



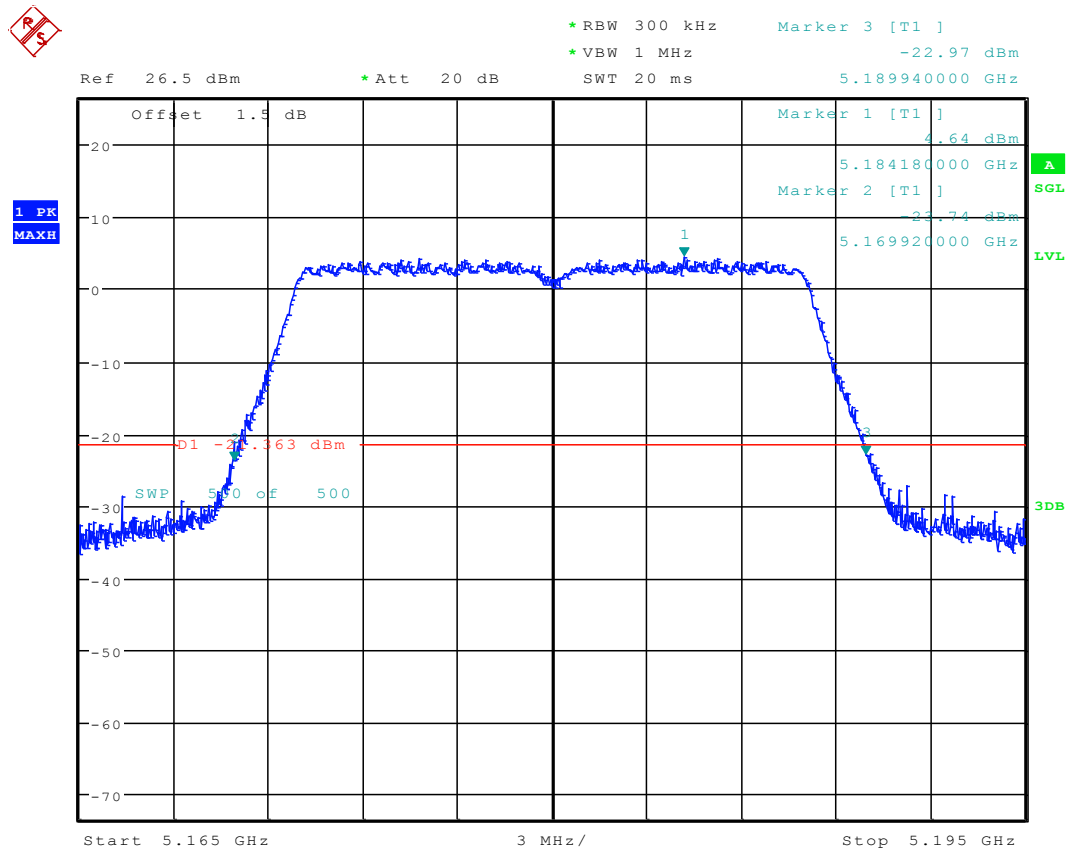
Appendix A U-NII: Emission Bandwidth

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	20.02	PASS
	48	5240	ANT 1	19.86	PASS
	52	5260	ANT 1	19.94	PASS
	64	5320	ANT 1	19.72	PASS
	100	5500	ANT 1	19.92	PASS
	140	5700	ANT 1	20	PASS
11N20	36	5180	ANT 1	20.5	PASS
	48	5240	ANT 1	21.26	PASS
	52	5260	ANT 1	20.5	PASS
	64	5320	ANT 1	20.6	PASS
	100	5500	ANT 1	21.14	PASS
	140	5700	ANT 1	20.54	PASS
11N40	38	5190	ANT 1	39.78	PASS
	46	5230	ANT 1	39.64	PASS
	54	5270	ANT 1	39.6	PASS
	62	5310	ANT 1	39.7	PASS
	102	5510	ANT 1	39.42	PASS
	134	5670	ANT 1	39.62	PASS
11AC20	36	5180	ANT 1	20.4	PASS
	48	5240	ANT 1	20.48	PASS
	52	5260	ANT 1	20.6	PASS
	64	5320	ANT 1	20.46	PASS
	100	5500	ANT 1	20.6	PASS
	140	5700	ANT 1	20.4	PASS
11AC40	38	5190	ANT 1	39.72	PASS
	46	5230	ANT 1	39.7	PASS
	54	5270	ANT 1	39.68	PASS
	62	5310	ANT 1	39.54	PASS
	102	5510	ANT 1	39.72	PASS
	134	5670	ANT 1	39.44	PASS
11AC80	42	5210	ANT 1	81.17	PASS
	58	5290	ANT 1	81.17	PASS
	106	5530	ANT 1	81.01	PASS

