



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	23.86	PASS
	48	5240	ANT 1	22.38	PASS
	52	5260	ANT 1	21.44	PASS
	64	5320	ANT 1	20.72	PASS
	100	5500	ANT 1	21.50	PASS
	140	5700	ANT 1	23.90	PASS
11N20	36	5180	ANT 1	21.30	PASS
	48	5240	ANT 1	25.58	PASS
	52	5260	ANT 1	20.48	PASS
	64	5320	ANT 1	20.96	PASS
	100	5500	ANT 1	21.50	PASS
	140	5700	ANT 1	20.44	PASS
11N40	38	5190	ANT 1	39.94	PASS
	46	5230	ANT 1	40.14	PASS
	54	5270	ANT 1	40.24	PASS
	62	5310	ANT 1	40.12	PASS
	102	5510	ANT 1	40.38	PASS
	134	5670	ANT 1	40.28	PASS
11AC20	36	5180	ANT 1	21.18	PASS
	48	5240	ANT 1	20.94	PASS
	52	5260	ANT 1	20.64	PASS
	64	5320	ANT 1	20.54	PASS
	100	5500	ANT 1	20.54	PASS
	140	5700	ANT 1	20.80	PASS
11AC40	38	5190	ANT 1	39.84	PASS
	46	5230	ANT 1	39.38	PASS
	54	5270	ANT 1	39.6	PASS
	62	5310	ANT 1	39.64	PASS
	102	5510	ANT 1	39.78	PASS
	134	5670	ANT 1	39.44	PASS
11AC80	42	5210	ANT 1	81.12	PASS
	58	5290	ANT 1	81.12	PASS
	106	5530	ANT 1	80.85	PASS
	122	5610	ANT 1	80.64	PASS



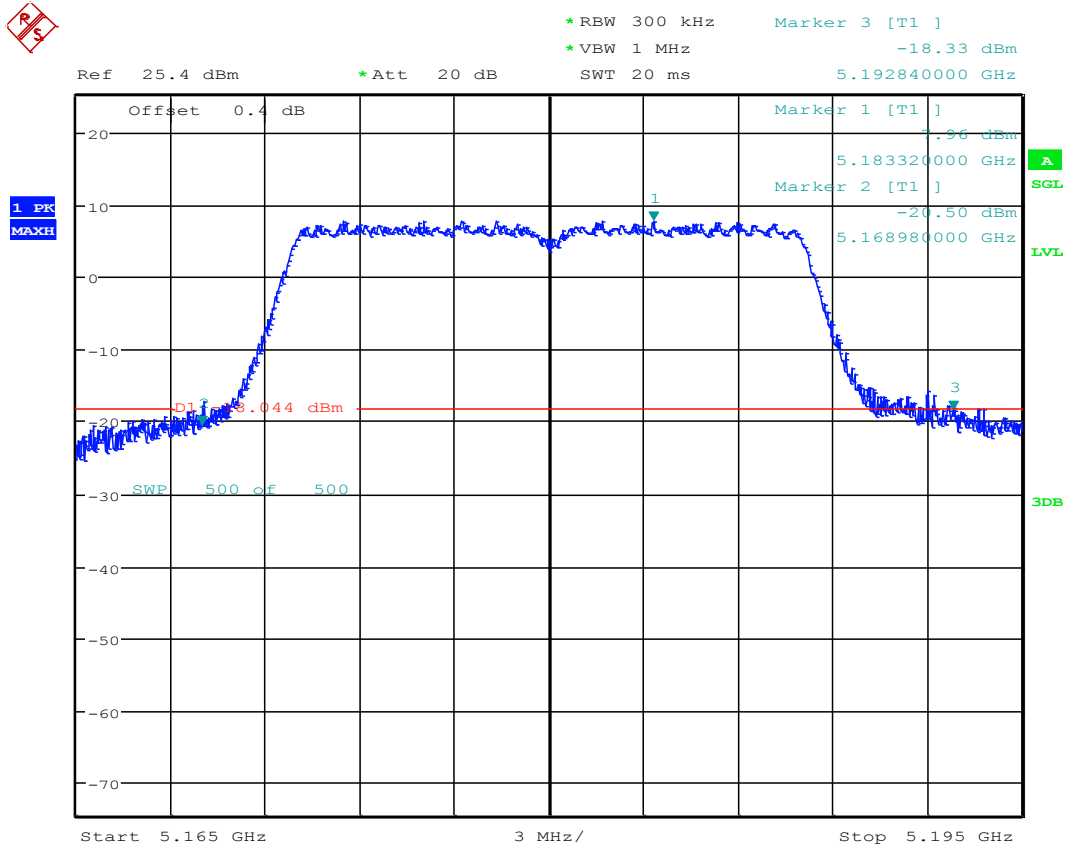
2 Result Table for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	16.40	PASS
	165	5825	ANT 1	16.40	PASS
11N20	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11N40	151	5755	ANT 1	35.70	PASS
	159	5795	ANT 1	35.96	PASS
11AC20	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11AC40	151	5755	ANT 1	35.92	PASS
	159	5795	ANT 1	35.72	PASS
11AC80	155	5775	ANT 1	75.20	PASS



