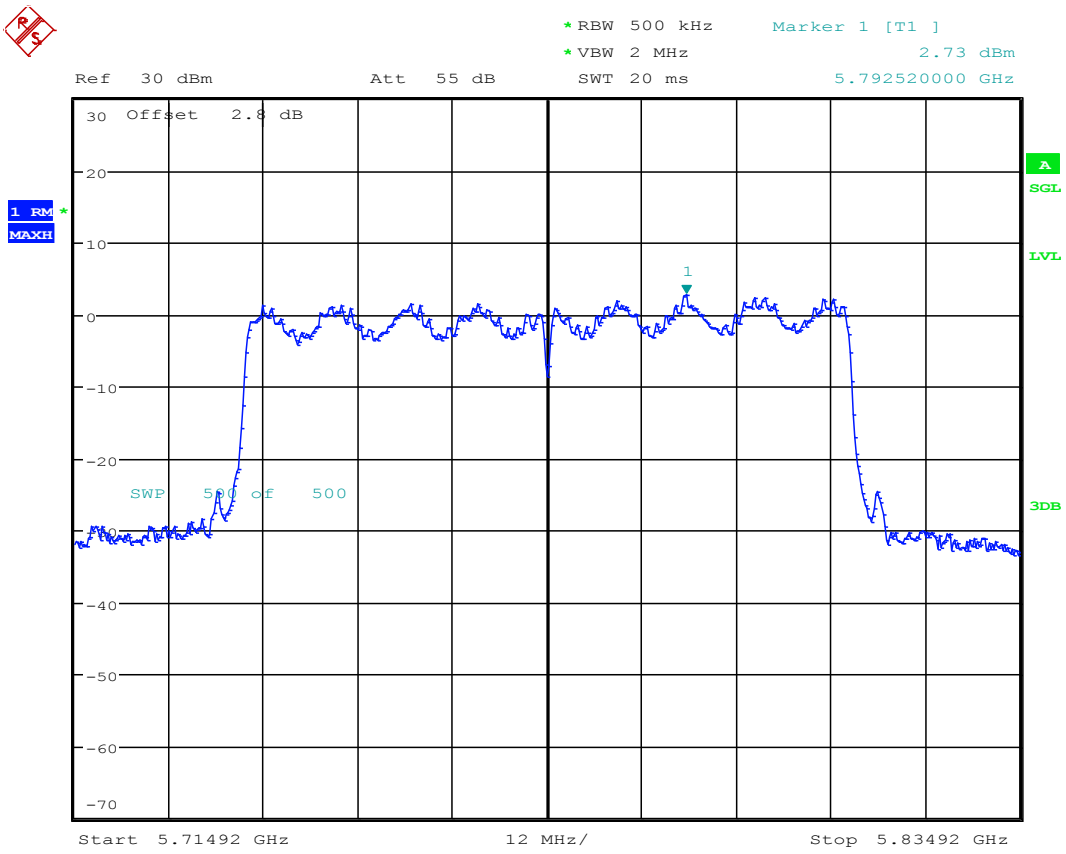


Date: 6.MAR.2018 17:48:17

11.89 11AC80MIMO_155 ANT 1



11.90 11AC80MIMO_155 ANT 2



Date: 6.MAR.2018 17:45:15

Appendix F: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5180
V nom(V)	5180.0087
V max(V)	5180.0061
V min(V)	5180.0073
Max. Deviation Frequency	0.0087
Max. Frequency Error (ppm)	1.68

Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)
	5180
-5	5180.0082
5	5180.0046
15	5180.0074
25	5180.0079
35	5180.0091
45	5180.0077
50	5180.0085
Max. Deviation Frequency	0.0091
Max. Frequency Error (ppm)	1.76

Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5825
V nom(V)	5825.0029
V max(V)	5825.0057
V min(V)	5825.0043
Max. Deviation Frequency	0.0057
Max. Frequency Error (ppm)	0.98

Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)
	5825
-5	5825.0027
5	5825.0045
15	5825.0032
25	5825.0043
35	5825.0031
45	5825.0037
50	5825.0022
Max. Deviation Frequency	0.0045
Max. Frequency Error (ppm)	0.73

END