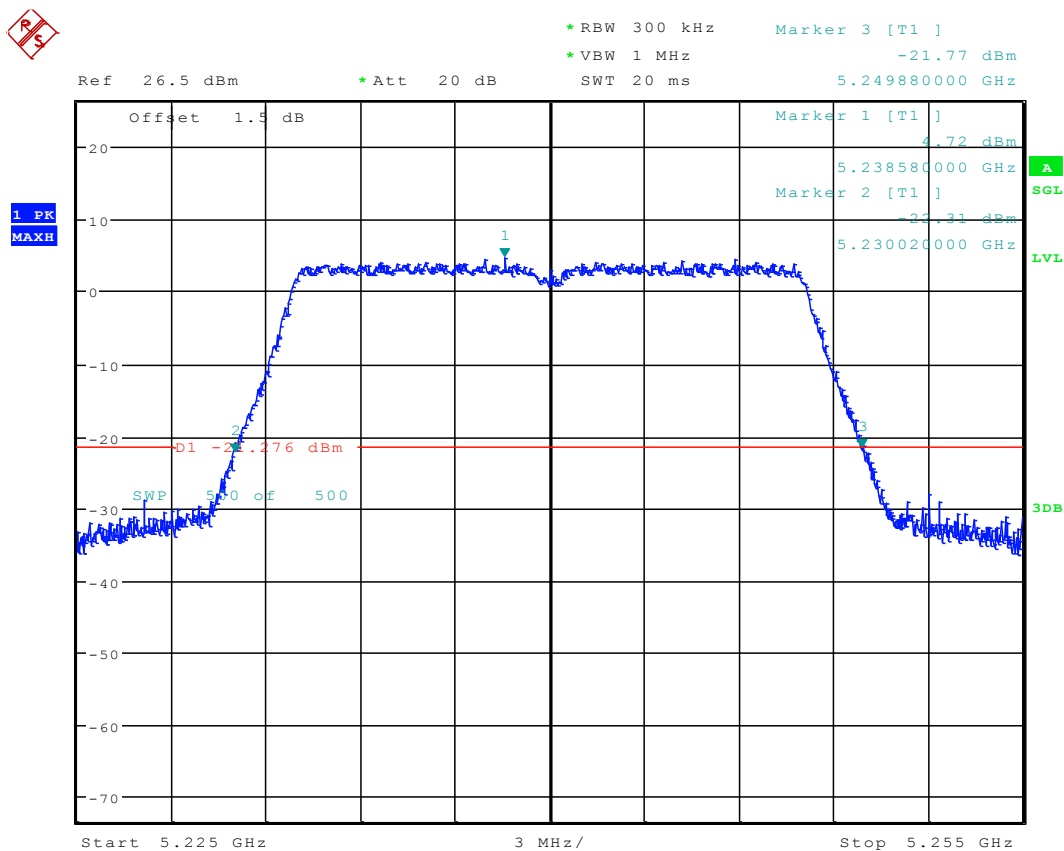
2 Test Plot for 26dB Emission Bandwidth

2.1 11A20_36 ANT 1



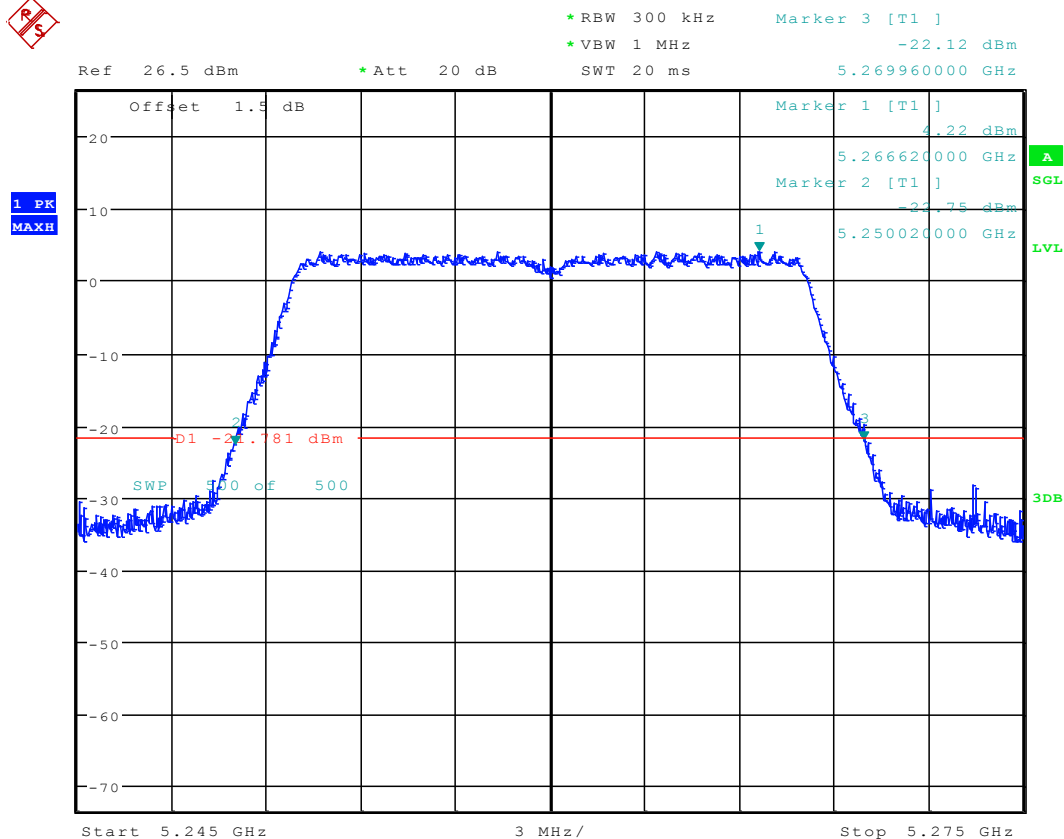
Date: 3.JAN.2017 12:49:59

2.2 11A20_48 ANT 1



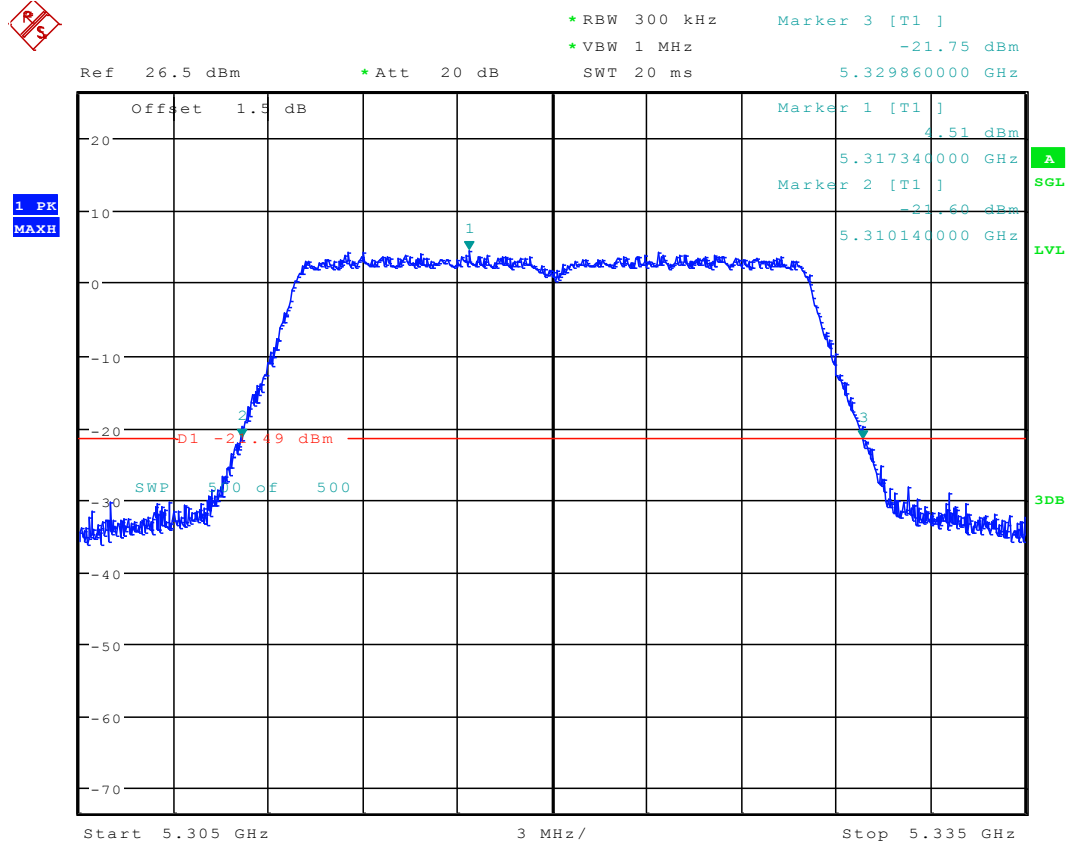
Date: 3.JAN.2017 12:56:23

2.3 11A20_52 ANT 1



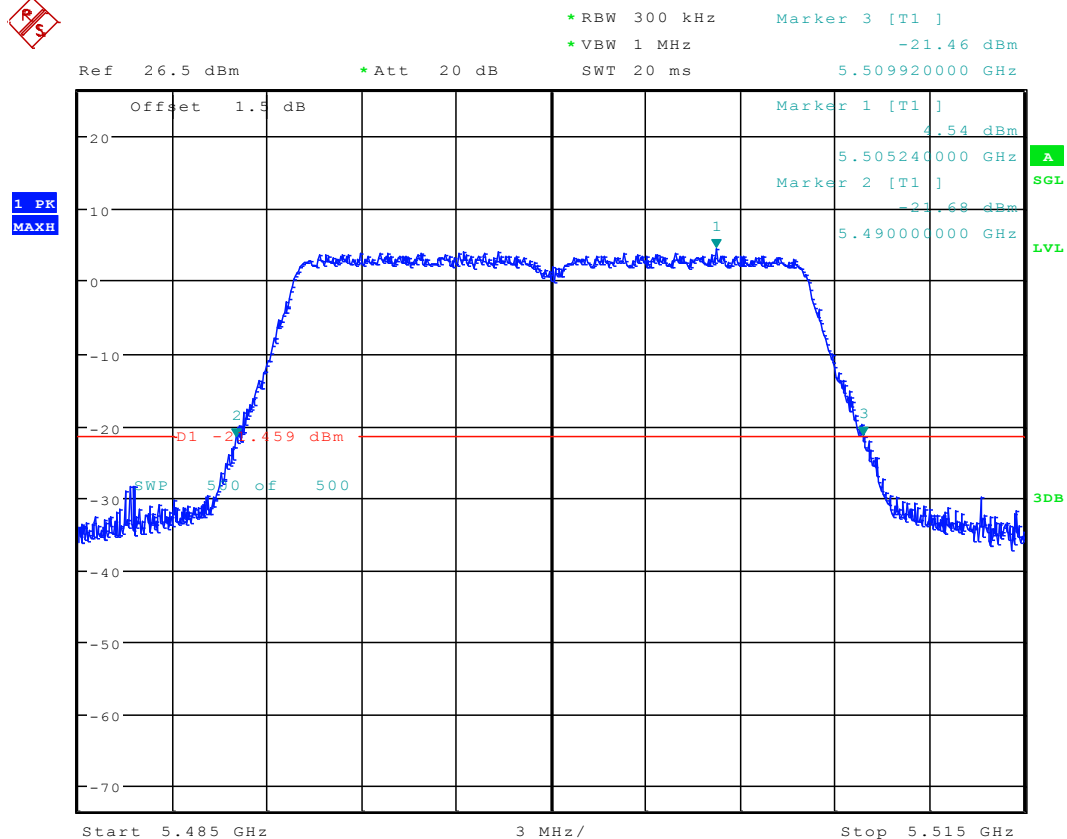
Date: 3.JAN.2017 13:01:54

2.4 11A20_64 ANT 1



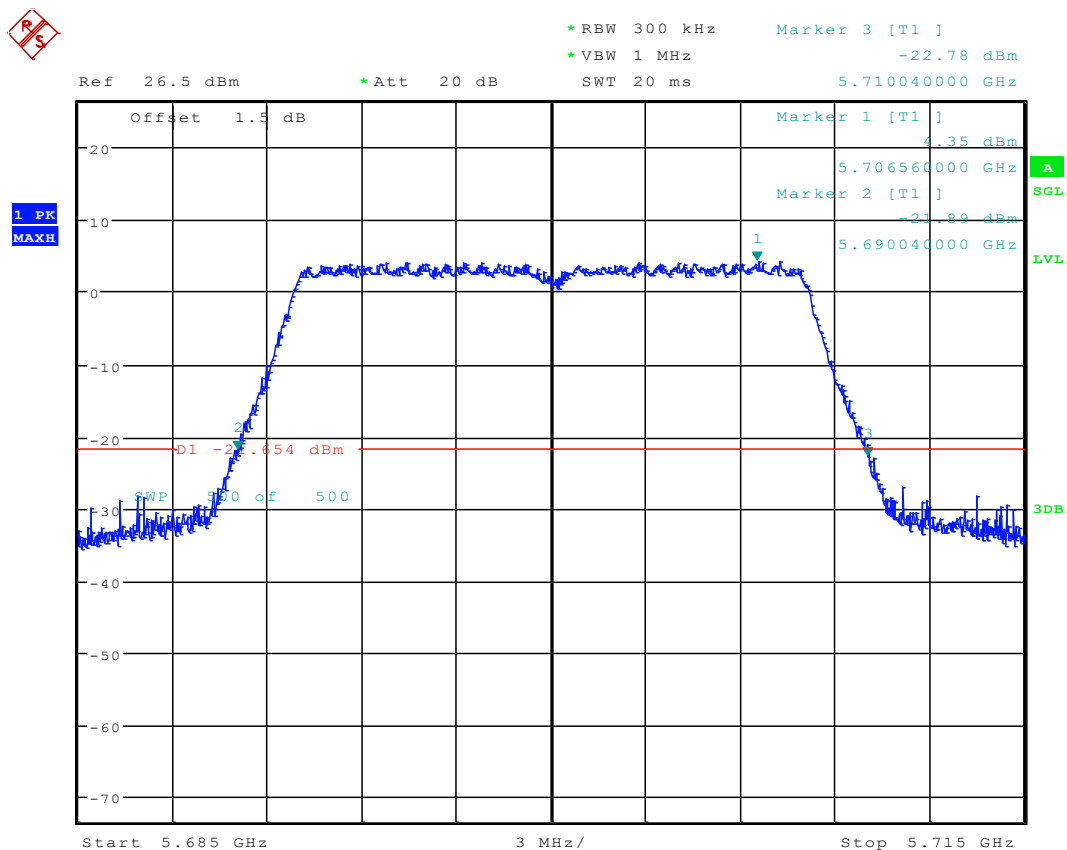
Date: 3.JAN.2017 13:08:41

2.5 11A20_100 ANT 1



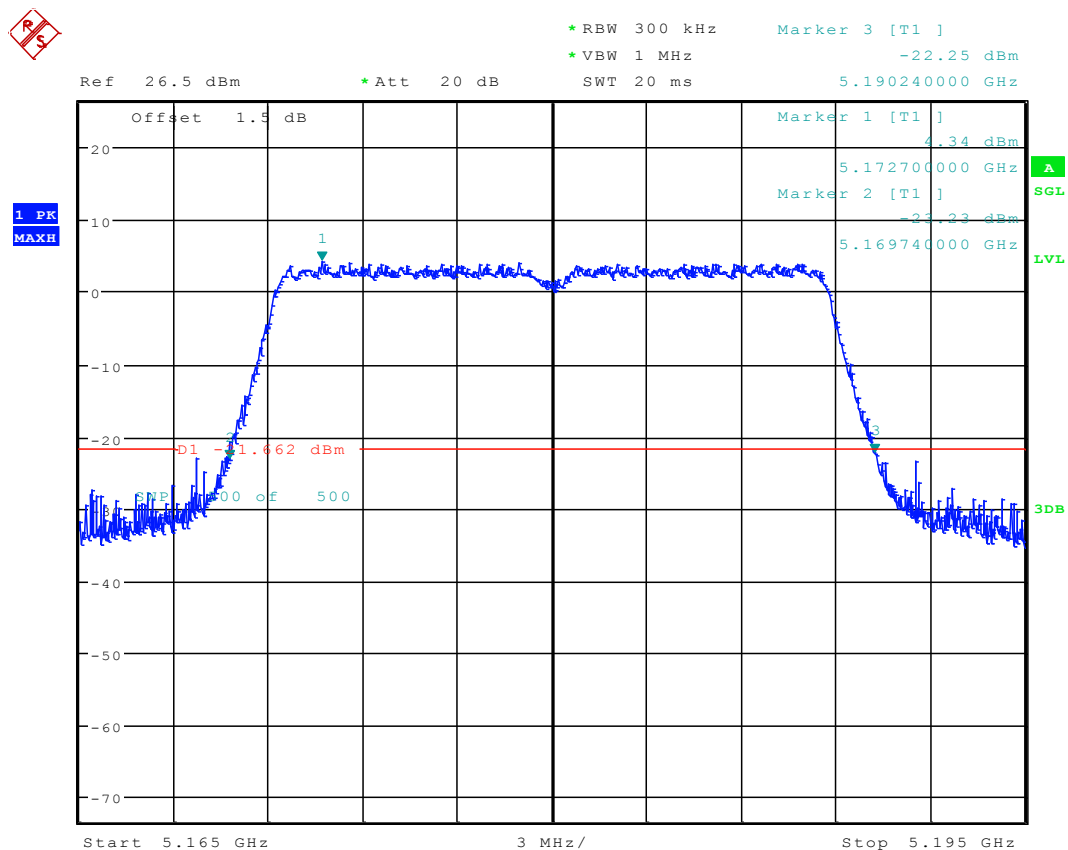
Date: 3.JAN.2017 13:14:12

2.6 11A20_140 ANT 1



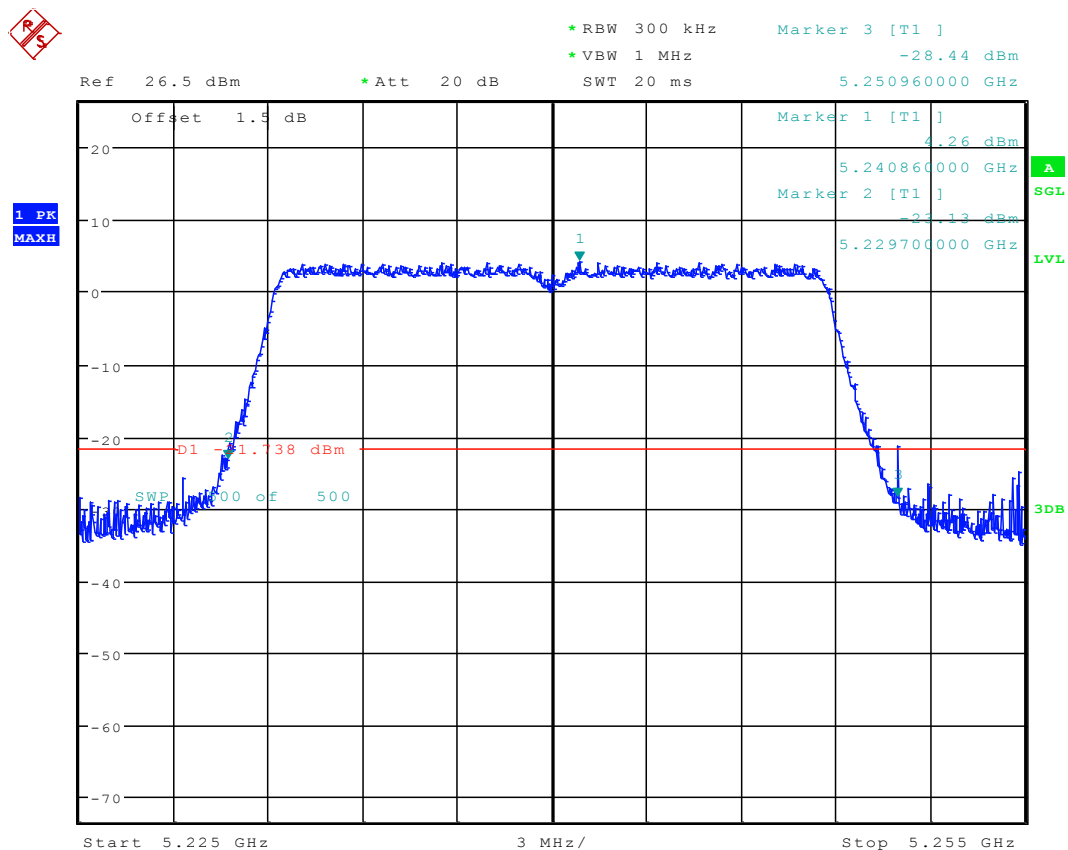
Date: 3.JAN.2017 13:22:53

2.7 11N20_36 ANT 1



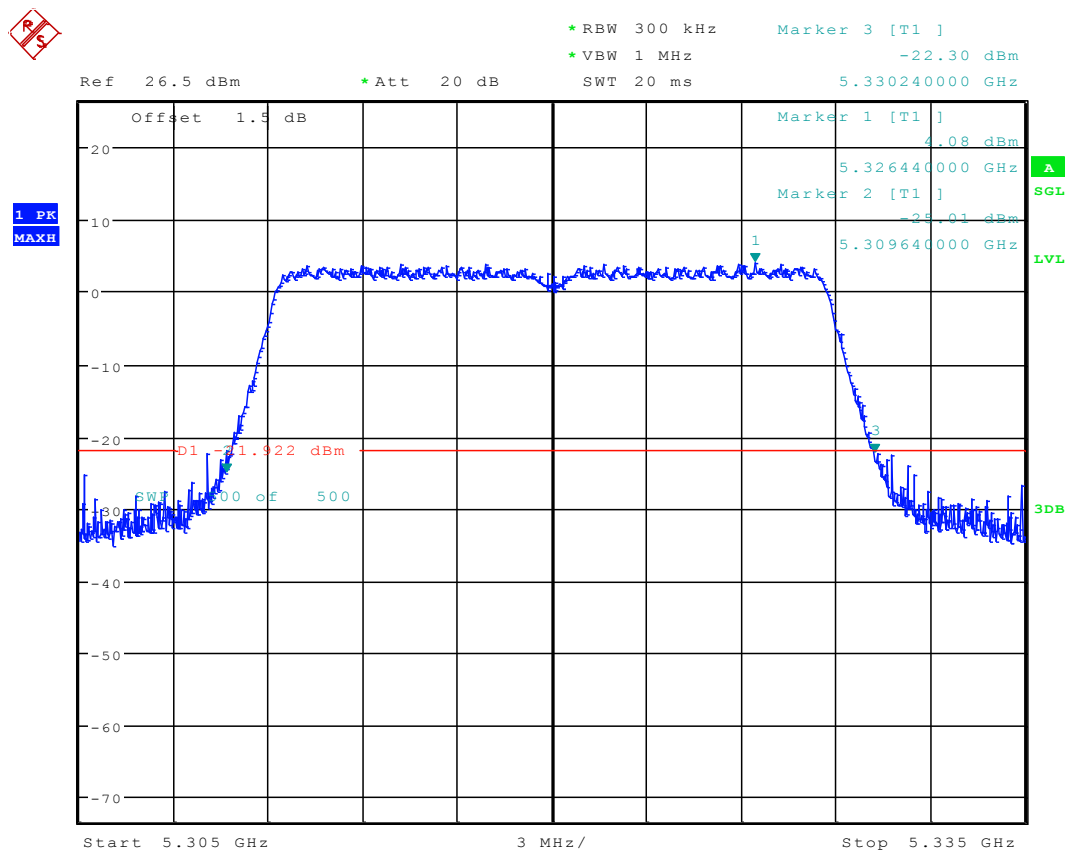
Date: 3.JAN.2017 13:30:03

2.8 11N20_48 ANT 1



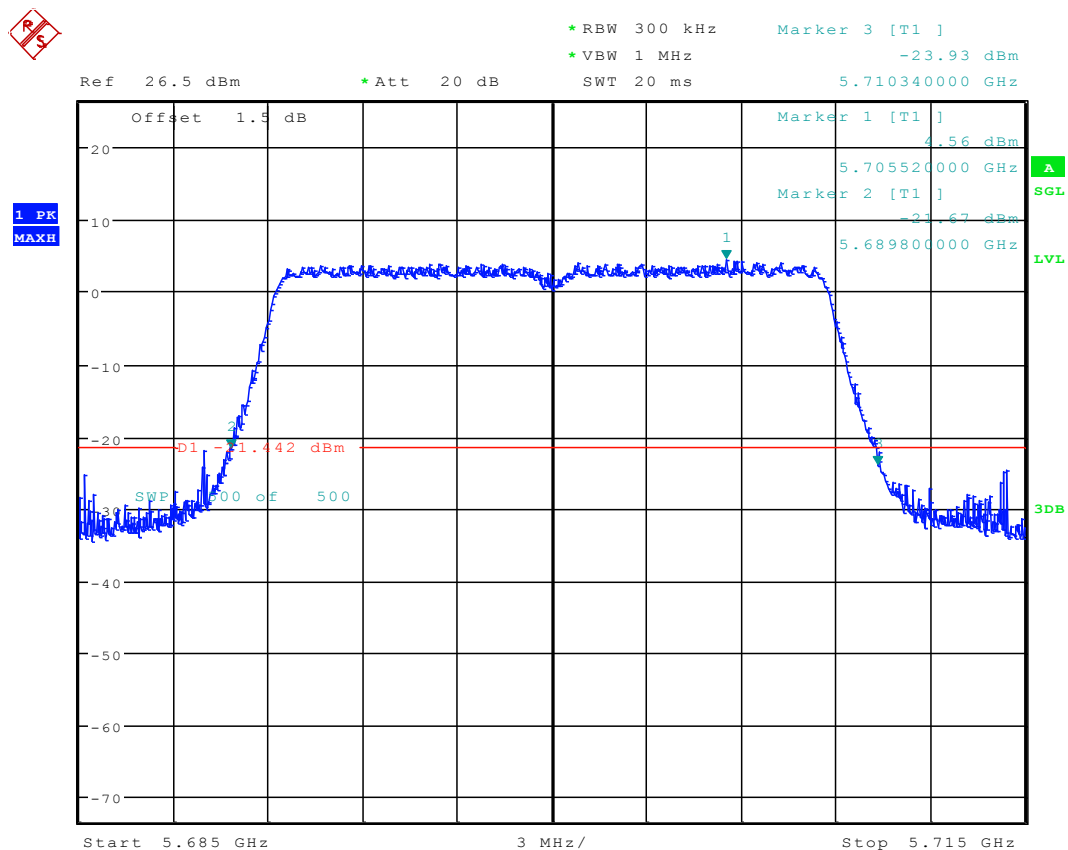
Date: 3.JAN.2017 13:35:42

2.10 11N20_64 ANT 1



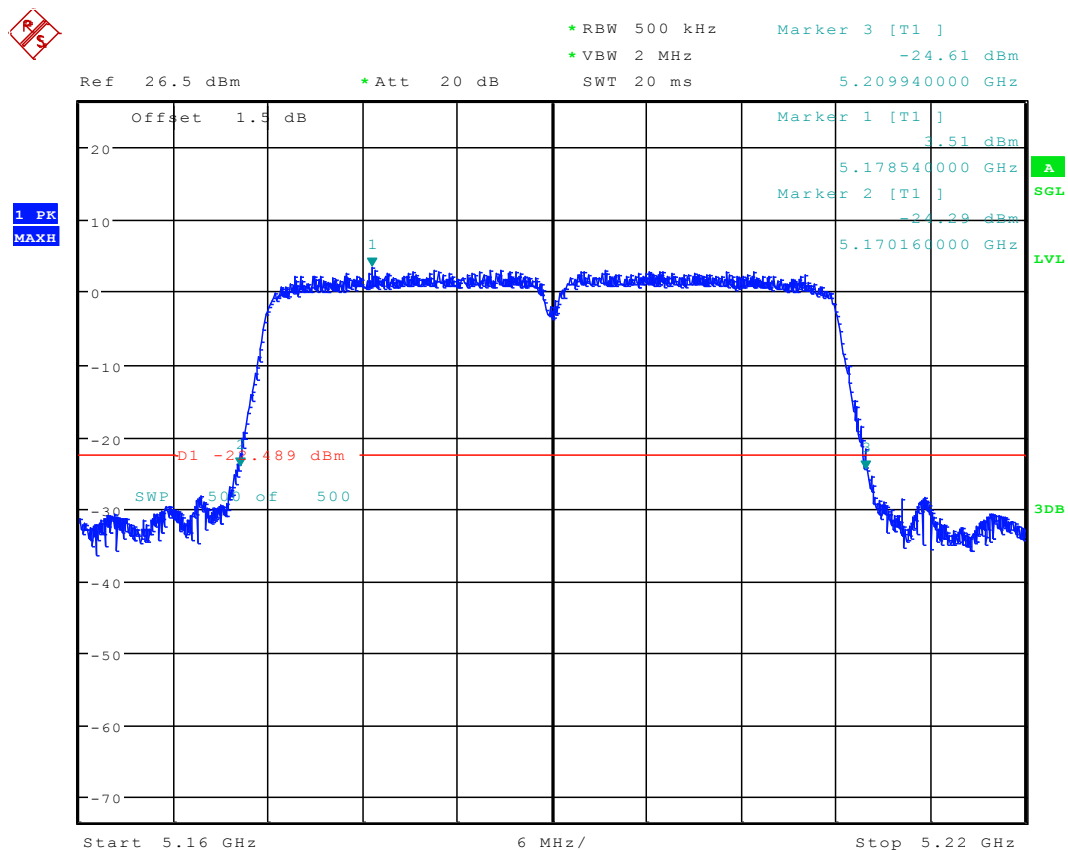
Date: 3.JAN.2017 13:46:24

2.12 11N20_140 ANT 1



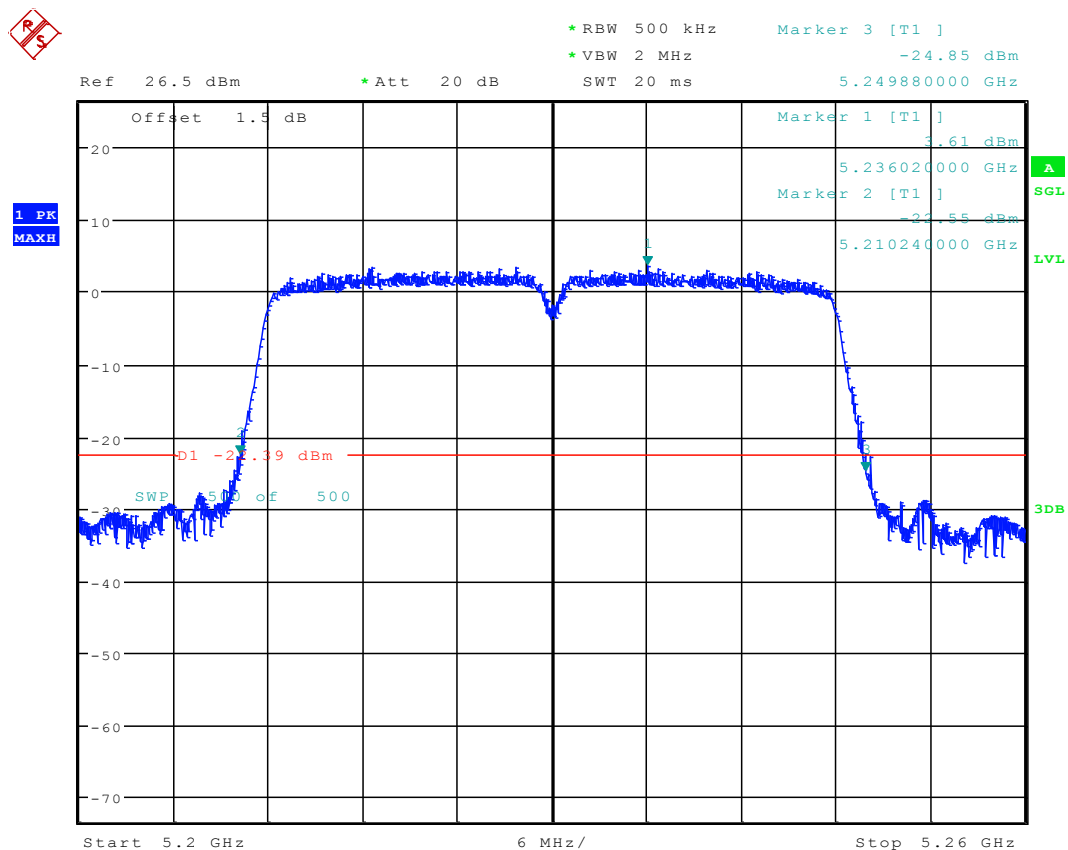
Date: 3.JAN.2017 13:56:40

2.13 11N40_38 ANT 1



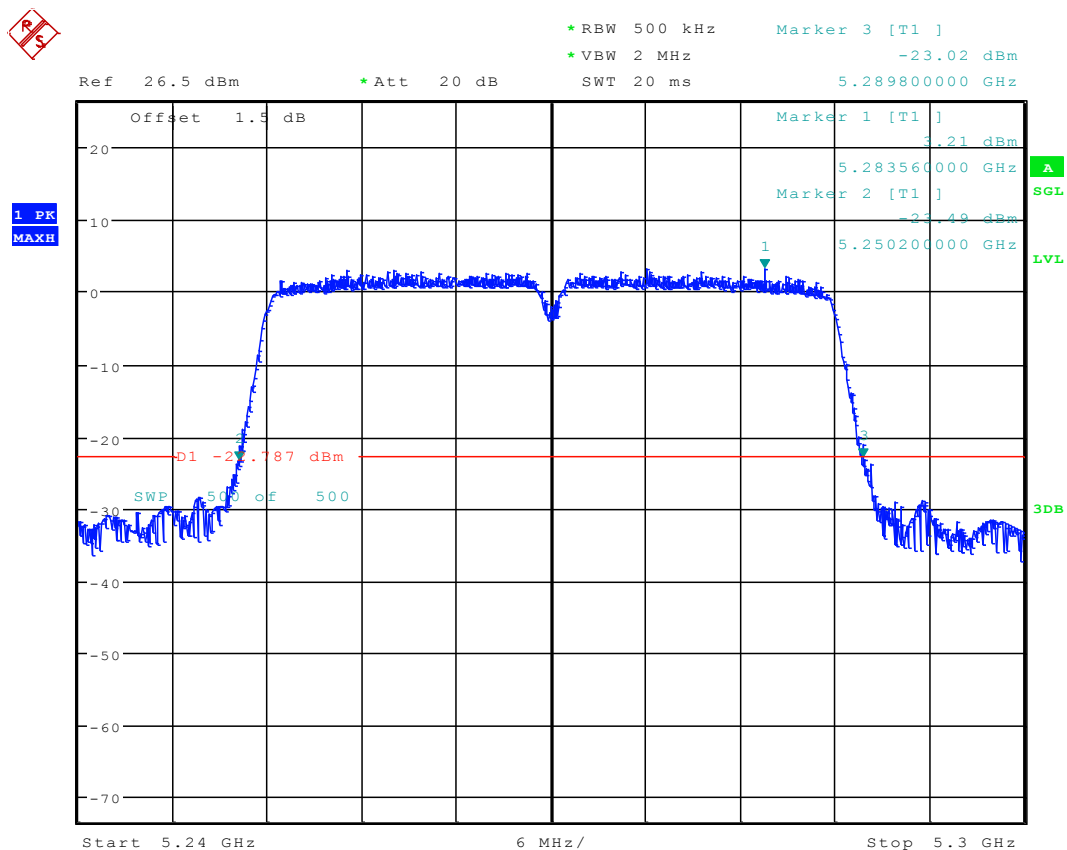
Date: 3.JAN.2017 14:03:10

2.14 11N40_46 ANT 1



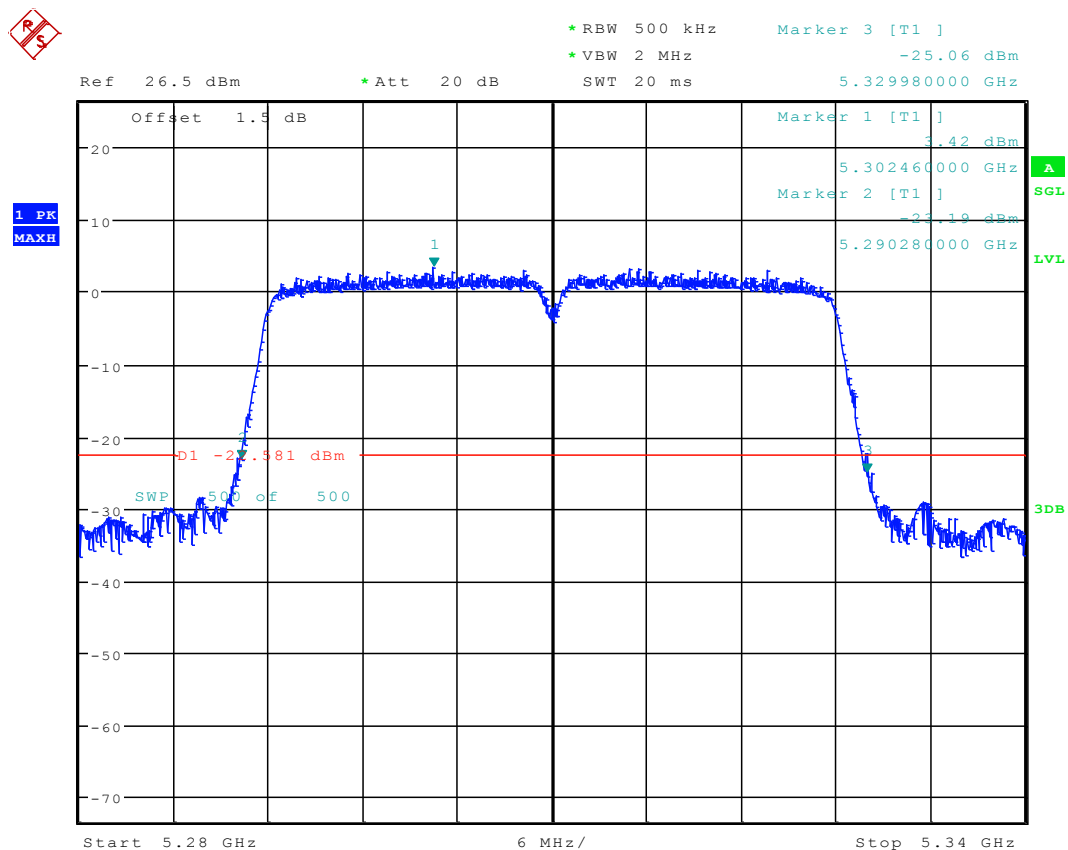
Date: 3.JAN.2017 14:10:22

2.15 11N40_54 ANT 1



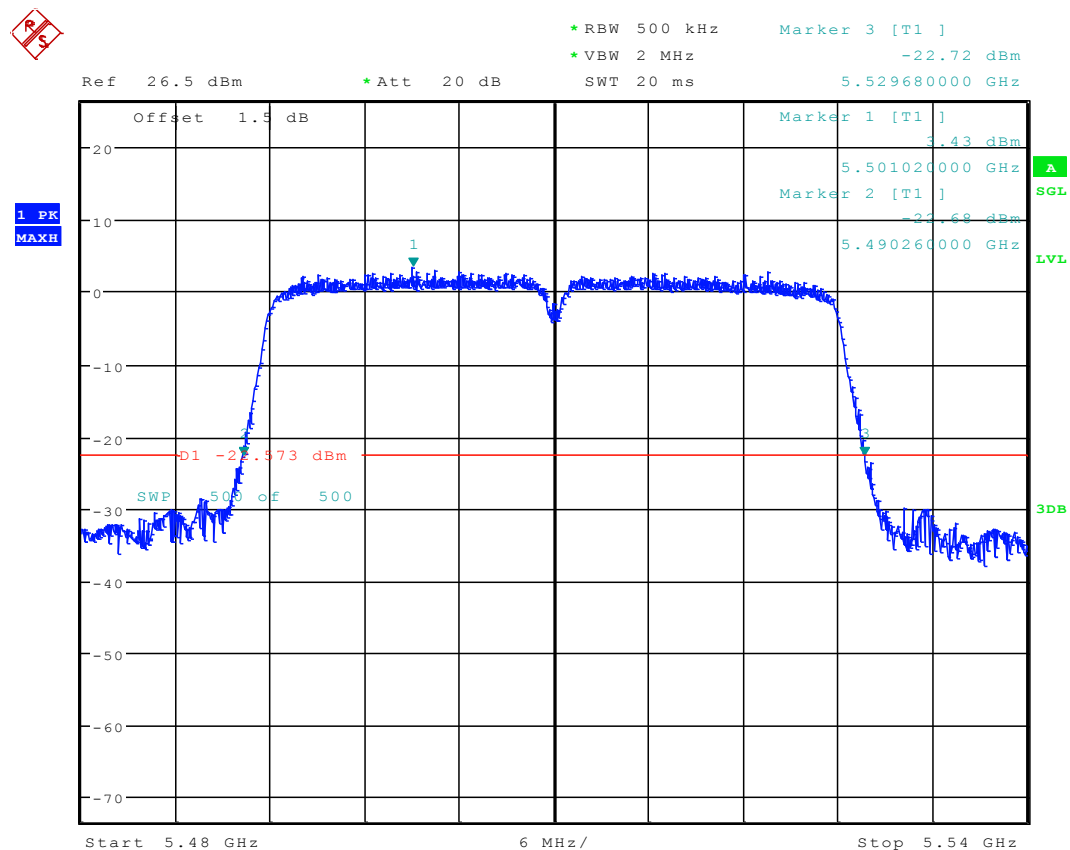
Date: 3.JAN.2017 14:15:58

2.16 11N40_62 ANT 1

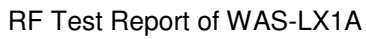


Date: 3.JAN.2017 14:23:08

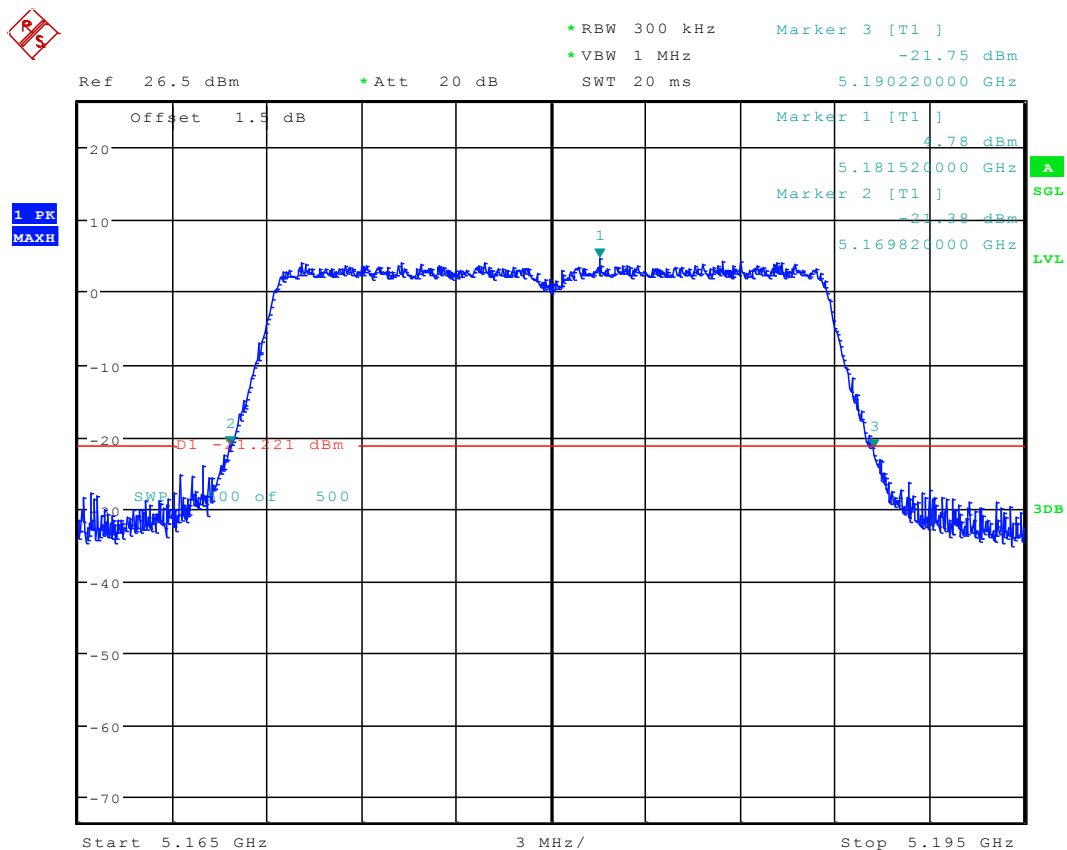
2.17 11N40_102 ANT 1



Date: 3.JAN.2017 14:28:02

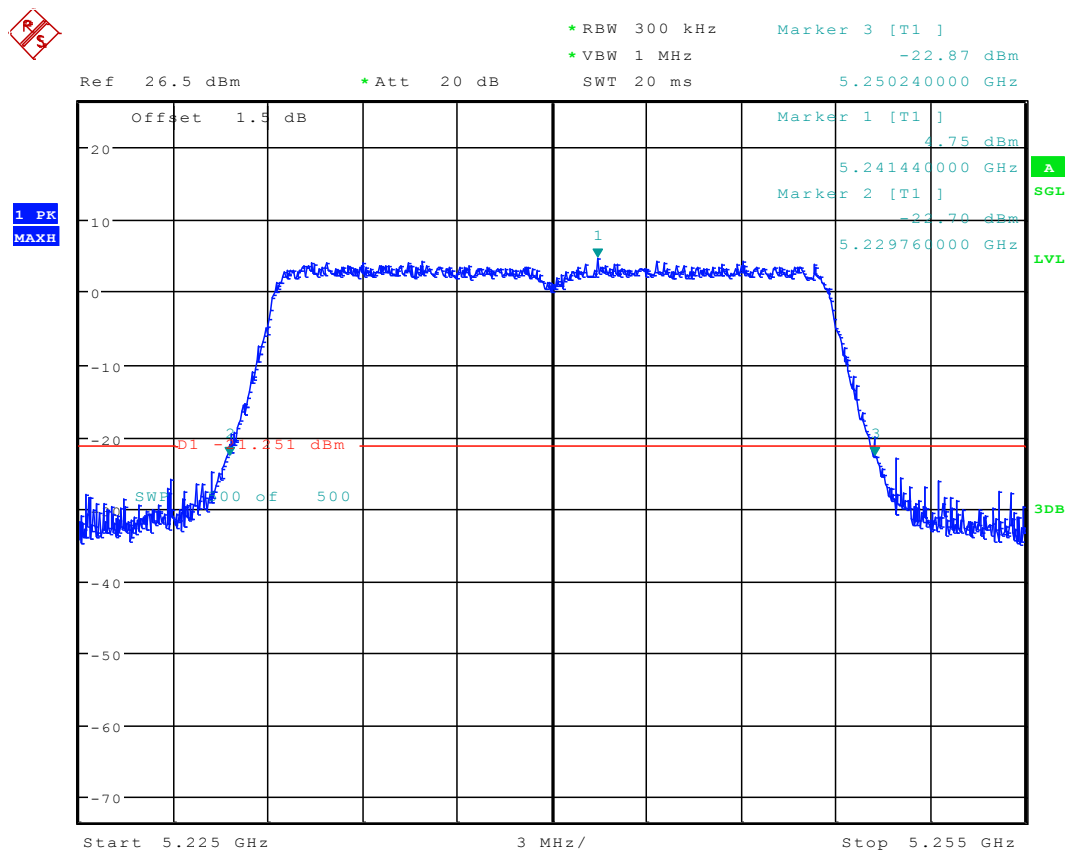


2.19 11AC20_36 ANT 1



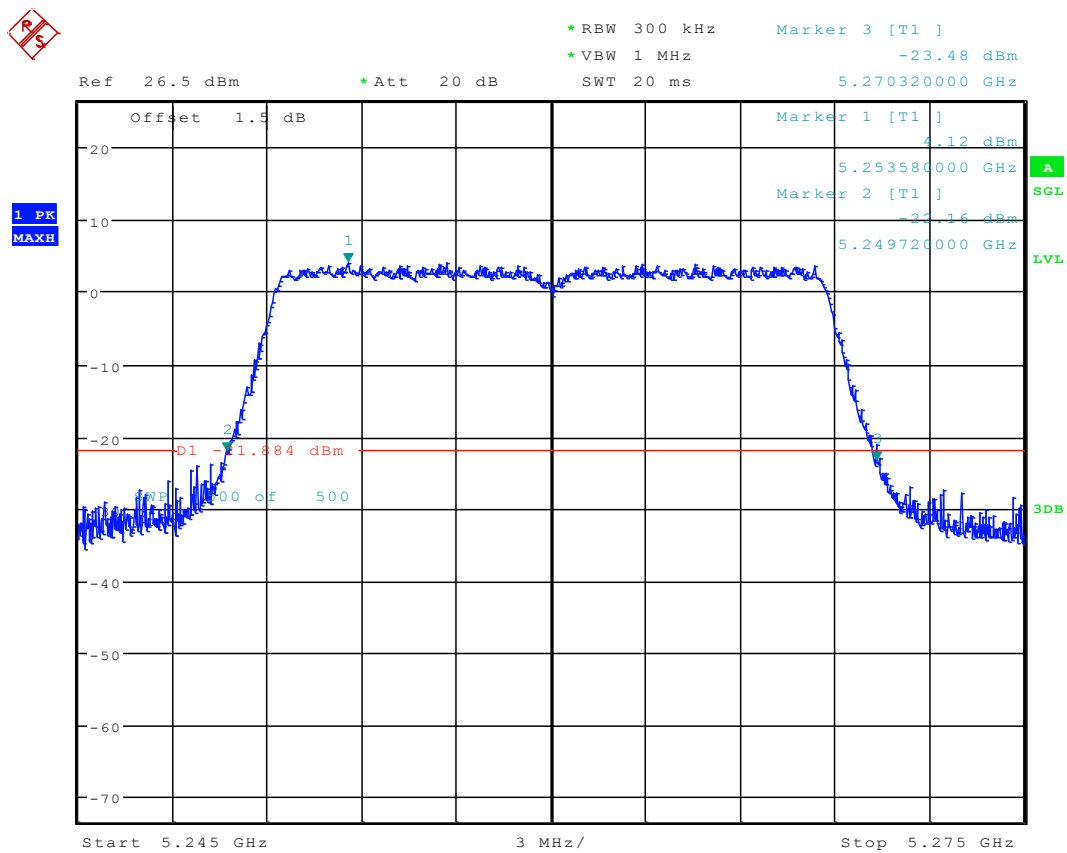
Date: 3.JAN.2017 12:16:37

2.20 11AC20_48 ANT 1



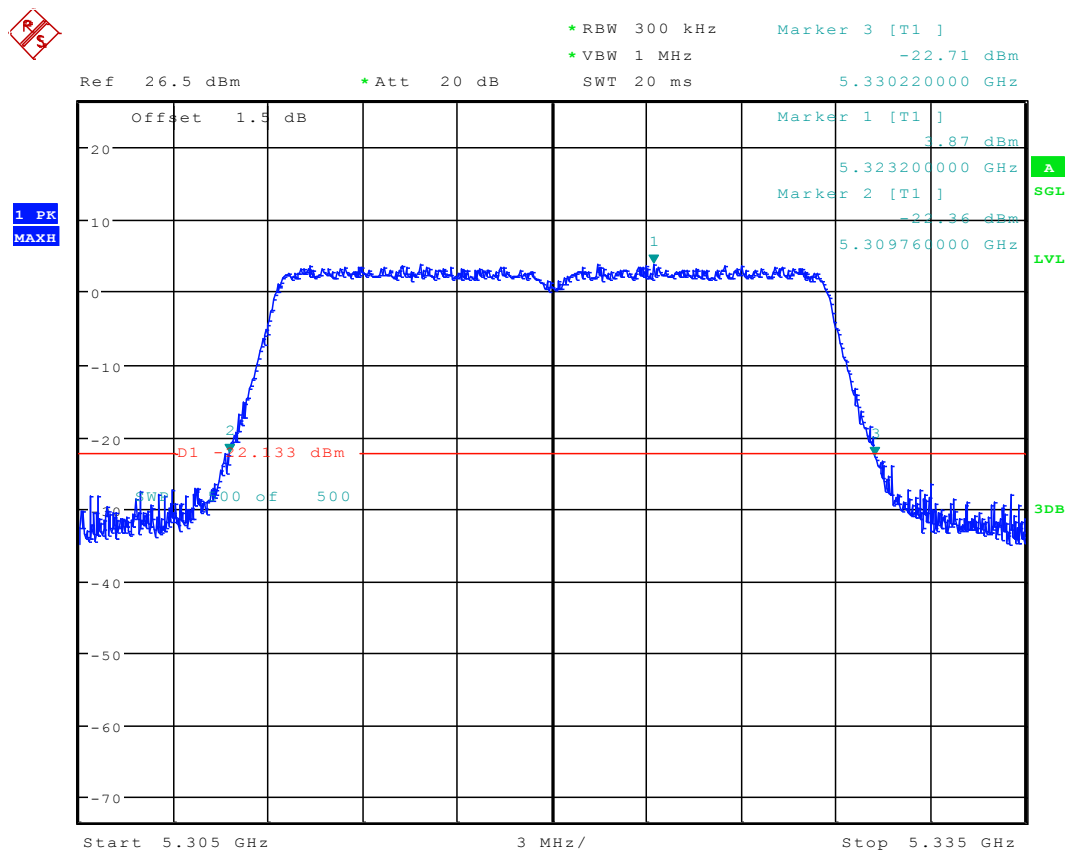
Date: 3.JAN.2017 12:21:38

2.21 11AC20_52 ANT 1

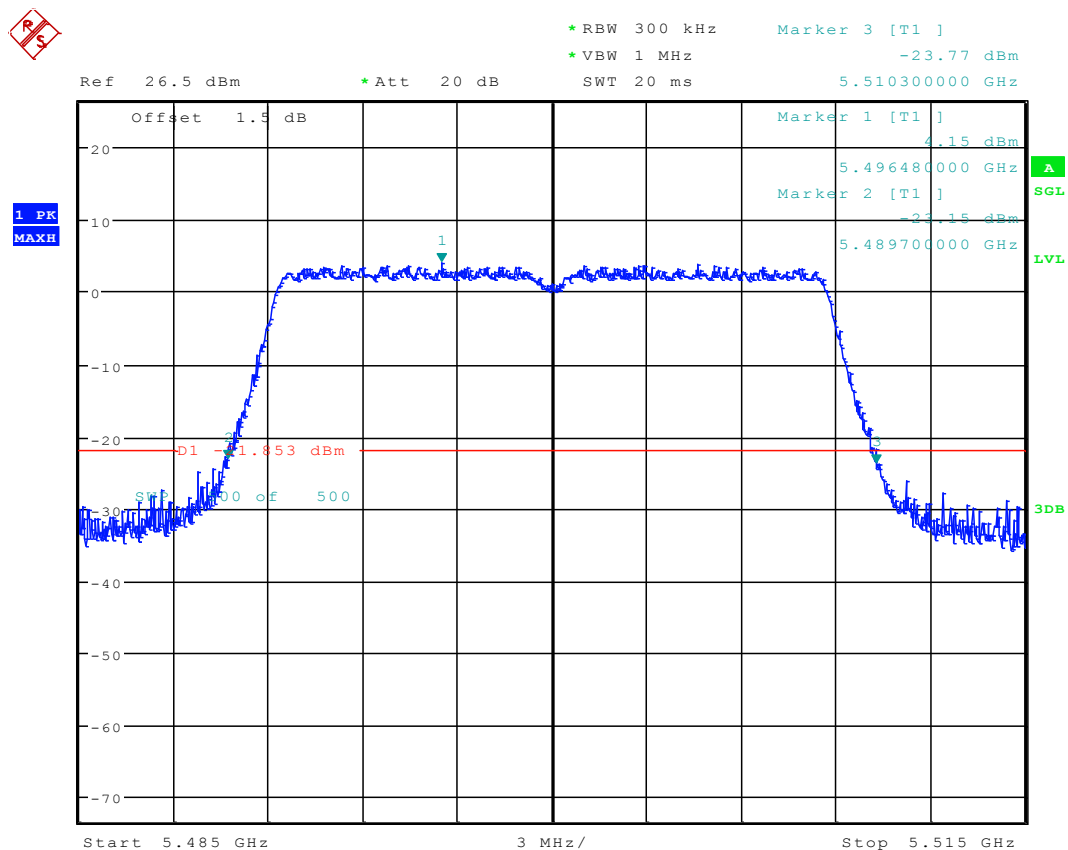


Date: 3.JAN.2017 12:27:18

2.22 11AC20_64 ANT 1

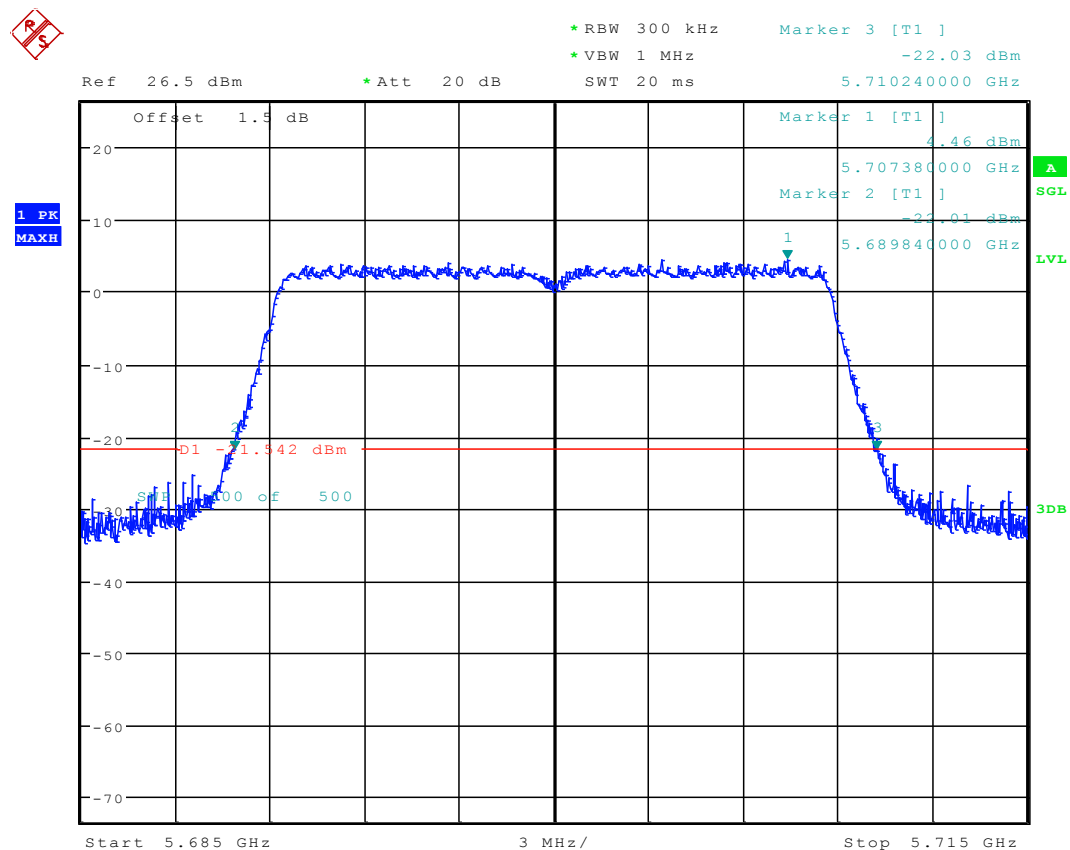


2.23 11AC20_100 ANT 1

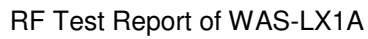


Date: 3.JAN.2017 12:37:48

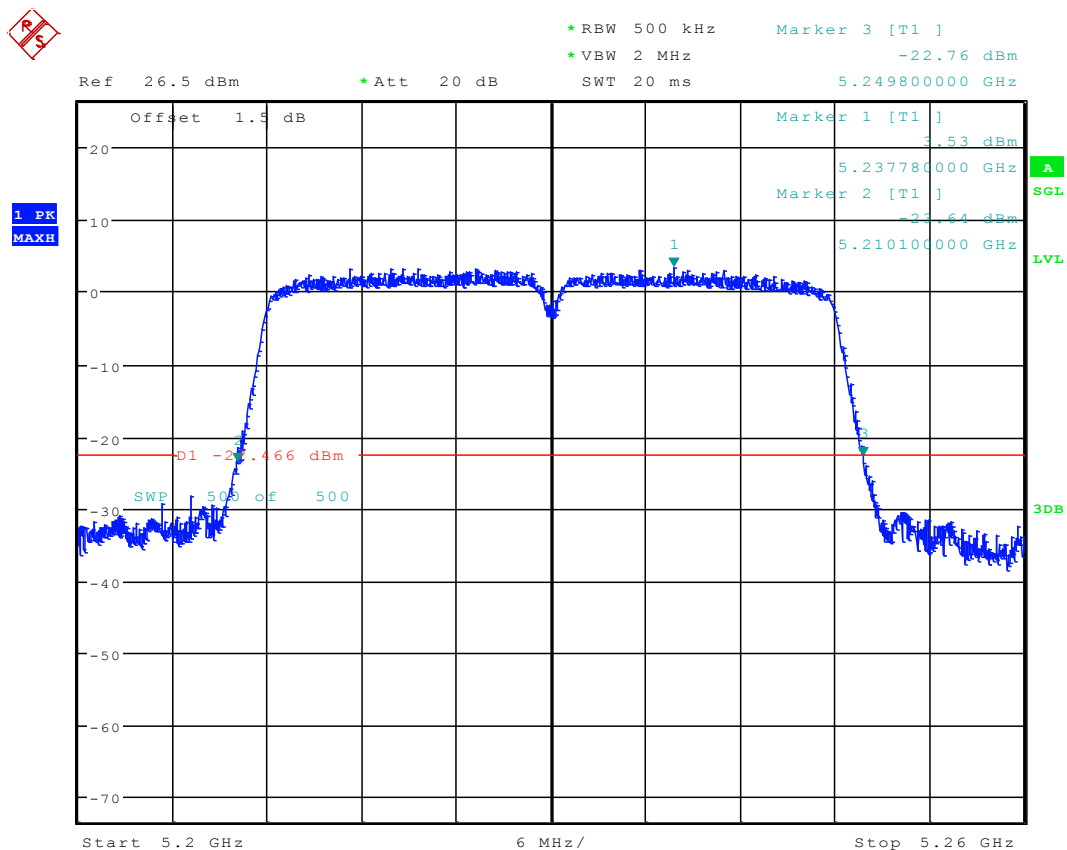
2.24 11AC20_140 ANT 1



Date: 3.JAN.2017 12:43:42

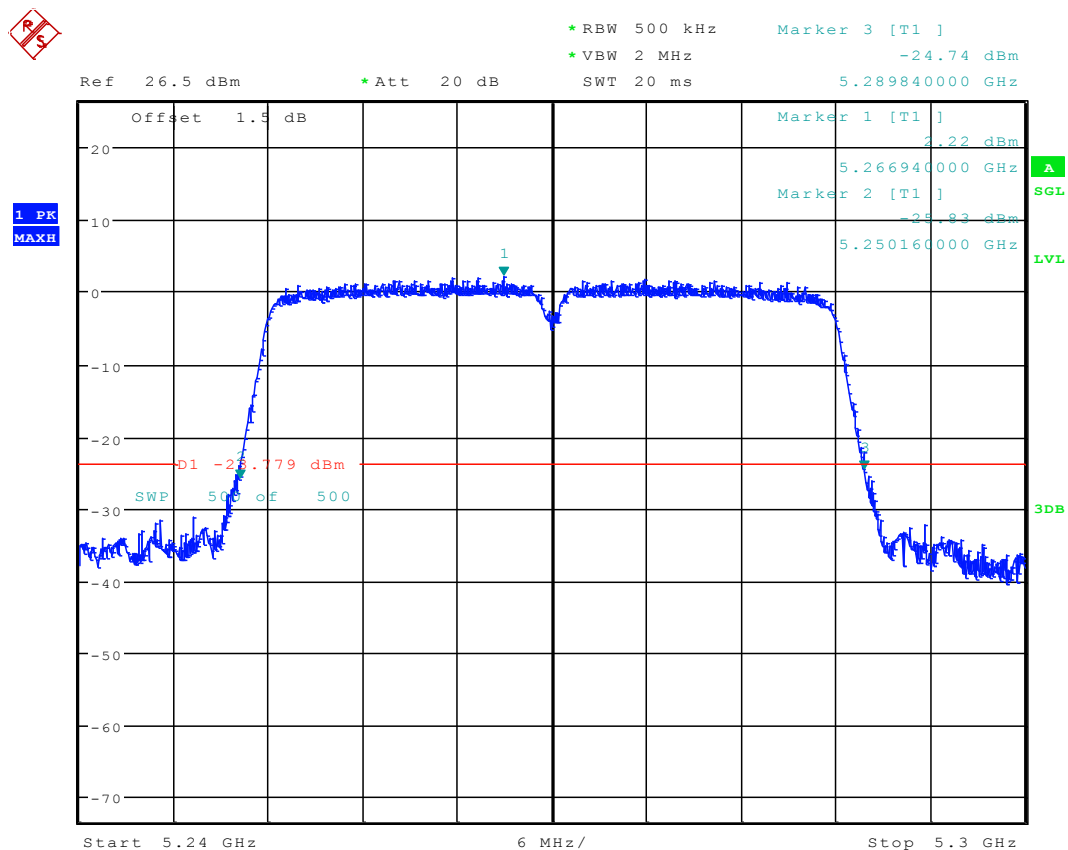


2.26 11AC40_46 ANT 1



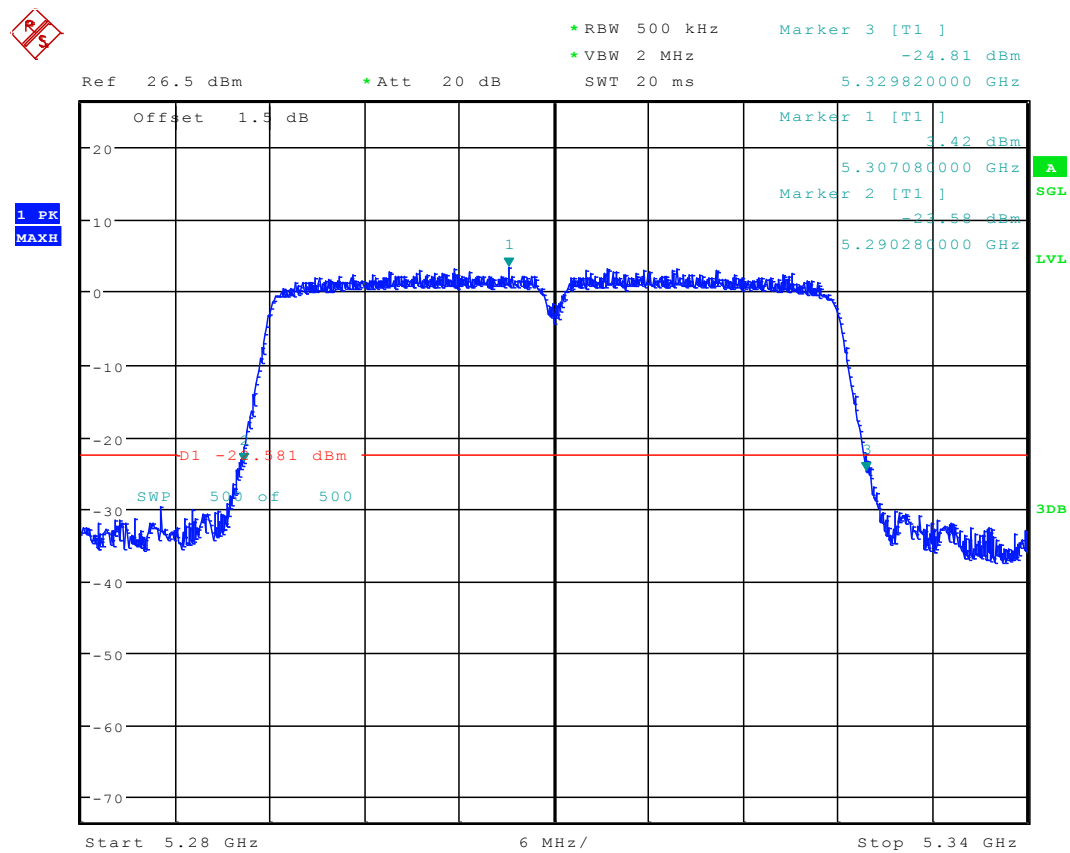
Date: 3.JAN.2017 14:42:18

2.27 11AC40_54 ANT 1



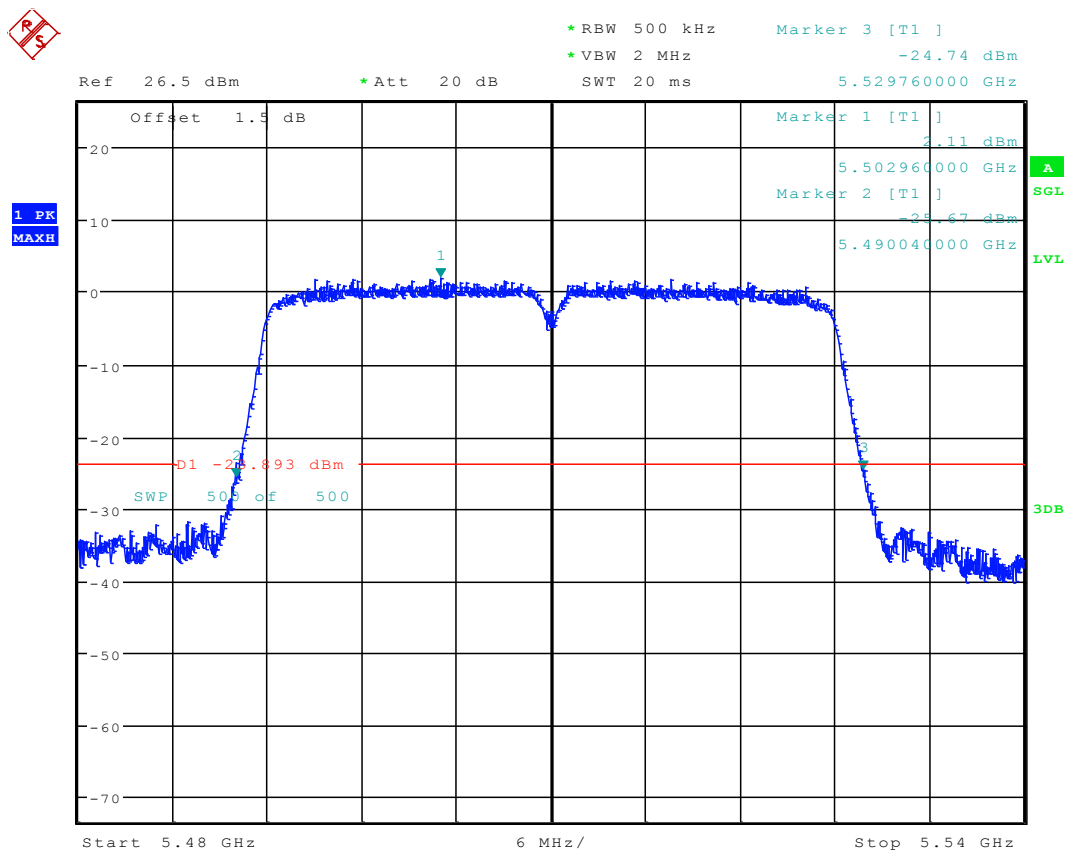
Date: 3.JAN.2017 15:04:41

2.28 11AC40_62 ANT 1



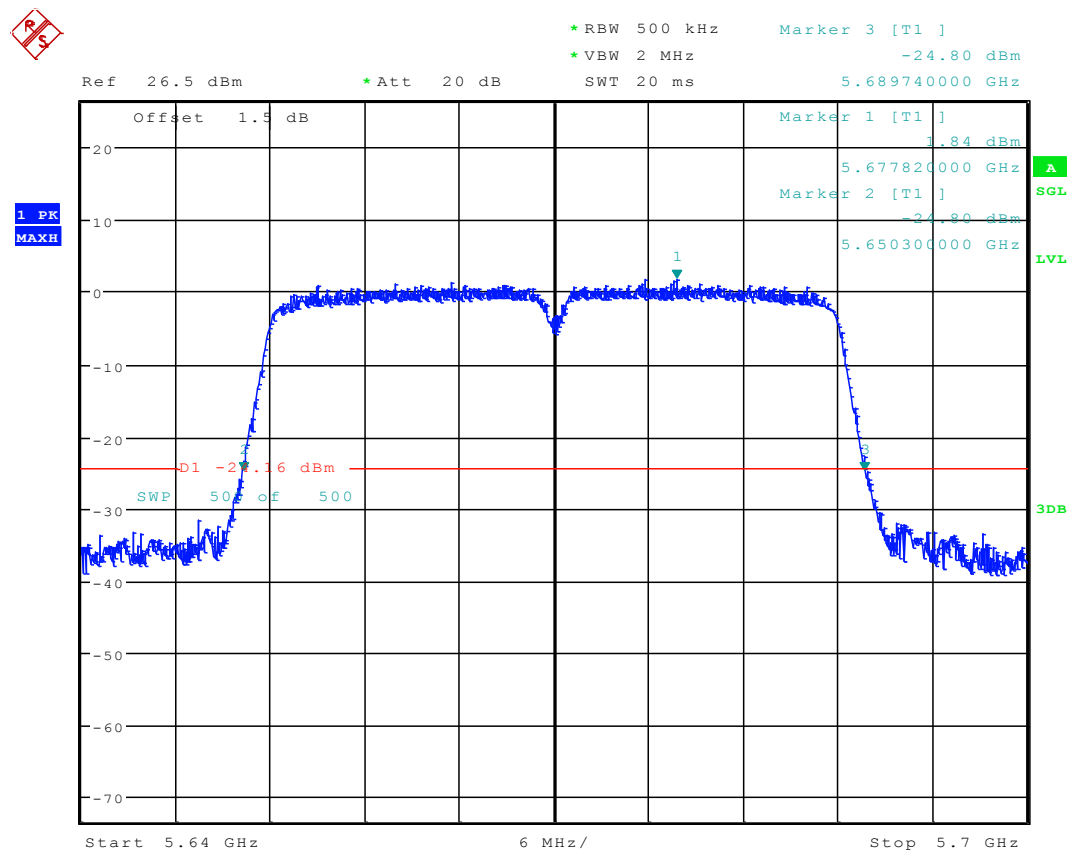
Date: 3.JAN.2017 14:50:53

2.29 11AC40_102 ANT 1



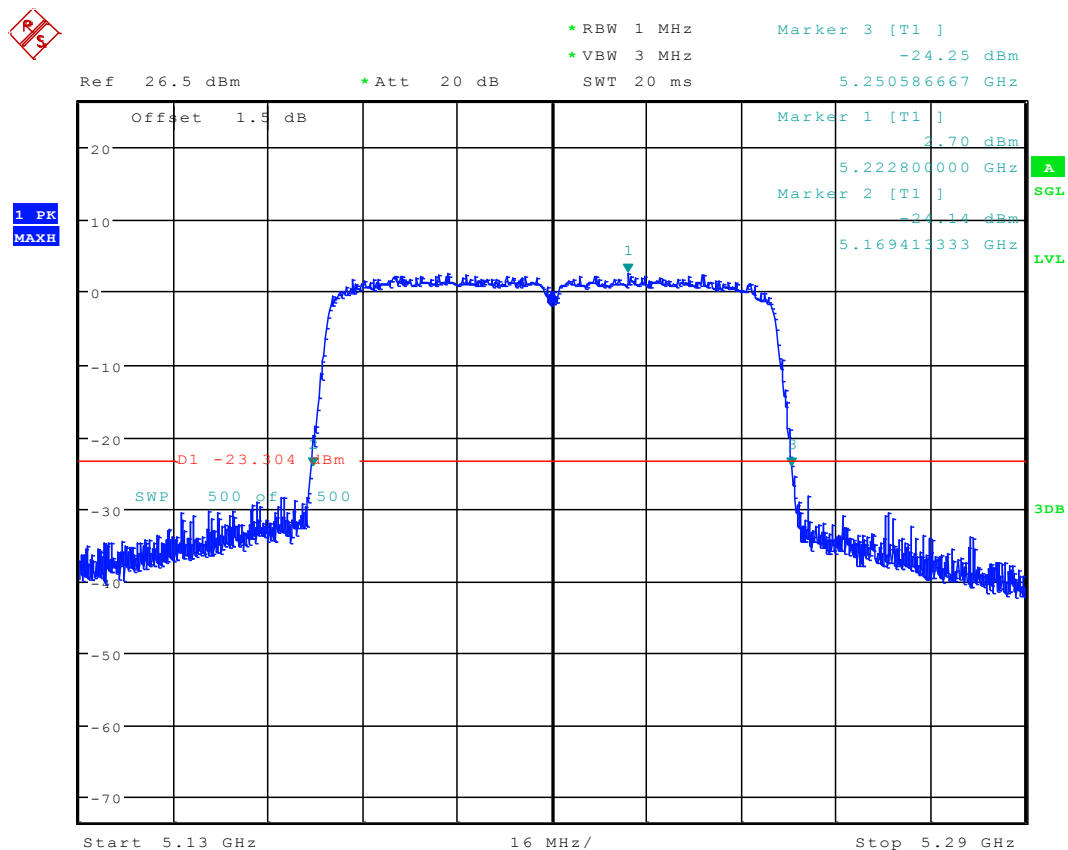
Date: 3.JAN.2017 15:12:36

2.30 11AC40_134 ANT 1



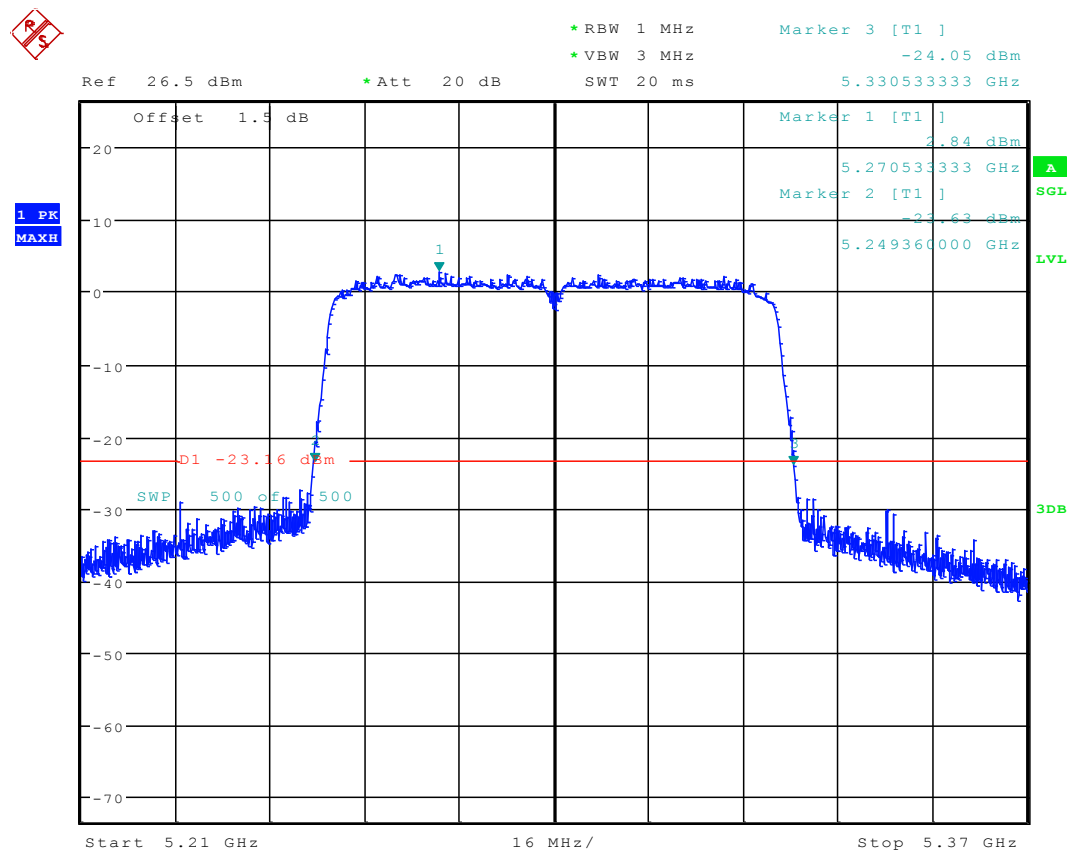
Date: 3.JAN.2017 15:15:51

2.31 11AC80_42 ANT 1

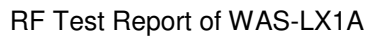


Date: 3.JAN.2017 15:19:45

2.32 11AC80_58 ANT 1



Date: 3.JAN.2017 15:37:39



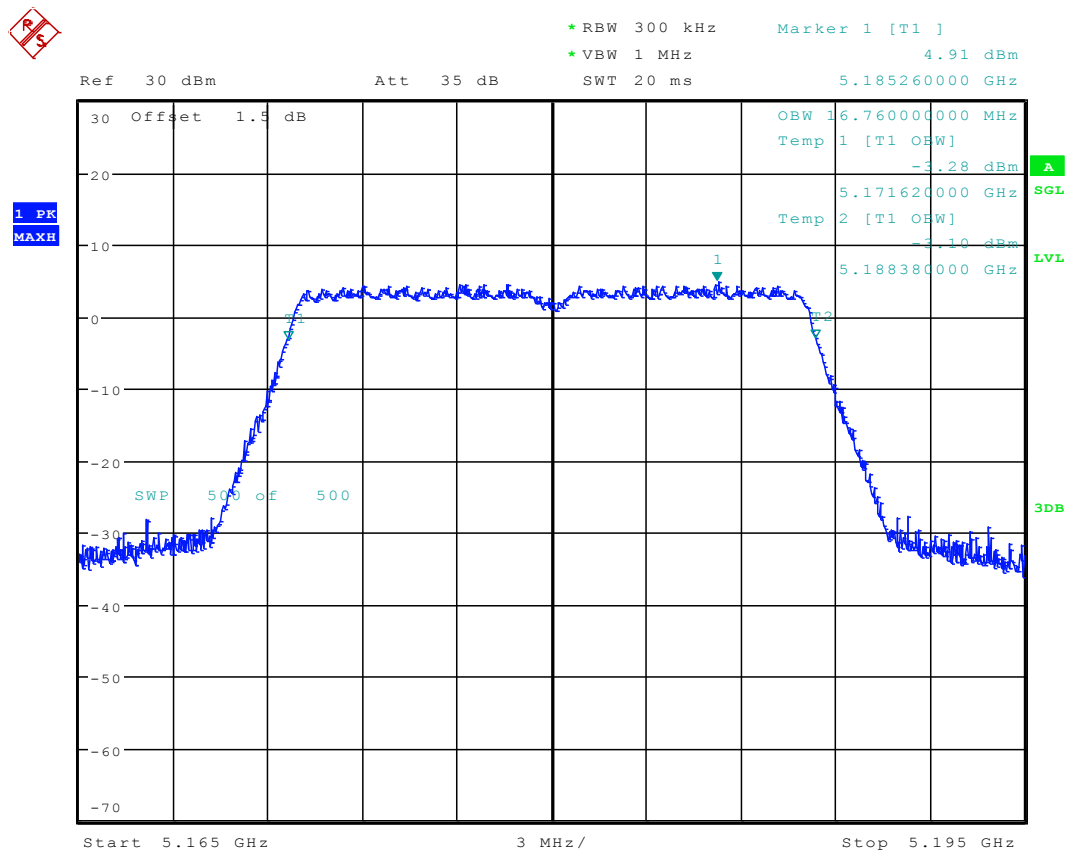
Appendix B Occupied Bandwidth (OBW)

3 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.76	PASS
	48	5240	ANT 1	16.76	PASS
	52	5260	ANT 1	16.78	PASS
	64	5320	ANT 1	16.76	PASS
	100	5500	ANT 1	16.78	PASS
	140	5700	ANT 1	16.78	PASS
11N20	36	5180	ANT 1	17.74	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.74	PASS
	64	5320	ANT 1	17.76	PASS
	100	5500	ANT 1	17.74	PASS
	140	5700	ANT 1	17.74	PASS
11N40	38	5190	ANT 1	36	PASS
	46	5230	ANT 1	35.96	PASS
	54	5270	ANT 1	36	PASS
	62	5310	ANT 1	35.98	PASS
	102	5510	ANT 1	35.96	PASS
	134	5670	ANT 1	35.98	PASS
11AC20	36	5180	ANT 1	17.74	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.76	PASS
	64	5320	ANT 1	17.76	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
11AC40	38	5190	ANT 1	35.94	PASS
	46	5230	ANT 1	35.94	PASS
	54	5270	ANT 1	35.96	PASS
	62	5310	ANT 1	35.94	PASS
	102	5510	ANT 1	35.94	PASS
	134	5670	ANT 1	35.94	PASS
11AC80	42	5210	ANT 1	74.88	PASS
	58	5290	ANT 1	74.96	PASS
	106	5530	ANT 1	74.88	PASS