3 Test Plot for 26dB Emission Bandwidth

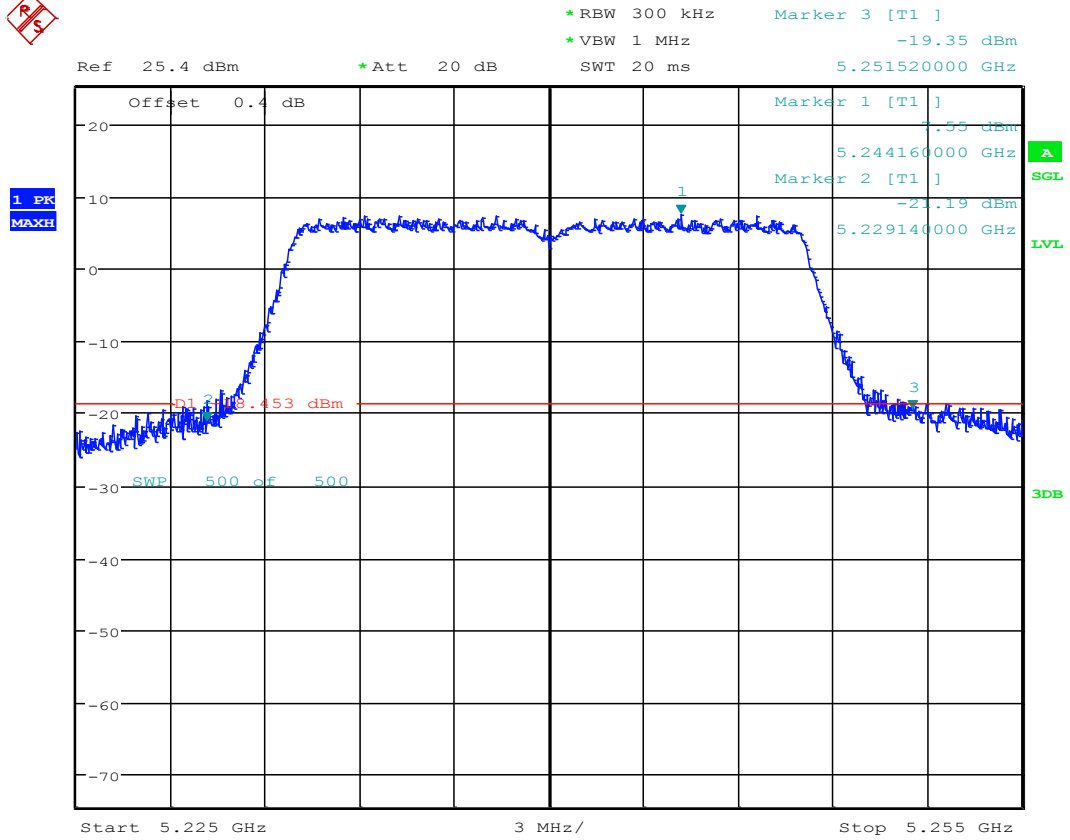
3.1 11A20_36 ANT 1



Date: 4.JUL.2018 10:49:32