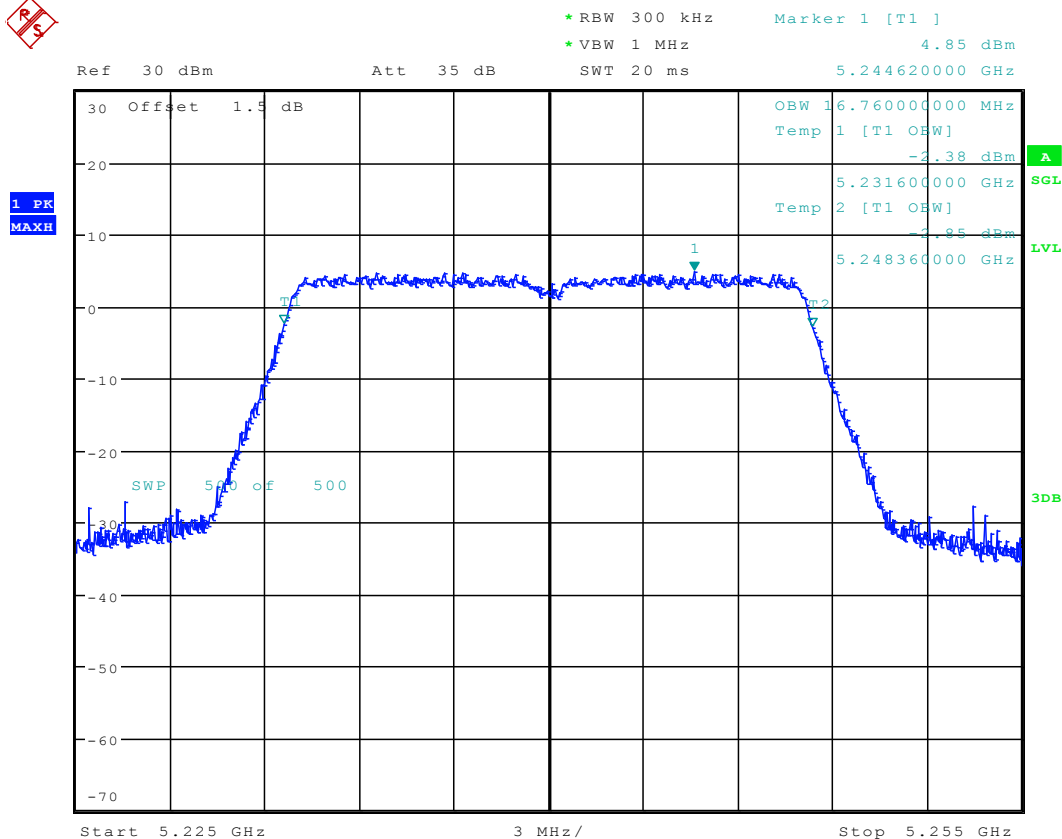
4 Test Plot

4.1 11A20_36 ANT 1



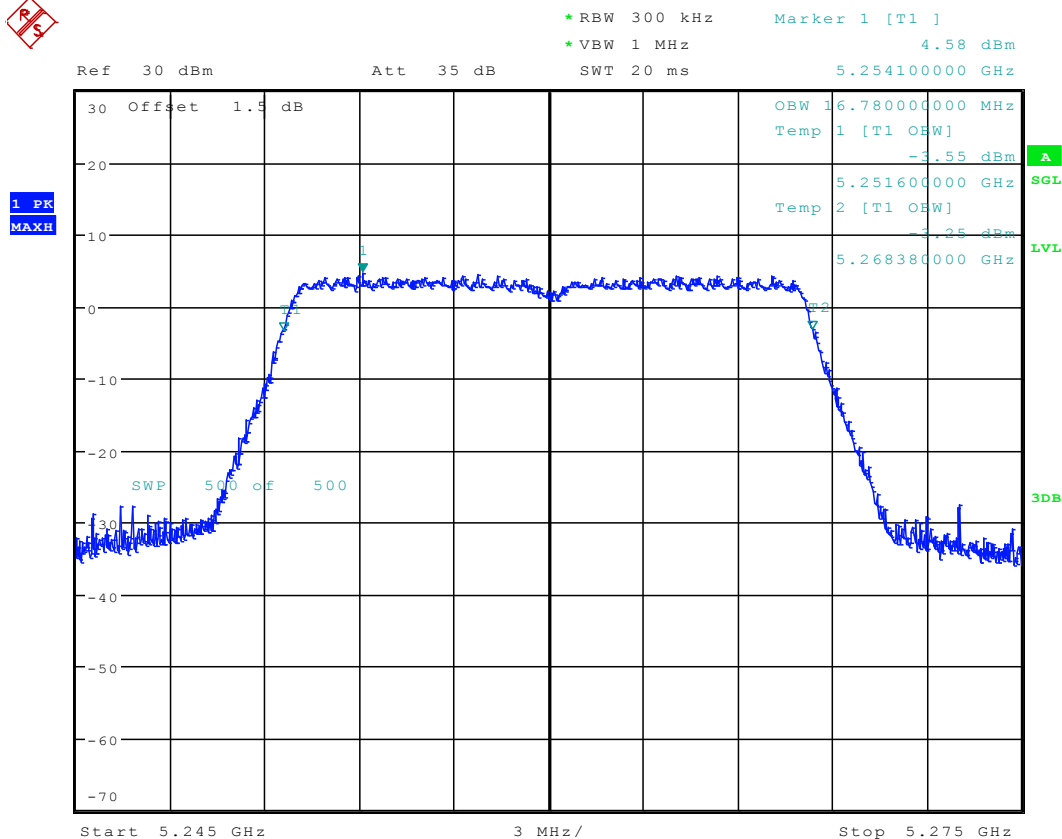
Date: 3.JAN.2017 12:50:46

4.2 11A20_48 ANT 1



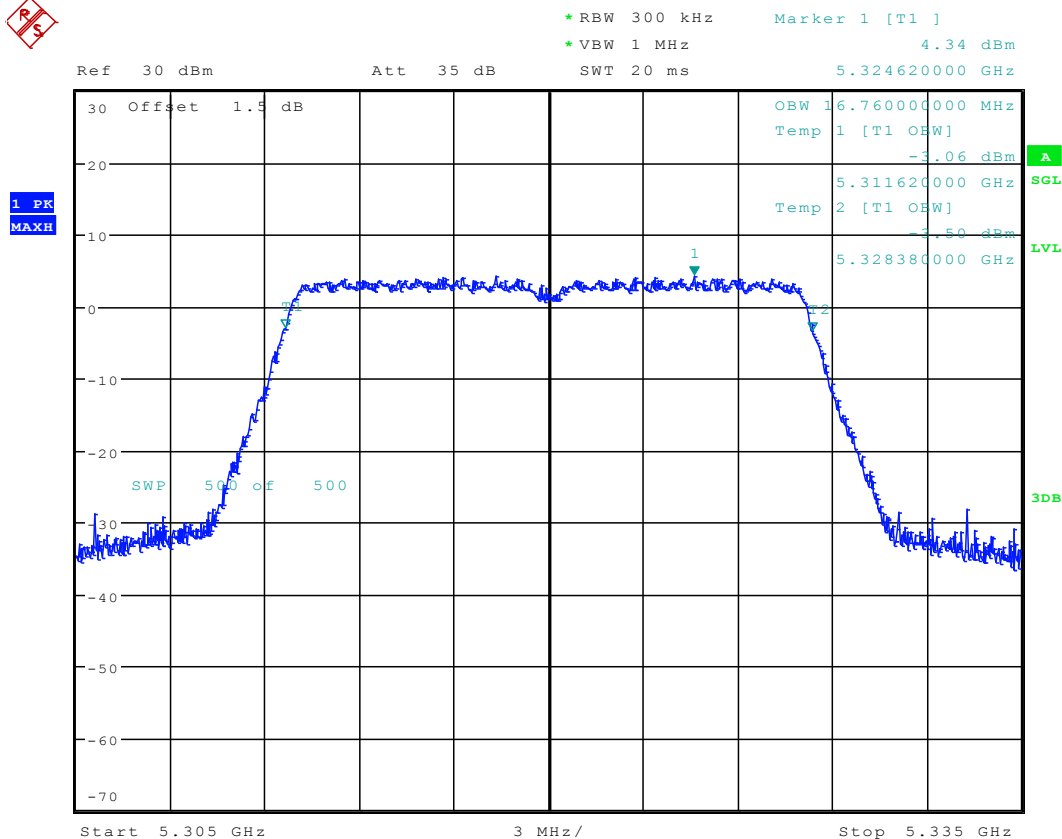
Date: 3.JAN.2017 12:57:11

4.3 11A20_52 ANT 1



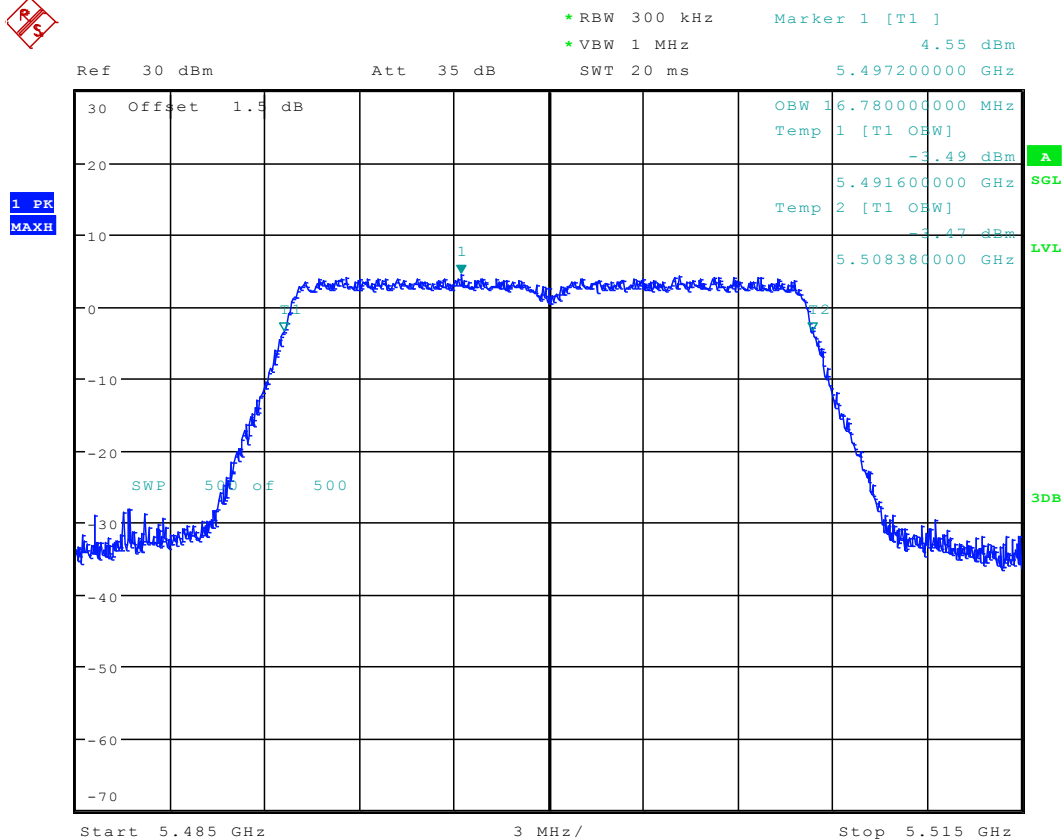
Date: 3.JAN.2017 13:02:41

4.4 11A20_64 ANT 1



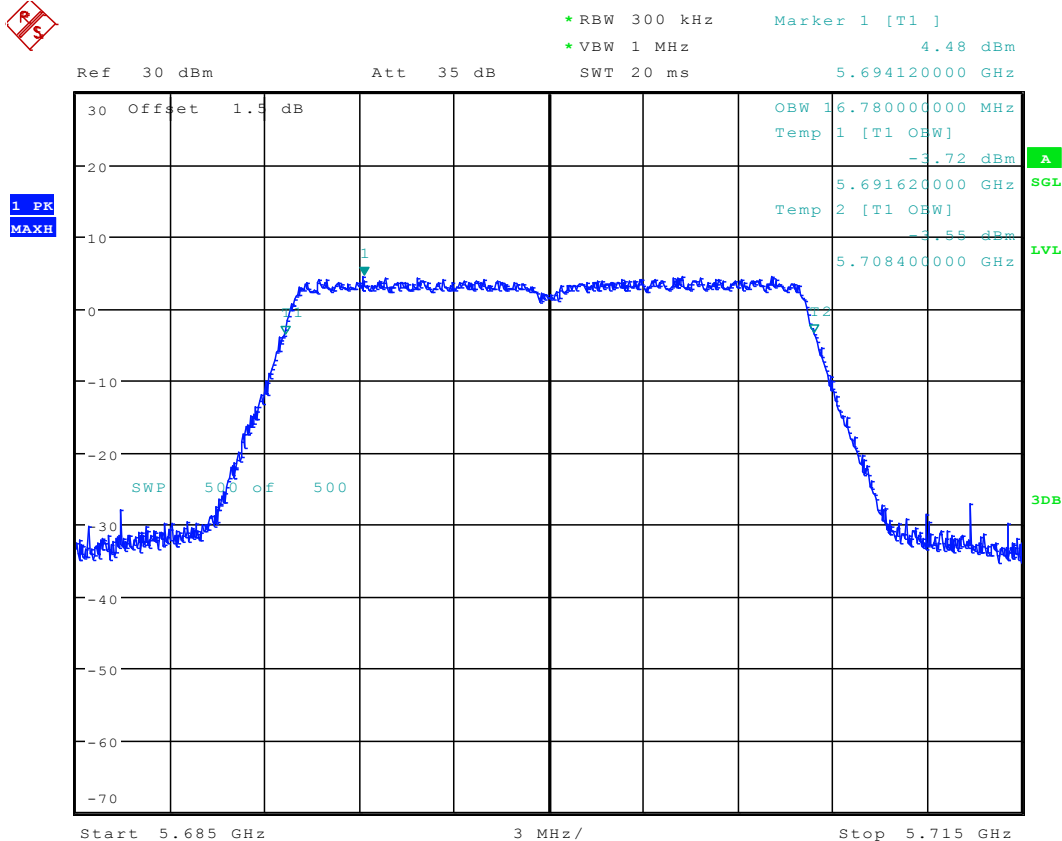
Date: 3.JAN.2017 13:09:26

4.5 11A20_100 ANT 1



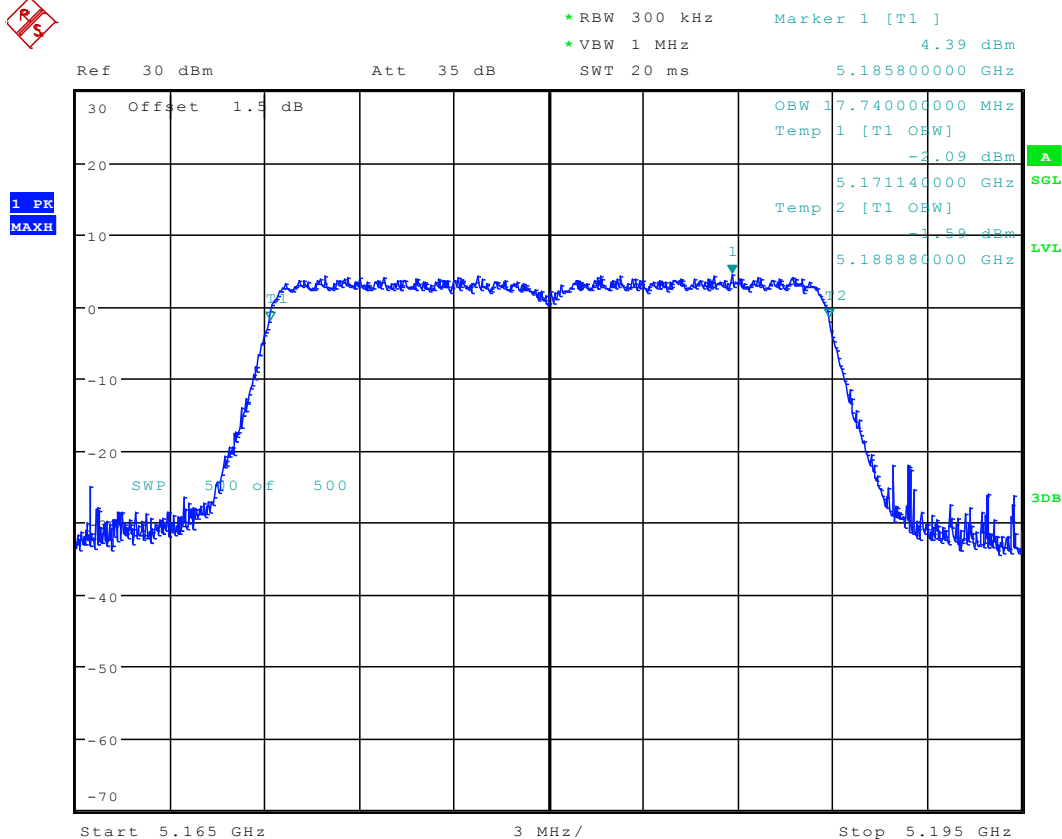
Date: 3.JAN.2017 13:14:58

4.6 11A20_140 ANT 1



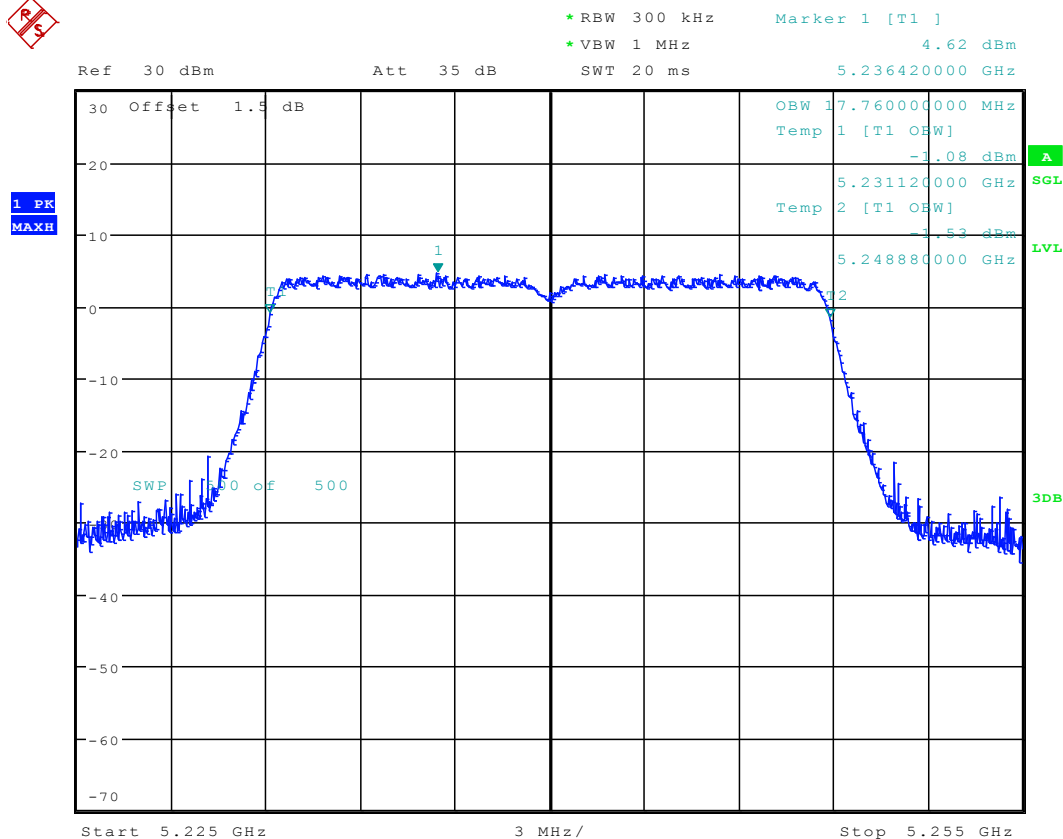
Date: 3.JAN.2017 13:23:38

4.7 11N20_36 ANT 1



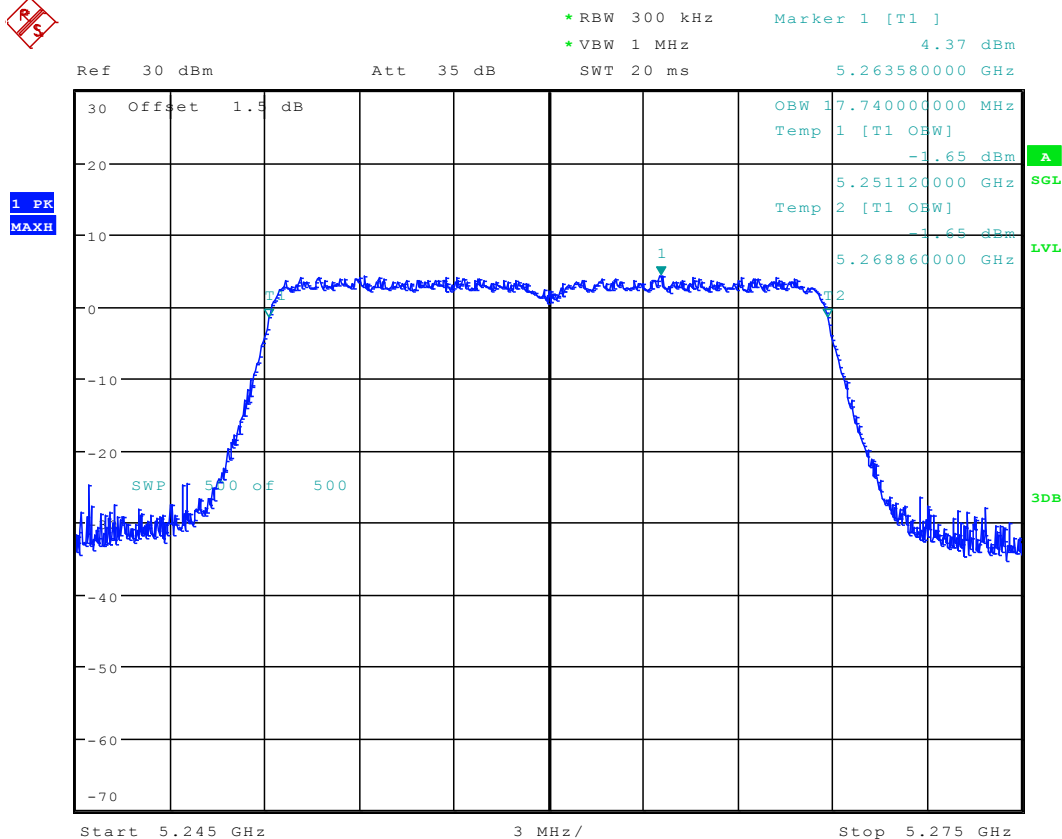
Date: 3.JAN.2017 13:30:52

4.8 11N20_48 ANT 1



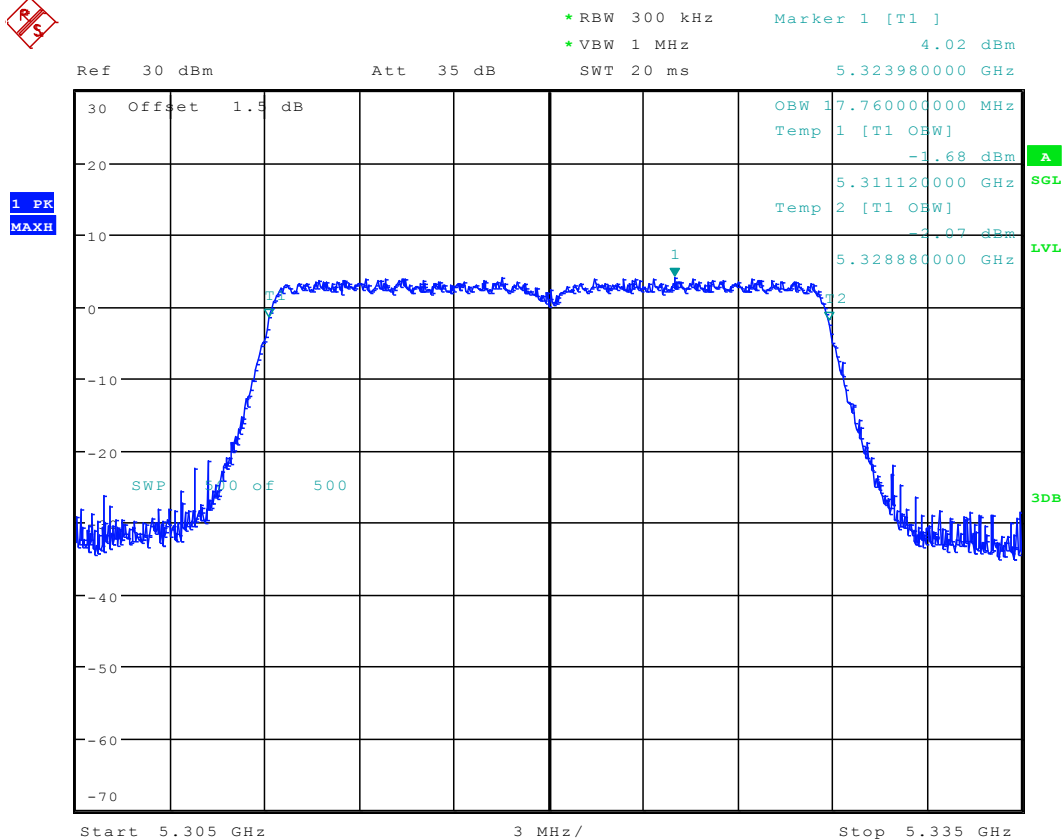
Date: 3.JAN.2017 13:36:30

4.9 11N20_52 ANT 1



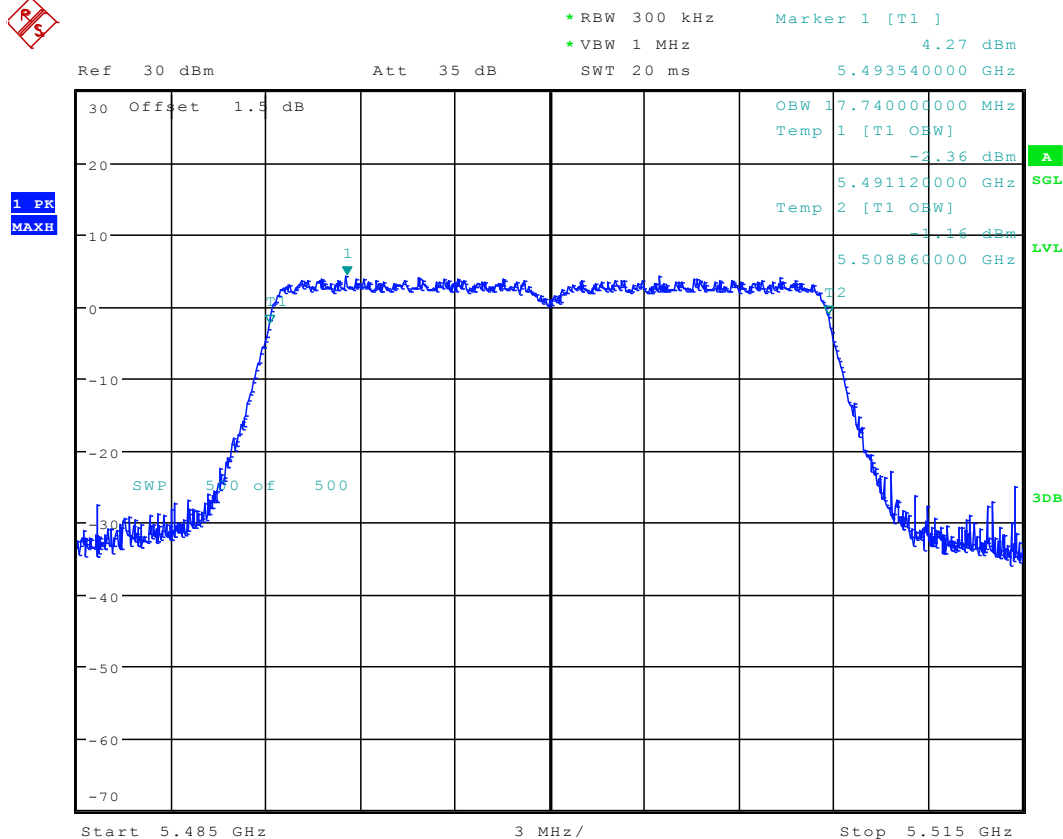
Date: 3.JAN.2017 13:41:50

4.10 11N20_64 ANT 1



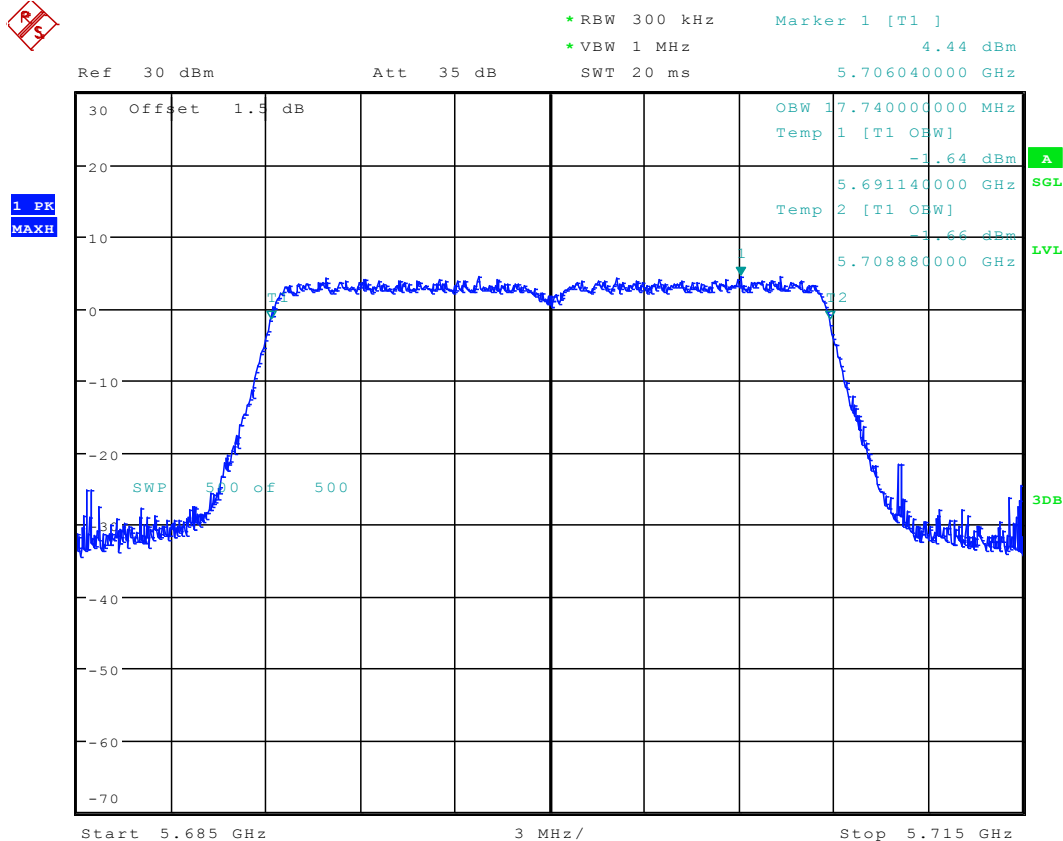
Date: 3.JAN.2017 13:47:09

4.11 11N20_100 ANT 1



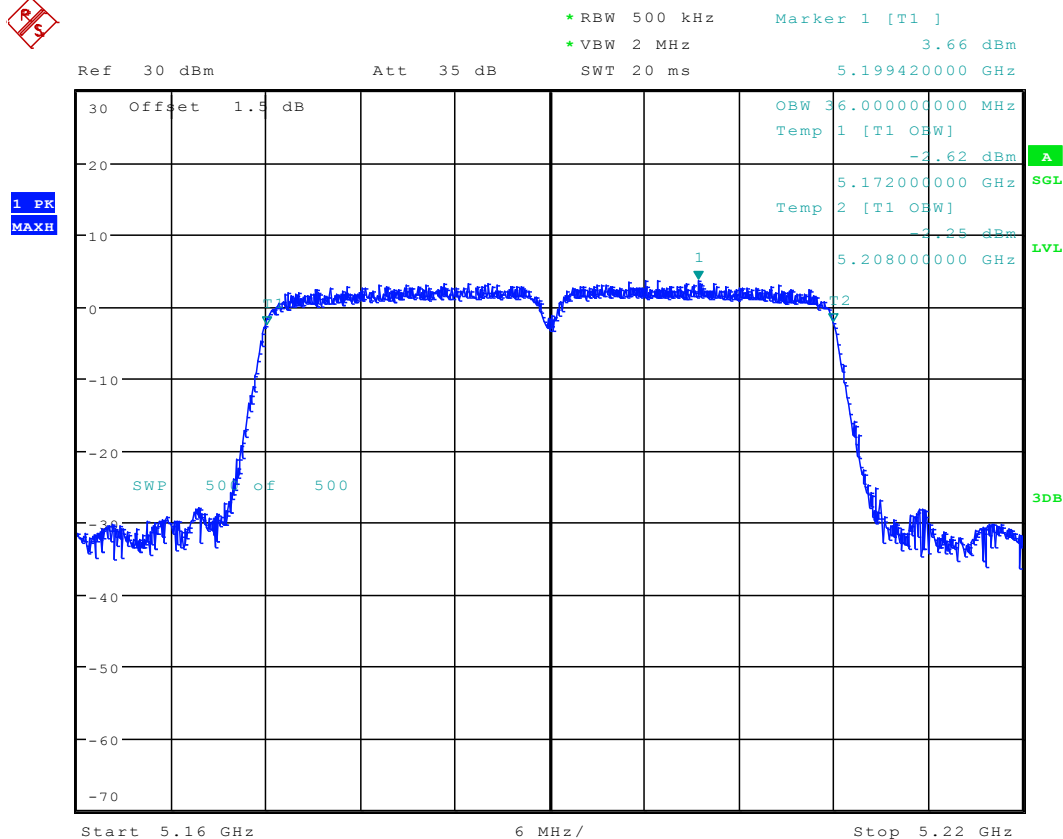
Date: 3.JAN.2017 13:52:33

4.12 11N20_140 ANT 1



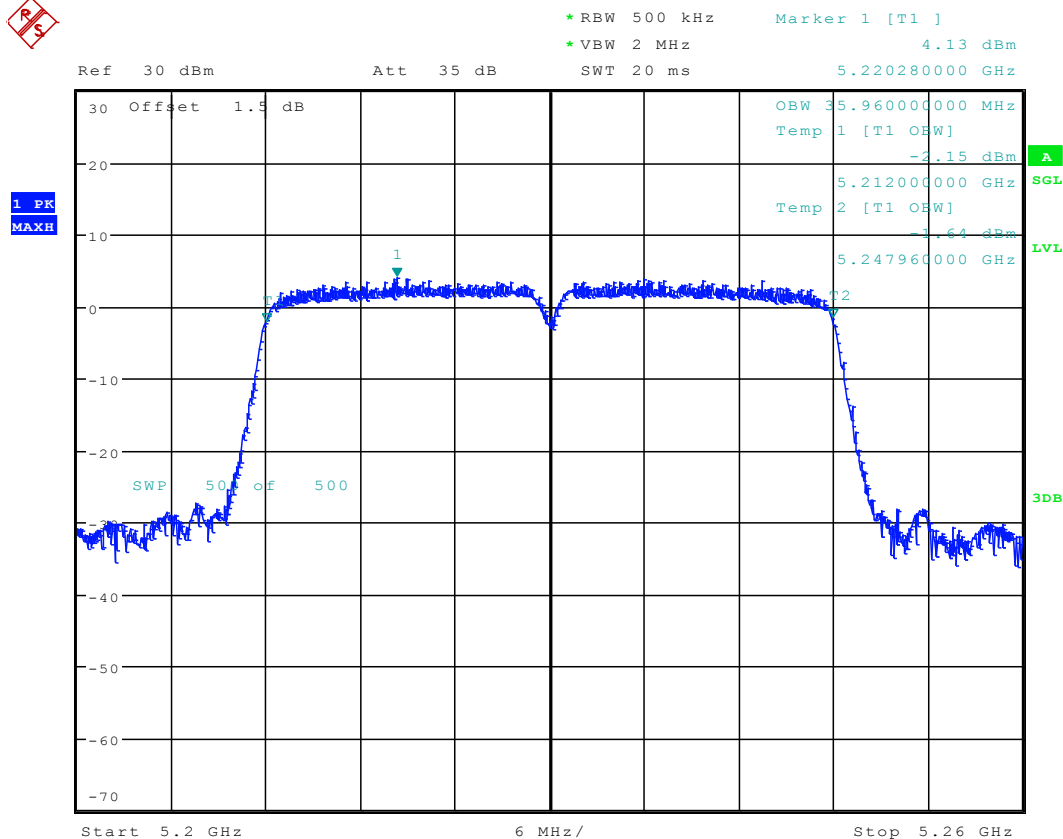
Date: 3.JAN.2017 13:57:25

4.13 11N40_38 ANT 1



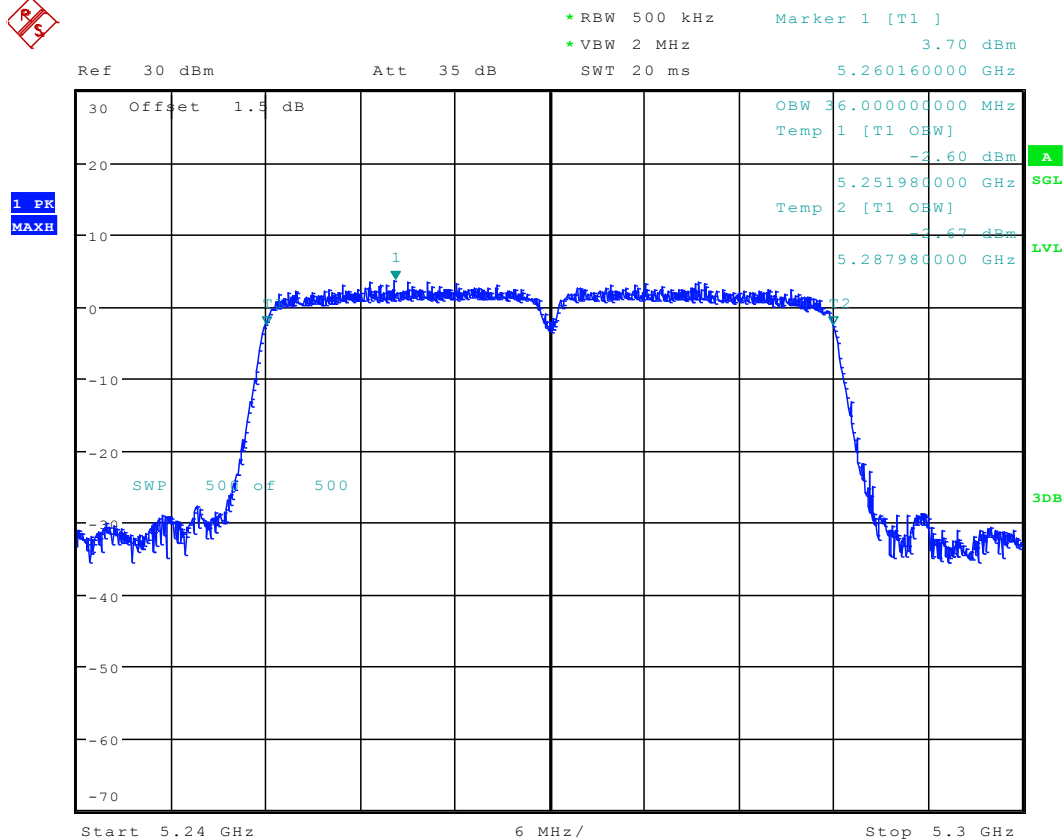
Date: 3.JAN.2017 14:03:59

4.14 11N40_46 ANT 1



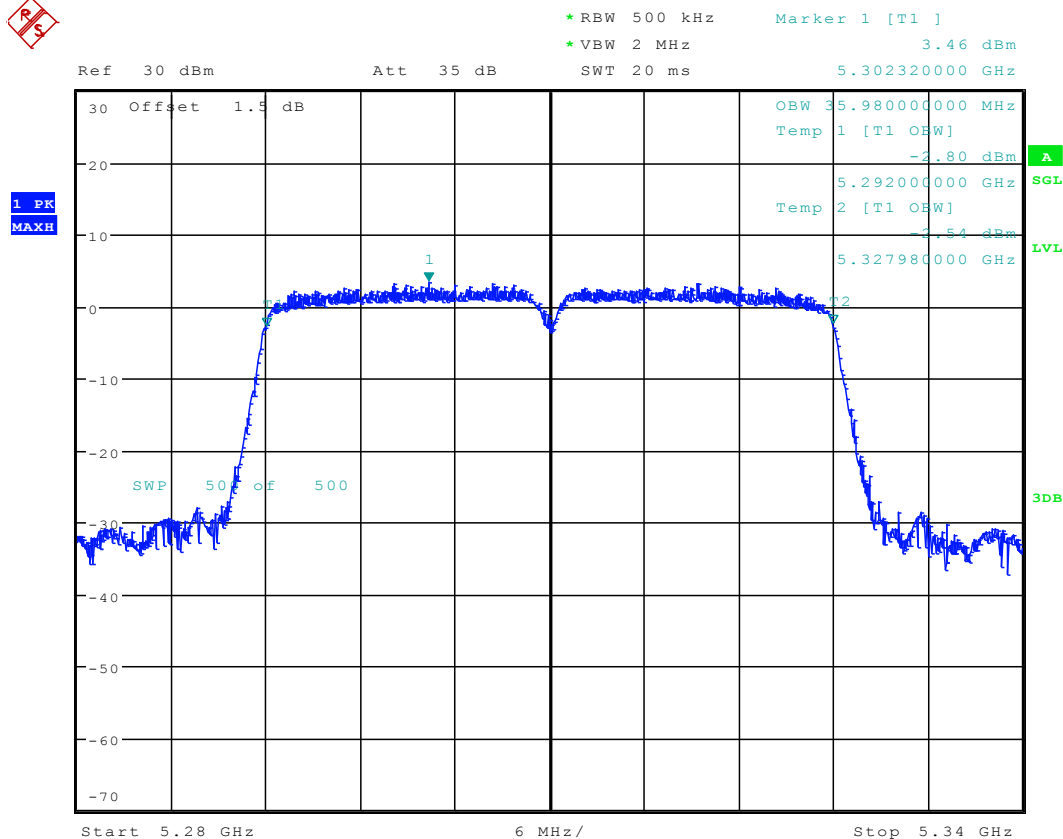
Date: 3.JAN.2017 14:11:13

4.15 11N40_54 ANT 1



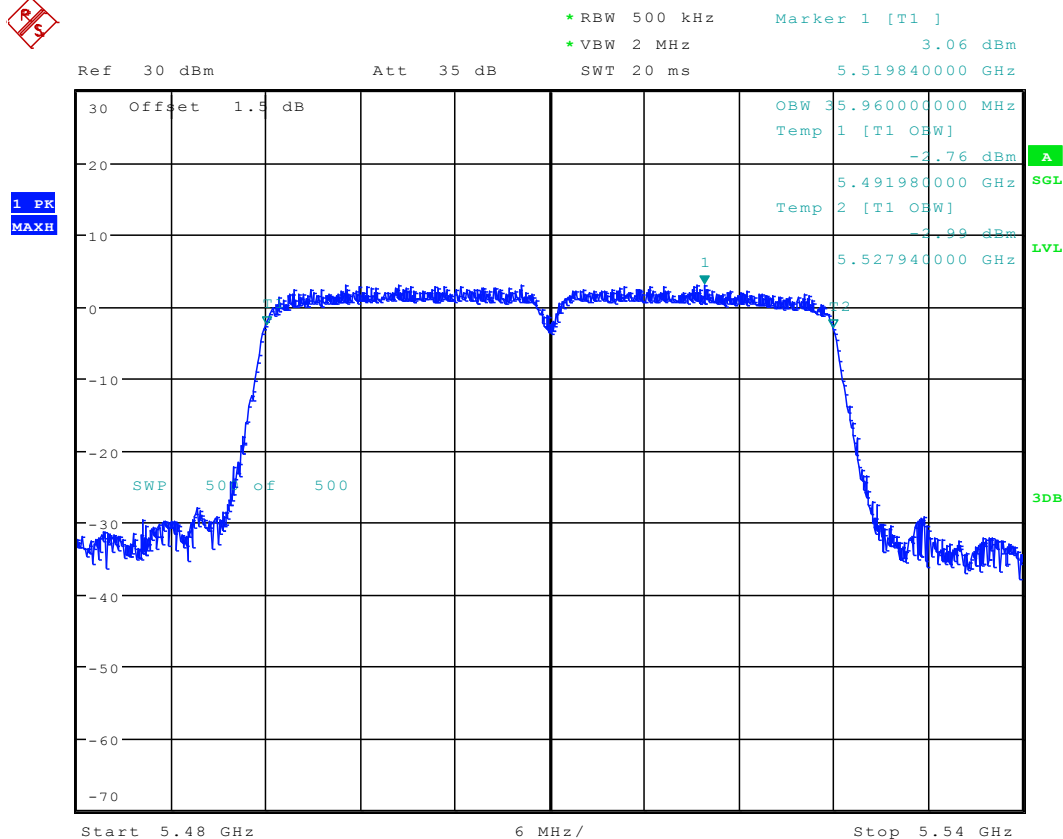
Date: 3.JAN.2017 14:16:47

4.16 11N40_62 ANT 1



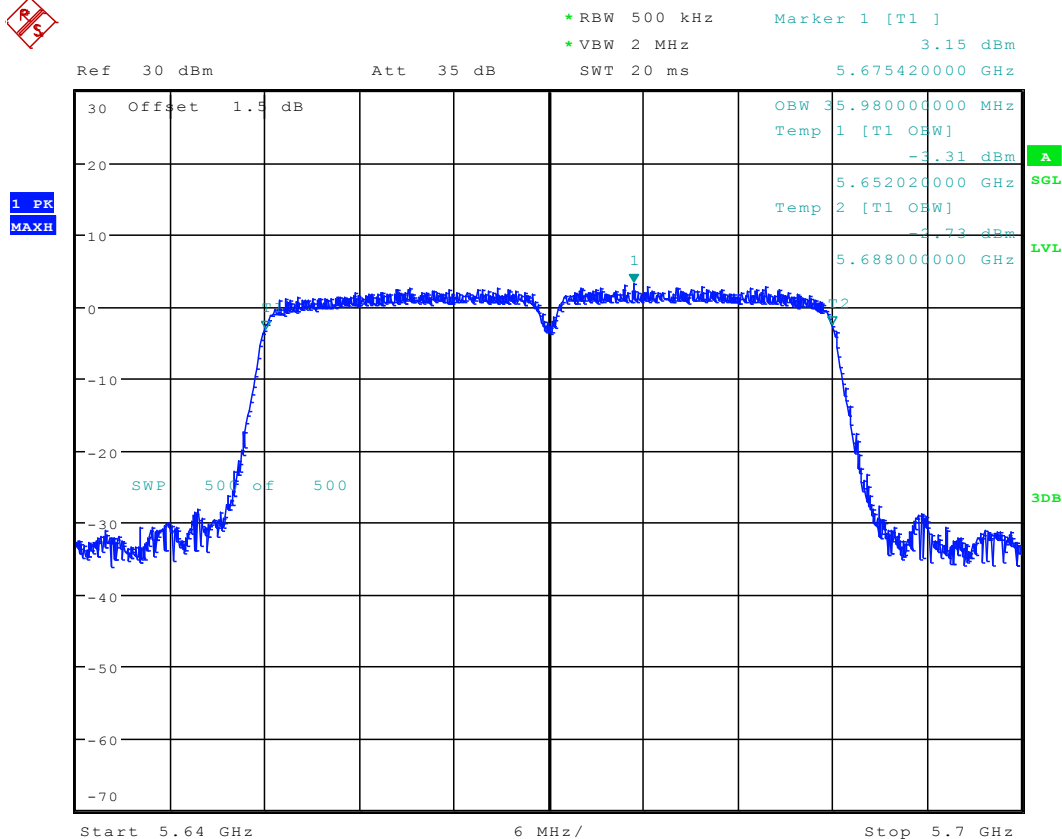
Date: 3.JAN.2017 14:23:57

4.17 11N40_102 ANT 1

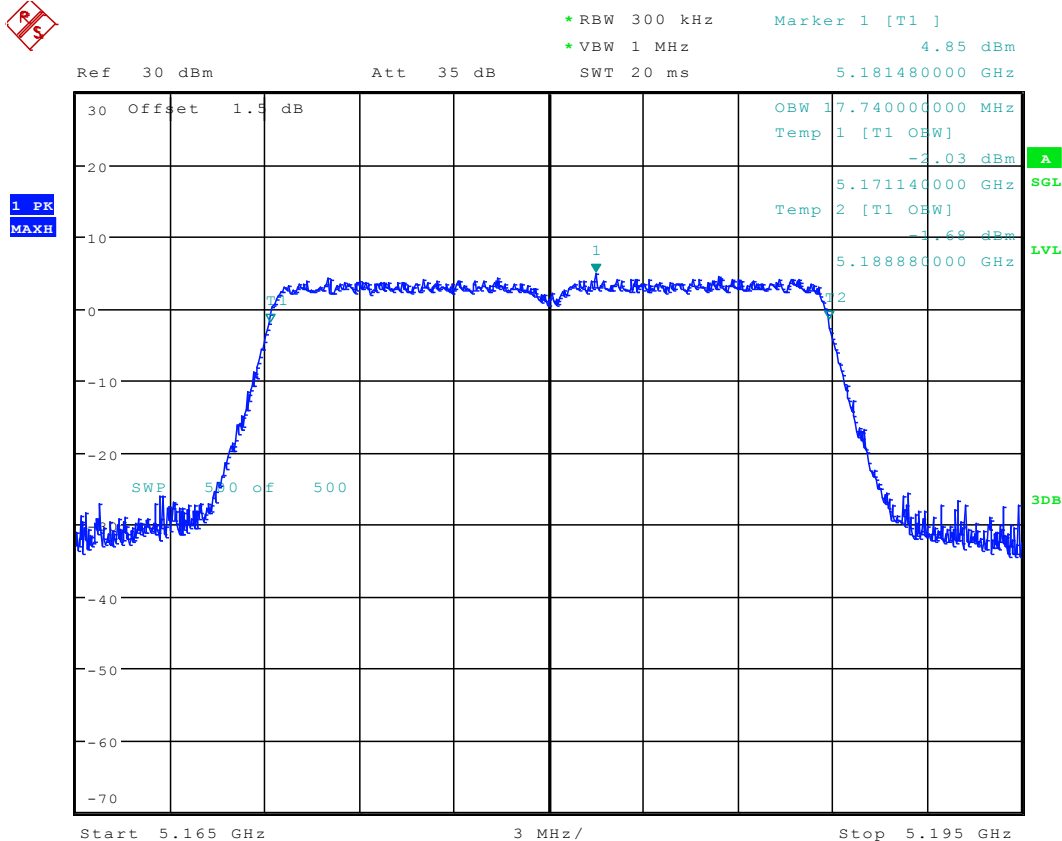
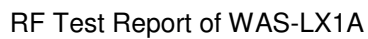


Date: 3.JAN.2017 14:28:51

4.18 11N40_134 ANT 1

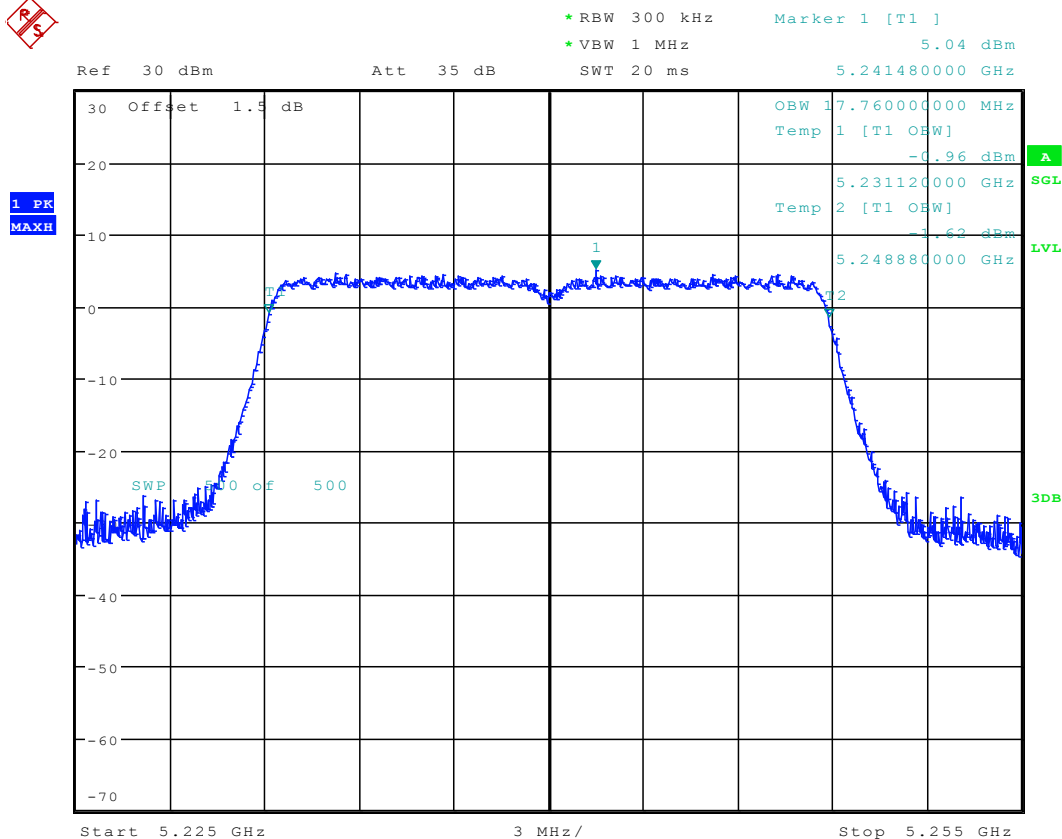


Date: 3.JAN.2017 14:33:29



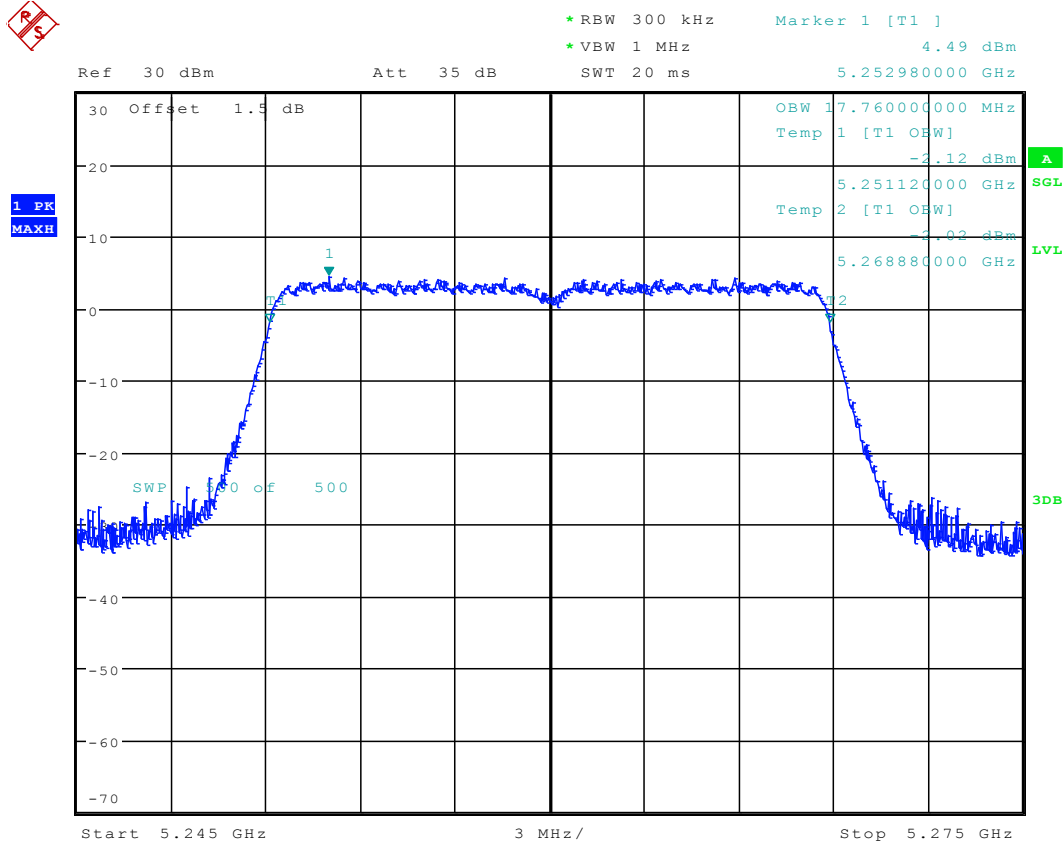
Date: 3.JAN.2017 12:17:25

4.20 11AC20_48 ANT 1



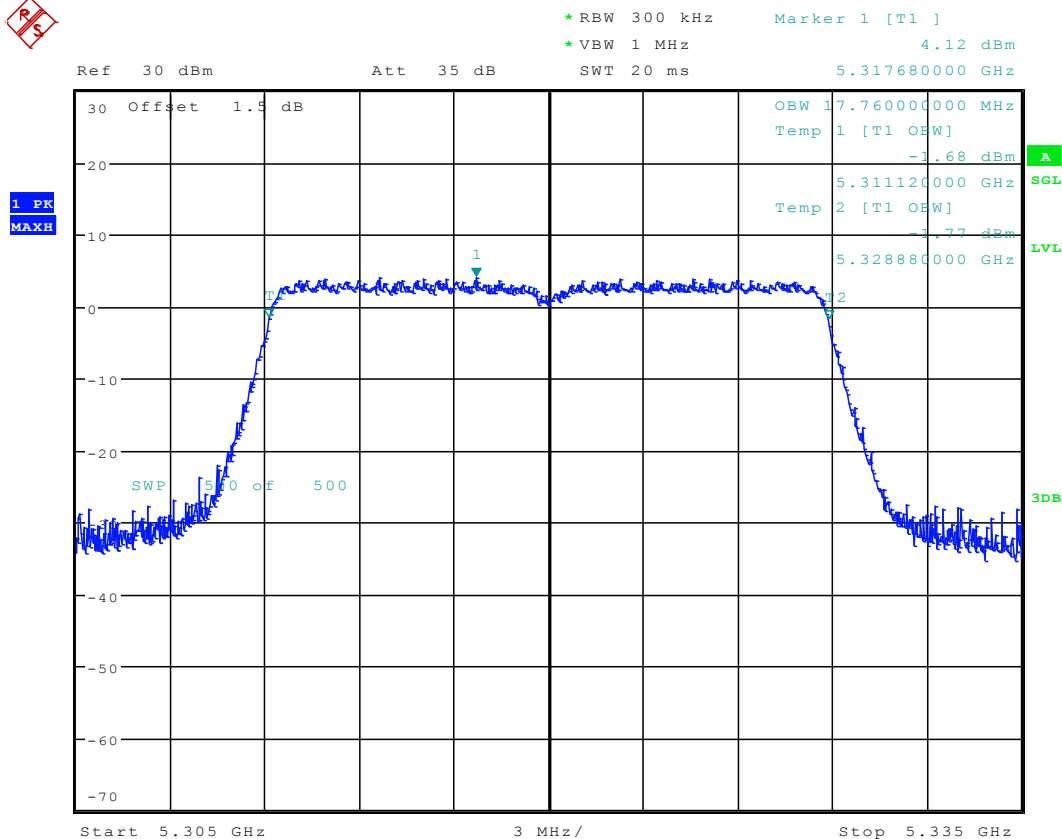
Date: 3.JAN.2017 12:22:26

4.21 11AC20_52 ANT 1



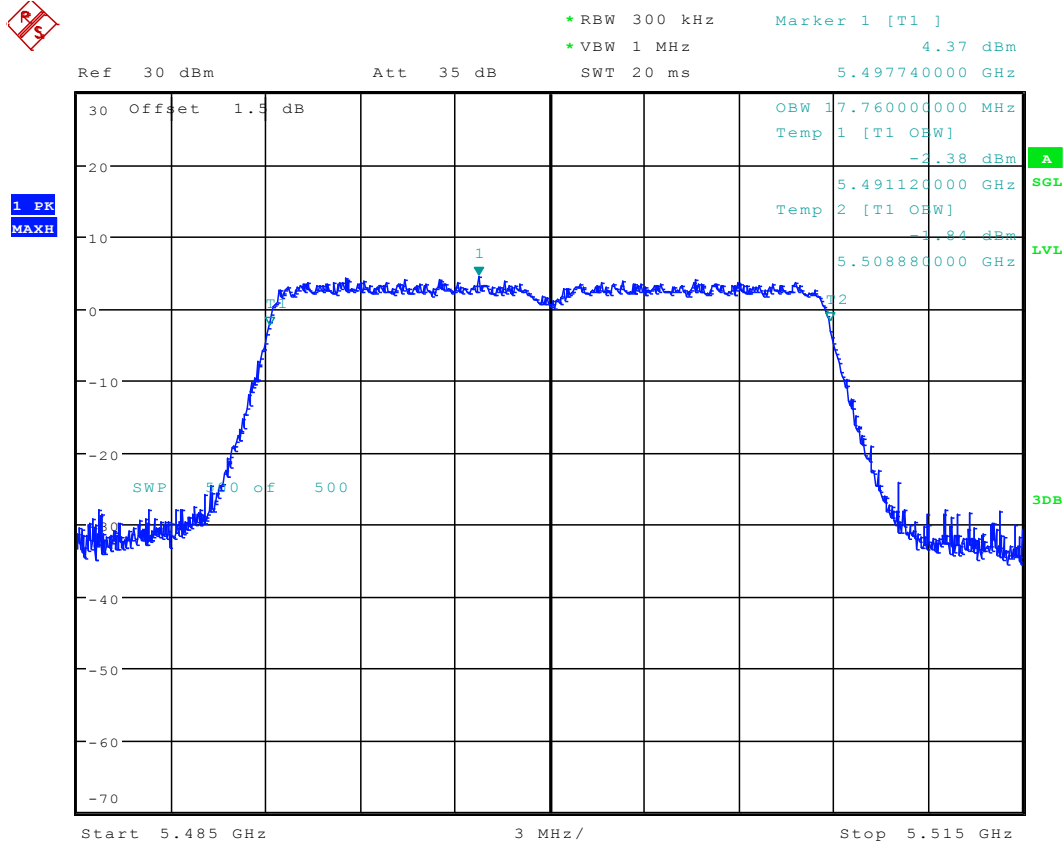
Date: 3.JAN.2017 12:28:06

4.22 11AC20_64 ANT 1



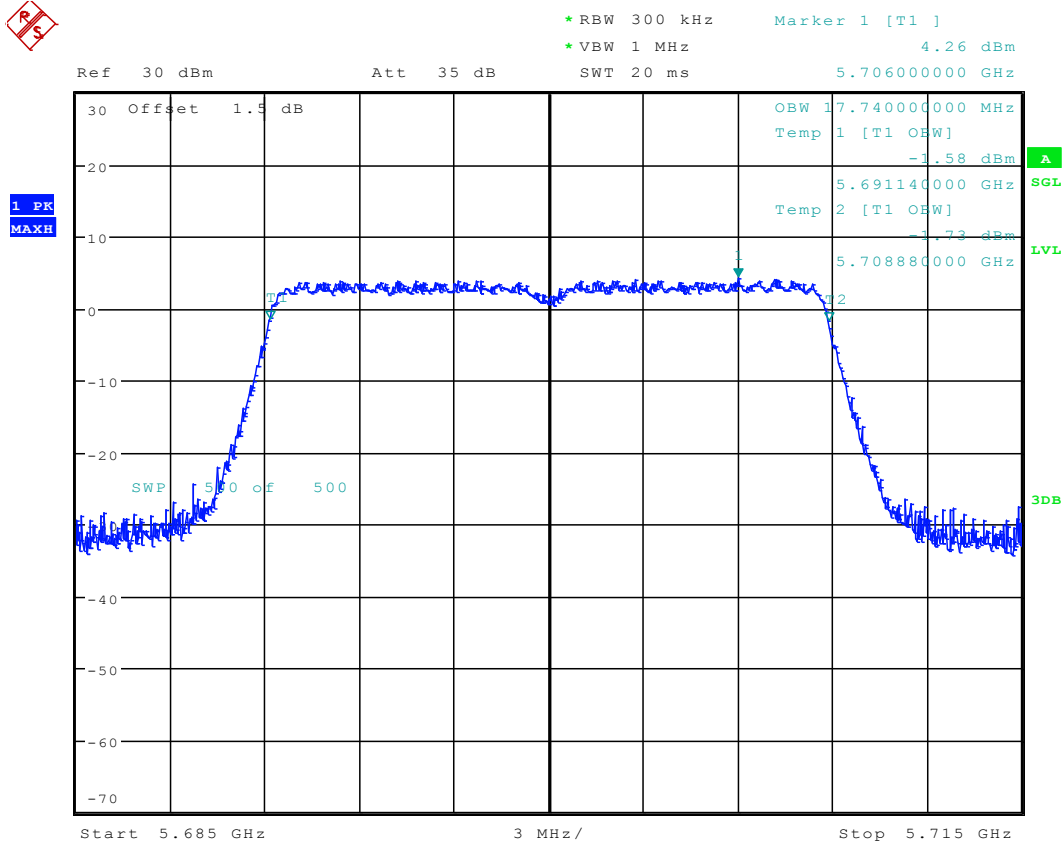
Date: 3.JAN.2017 12:32:51

4.23 11AC20_100 ANT 1



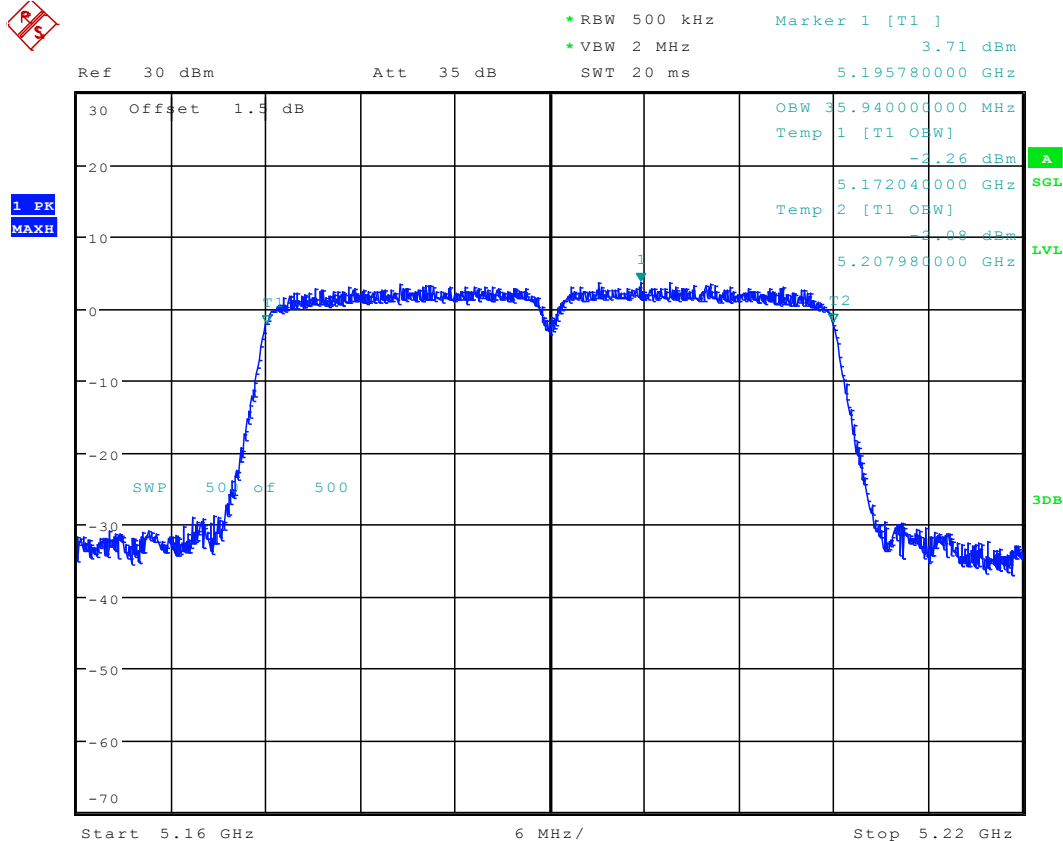
Date: 3.JAN.2017 12:38:33

4.24 11AC20_140 ANT 1



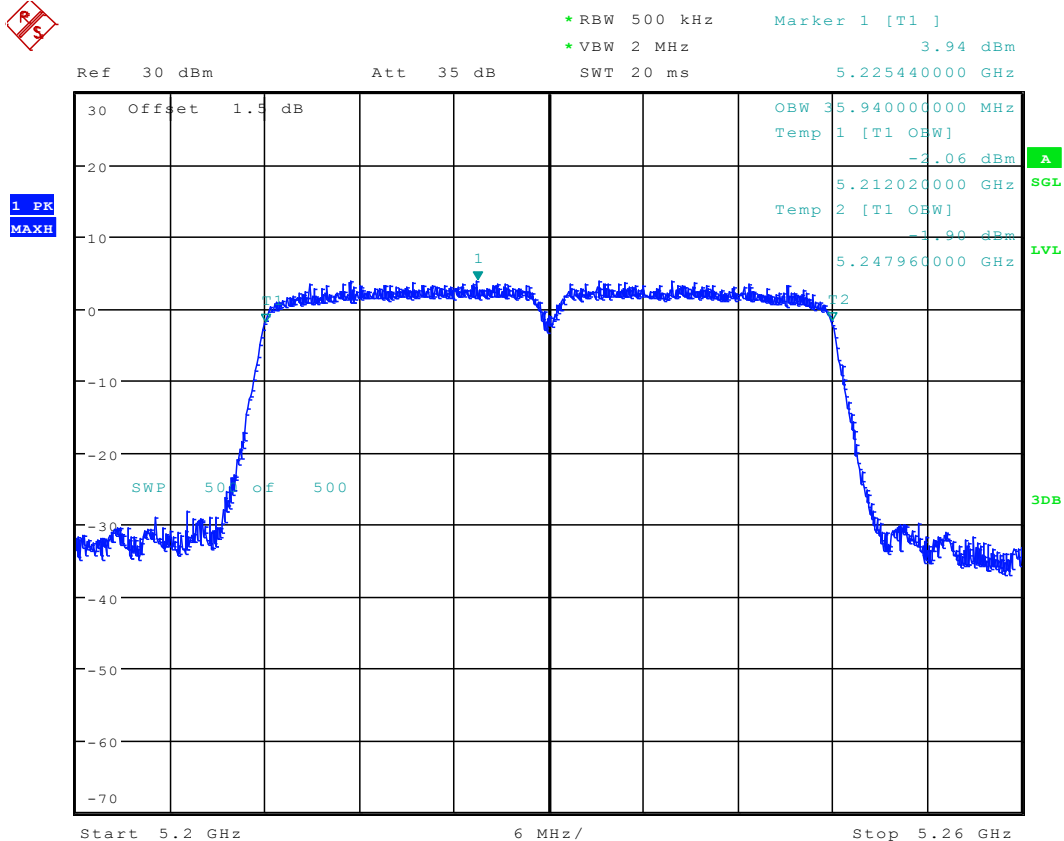
Date: 3.JAN.2017 12:44:26

4.25 11AC40_38 ANT 1



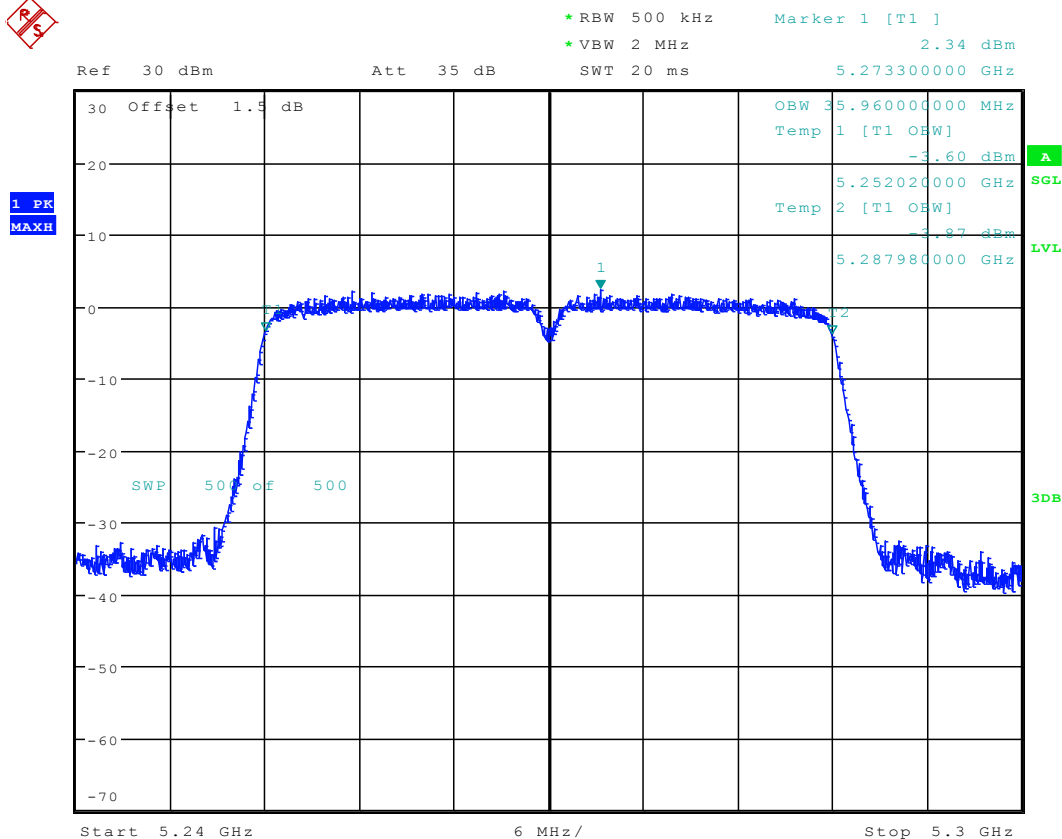
Date: 3.JAN.2017 14:37:10

4.26 11AC40_46 ANT 1



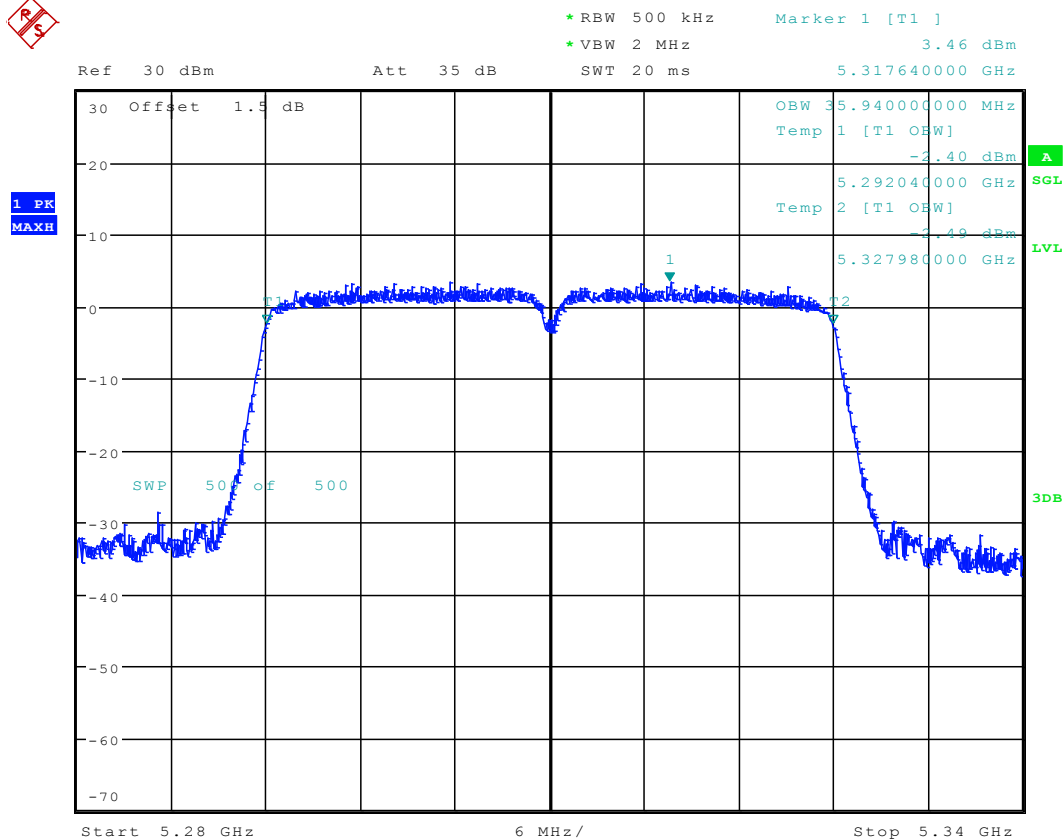
Date: 3.JAN.2017 14:43:09

4.27 11AC40_54 ANT 1

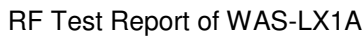


Date: 3.JAN.2017 15:05:30

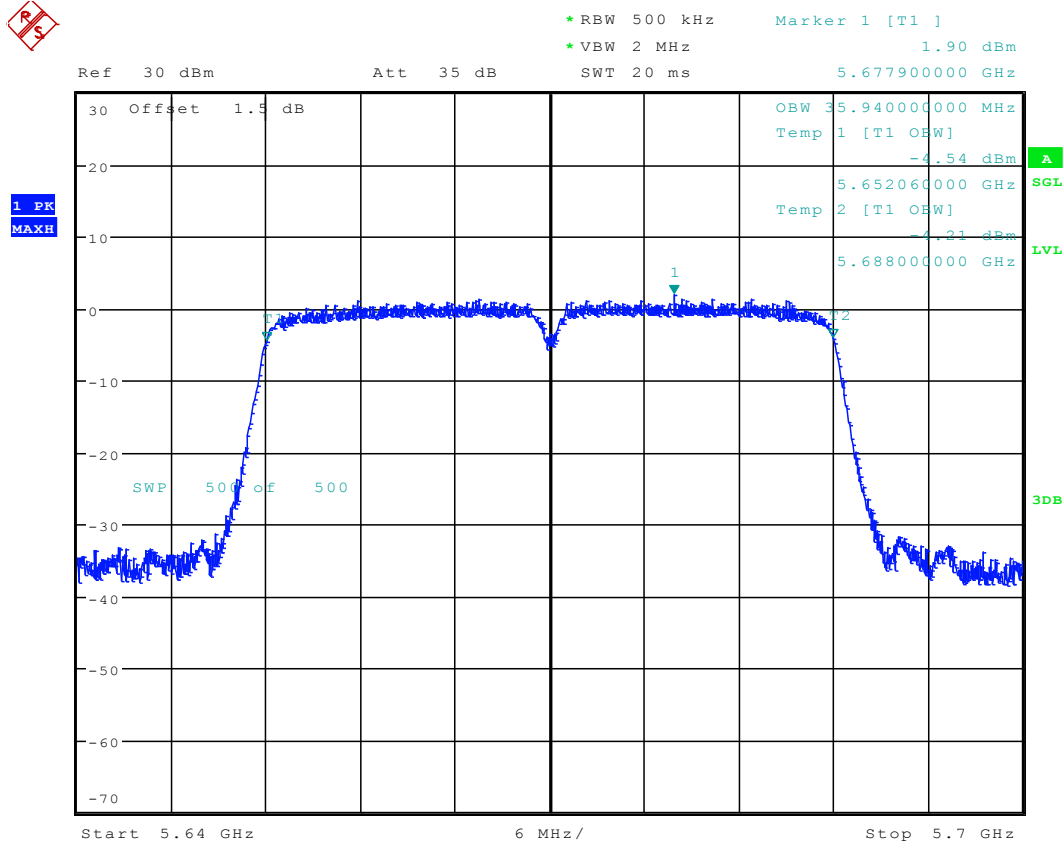
4.28 11AC40_62 ANT 1



Date: 3.JAN.2017 14:51:42

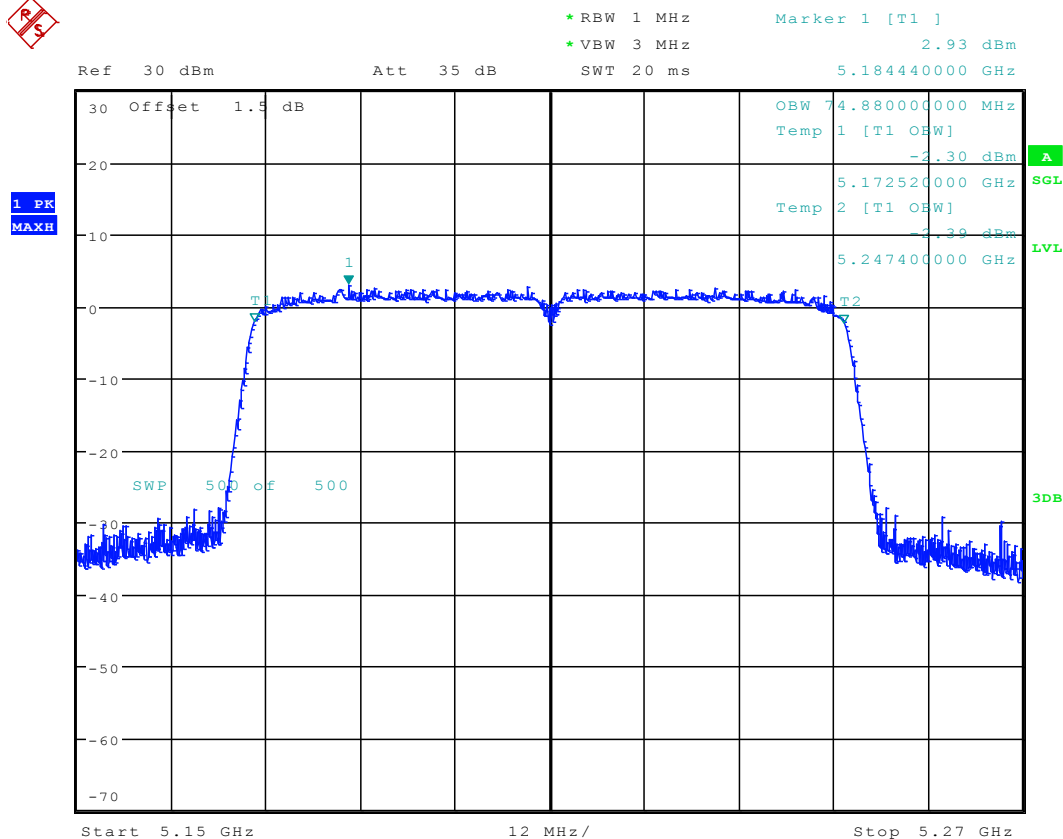


4.30 11AC40_134 ANT 1



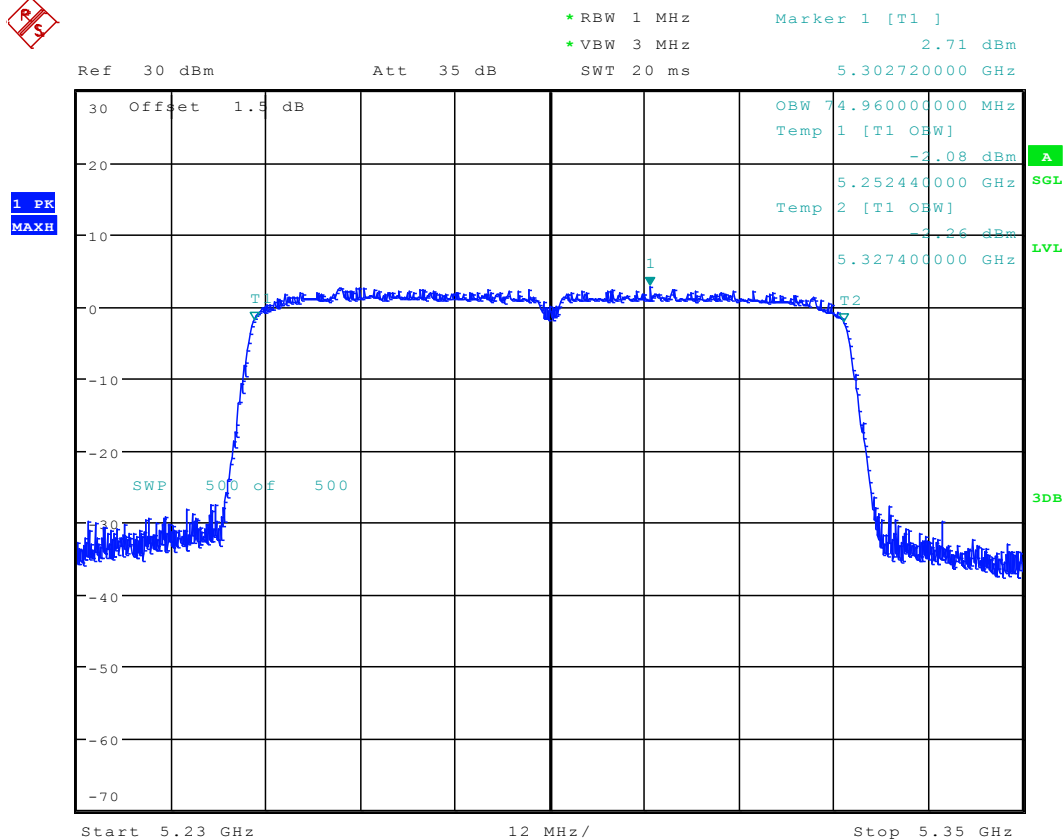
Date: 3.JAN.2017 15:16:41

4.31 11AC80_42 ANT 1



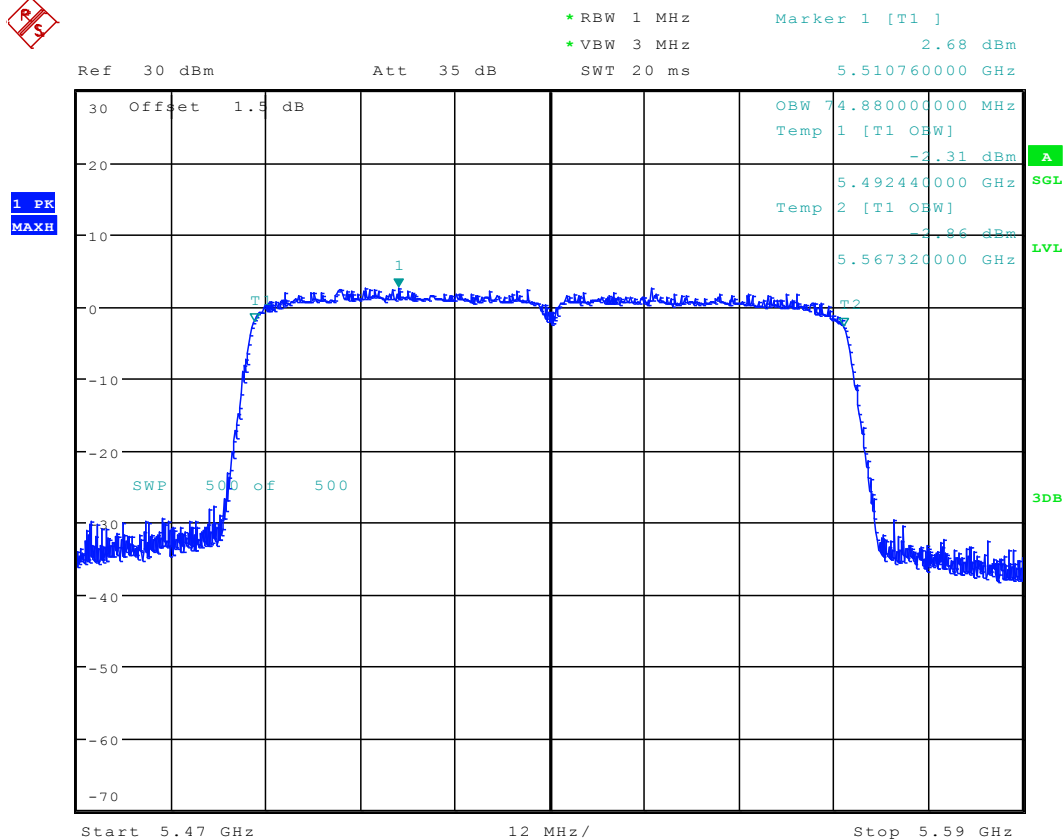
Date: 3.JAN.2017 15:27:21

4.32 11AC80_58 ANT 1



Date: 3.JAN.2017 15:38:31

4.33 11AC80_106 ANT 1



Date: 3.JAN.2017 16:04:20

Appendix C: Duty Cycle

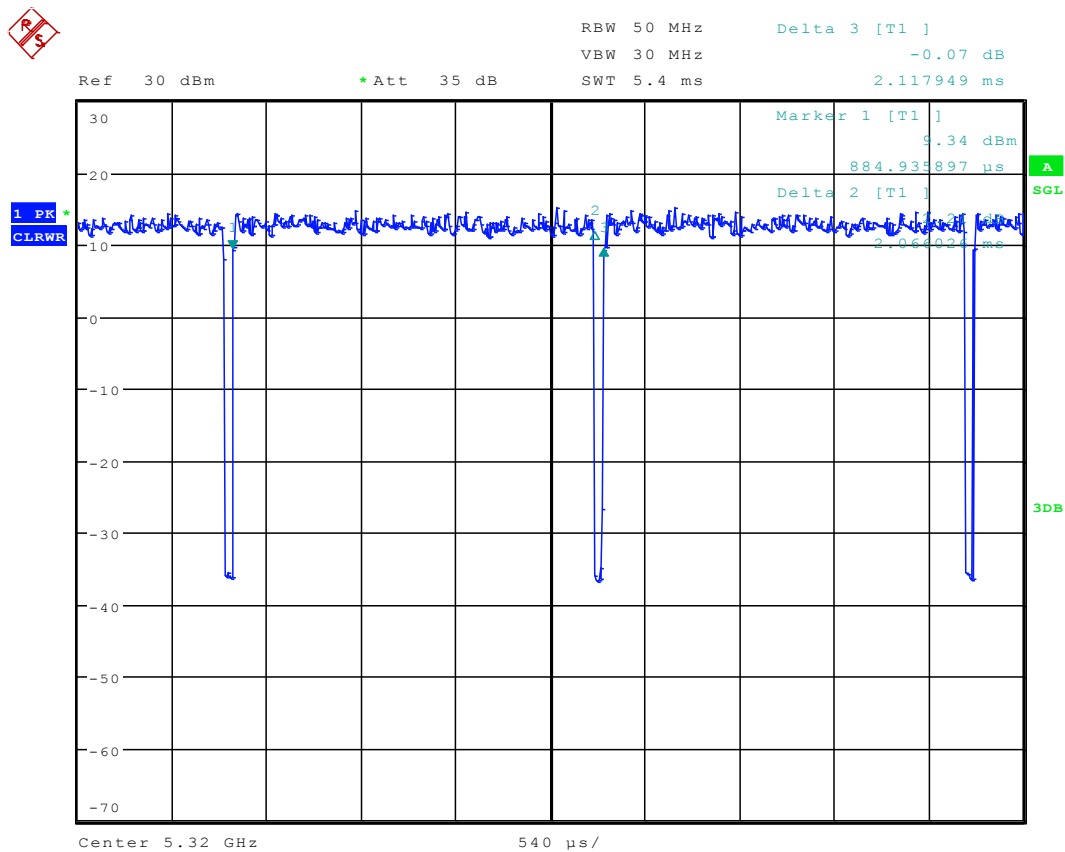


5 Part I - Test Results

Test Mode	Antenna Port	Power Conf.,	Duty cycle [%]
11A20	ANT 1	14	97.5
11N20	ANT 1	14	97.7
11N40	ANT 1	13	95.2
11AC20	ANT 1	14	97.4
11AC40	ANT 1	13	95.3
11AC80	ANT 1	12	96.4

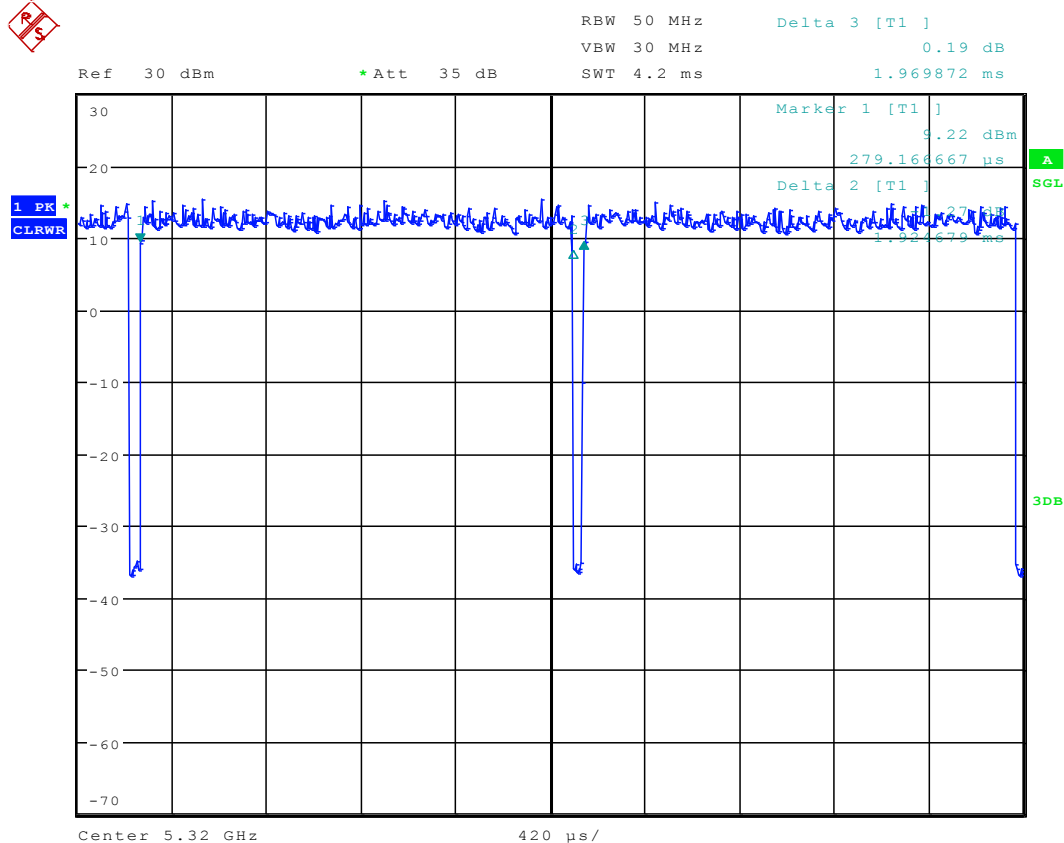
6 Test Plot

6.1 11A20



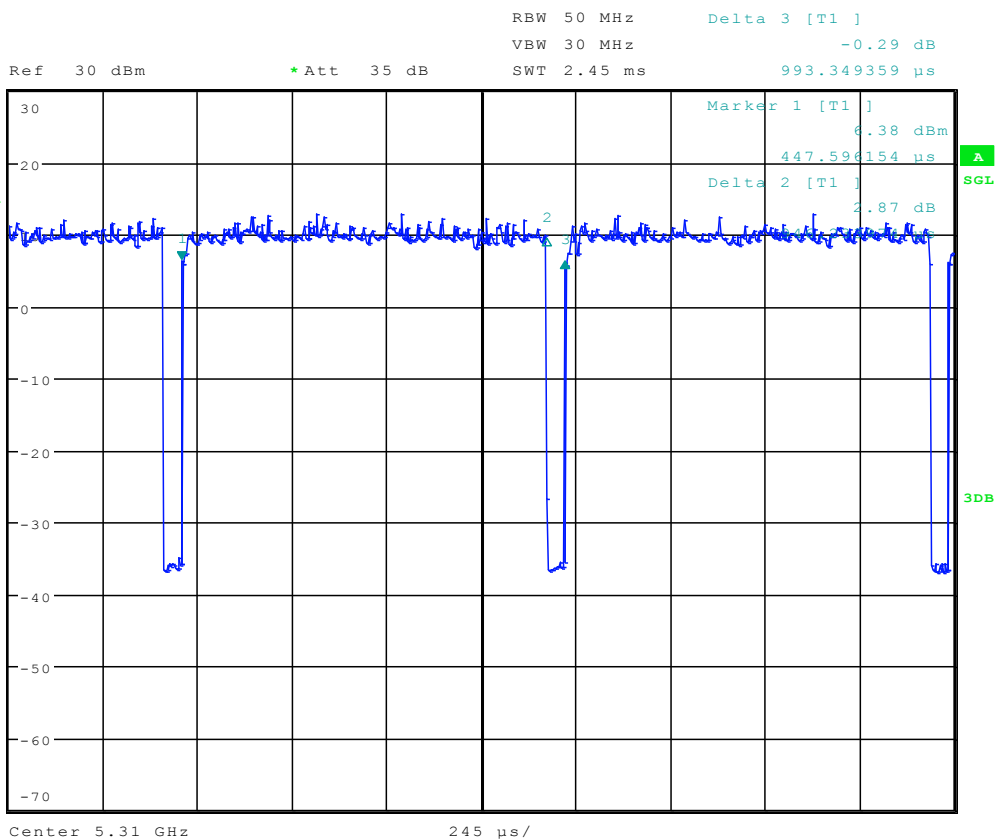
Date: 28.DEC.2016 10:54:07

6.2 11n20



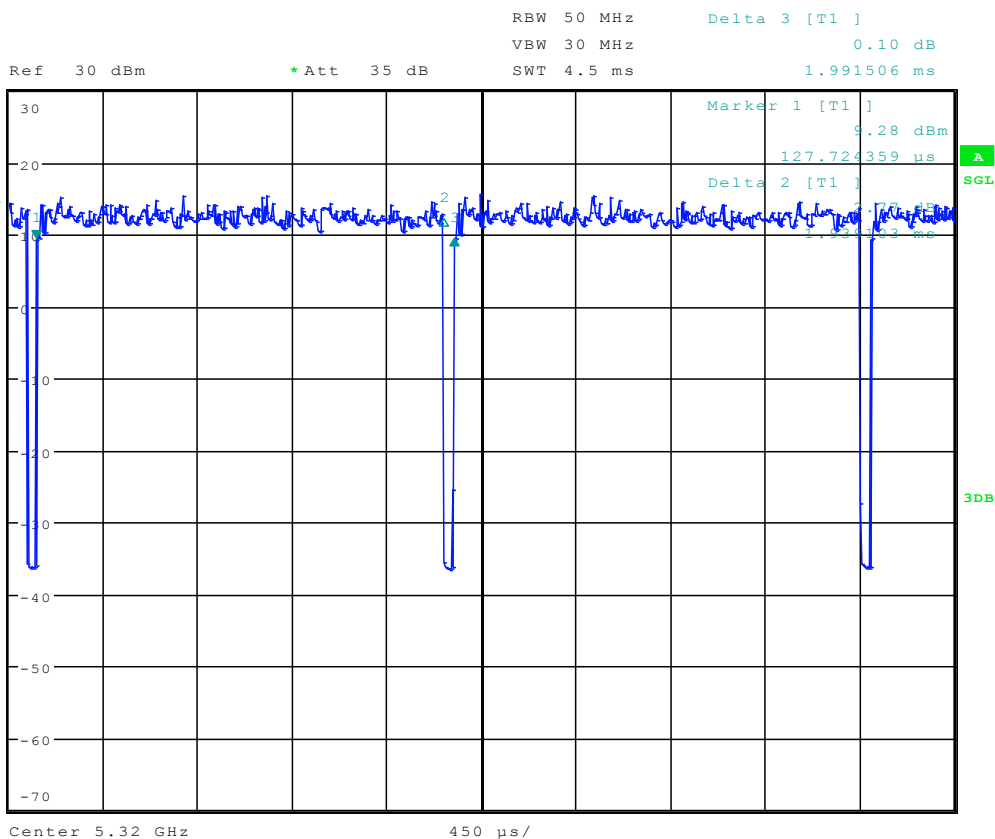
Date: 28.DEC.2016 10:55:25

6.3 11n40



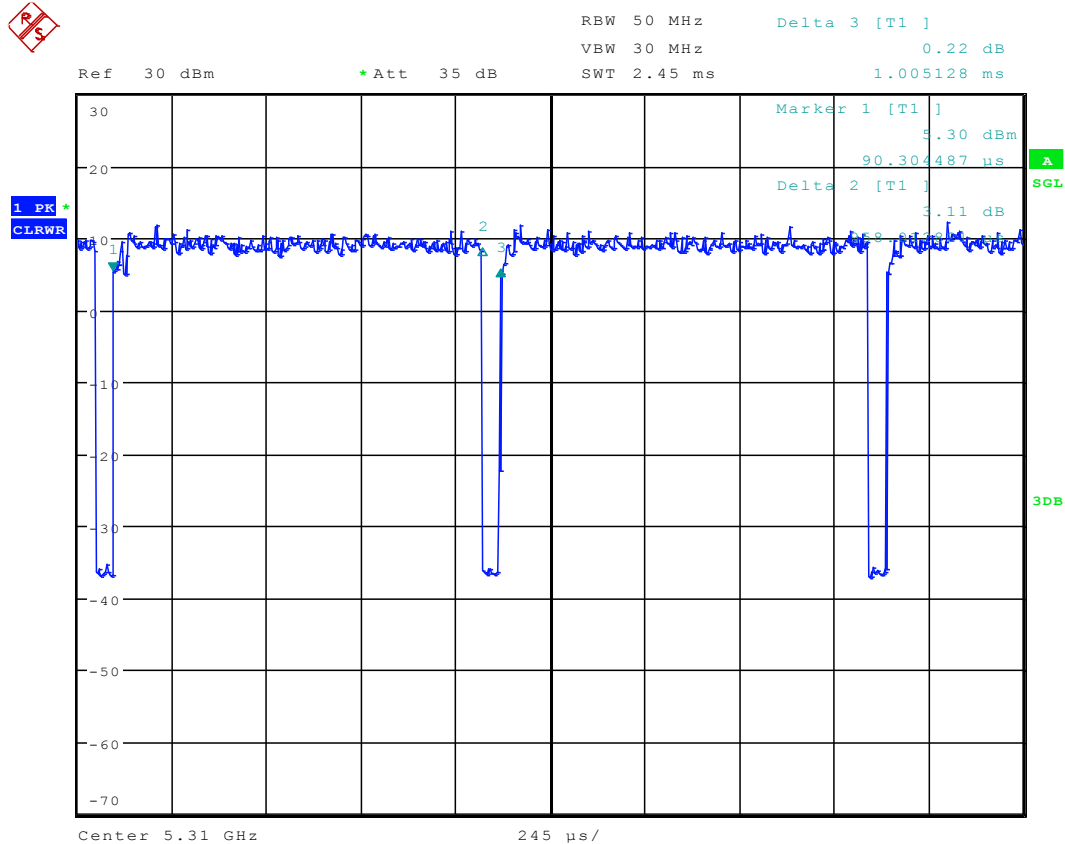
Date: 28.DEC.2016 10:59:24

6.4 11ac20



Date: 28.DEC.2016 10:56:55

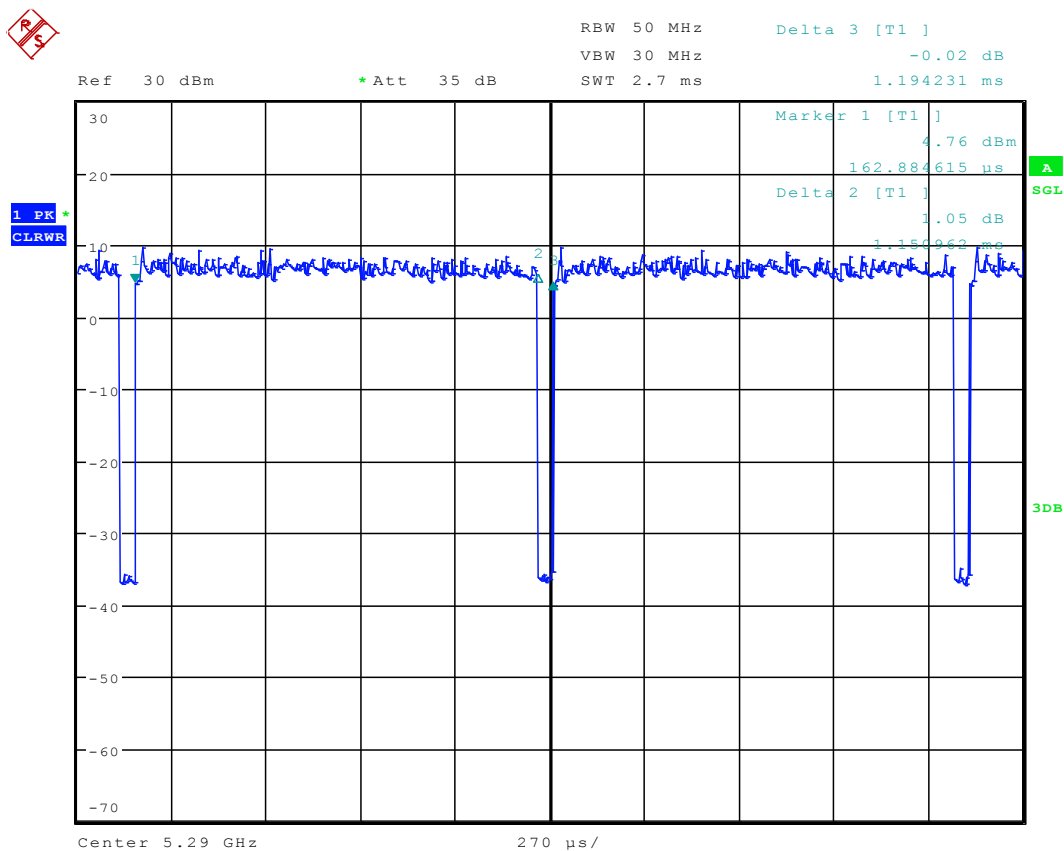
6.5 11ac40



Date: 28.DEC.2016 11:00:25



6.6 11ac80



Date: 28.DEC.2016 11:11:37

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	11.36	PASS
	48	5240	ANT 1	11.49	PASS
	52	5260	ANT 1	11.25	PASS
	64	5320	ANT 1	11.12	PASS
	100	5500	ANT 1	11.23	PASS
	140	5700	ANT 1	11.55	PASS
11N20	36	5180	ANT 1	11.49	PASS
	48	5240	ANT 1	11.79	PASS
	52	5260	ANT 1	11.46	PASS
	64	5320	ANT 1	11.38	PASS
	100	5500	ANT 1	11.68	PASS
	140	5700	ANT 1	11.48	PASS
11N40	38	5190	ANT 1	11.11	PASS
	46	5230	ANT 1	11.25	PASS
	54	5270	ANT 1	10.97	PASS
	62	5310	ANT 1	10.99	PASS
	102	5510	ANT 1	10.85	PASS
	134	5670	ANT 1	10.68	PASS
11AC20	36	5180	ANT 1	11.6	PASS
	48	5240	ANT 1	11.76	PASS
	52	5260	ANT 1	11.48	PASS
	64	5320	ANT 1	11.47	PASS
	100	5500	ANT 1	11.45	PASS
	140	5700	ANT 1	11.49	PASS
11AC40	38	5190	ANT 1	11.07	PASS
	46	5230	ANT 1	11.23	PASS
	54	5270	ANT 1	10.92	PASS
	62	5310	ANT 1	10.96	PASS
	102	5510	ANT 1	10.82	PASS
	134	5670	ANT 1	10.67	PASS
11AC80	42	5210	ANT 1	11.29	PASS
	58	5290	ANT 1	11.11	PASS
	106	5530	ANT 1	10.74	PASS