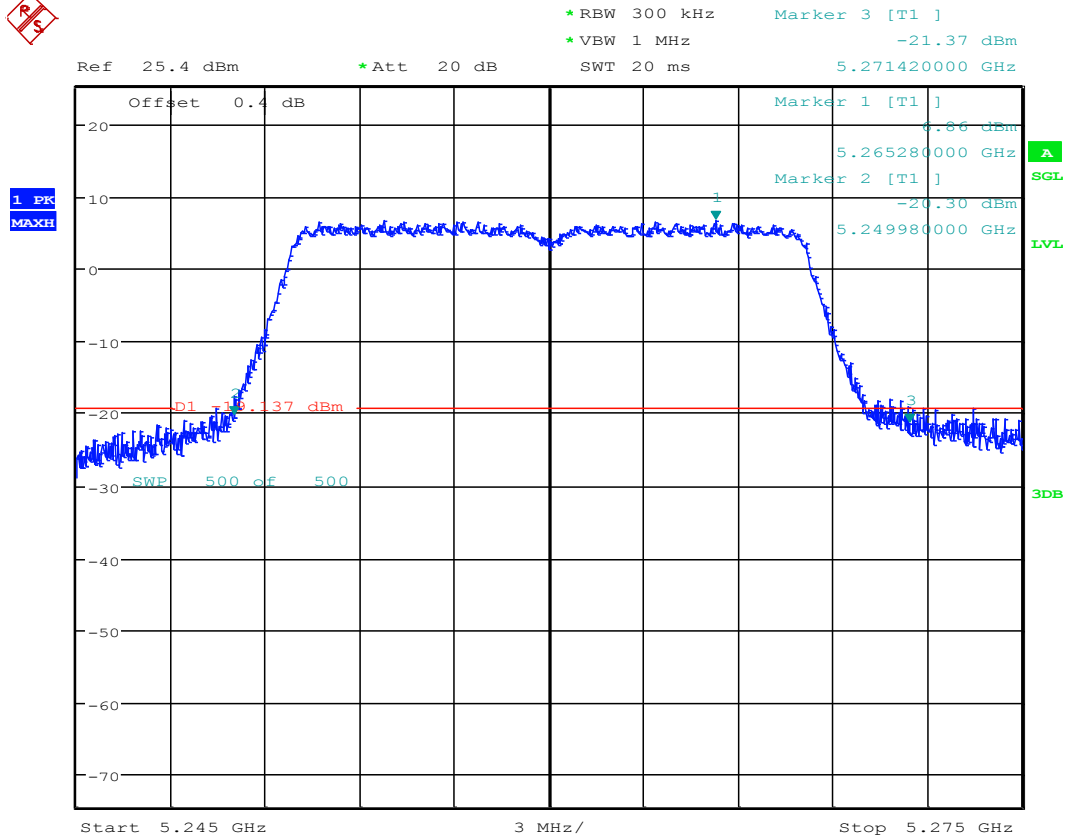


3.2 11A20_48 ANT 1



Date: 4.JUL.2018 10:53:40

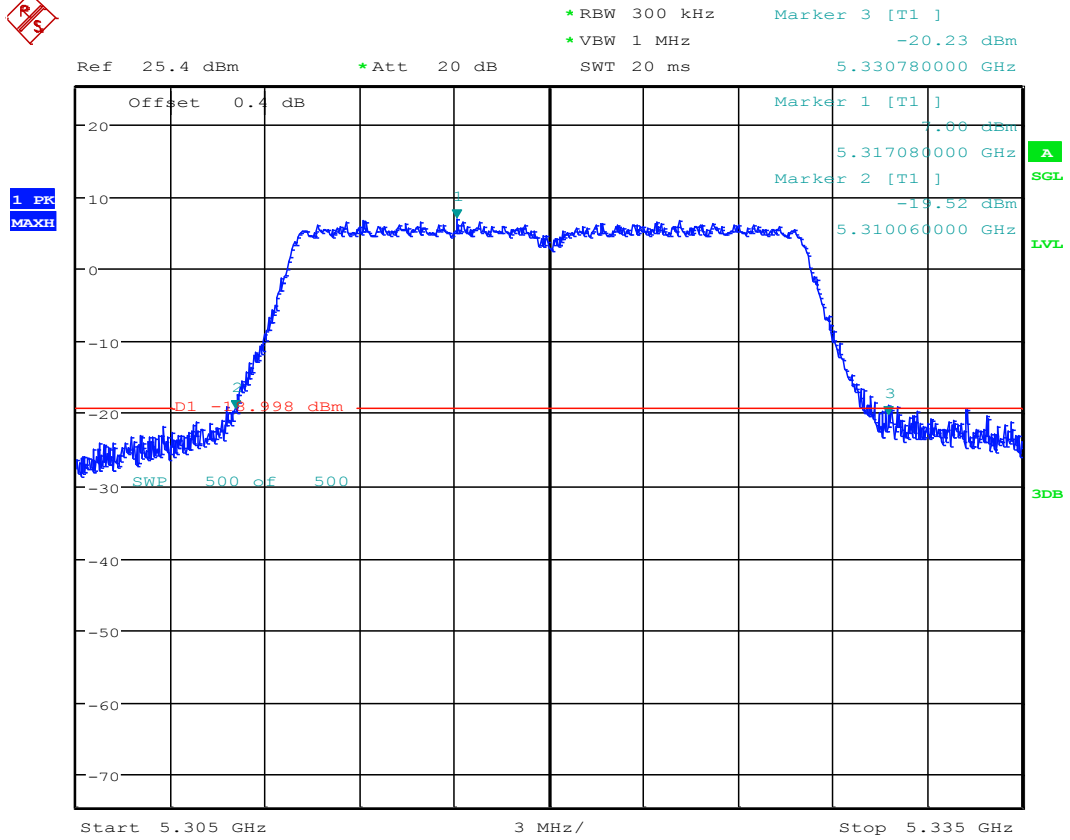
3.3 11A20_52 ANT 1



Date: 4.JUL.2018 10:57:47