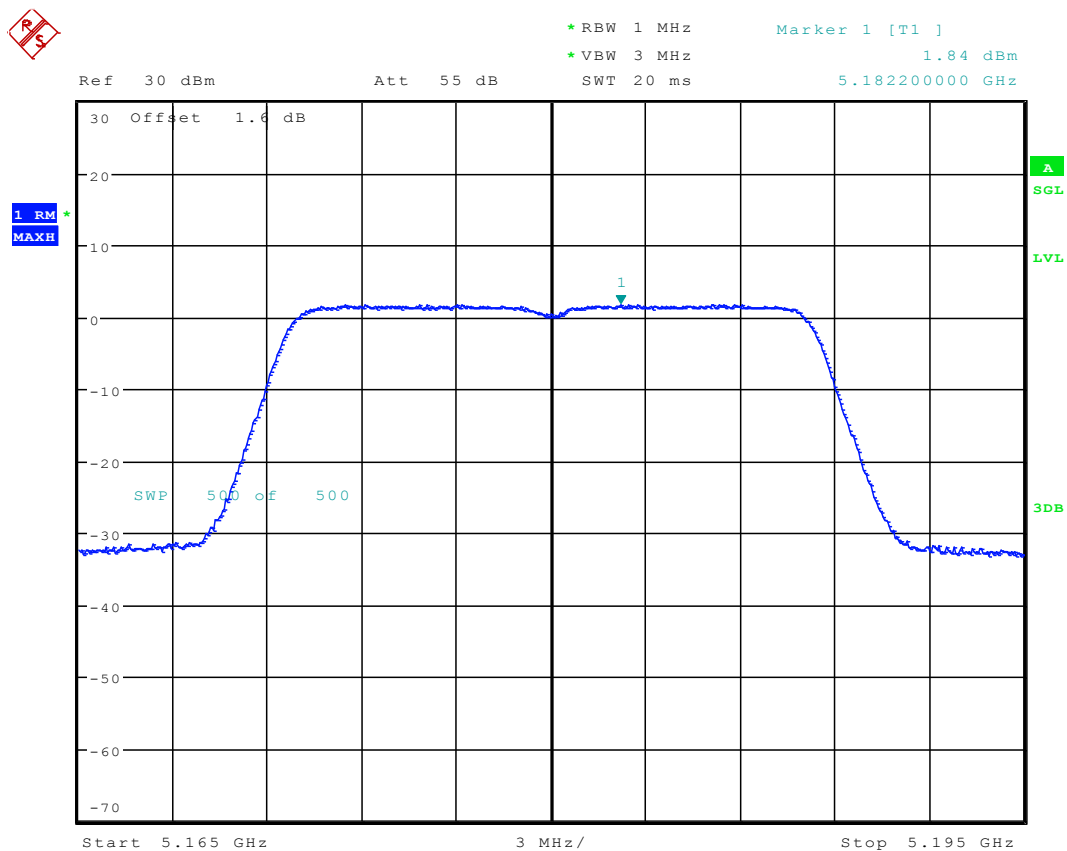
Appendix E: Peak Power Spectral Density Level

8 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A20	36	5180	ANT 1	1.84	PASS
	48	5240	ANT 1	1.95	PASS
	52	5260	ANT 1	1.53	PASS
	64	5320	ANT 1	1.38	PASS
	100	5500	ANT 1	1.34	PASS
	140	5700	ANT 1	1.78	PASS
11N20	36	5180	ANT 1	1.77	PASS
	48	5240	ANT 1	1.75	PASS
	52	5260	ANT 1	1.32	PASS
	64	5320	ANT 1	1.31	PASS
	100	5500	ANT 1	1.06	PASS
	140	5700	ANT 1	1.5	PASS
11N40	38	5190	ANT 1	-1.42	PASS
	46	5230	ANT 1	-1.23	PASS
	54	5270	ANT 1	-1.72	PASS
	62	5310	ANT 1	-1.9	PASS
	102	5510	ANT 1	-2.01	PASS
	134	5670	ANT 1	-1.86	PASS
11AC20	36	5180	ANT 1	1.71	PASS
	48	5240	ANT 1	1.56	PASS
	52	5260	ANT 1	1.42	PASS
	64	5320	ANT 1	1.09	PASS
	100	5500	ANT 1	1.06	PASS
	140	5700	ANT 1	1.45	PASS
11AC40	38	5190	ANT 1	-1.32	PASS
	46	5230	ANT 1	-1.27	PASS
	54	5270	ANT 1	-3.08	PASS
	62	5310	ANT 1	-1.8	PASS
	102	5510	ANT 1	-2.94	PASS
	134	5670	ANT 1	-3.38	PASS
11AC80	42	5210	ANT 1	-5.59	PASS
	58	5290	ANT 1	-5.78	PASS
	106	5530	ANT 1	-5.82	PASS

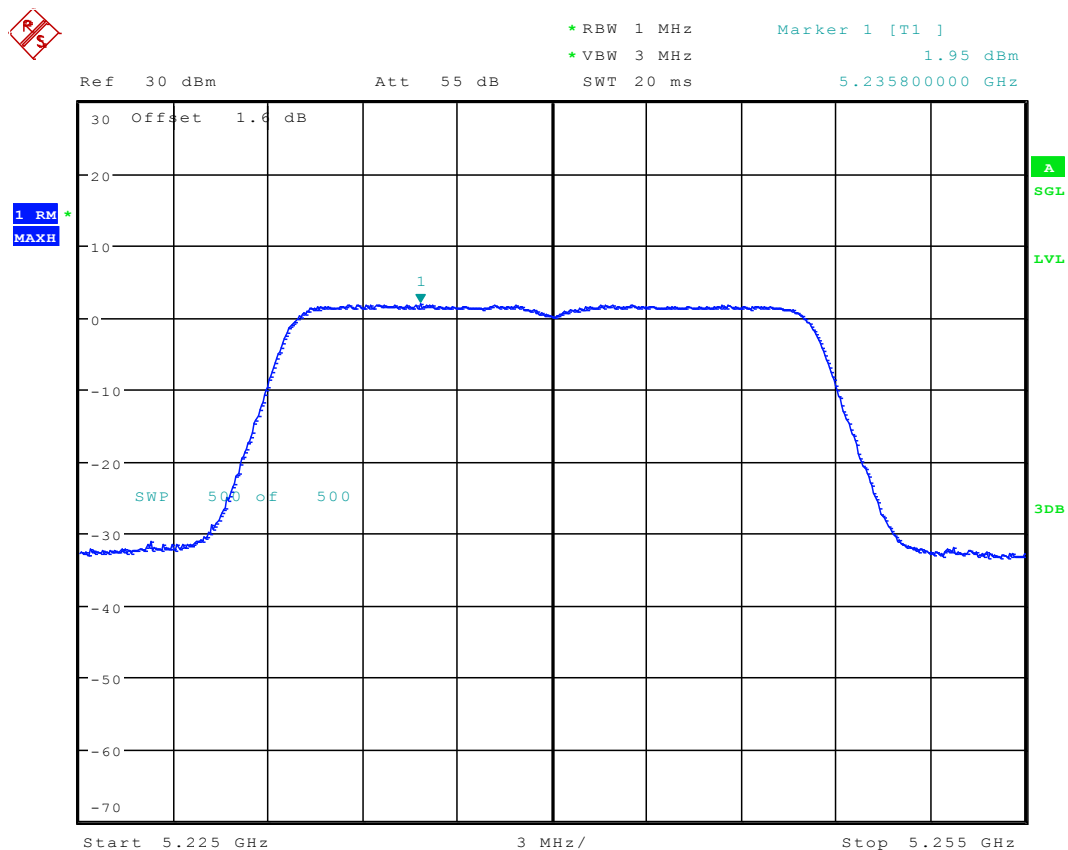
9 Test Plot

9.1 11A20_36 ANT 1



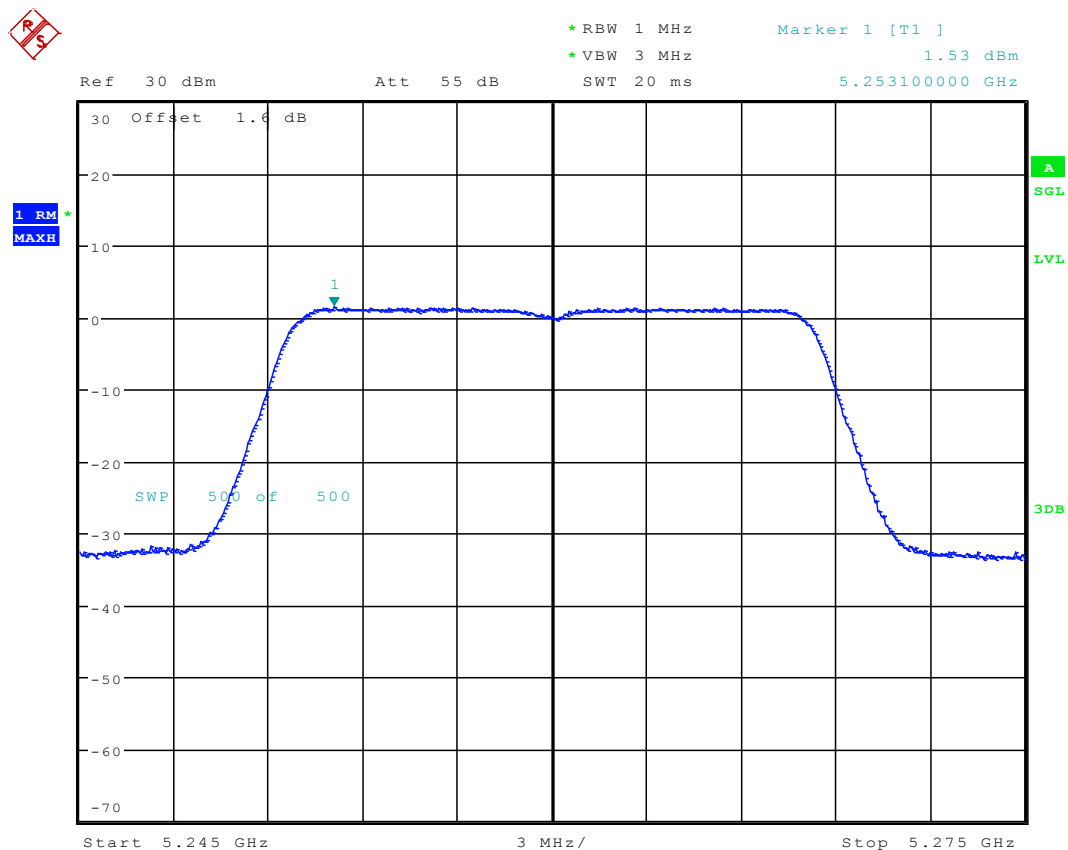
Date: 3.JAN.2017 12:51:39

9.2 11A20_48 ANT 1



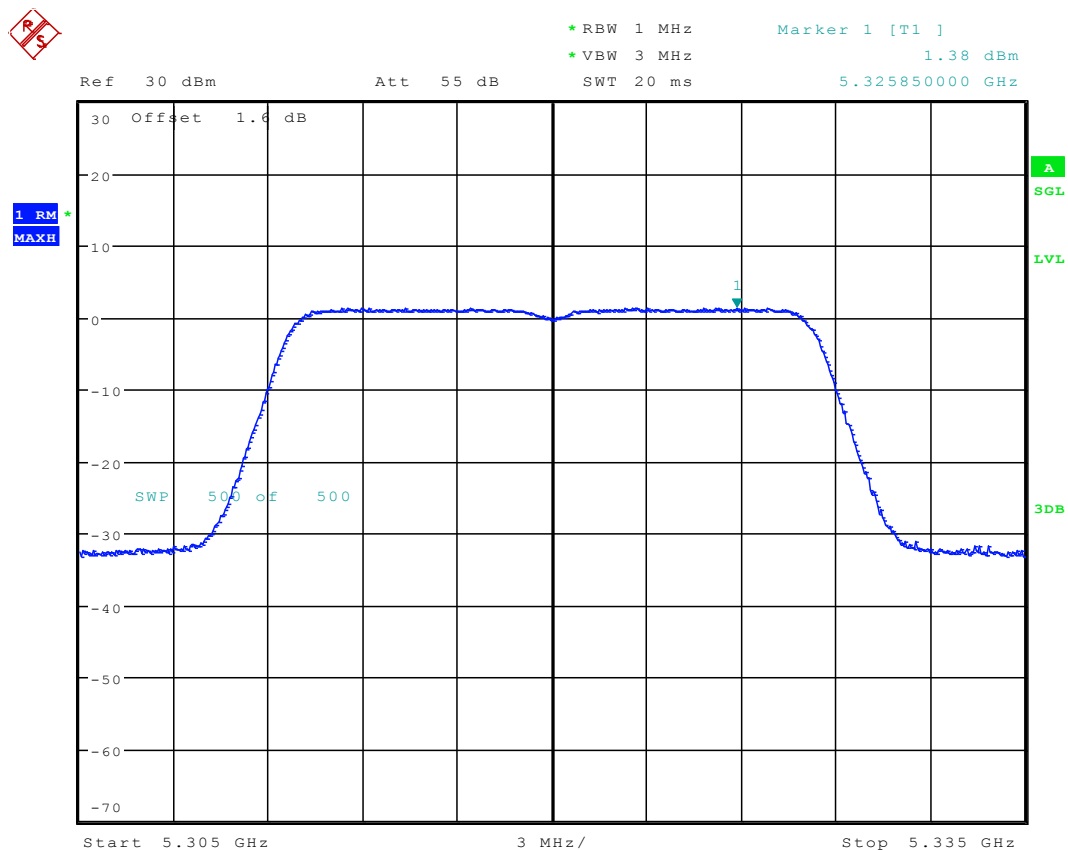
Date: 3.JAN.2017 12:58:05

9.3 11A20_52 ANT 1



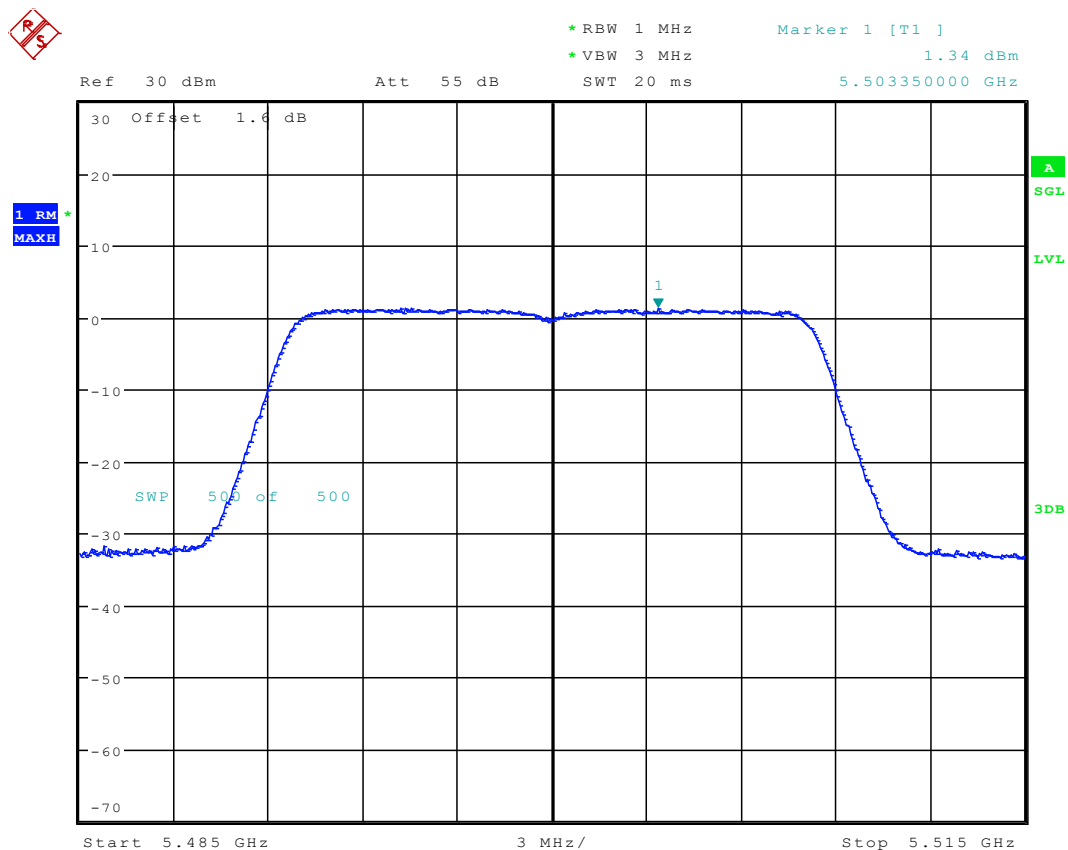
Date: 3.JAN.2017 13:03:34

9.4 11A20_64 ANT 1



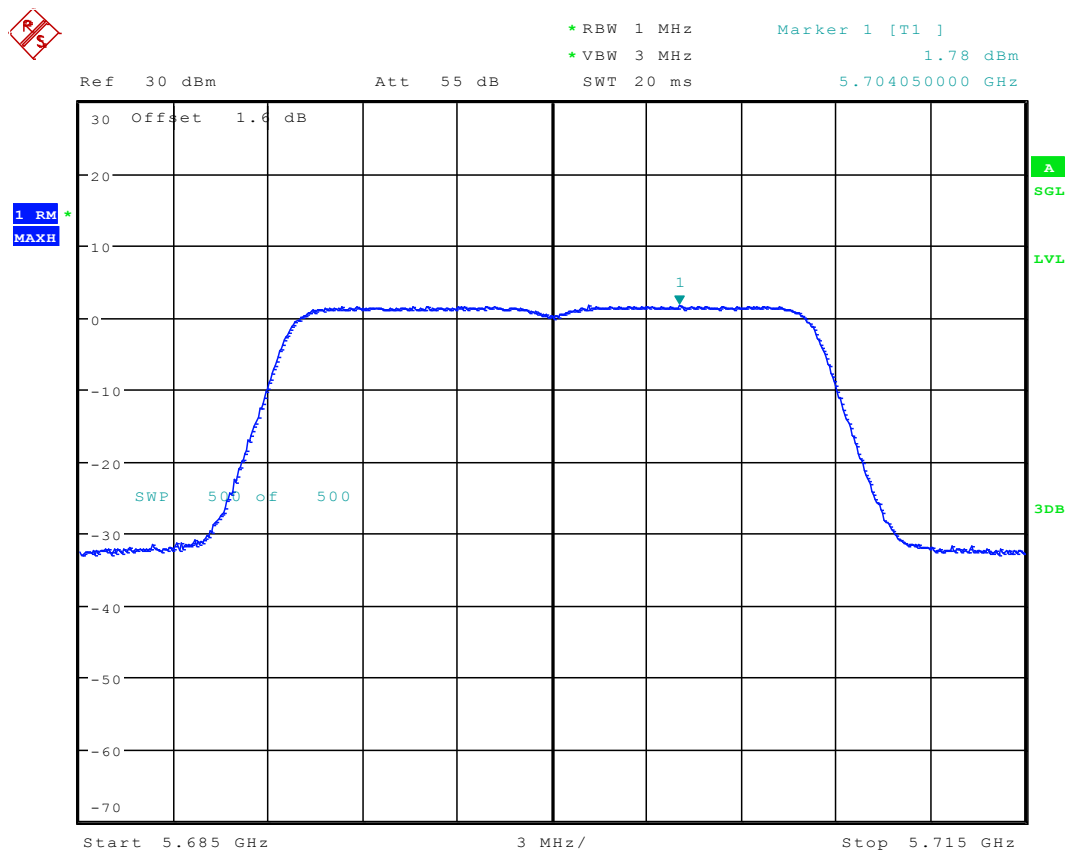
Date: 3.JAN.2017 13:10:17

9.5 11A20_100 ANT 1



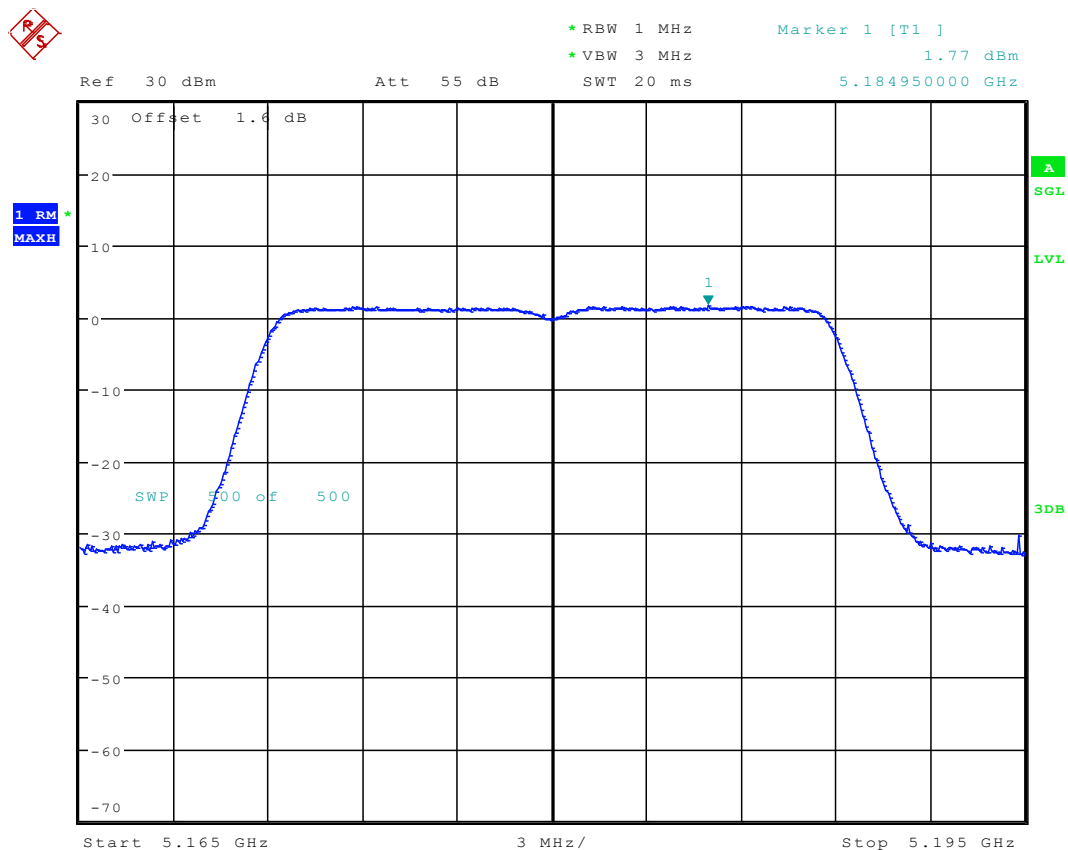
Date: 3.JAN.2017 13:15:51

9.6 11A20_140 ANT 1



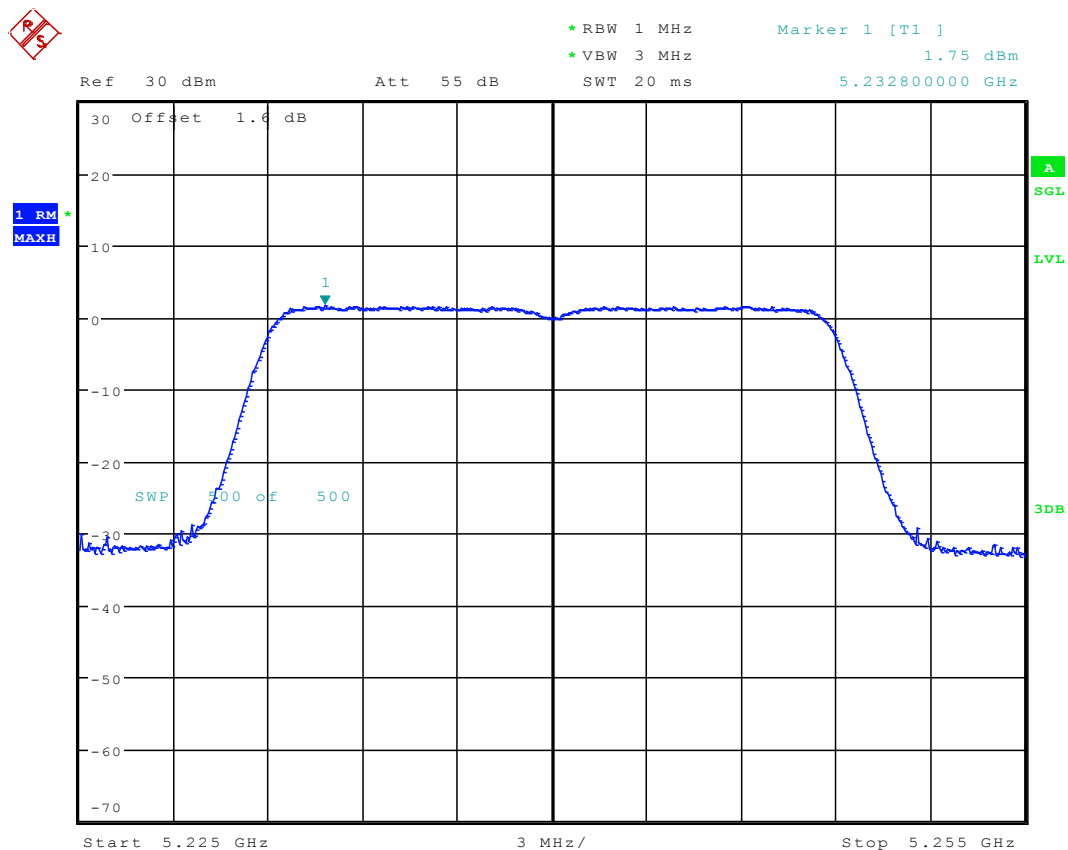
Date: 3.JAN.2017 13:24:29

9.7 11N20_36 ANT 1



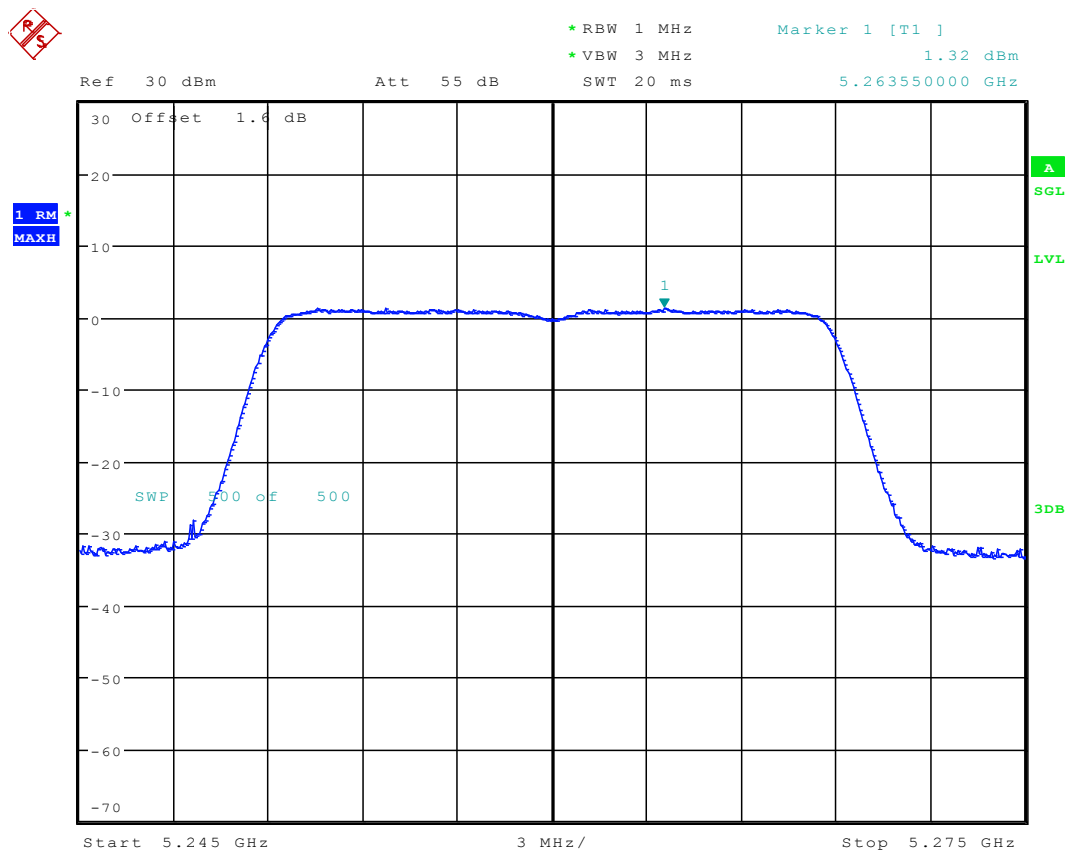
Date: 3.JAN.2017 13:31:46

9.8 11N20_48 ANT 1



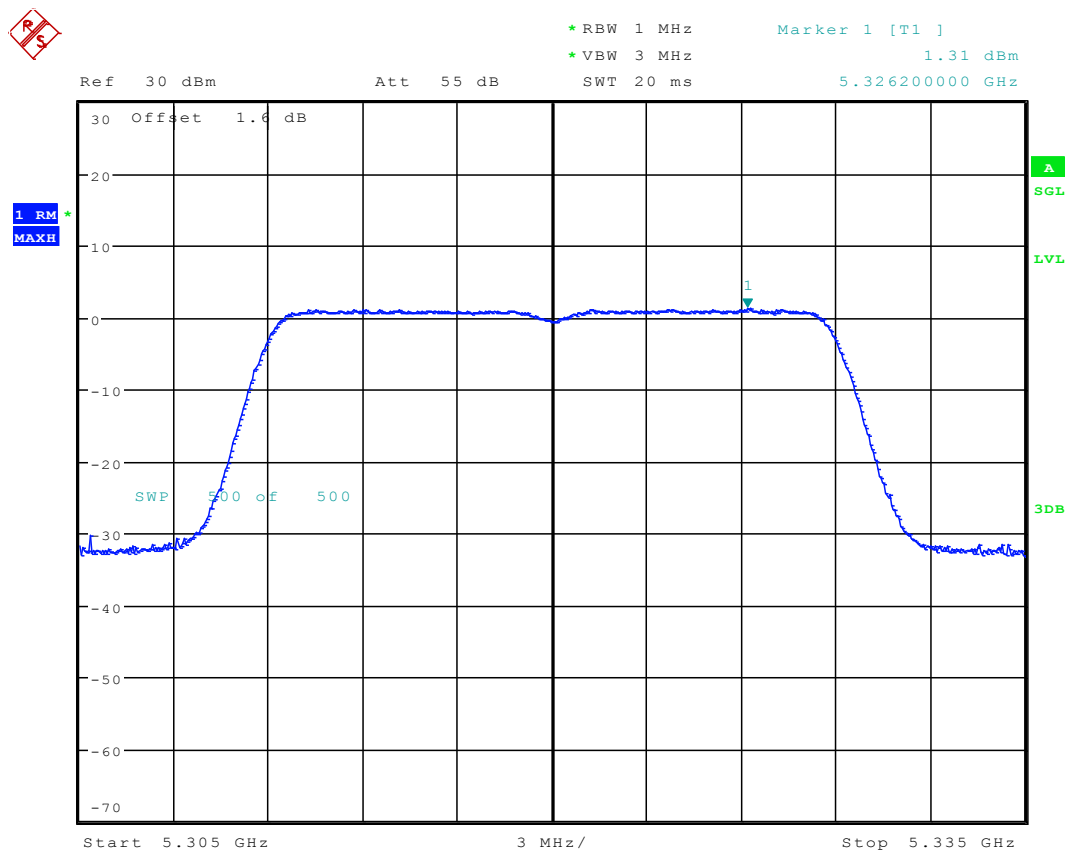
Date: 3.JAN.2017 13:37:24

9.9 11N20_52 ANT 1



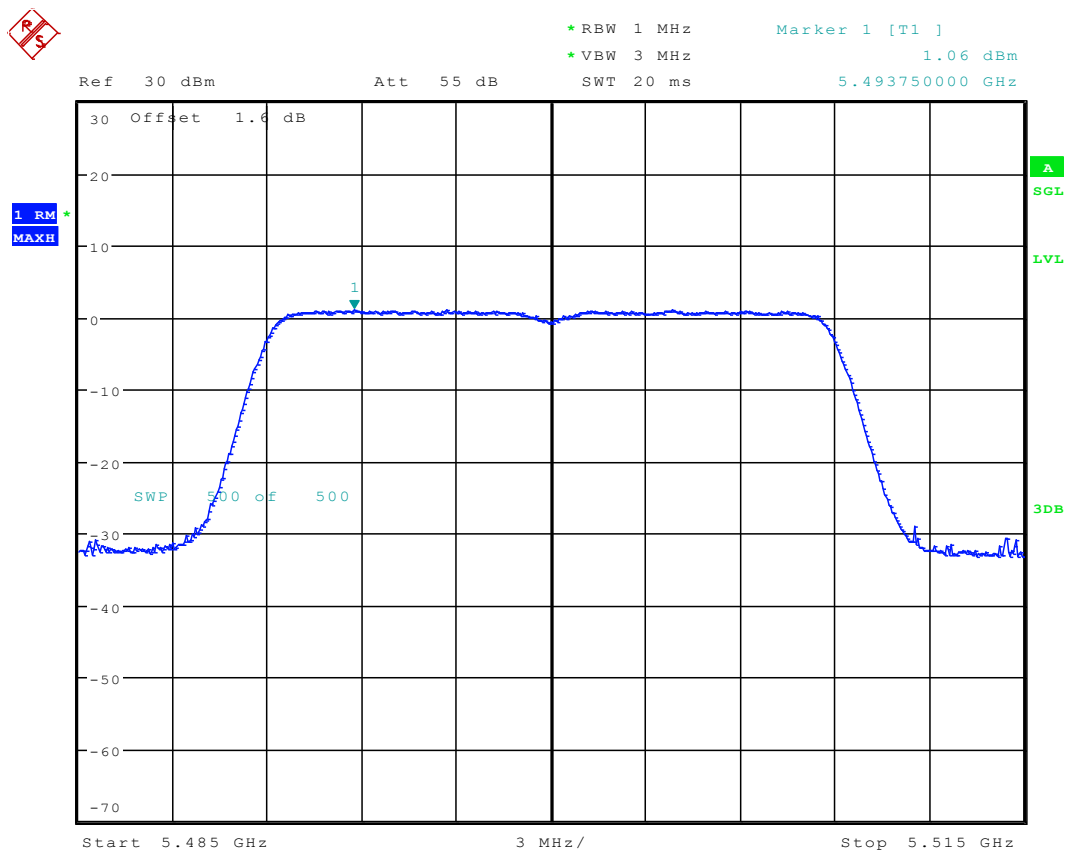
Date: 3.JAN.2017 13:42:44

9.10 11N20_64 ANT 1



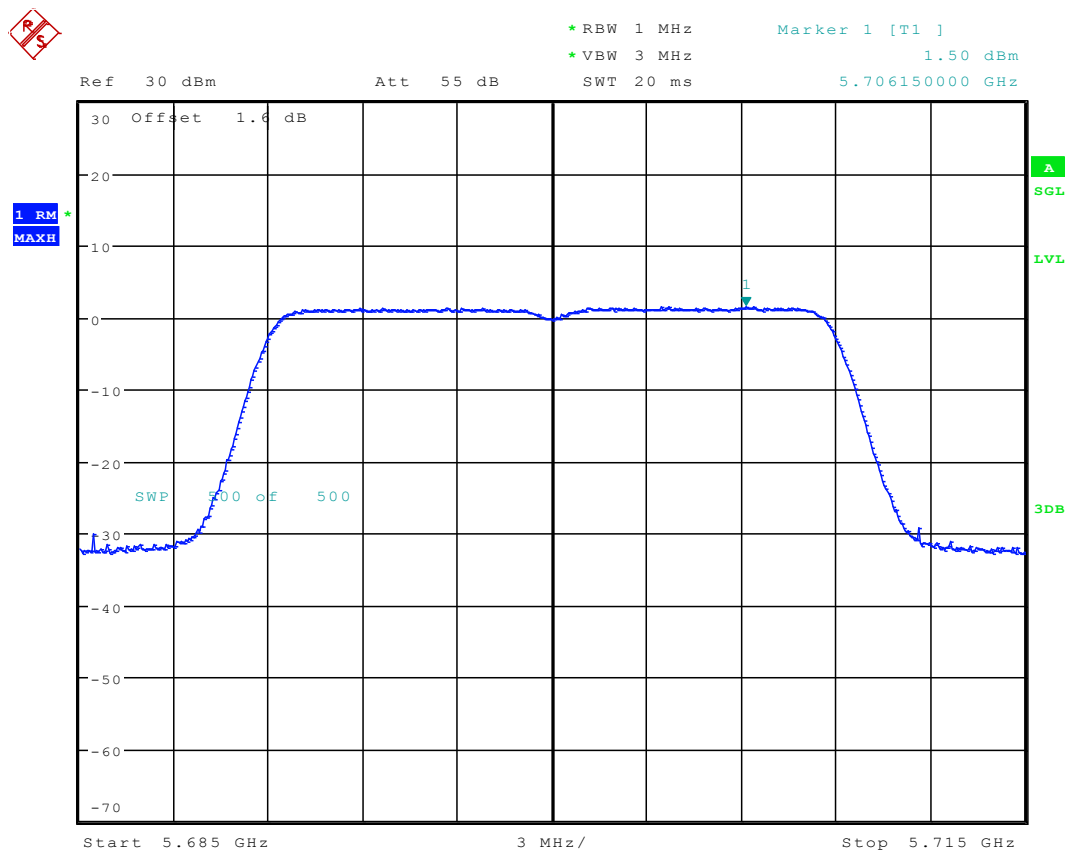
Date: 3.JAN.2017 13:48:00

9.11 11N20_100 ANT 1



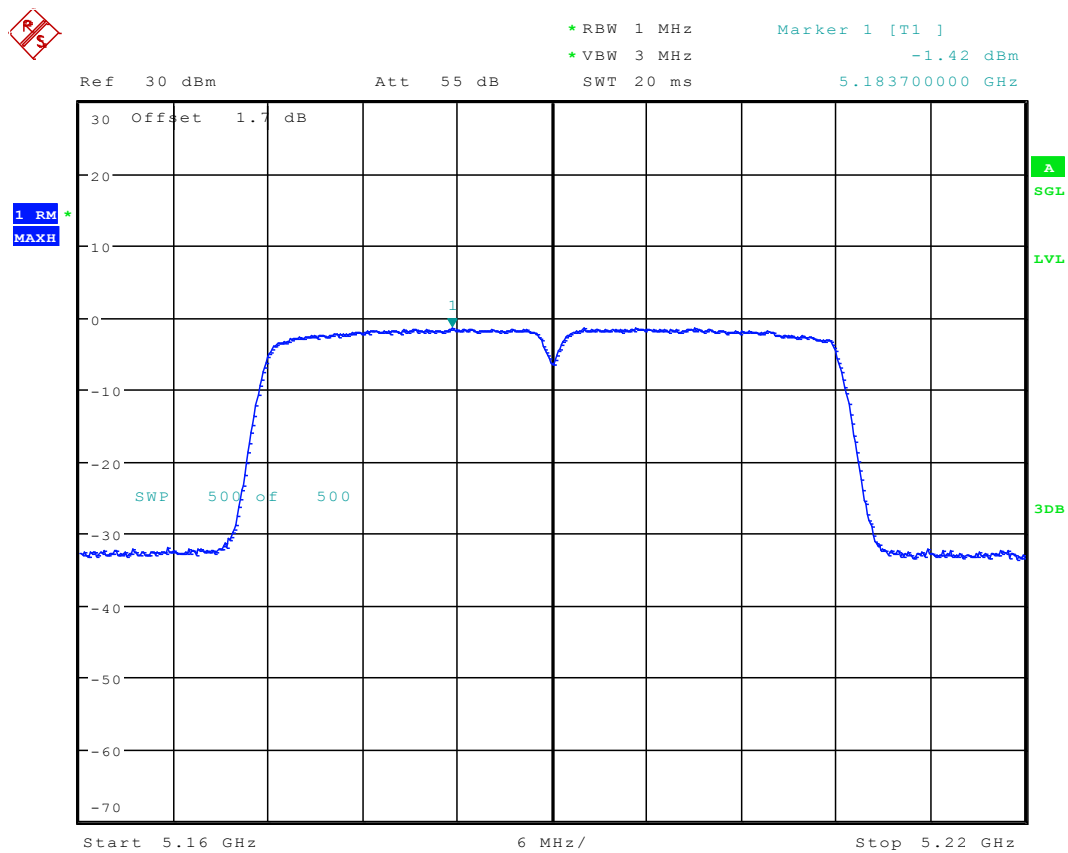
Date: 3.JAN.2017 13:53:27

9.12 11N20_140 ANT 1



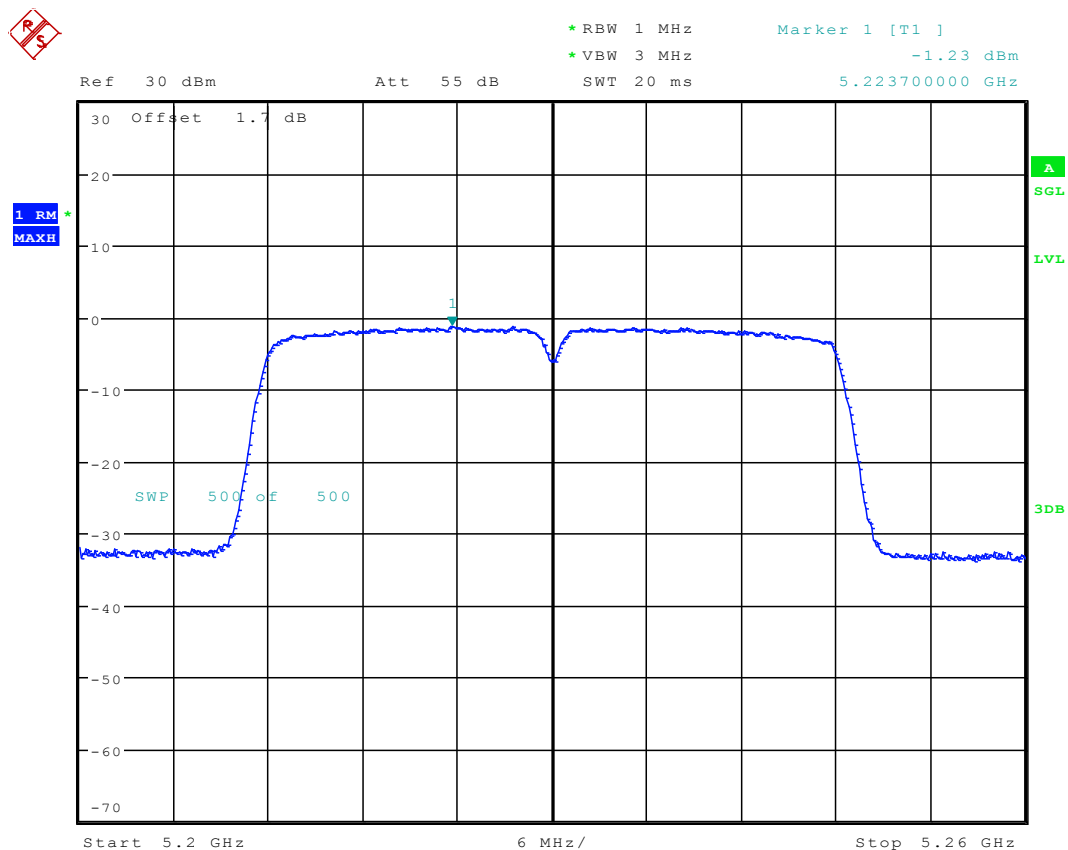
Date: 3.JAN.2017 13:58:16

9.13 11N40_38 ANT 1



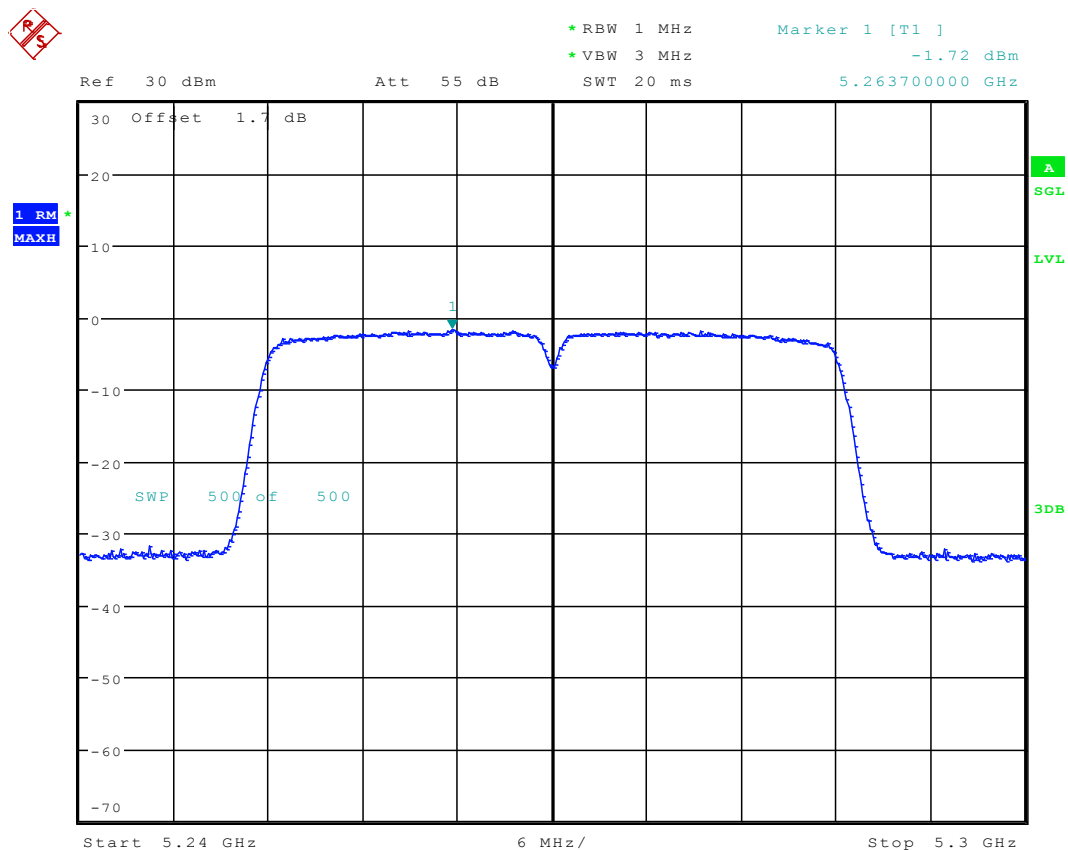
Date: 3.JAN.2017 14:04:45

9.14 11N40_46 ANT 1



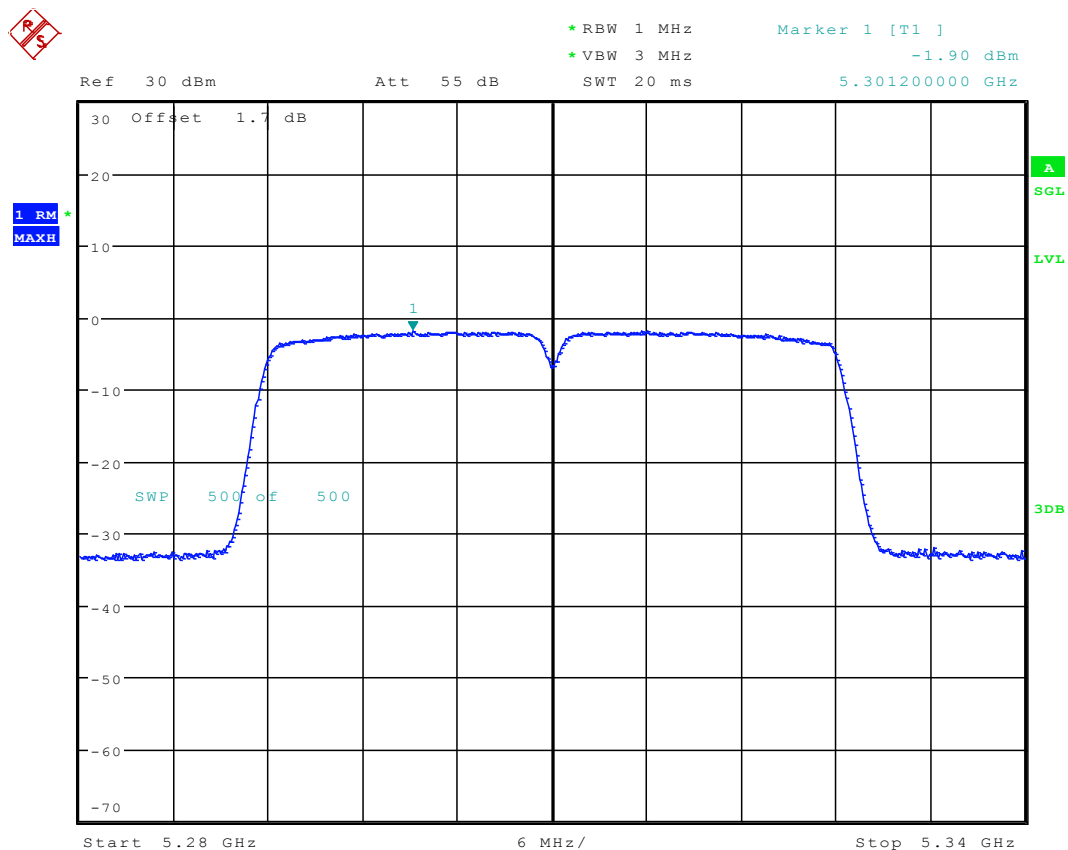
Date: 3.JAN.2017 14:12:01

9.15 11N40_54 ANT 1



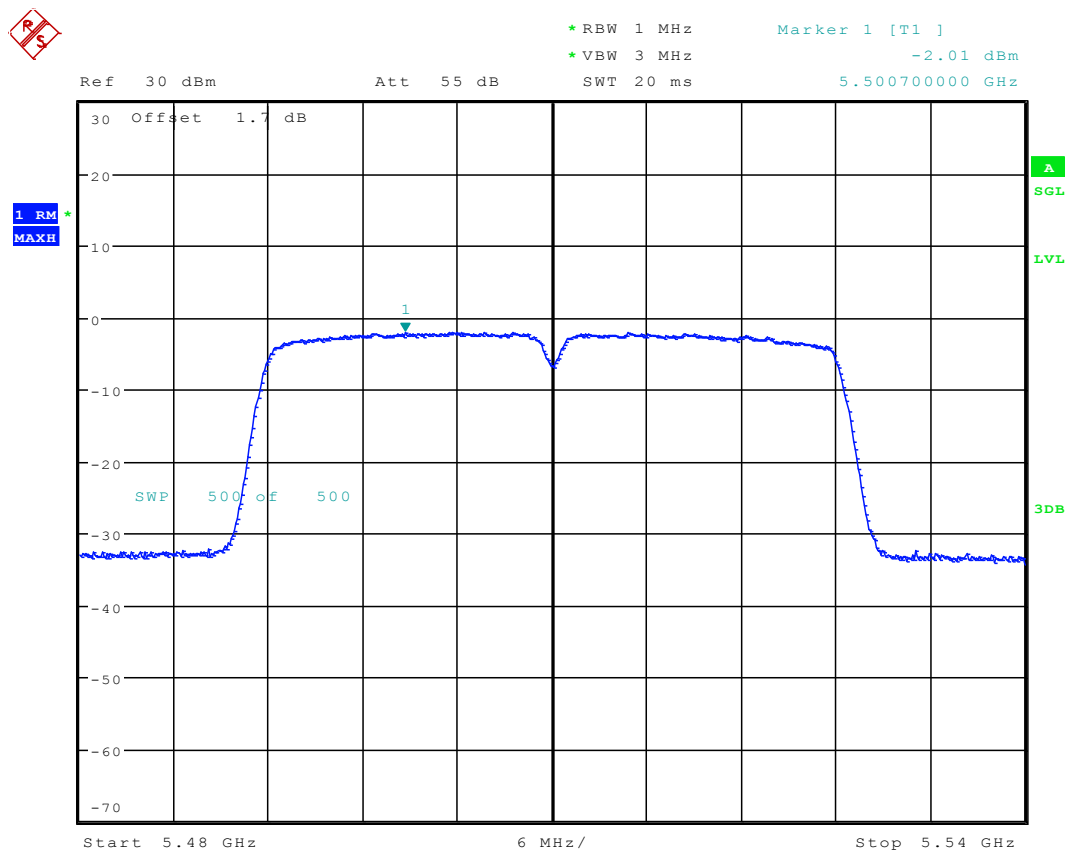
Date: 3.JAN.2017 14:17:33

9.16 11N40_62 ANT 1



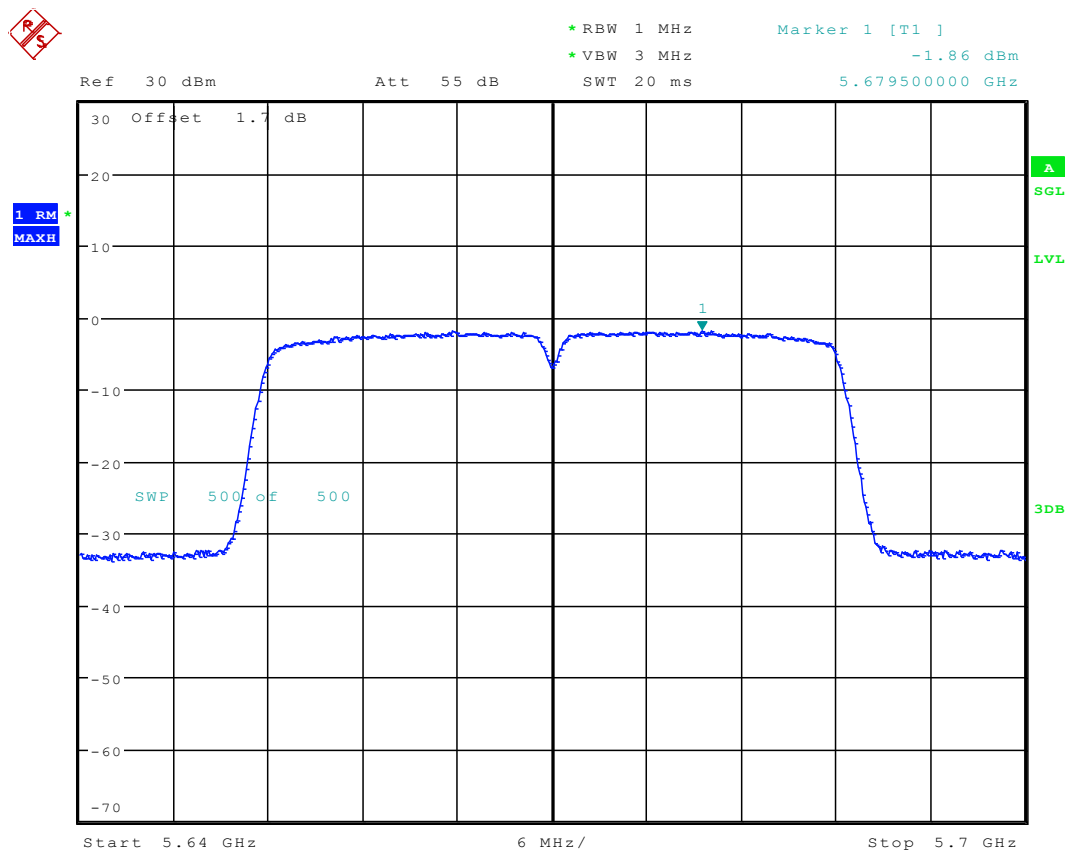
Date: 3.JAN.2017 14:24:43

9.17 11N40_102 ANT 1



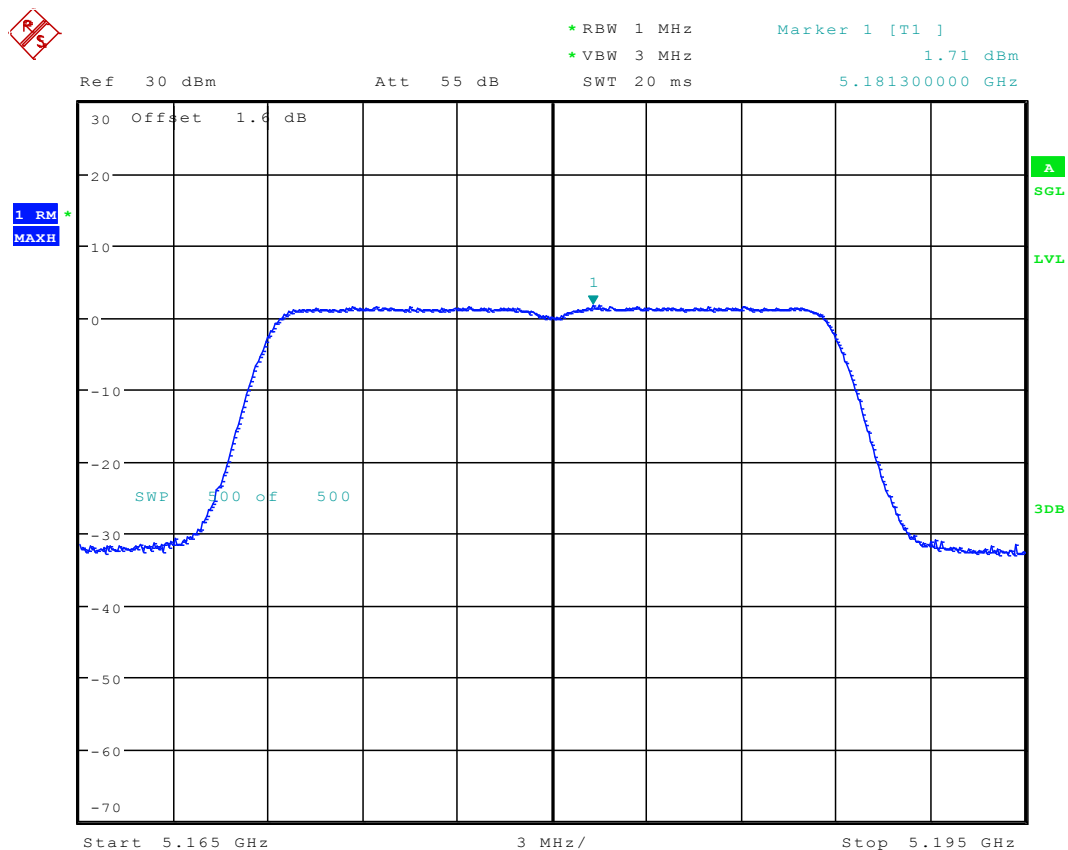
Date: 3.JAN.2017 14:29:38

9.18 11N40_134 ANT 1