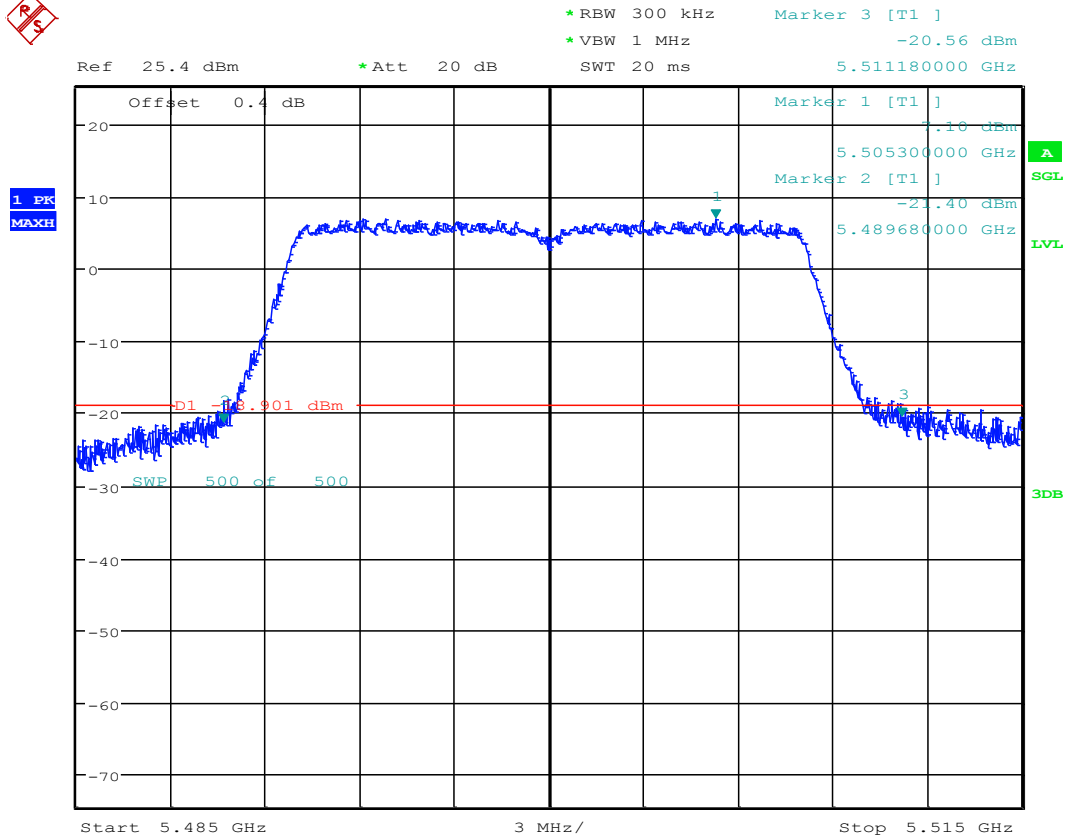
3.4 11A20_64 ANT 1



Date: 4.JUL.2018 11:03:06



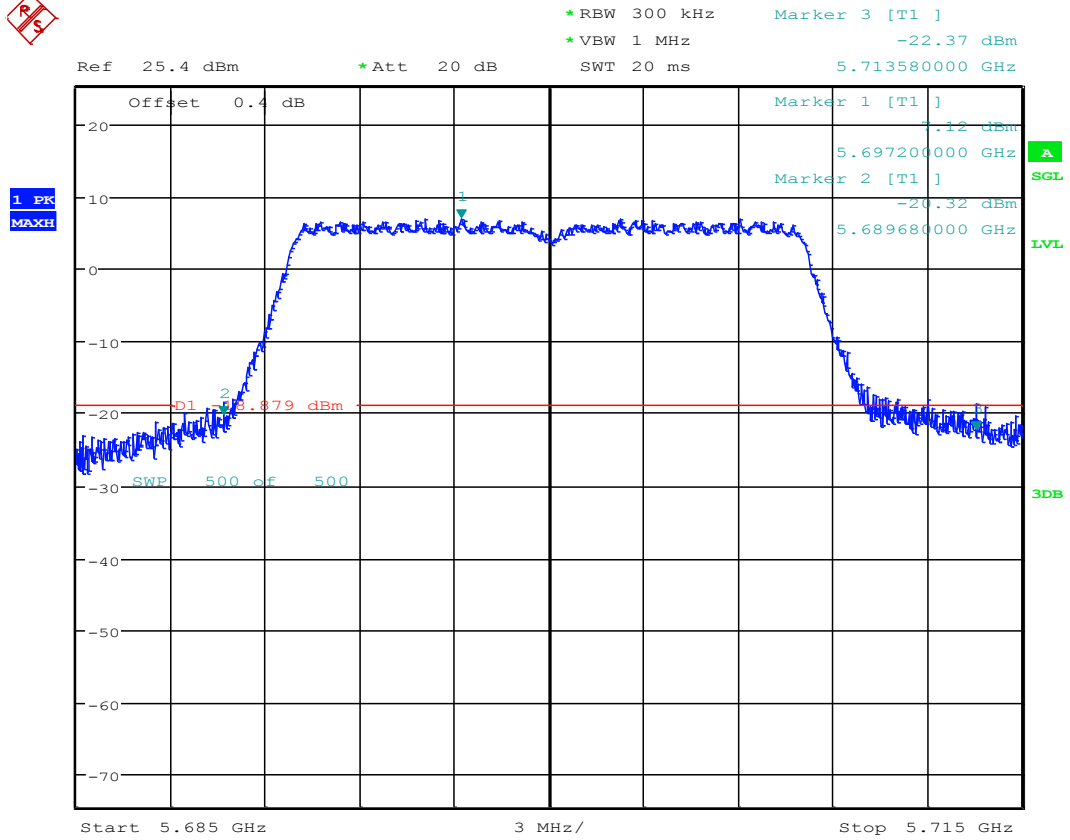