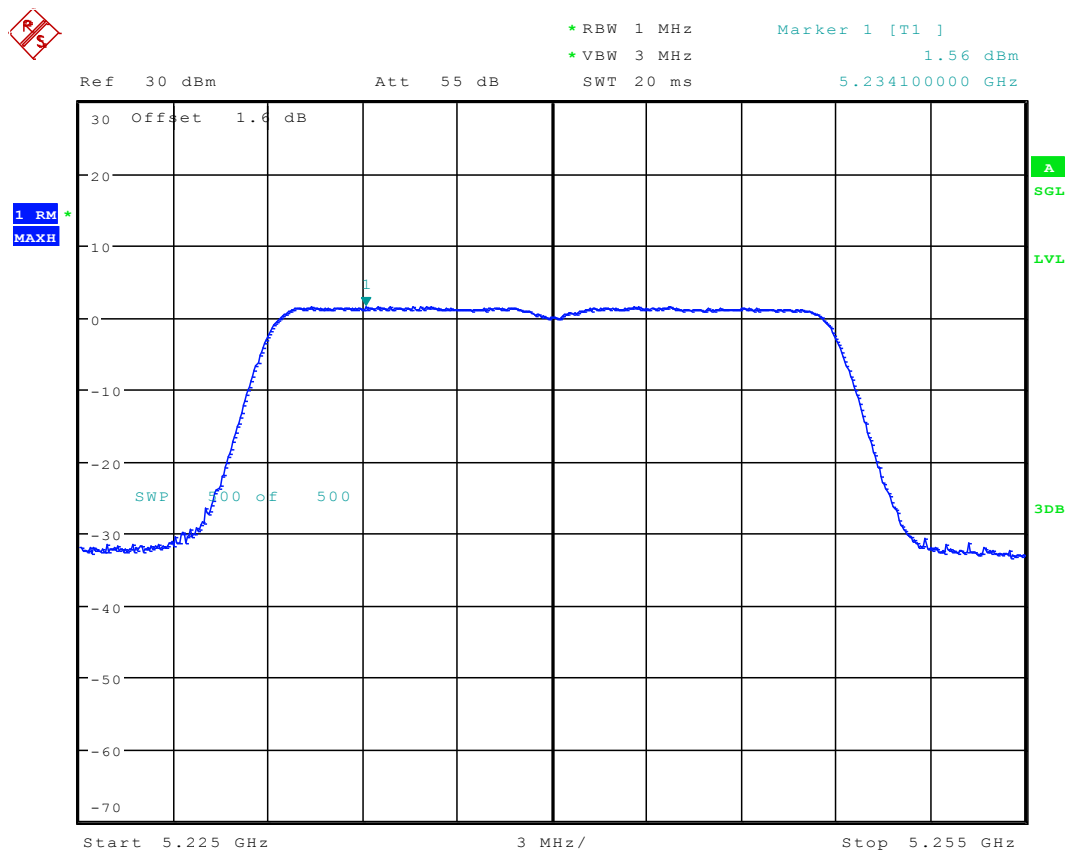
Date: 3.JAN.2017 14:34:15

9.19 11AC20_36 ANT 1



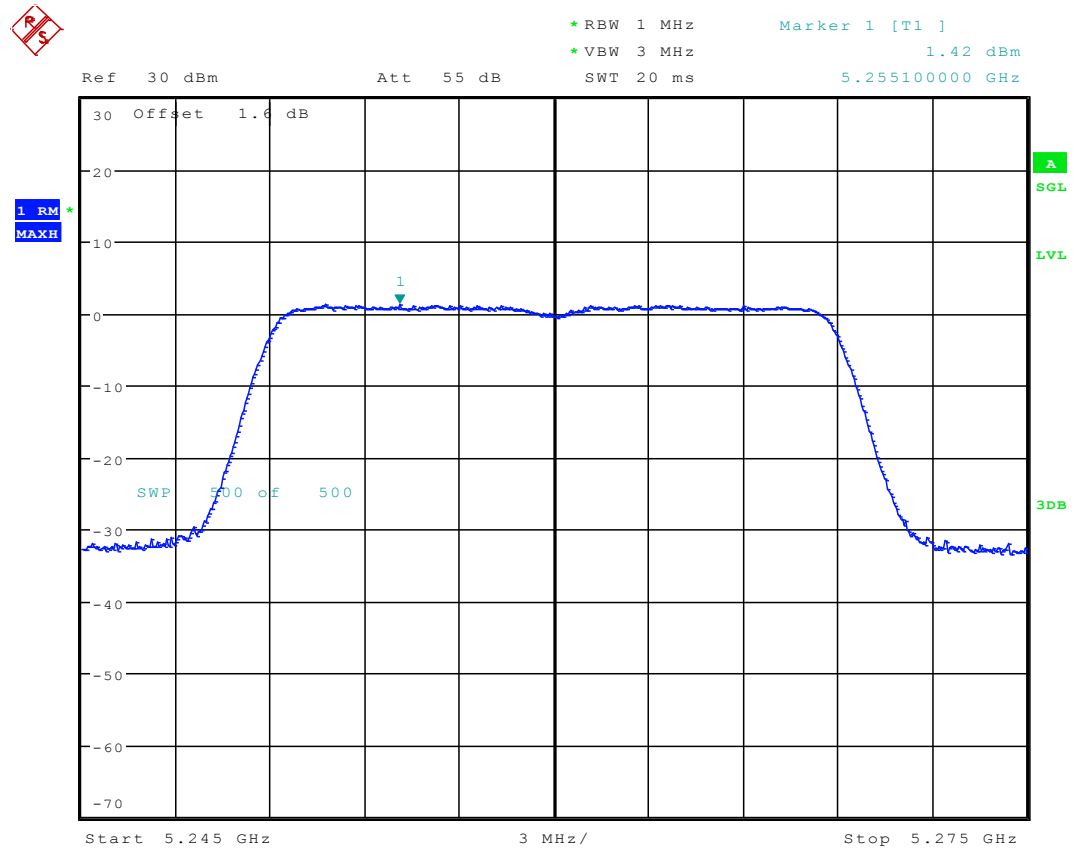
Date: 3.JAN.2017 12:18:17

9.20 11AC20_48 ANT 1



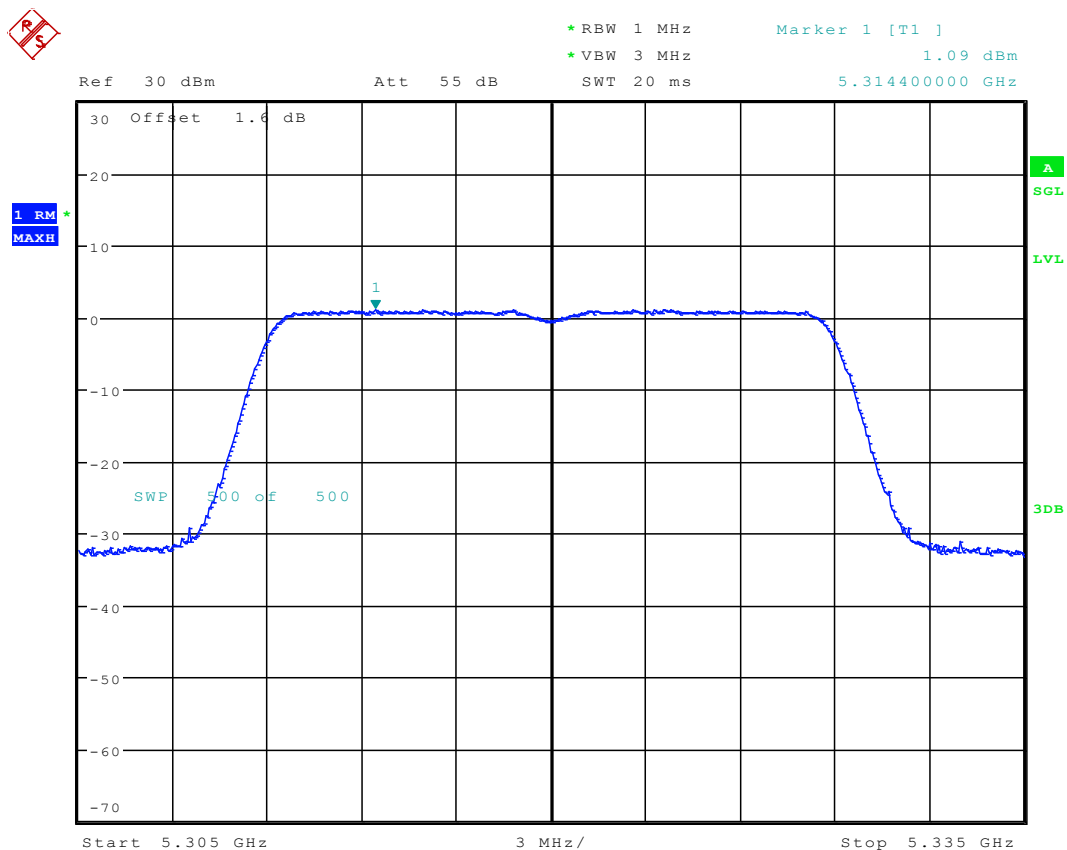
Date: 3.JAN.2017 12:23:19

9.21 11AC20_52 ANT 1



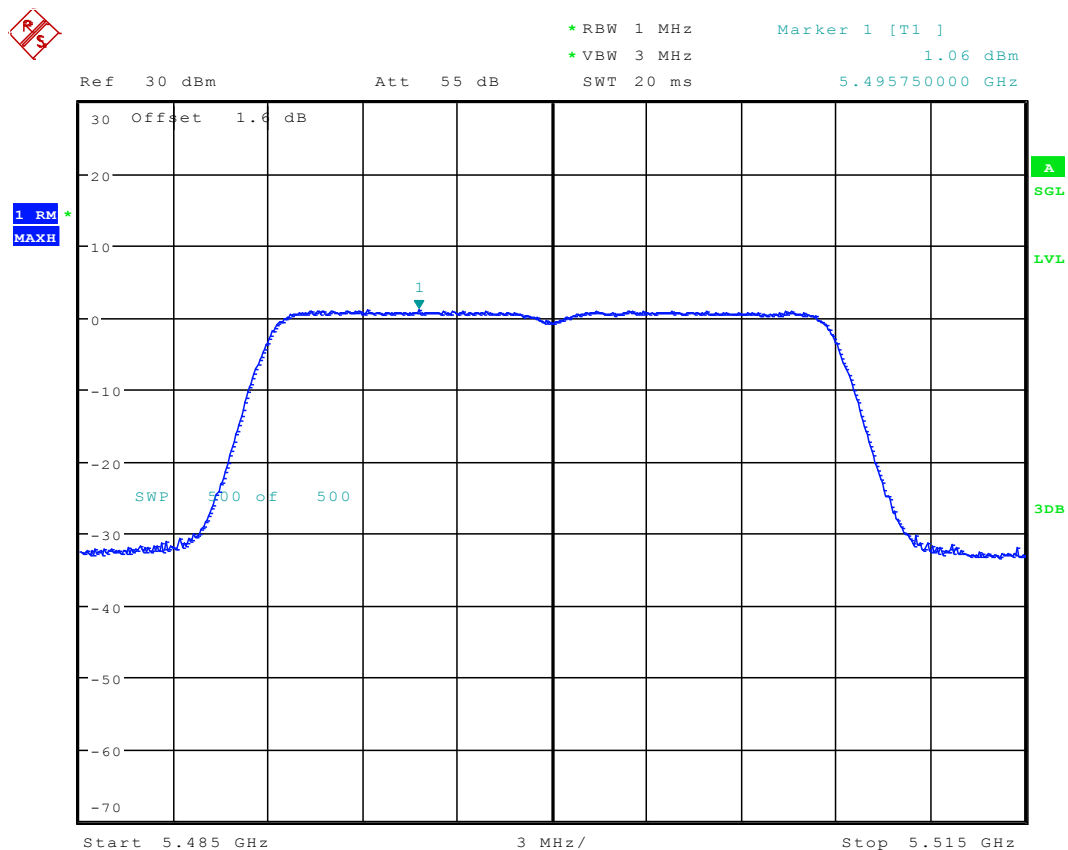
Date: 3.JAN.2017 12:28:58

9.22 11AC20_64 ANT 1



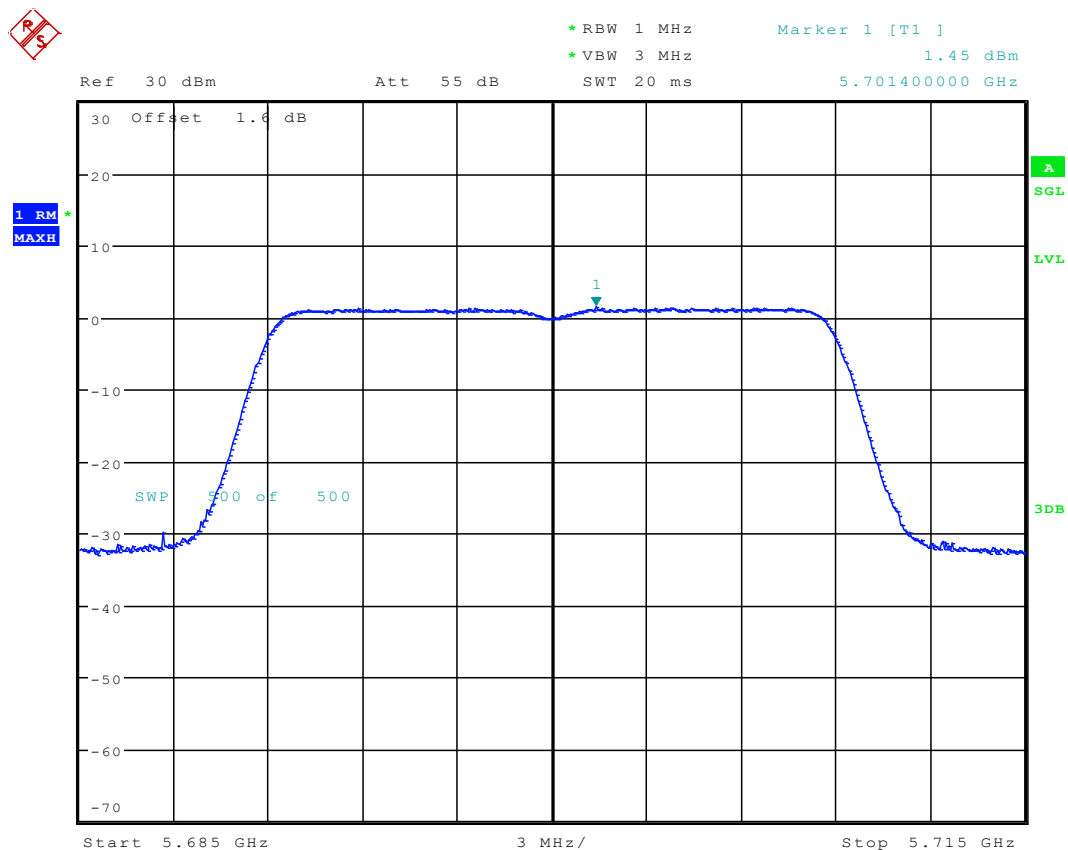
Date: 3.JAN.2017 12:33:42

9.23 11AC20_100 ANT 1



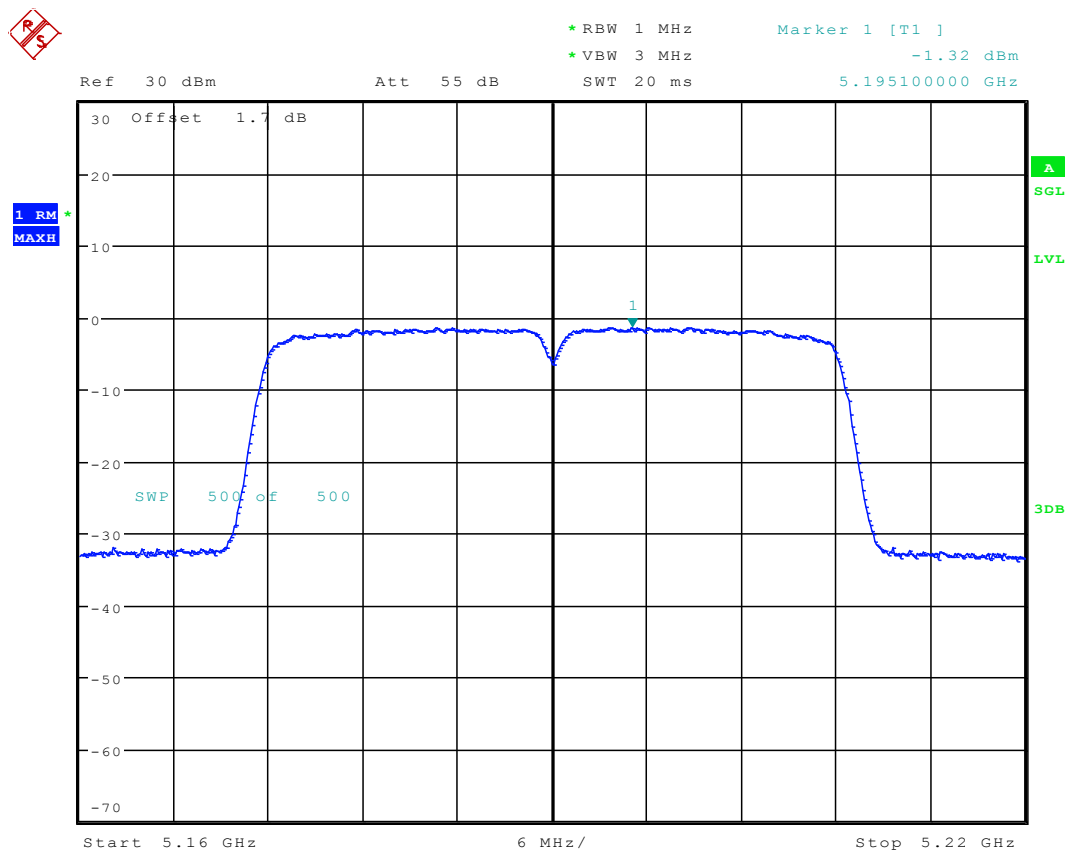
Date: 3.JAN.2017 12:39:27

9.24 11AC20_140 ANT 1



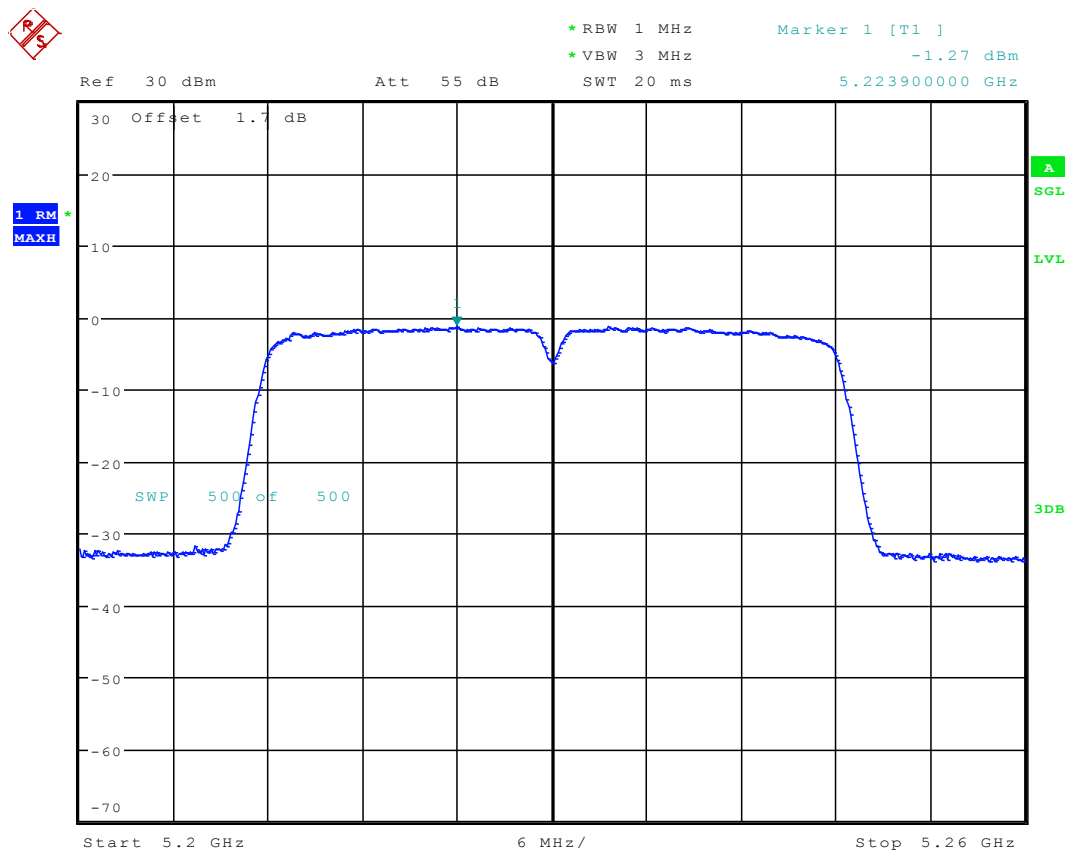
Date: 3.JAN.2017 12:45:17

9.25 11AC40_38 ANT 1



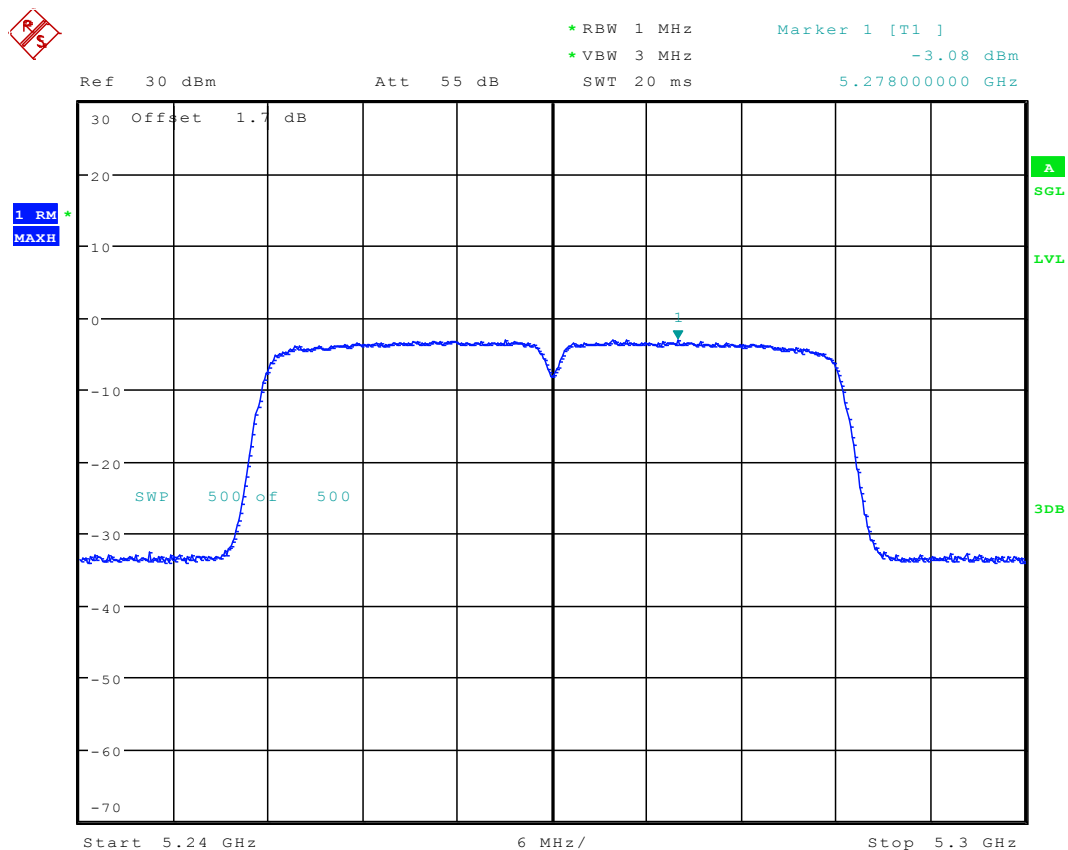
Date: 3.JAN.2017 14:37:56

9.26 11AC40_46 ANT 1



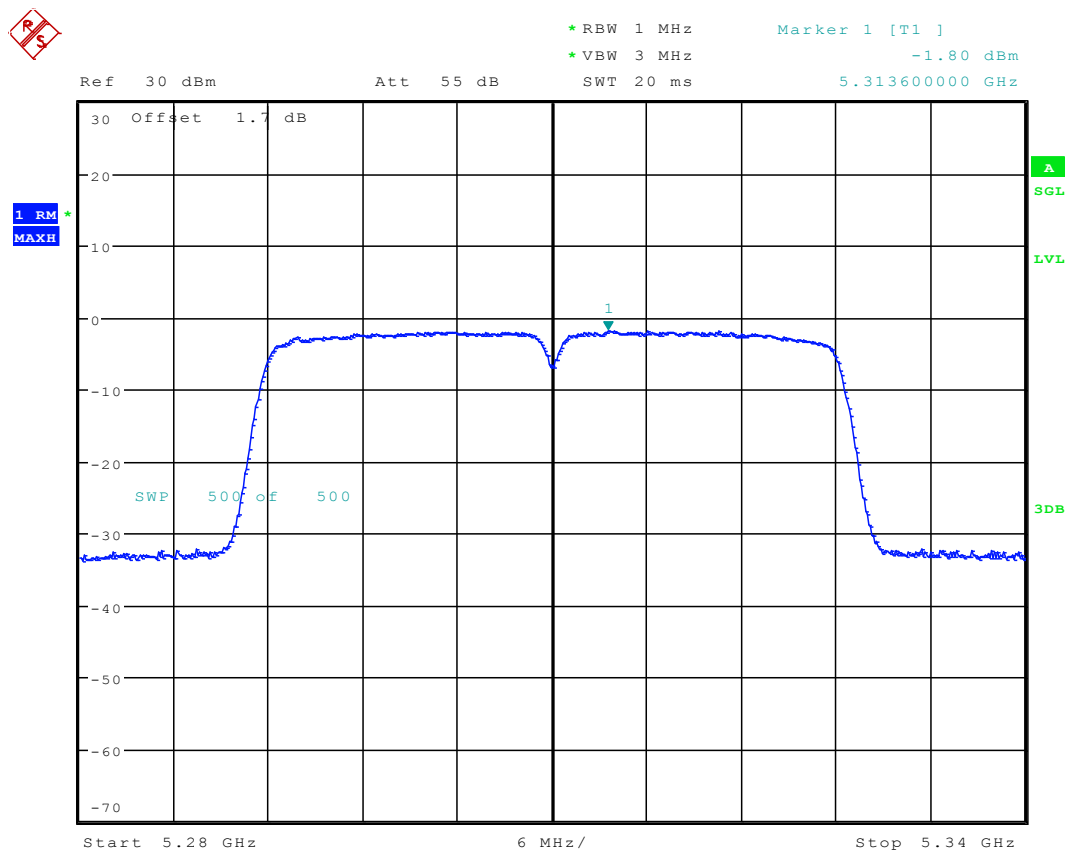
Date: 3.JAN.2017 14:43:57

9.27 11AC40_54 ANT 1



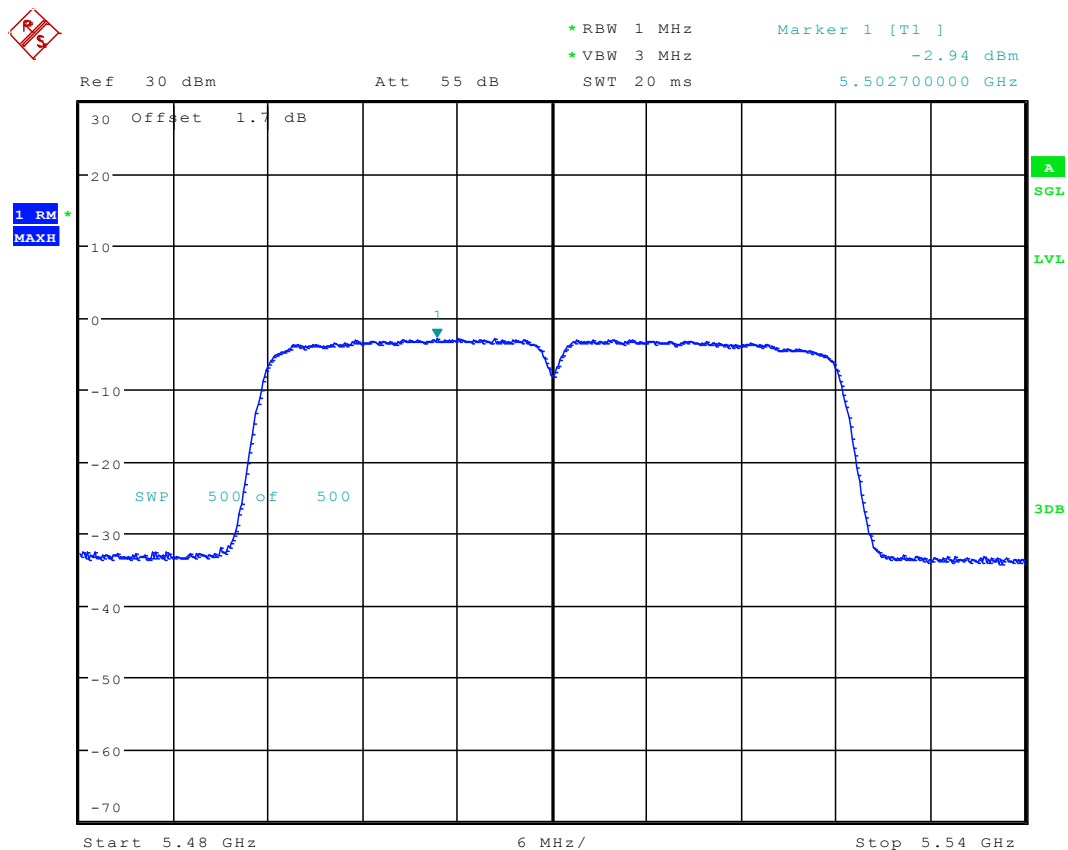
Date: 3.JAN.2017 15:06:16

9.28 11AC40_62 ANT 1



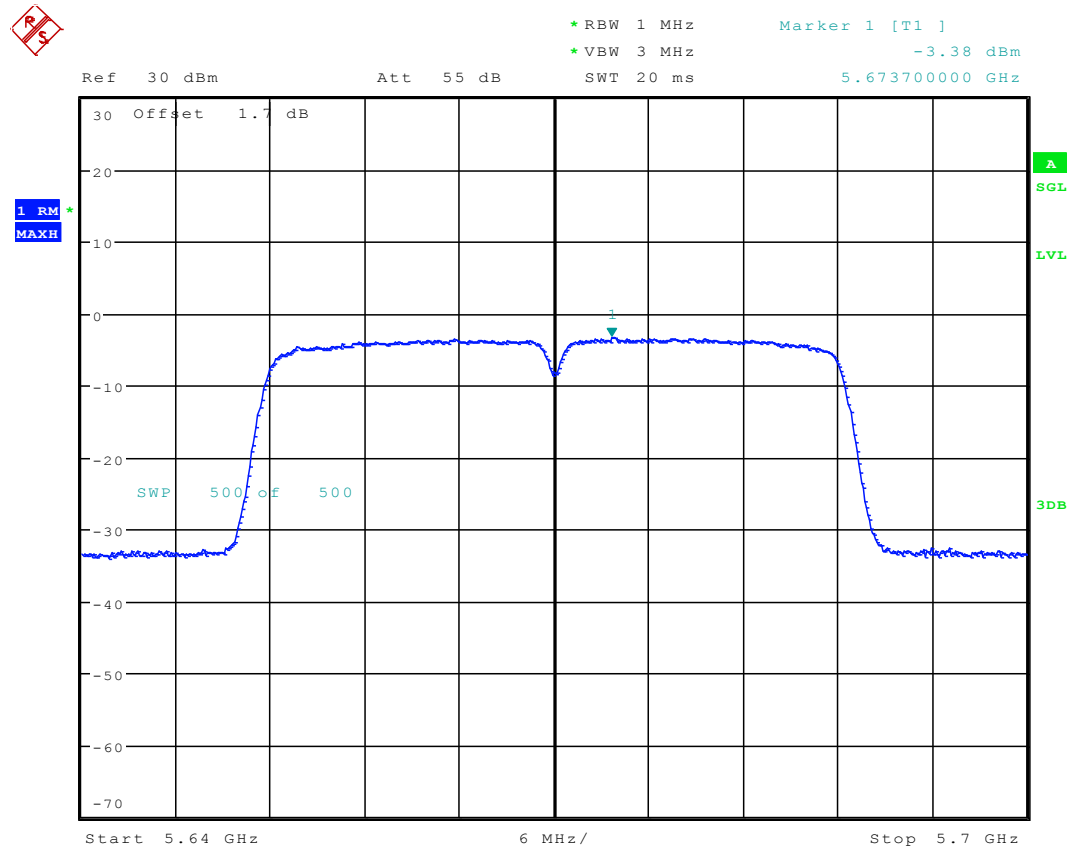
Date: 3.JAN.2017 14:52:28

9.29 11AC40_102 ANT 1



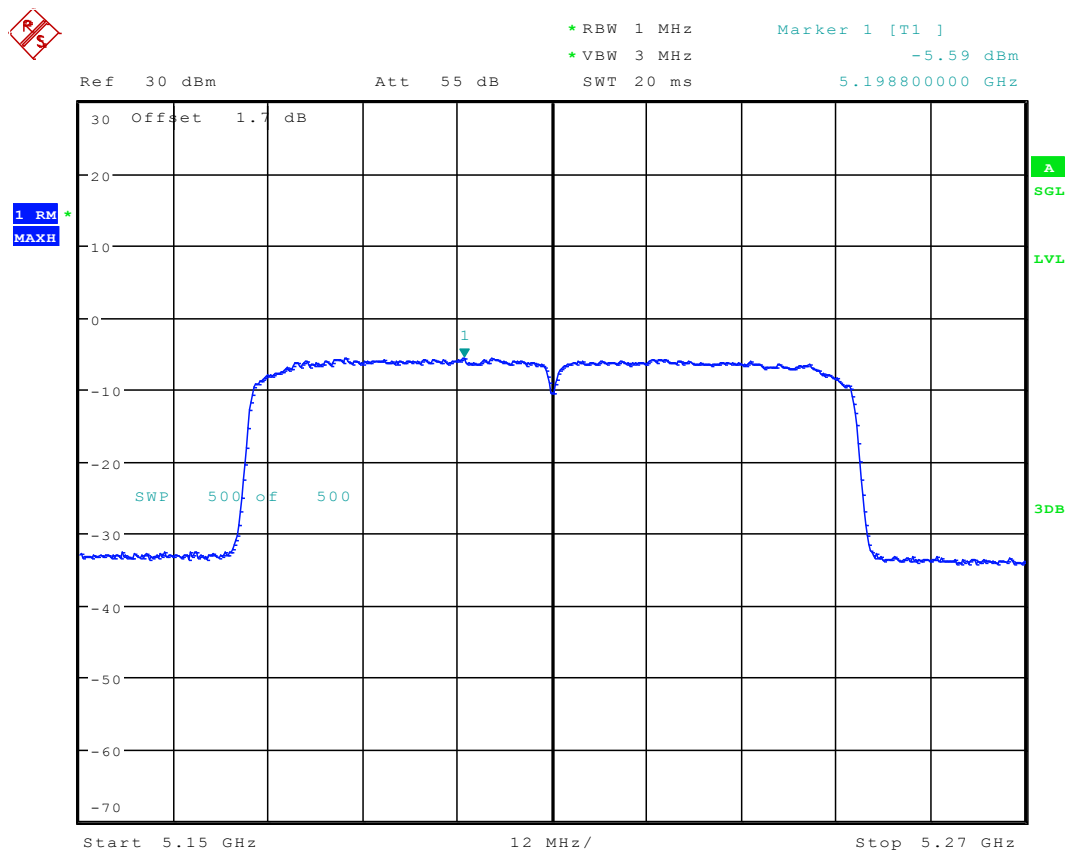
Date: 3.JAN.2017 15:14:11

9.30 11AC40_134 ANT 1



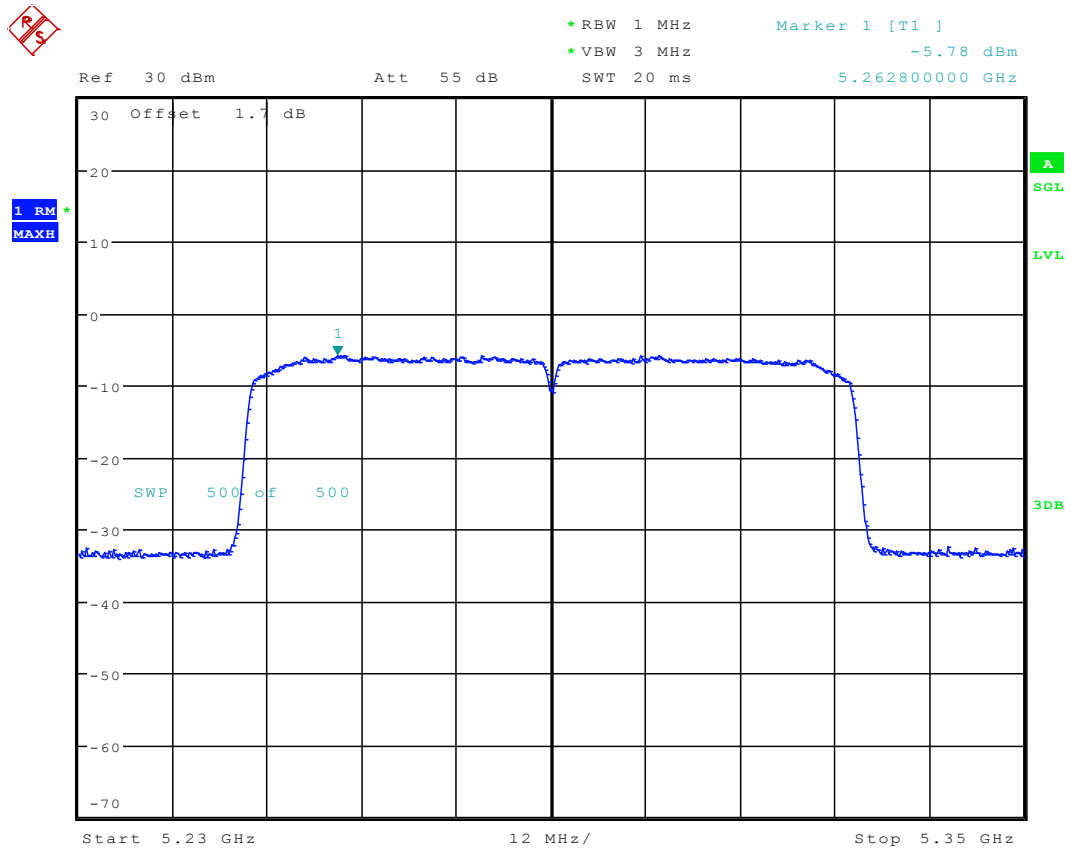
Date: 3.JAN.2017 15:17:27

9.31 11AC80_42 ANT 1



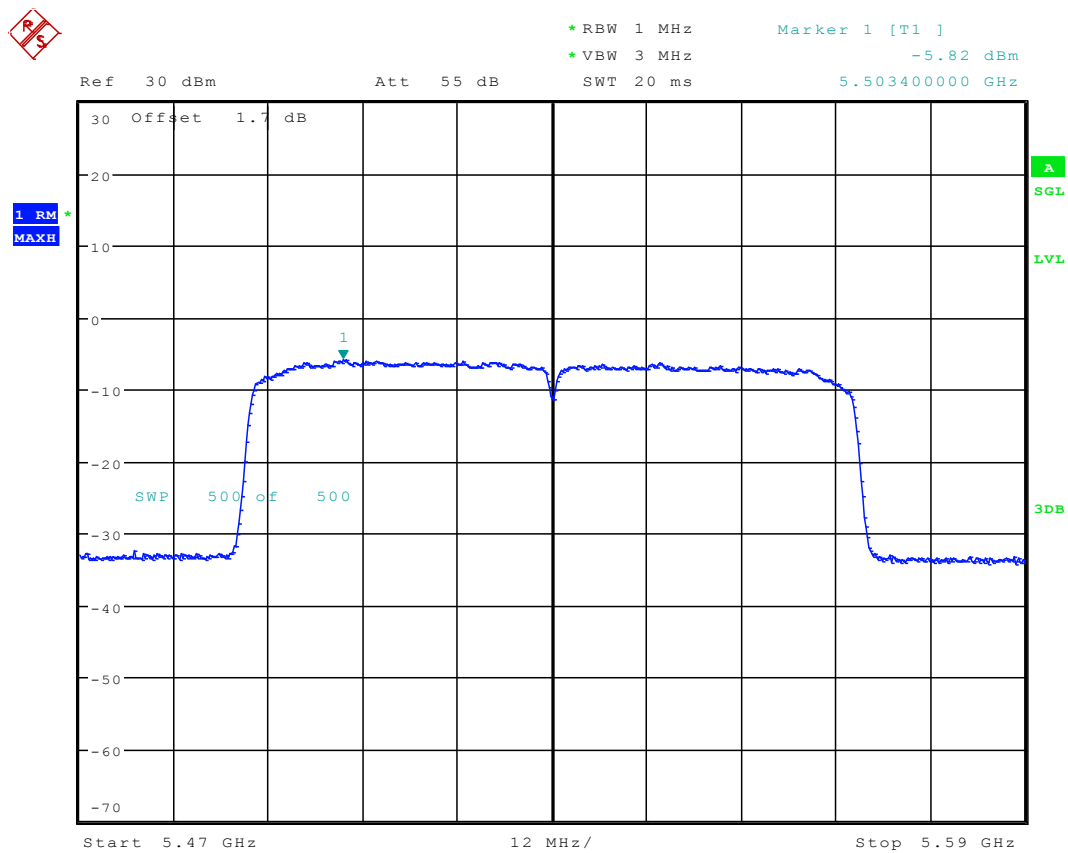
Date: 3.JAN.2017 15:28:09

9.32 11AC80_58 ANT 1



Date: 3.JAN.2017 15:39:17

9.33 11AC80_106 ANT 1



Date: 3.JAN.2017 16:05:06



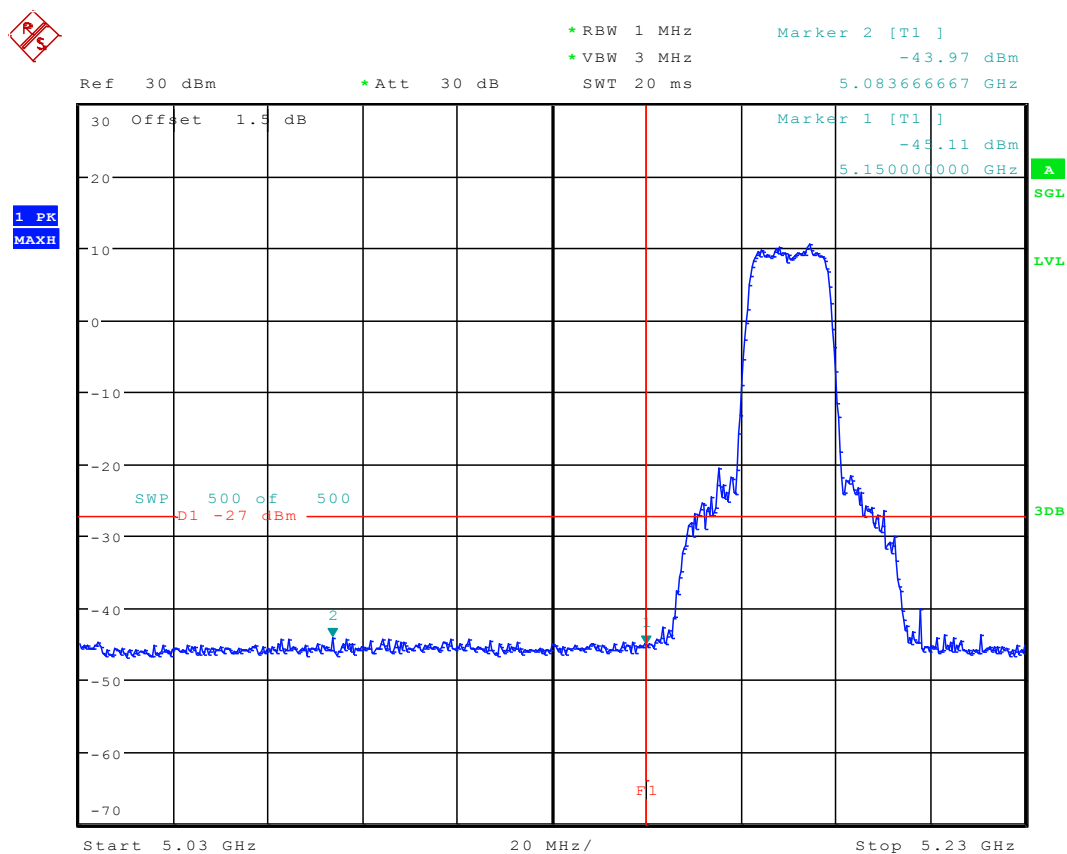
Appendix F: Unwanted Emissions into Non-Restricted Frequency Bands

10 Result Table

FCC Part15, Subpart E		
Test Item	Frequency Range	Result
Unwanted Emissions into Non-Restricted Frequency Bands	5150-5250	PASS
	5250-5350	PASS
	5470-5725	PASS

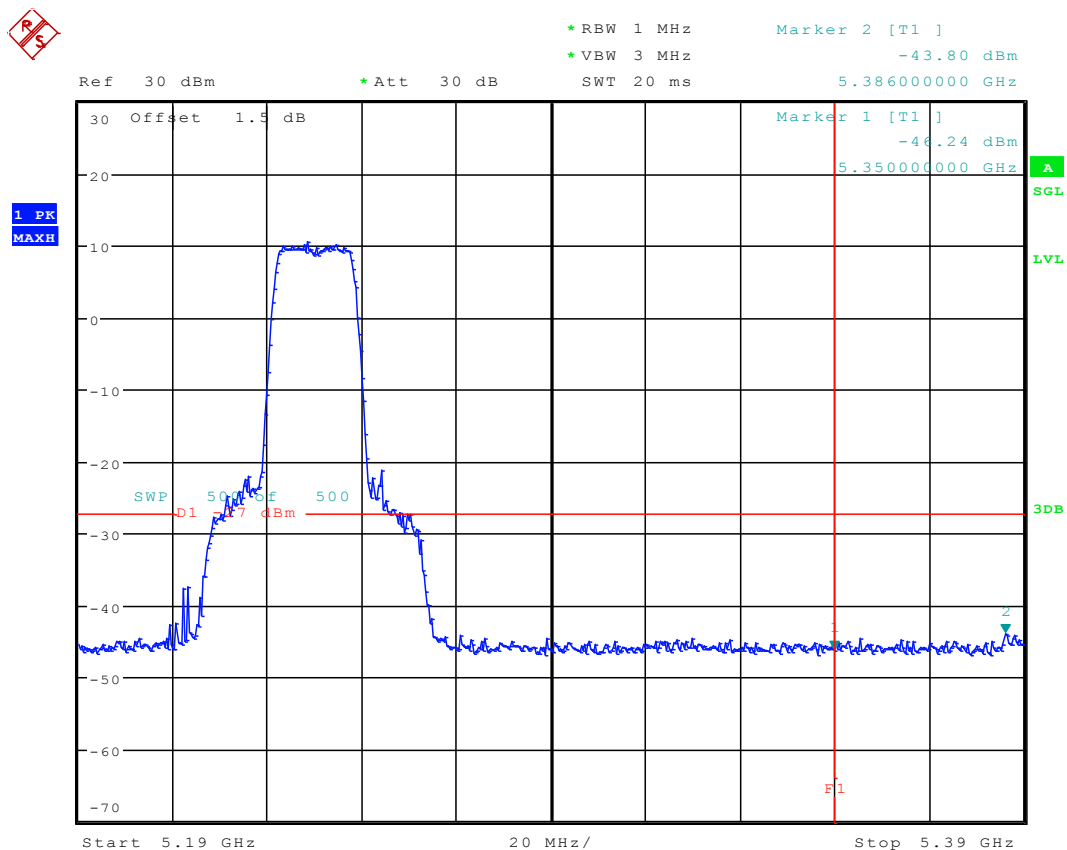
11 Test Plot

11.1 11A20_36 ANT 1



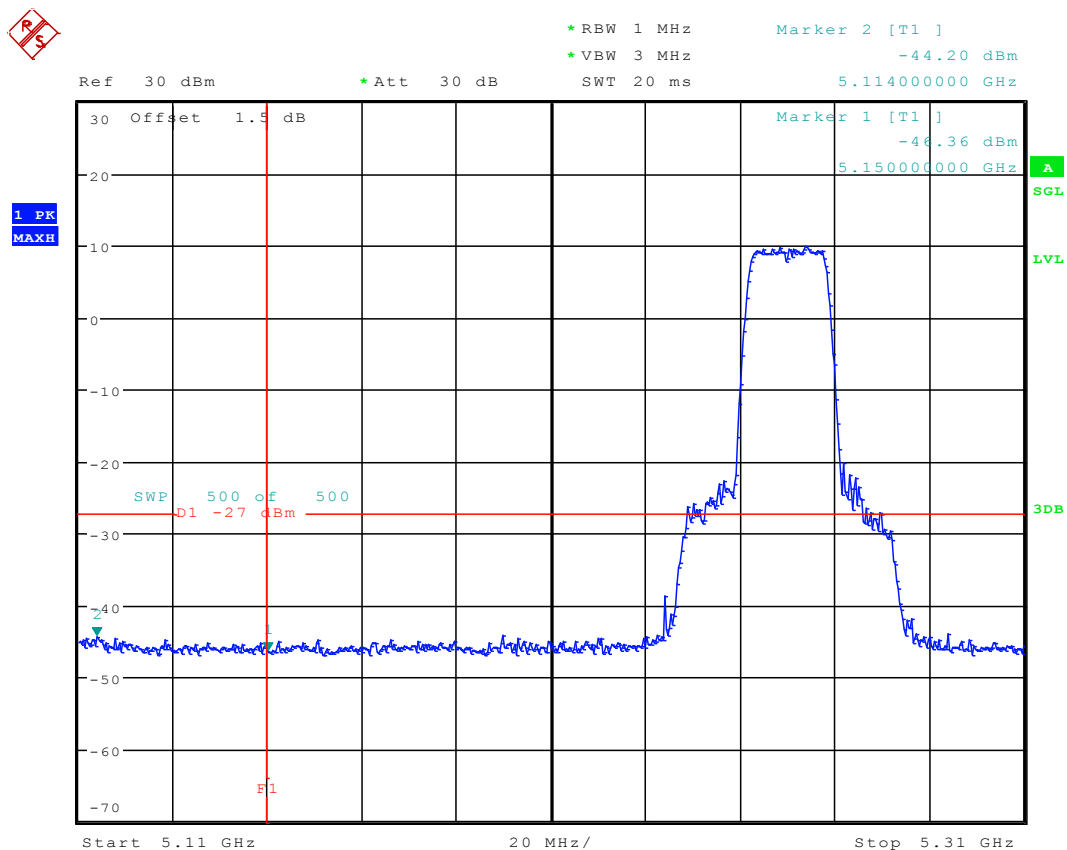
Date: 3.JAN.2017 12:53:47

11.2 11A20_48 ANT 1



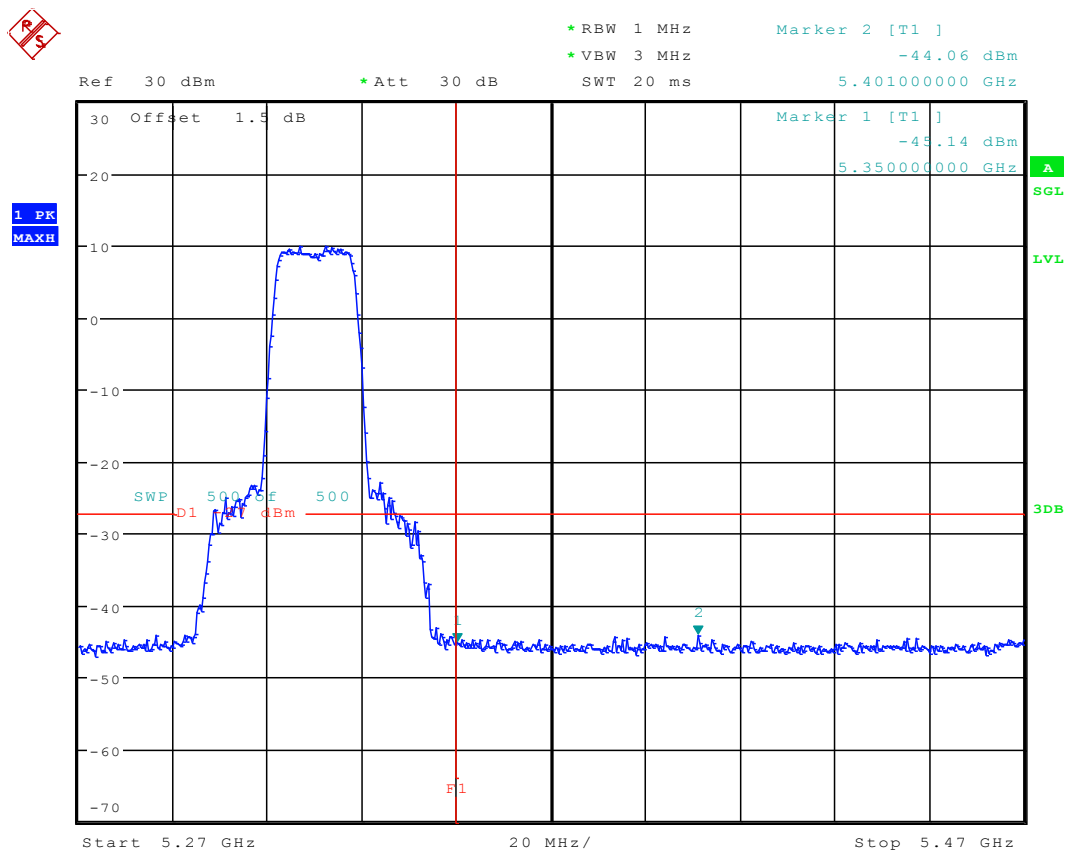
Date: 3.JAN.2017 13:00:14

11.3 11A20_52 ANT 1



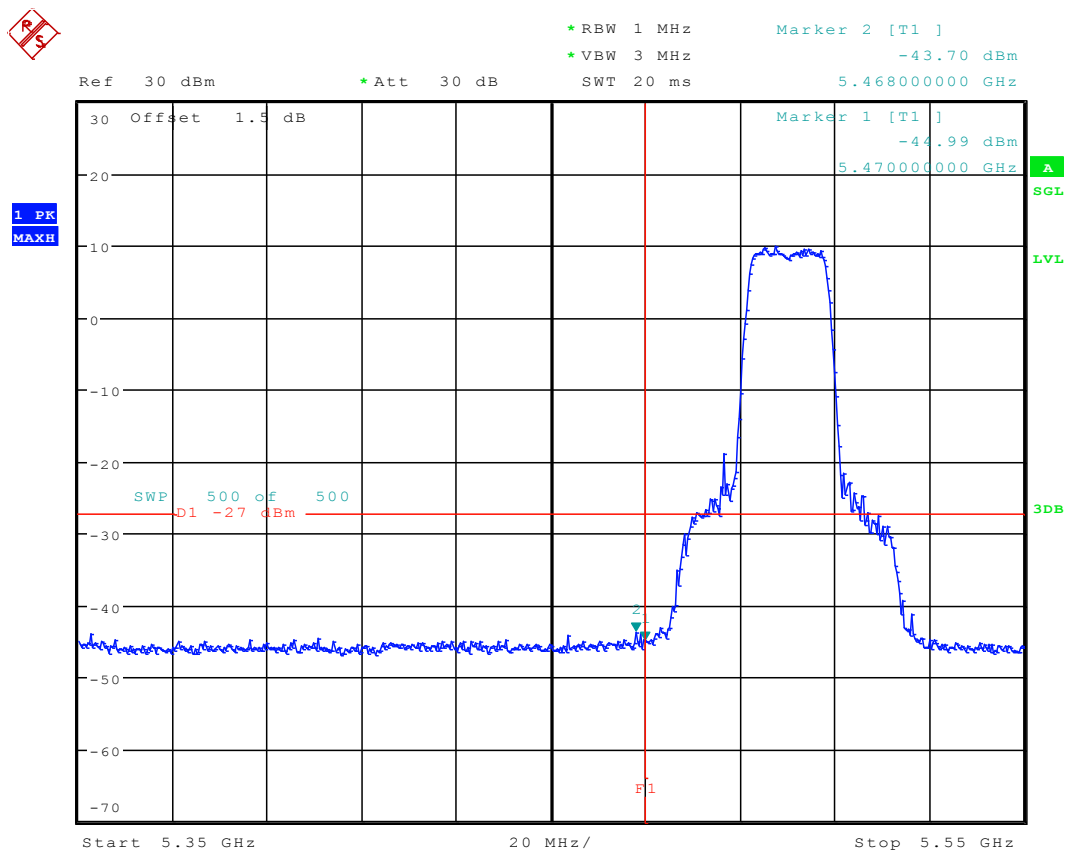
Date: 3.JAN.2017 13:05:41

11.4 11A20_64 ANT 1



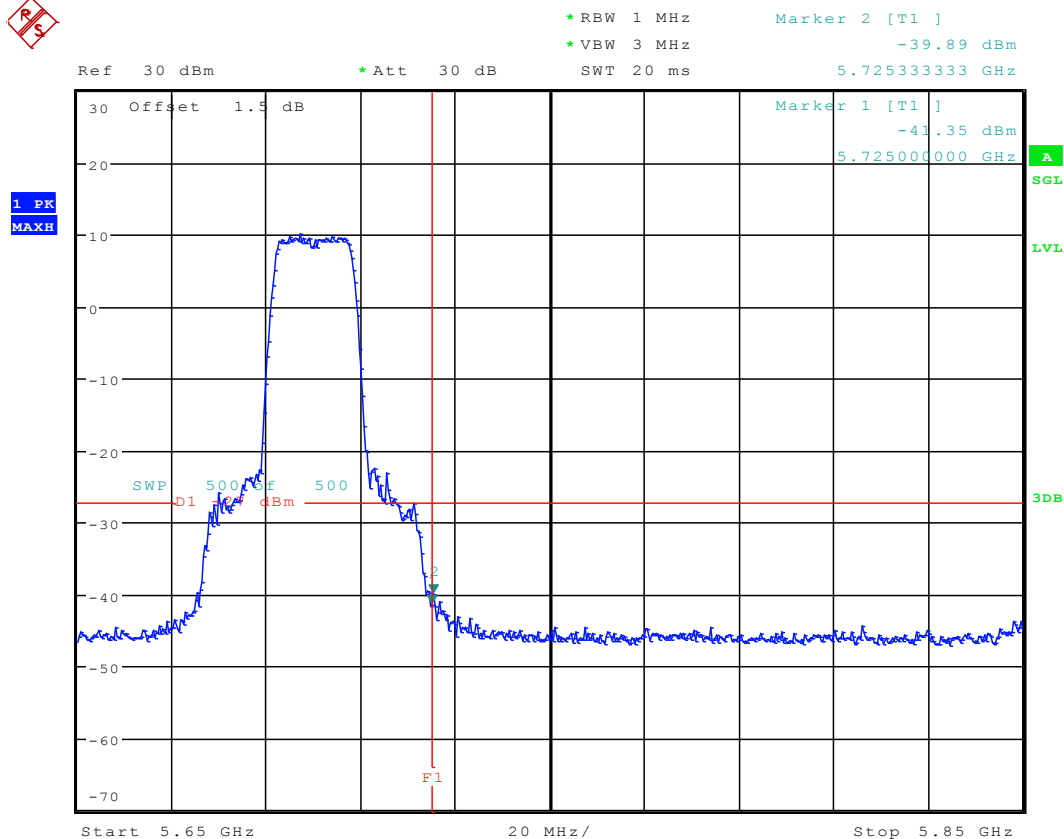
Date: 3.JAN.2017 13:12:24

11.5 11A20_100 ANT 1



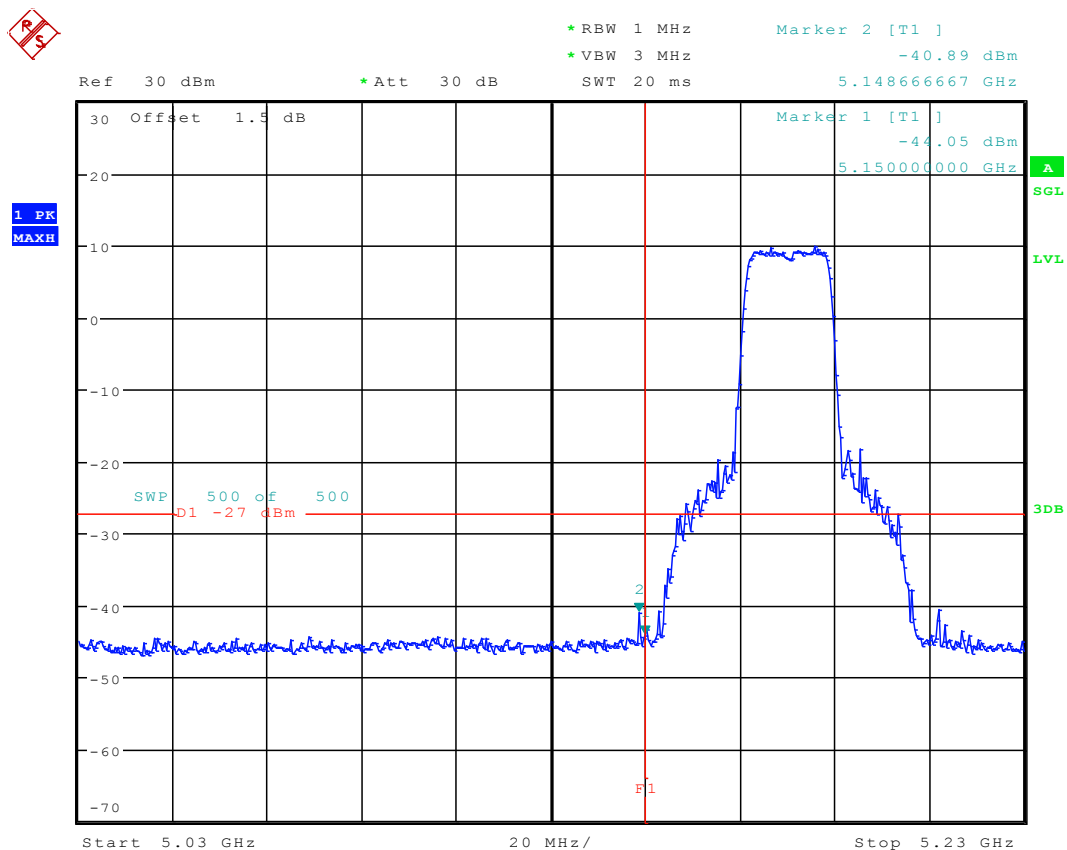
Date: 3.JAN.2017 13:17:57

11.6 11A20_140 ANT 1



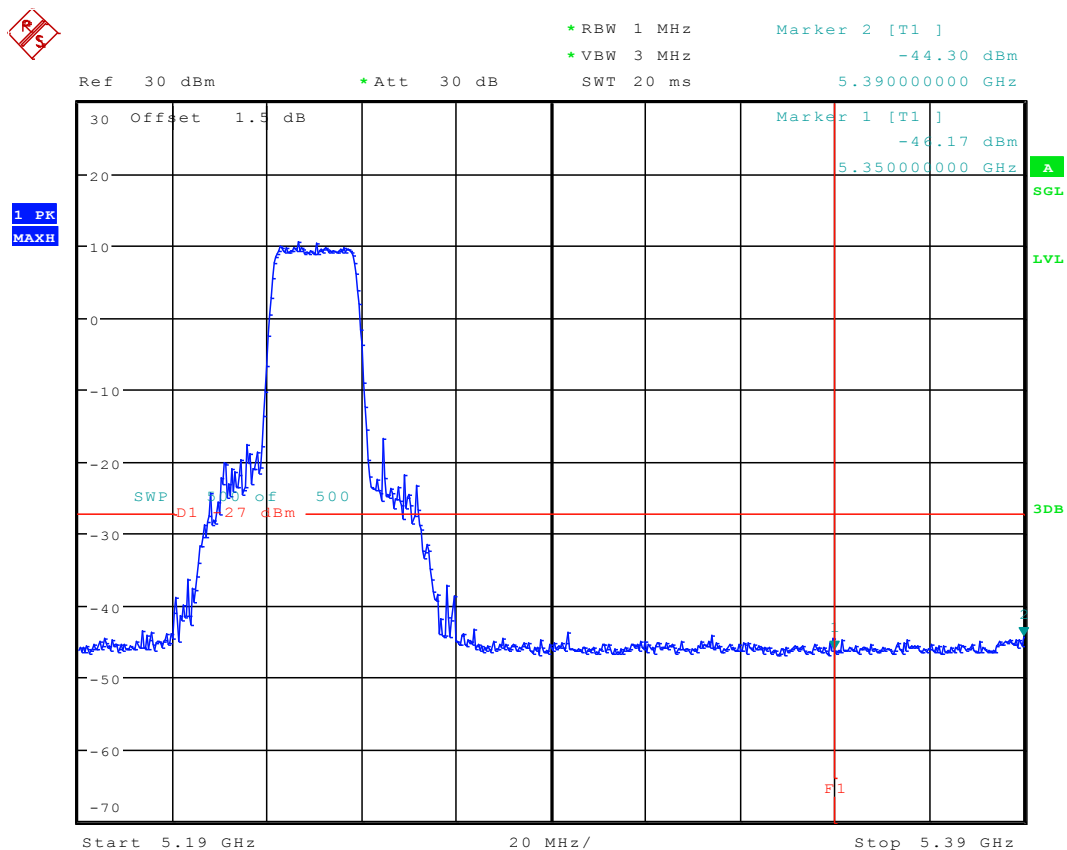
Date: 3.JAN.2017 13:26:39

11.7 11N20_36 ANT 1



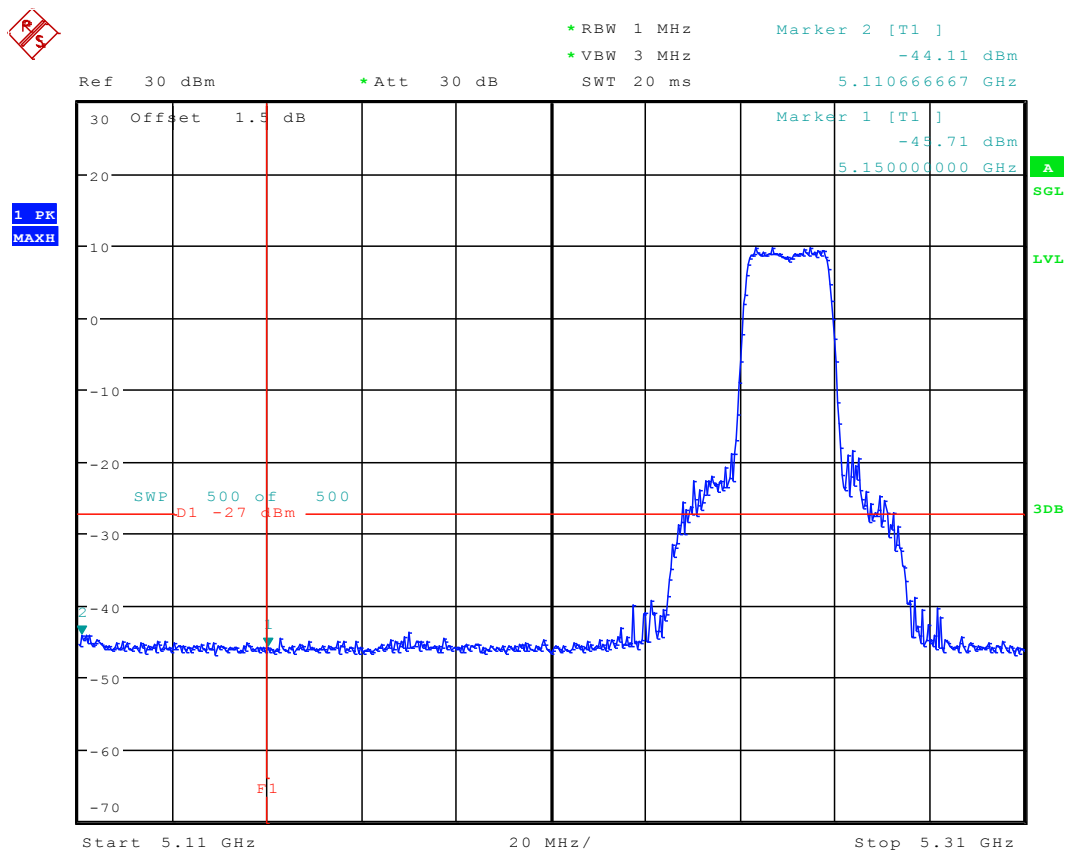
Date: 3.JAN.2017 13:33:54

11.8 11N20_48 ANT 1



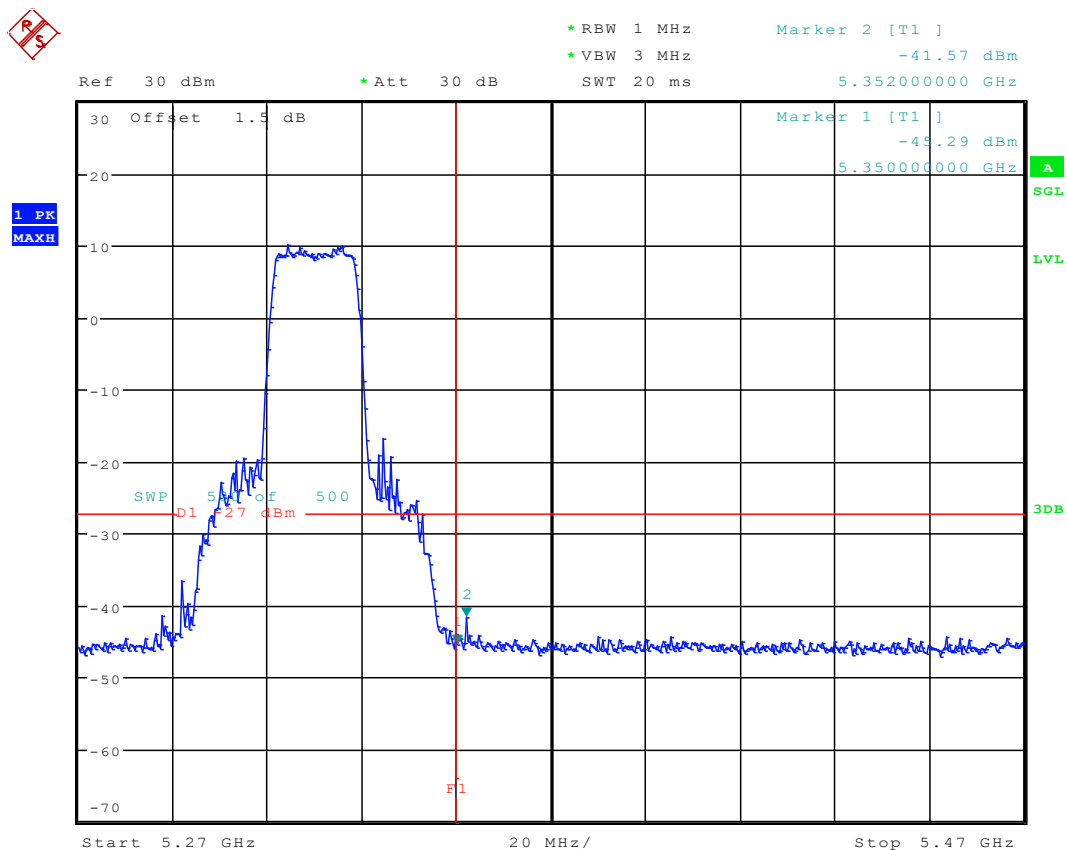
Date: 3.JAN.2017 13:39:32

11.9 11N20_52 ANT 1



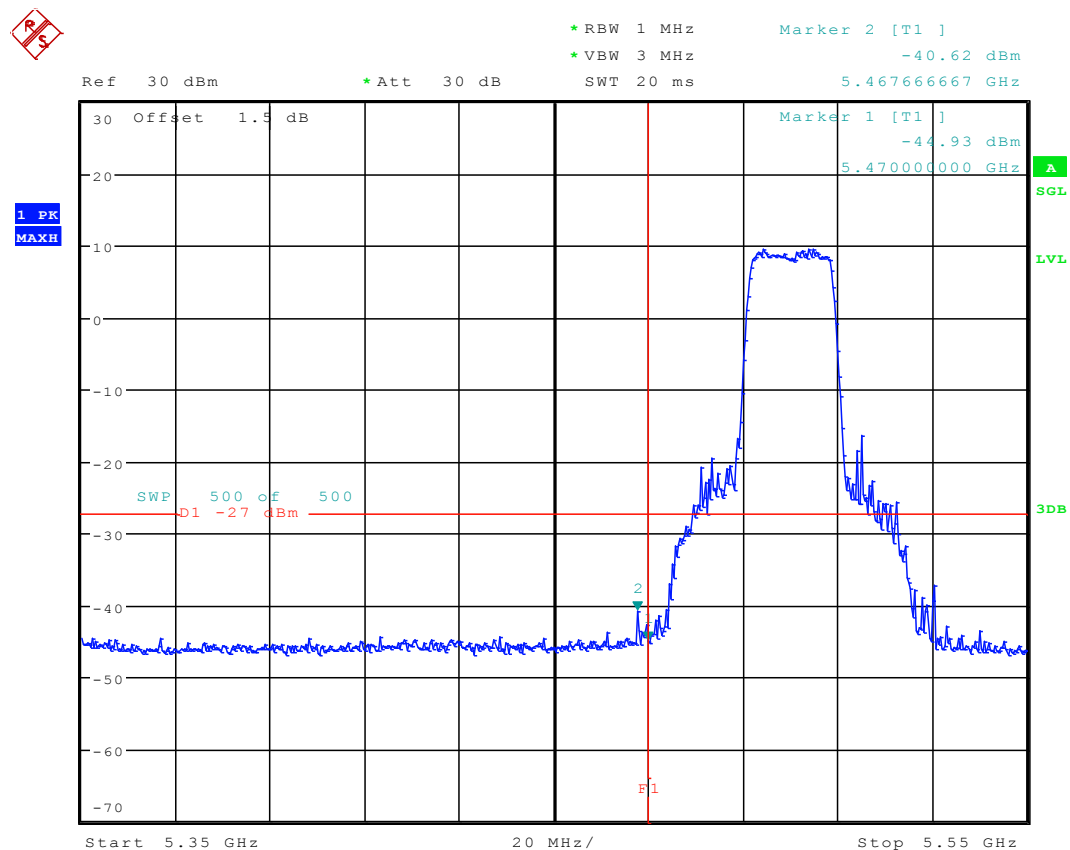
Date: 3.JAN.2017 13:44:51

11.10 11N20_64 ANT 1



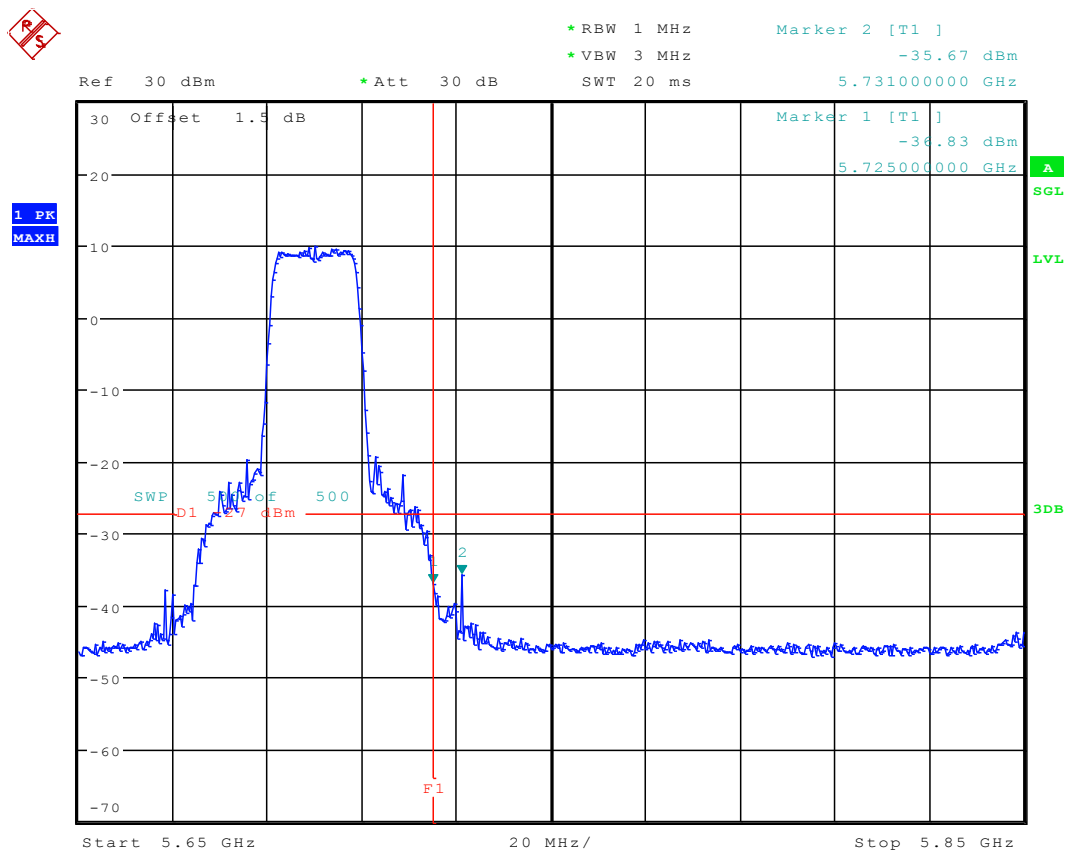
Date: 3.JAN.2017 13:50:06

11.11 11N20_100 ANT 1



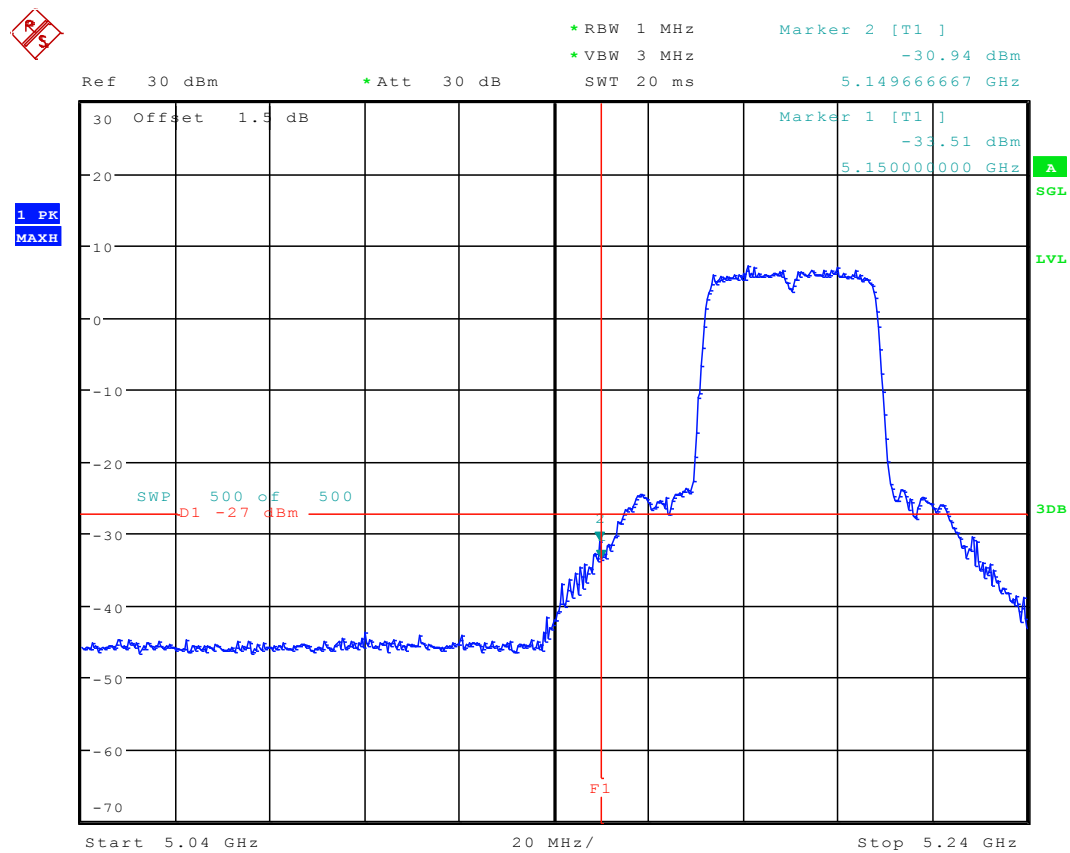
Date: 3.JAN.2017 13:55:33

11.12 11N20_140 ANT 1



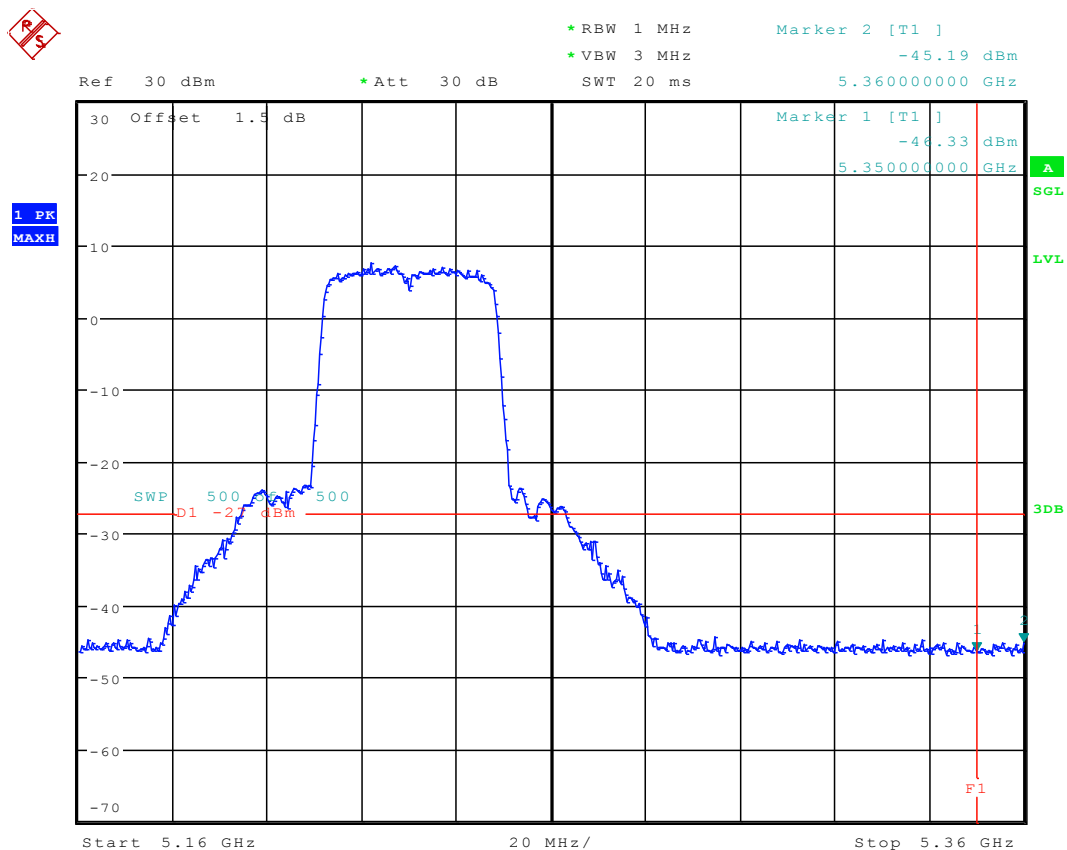
Date: 3.JAN.2017 14:00:27

11.13 11N40_38 ANT 1



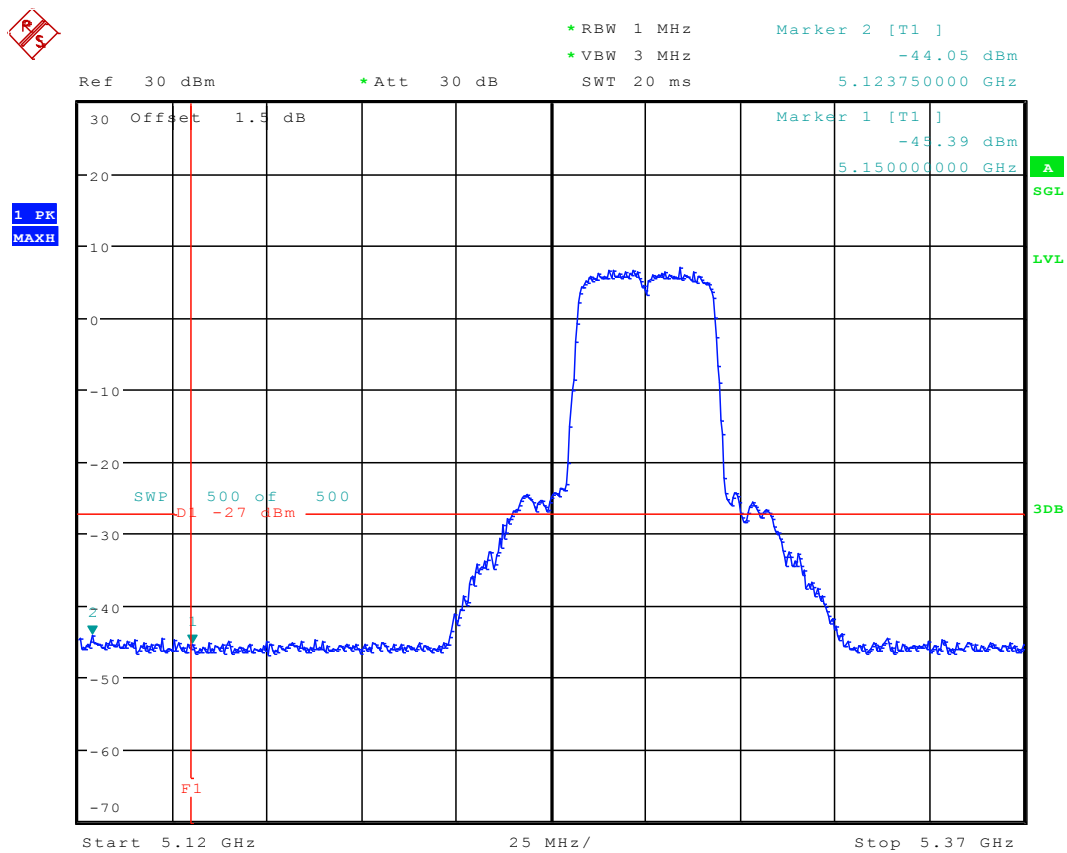
Date: 3.JAN.2017 14:06:52

11.14 11N40_46 ANT 1



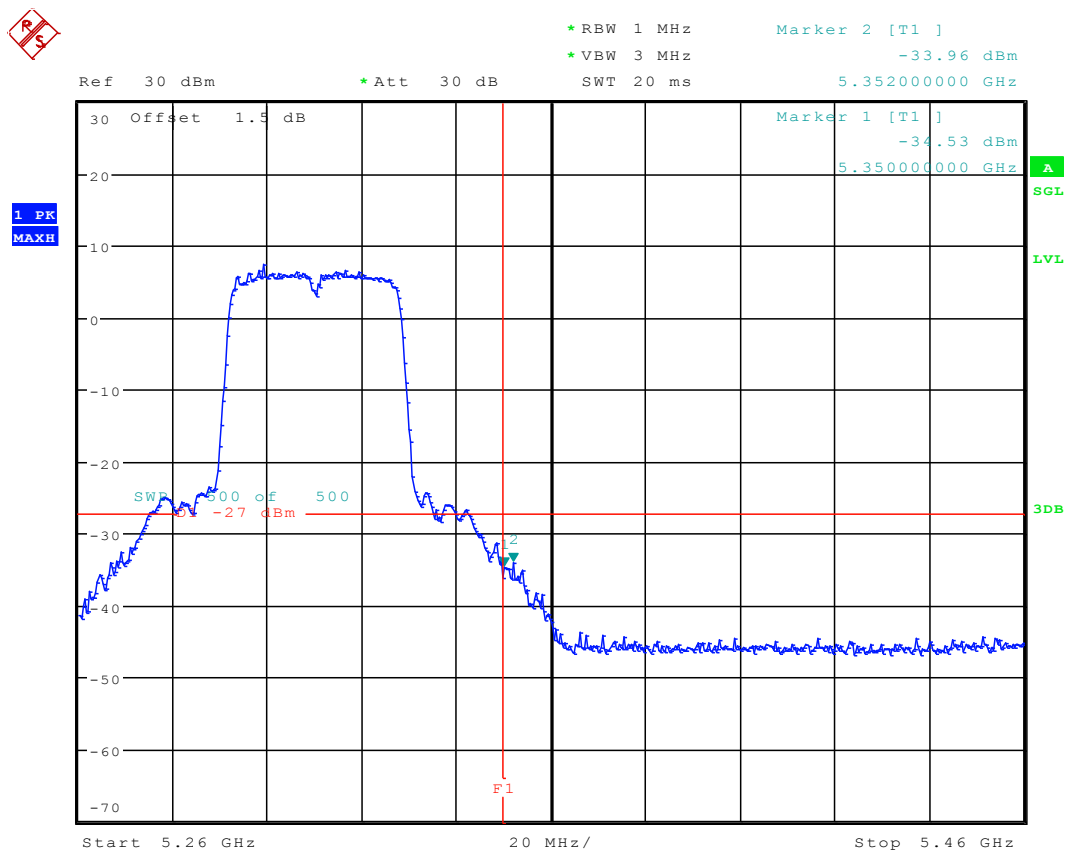
Date: 3.JAN.2017 14:14:09

11.15 11N40_54 ANT 1



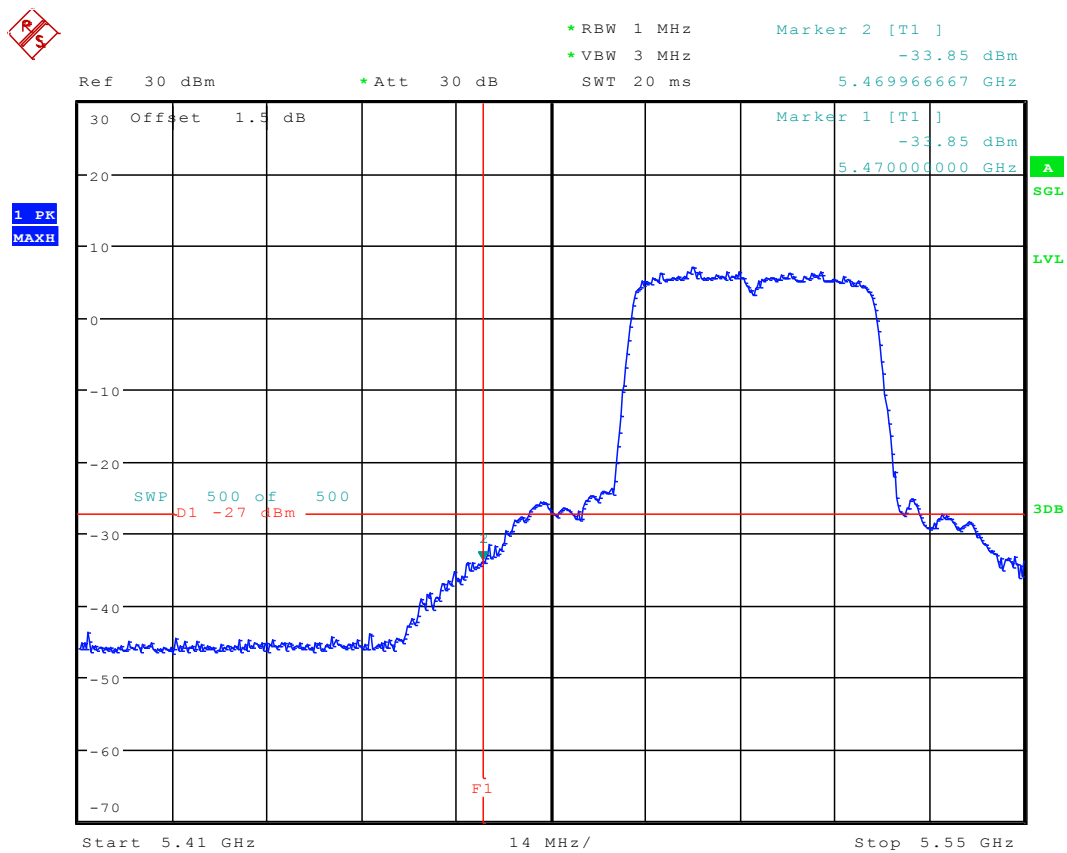
Date: 3.JAN.2017 14:19:40

11.16 11N40_62 ANT 1

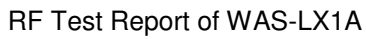


Date: 3.JAN.2017 14:26:49

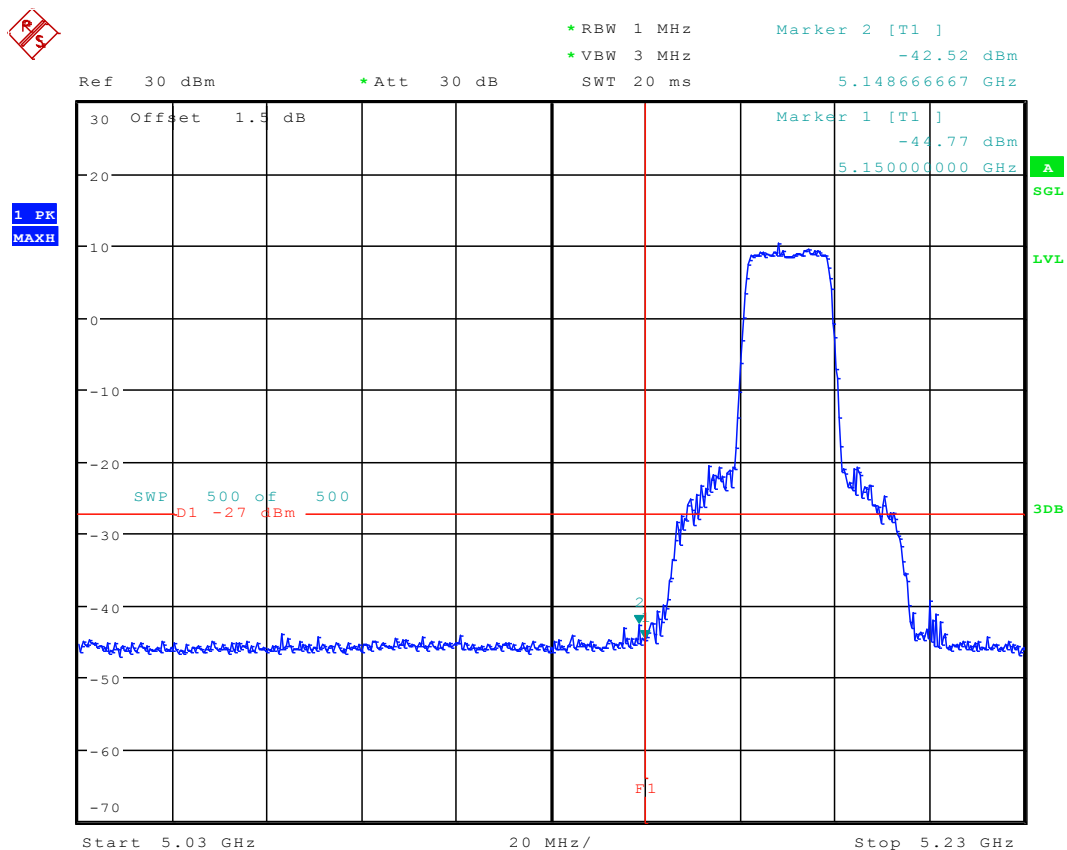
11.17 11N40_102 ANT 1



Date: 3.JAN.2017 14:30:07

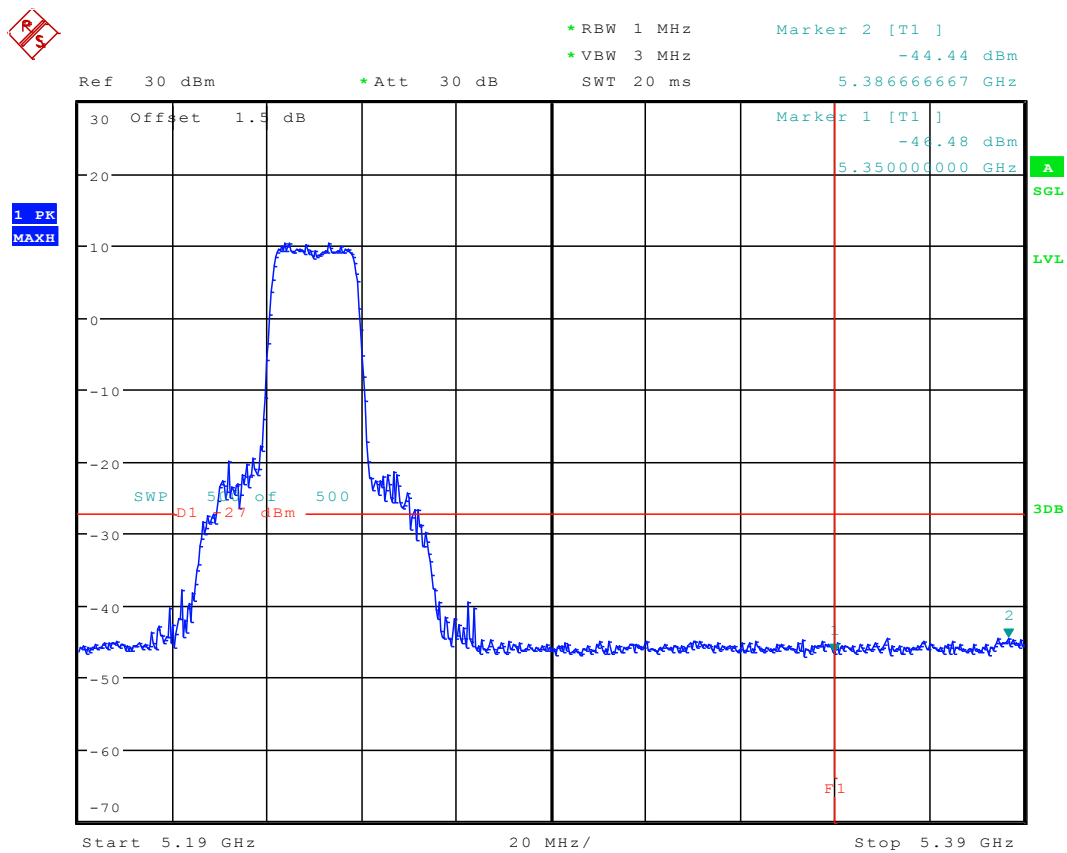


11.19 11AC20_36 ANT 1



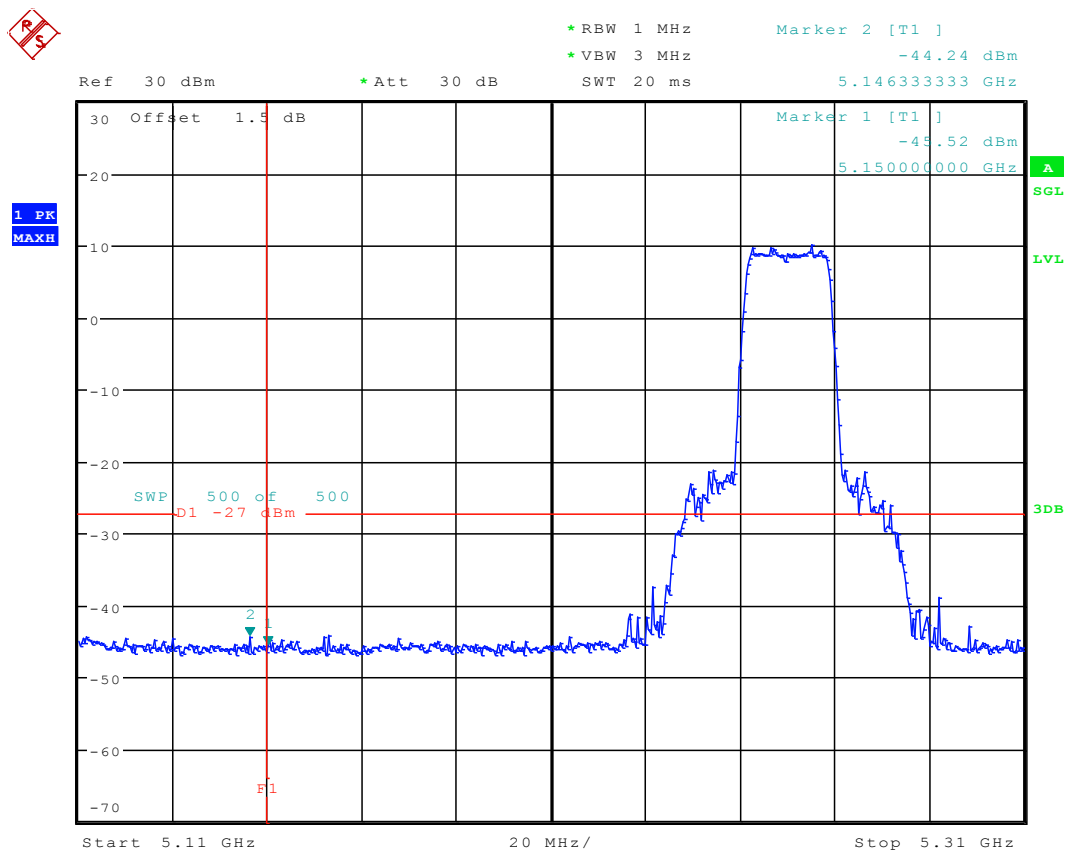
Date: 3.JAN.2017 12:20:25

11.20 11AC20_48 ANT 1



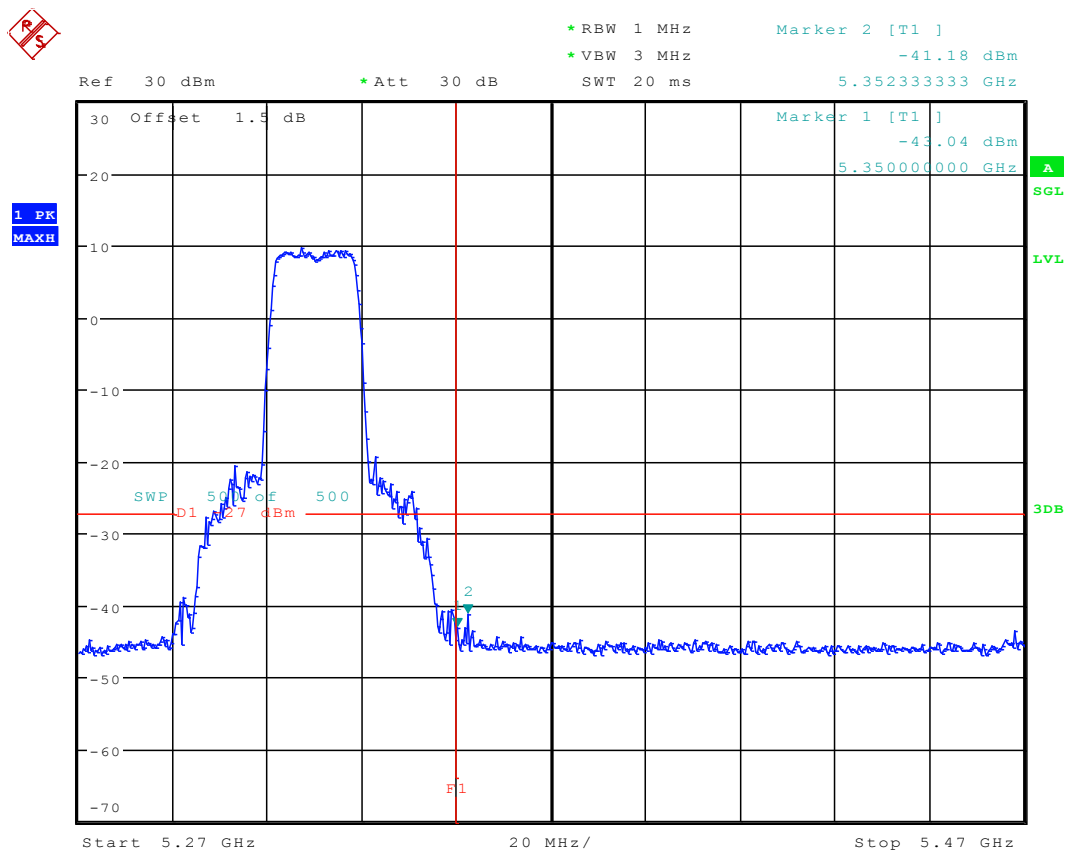
Date: 3.JAN.2017 12:25:28

11.21 11AC20_52 ANT 1



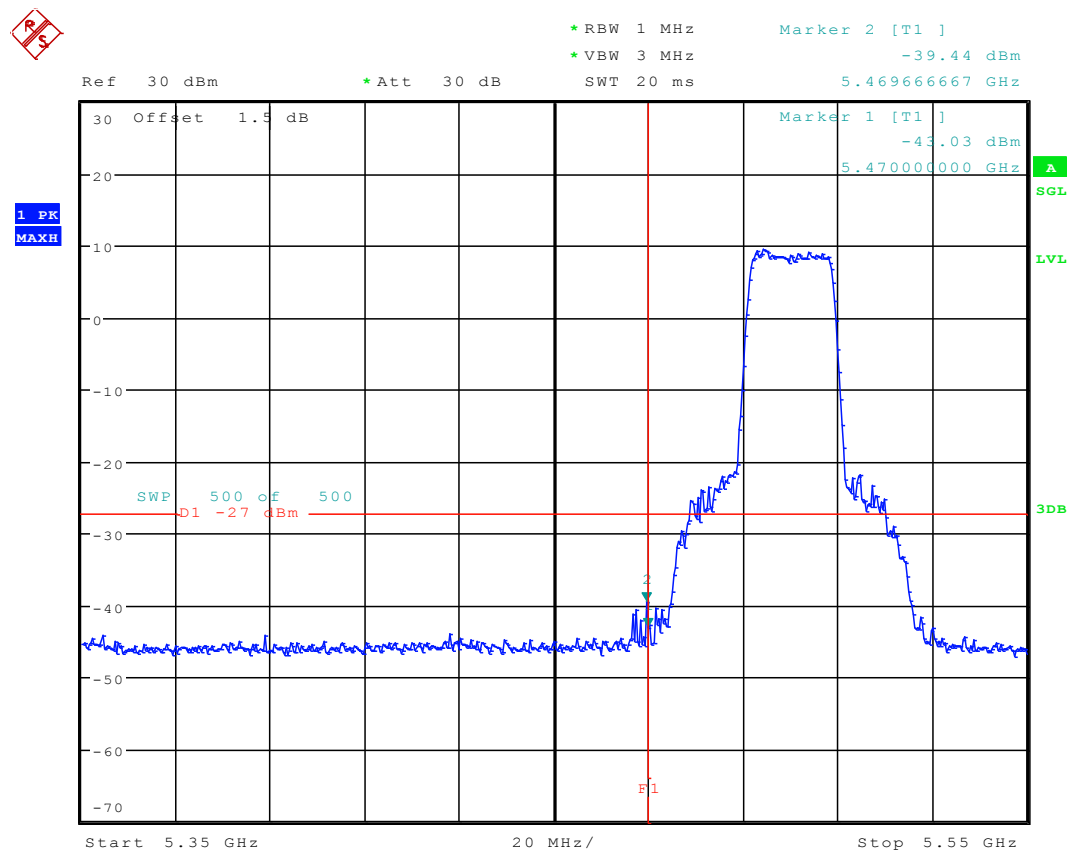
Date: 3.JAN.2017 12:31:06

11.22 11AC20_64 ANT 1



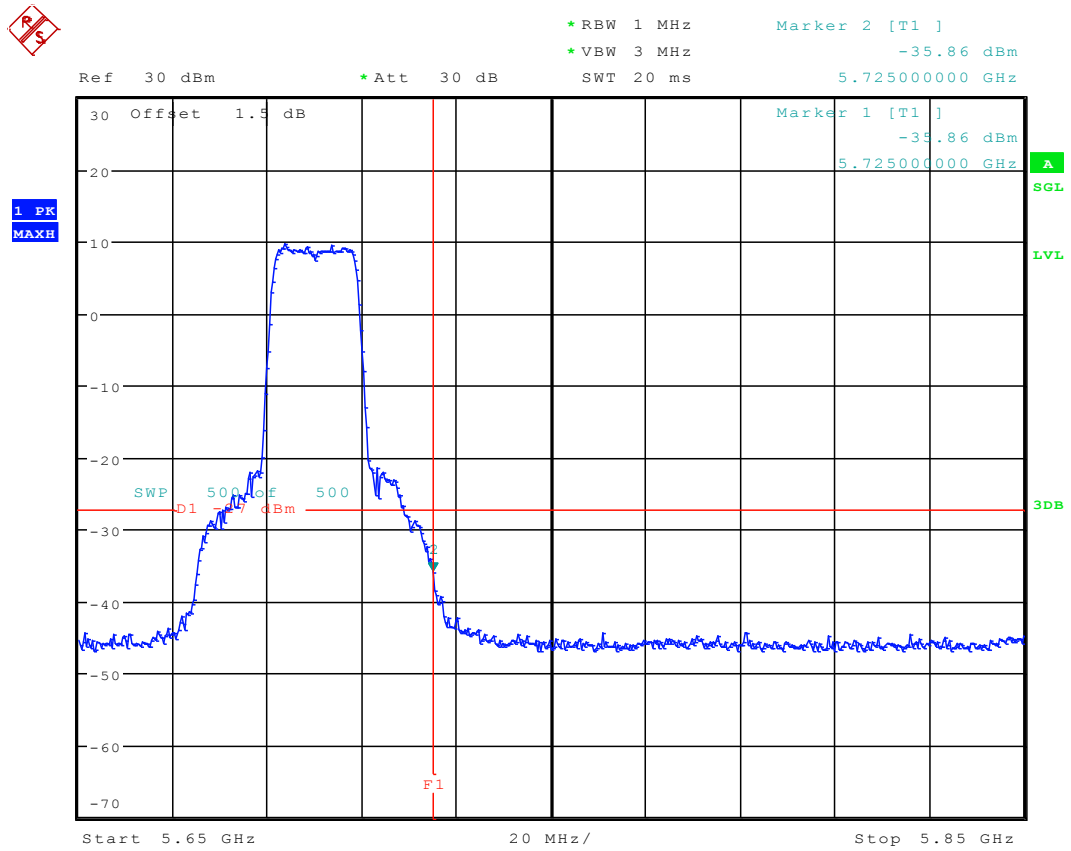
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11.23 11AC20_100 ANT 1



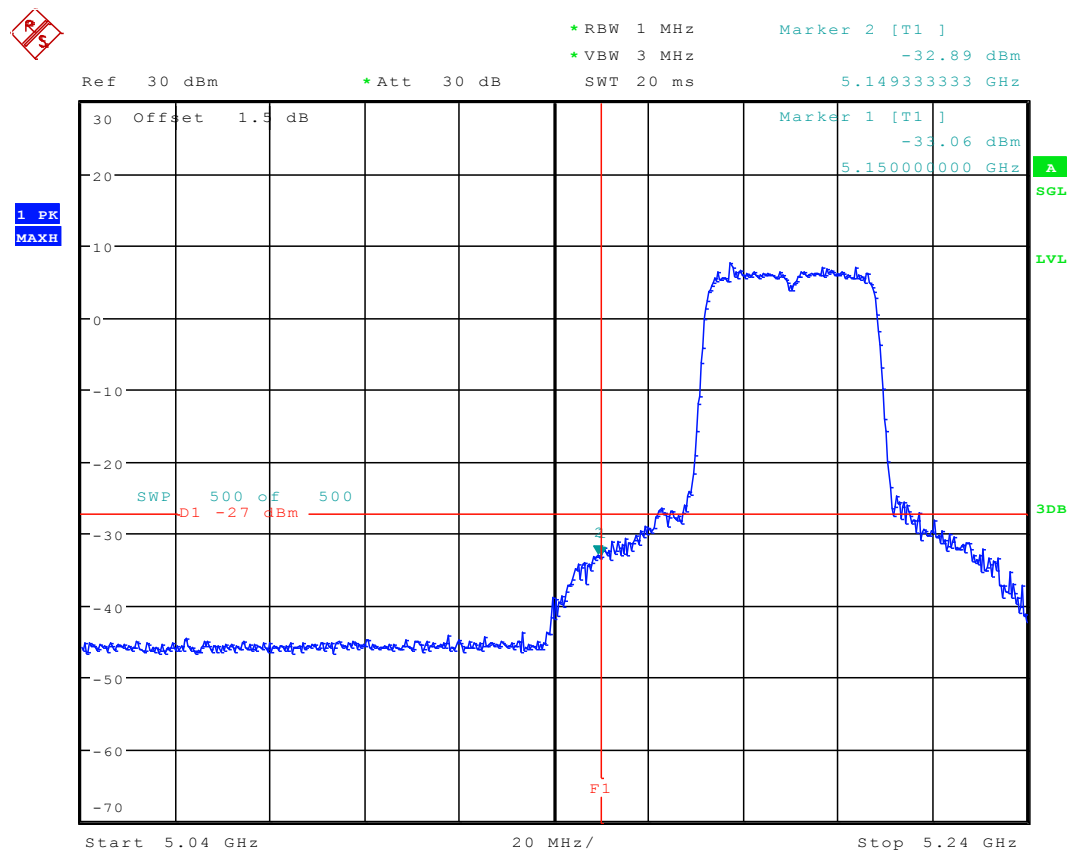
Date: 3.JAN.2017 12:41:33

11.24 11AC20_140 ANT 1



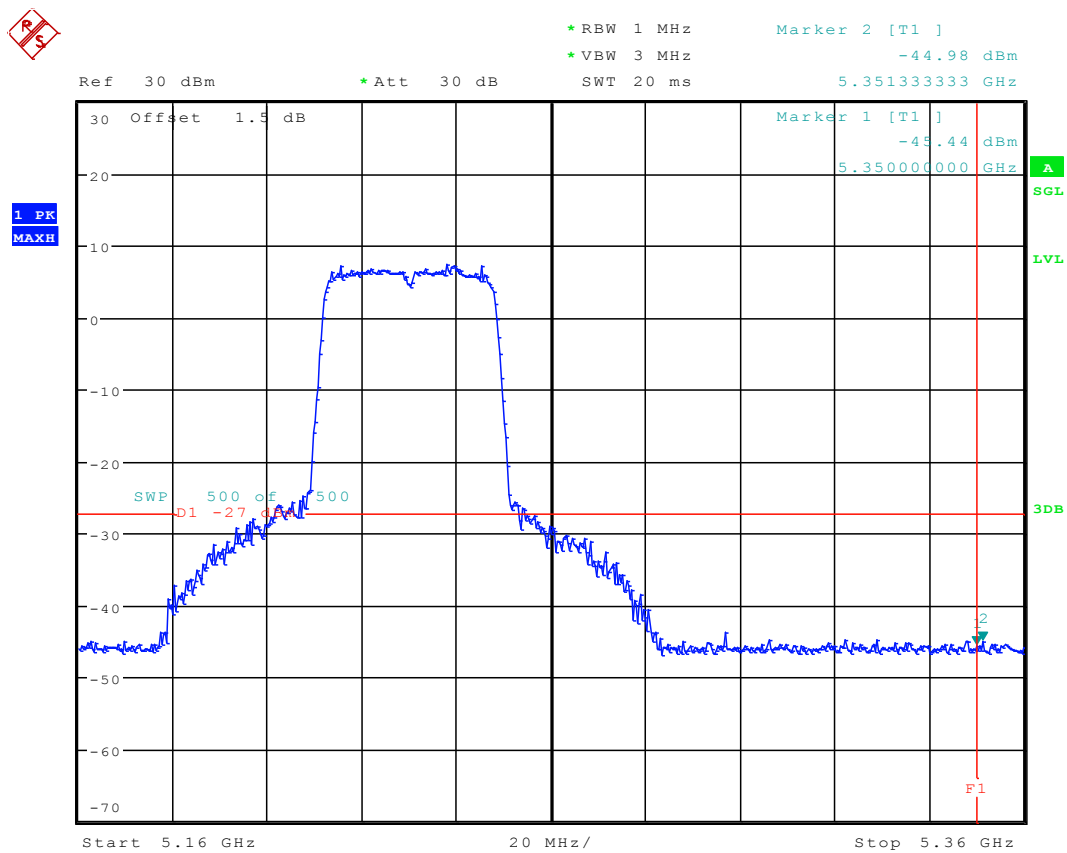
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11.25 11AC40_38 ANT 1

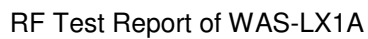


Date: 3.JAN.2017 14:40:04

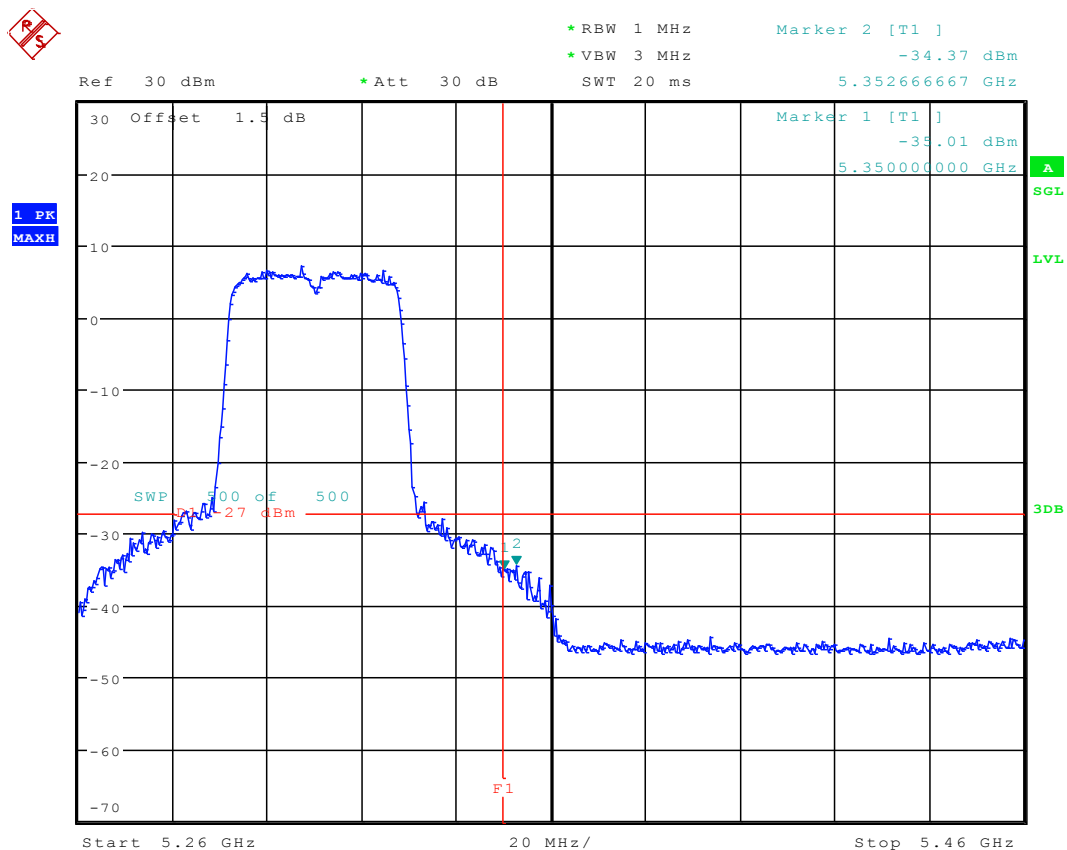
11.26 11AC40_46 ANT 1



Date: 3.JAN.2017 14:46:06

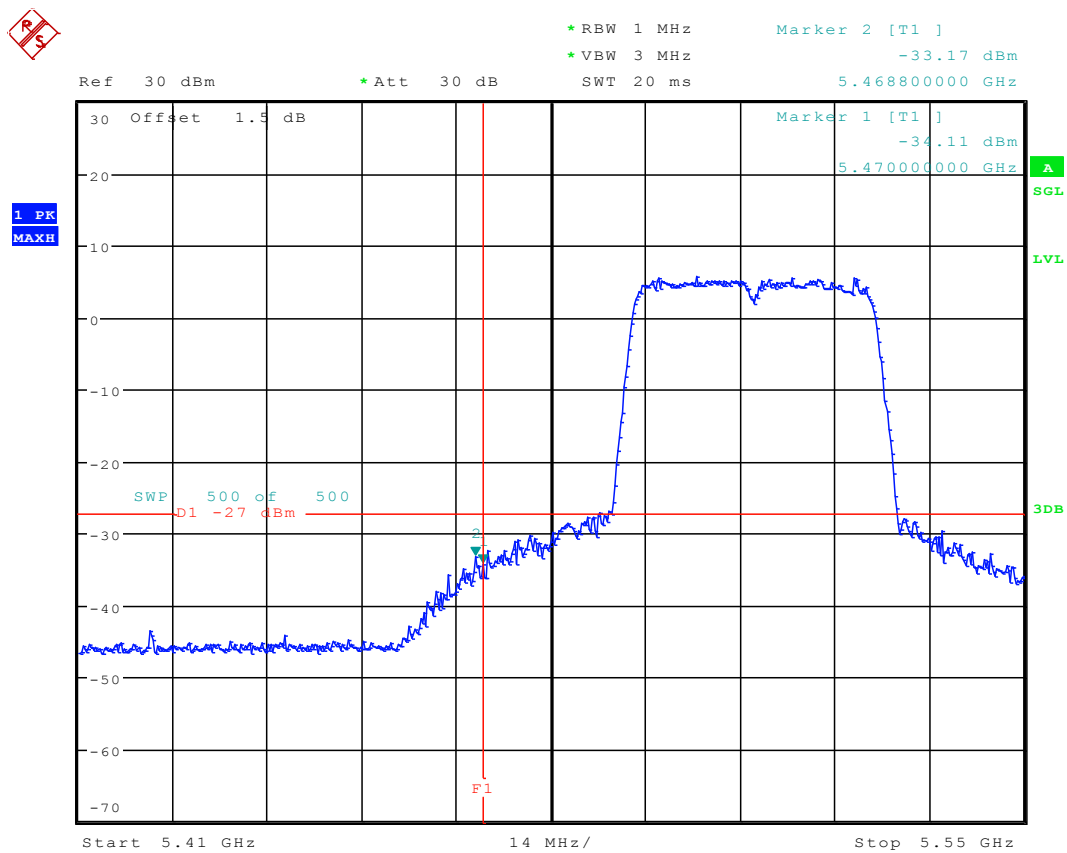


11.28 11AC40_62 ANT 1



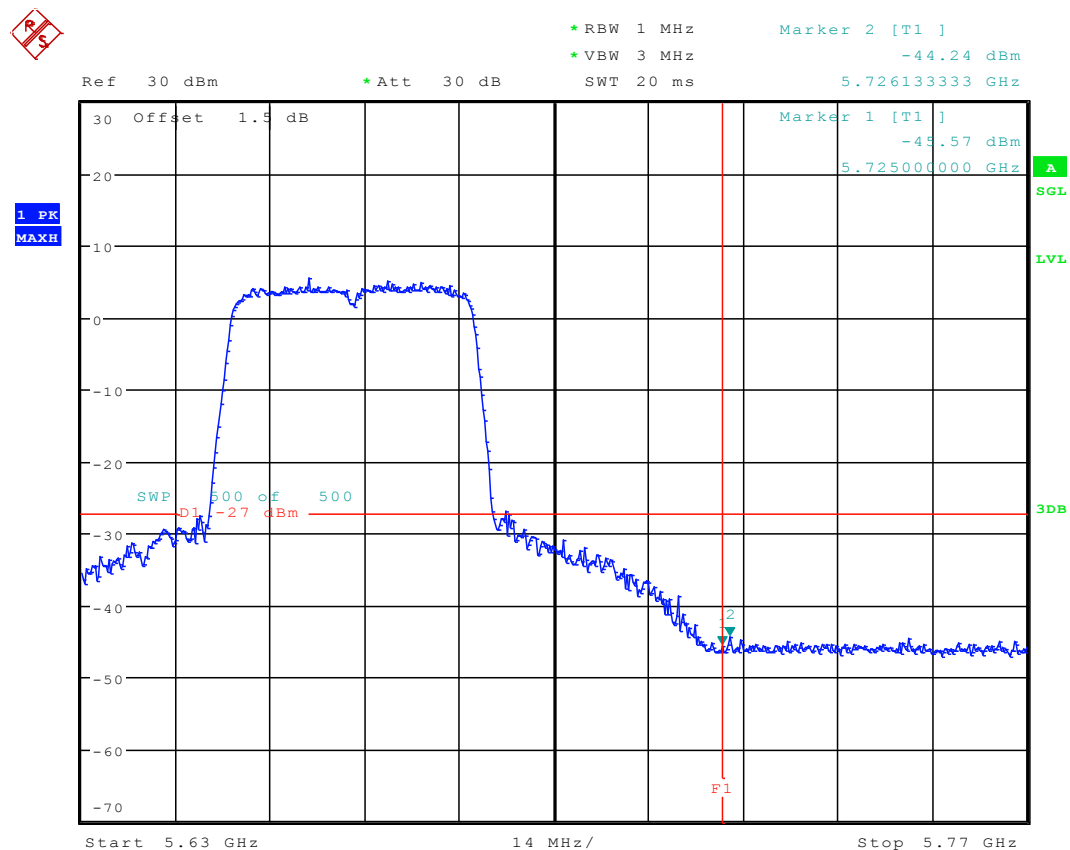
Date: 3.JAN.2017 14:54:34

11.29 11AC40_102 ANT 1



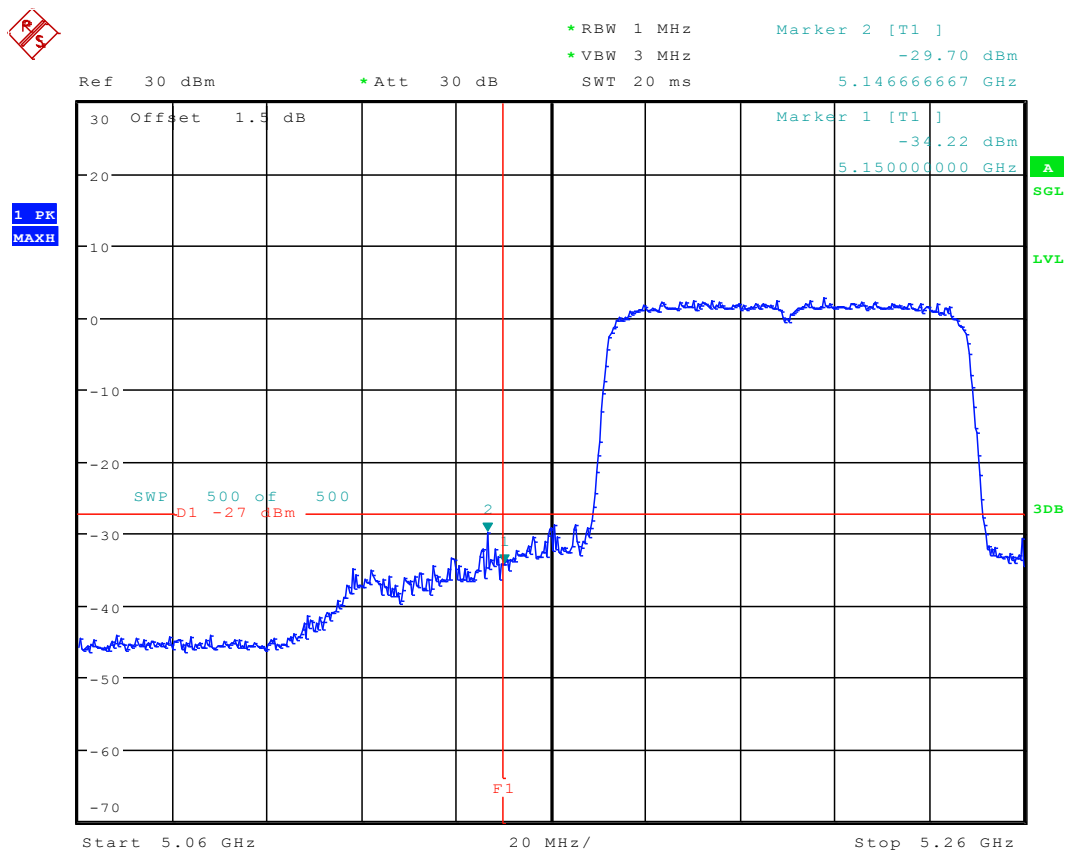
Date: 3.JAN.2017 15:14:41

11.30 11AC40_134 ANT 1



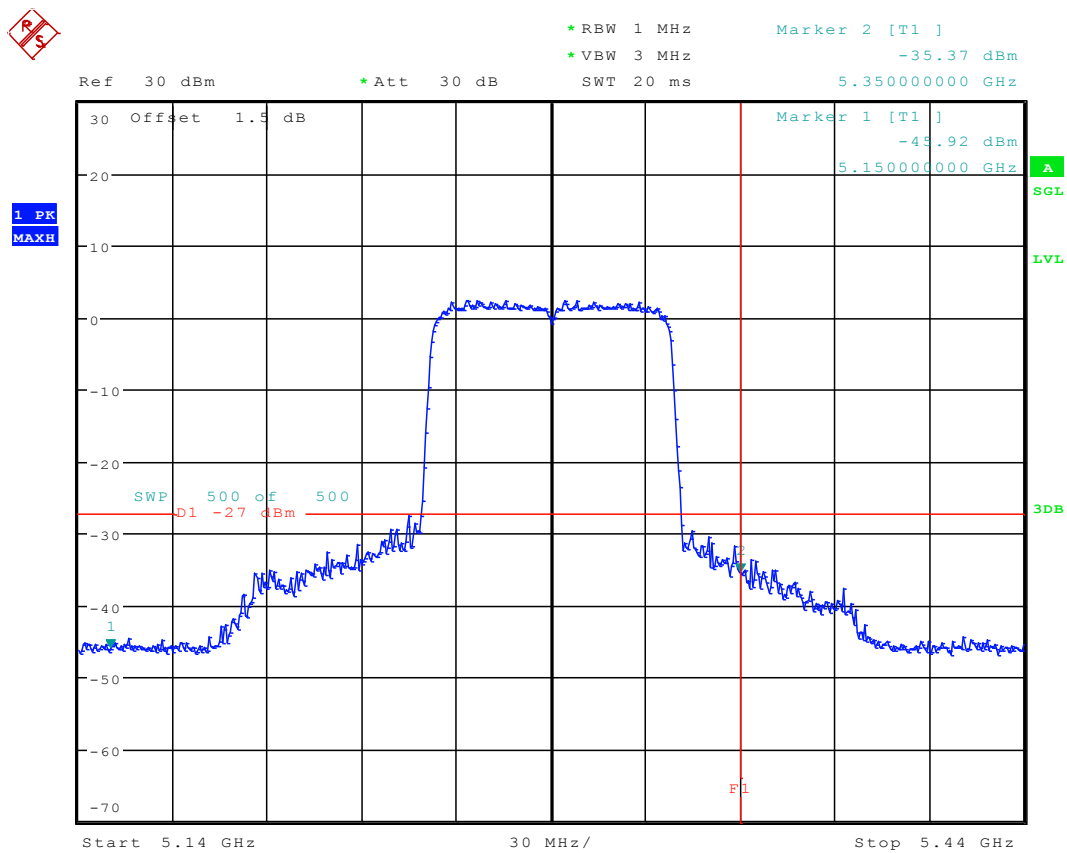
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11.31 11AC80_42 ANT 1



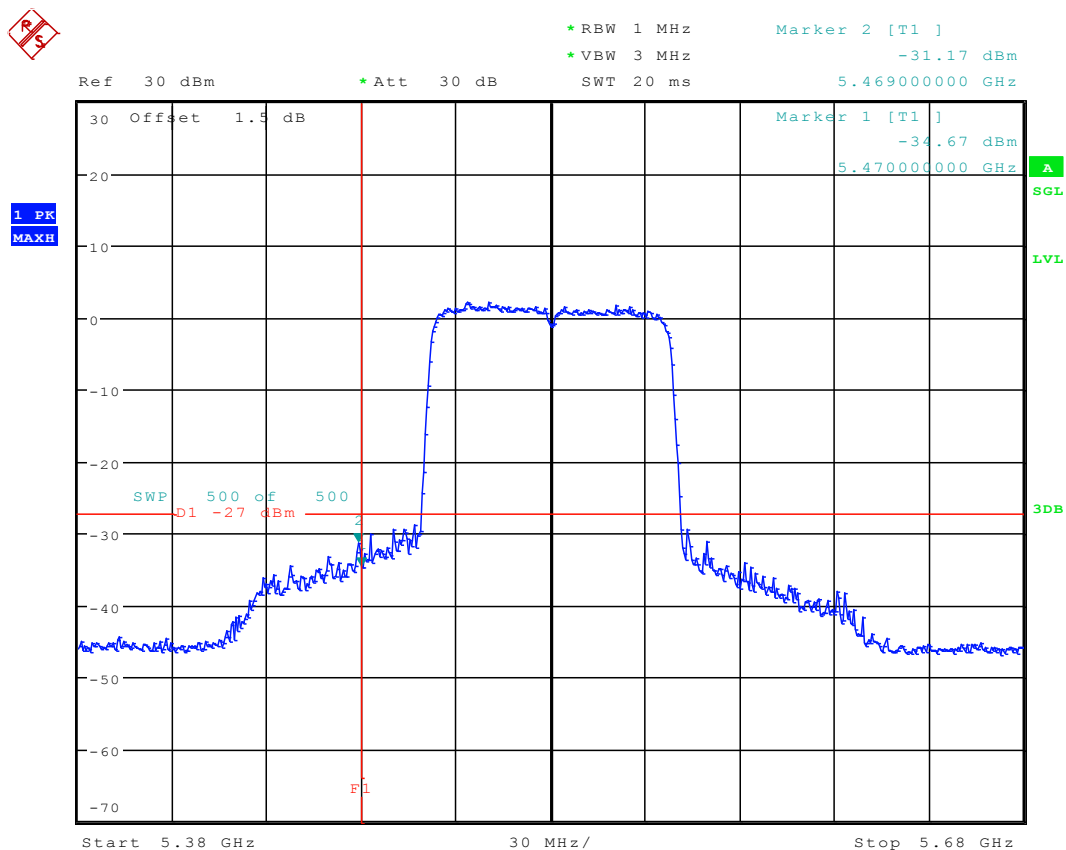
Date: 3.JAN.2017 15:30:17

11.32 11AC80_58 ANT 1



Date: 3.JAN.2017 15:41:26

11.33 11AC80_106 ANT 1



Date: 3.JAN.2017 16:07:12

Appendix G: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5180
V nom(V)	5180.0075
V max(V)	5180.0088
V min(V)	5180.0069
Max. Deviation Frequency	0.0088
Max. Frequency Error (ppm)	1.69

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency (MHz)
	5180
-5	5180.0071
5	5180.0032
15	5180.0067
25	5180.0045
35	5180.0076
45	5180.0058
50	5180.0049
Max. Deviation Frequency	0.0076
Max. Frequency Error (ppm)	1.460.0

END