3.5 11A20_100 ANT 1



Date: 4.JUL.2018 11:07:09



3.6 11A20_140 ANT 1



Date: 4.JUL.2018 11:16:25

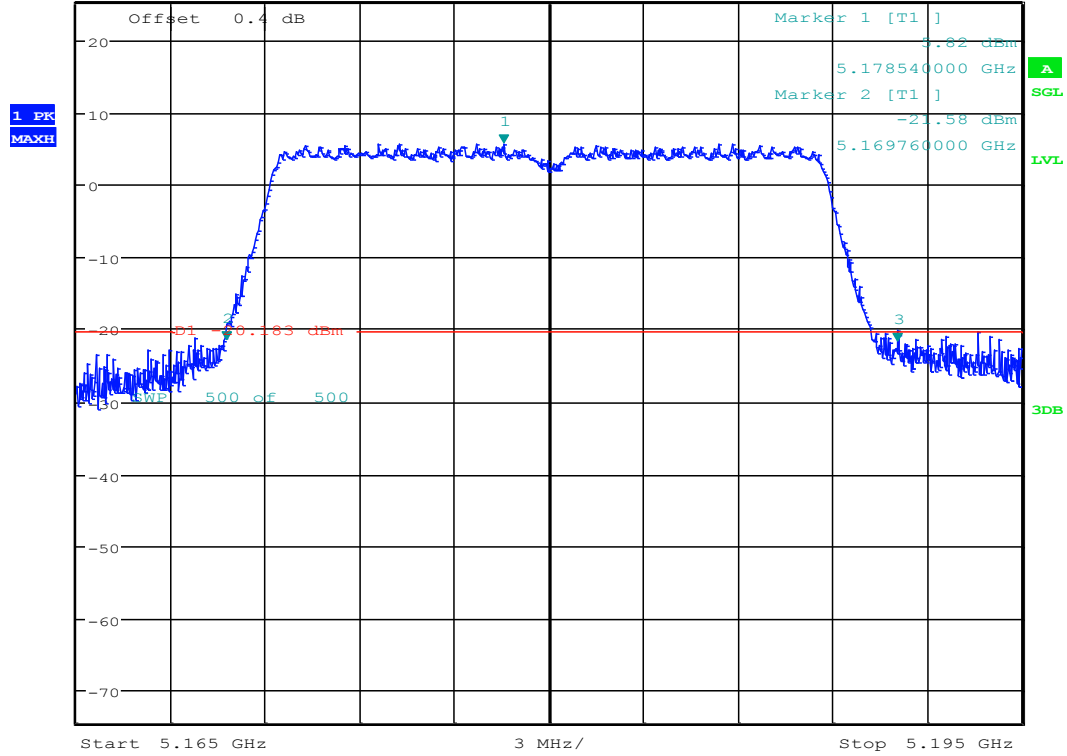


3.7 11N20_36 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -21.70 dBm
 SWT 20 ms 5.191060000 GHz

Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 11:57:32

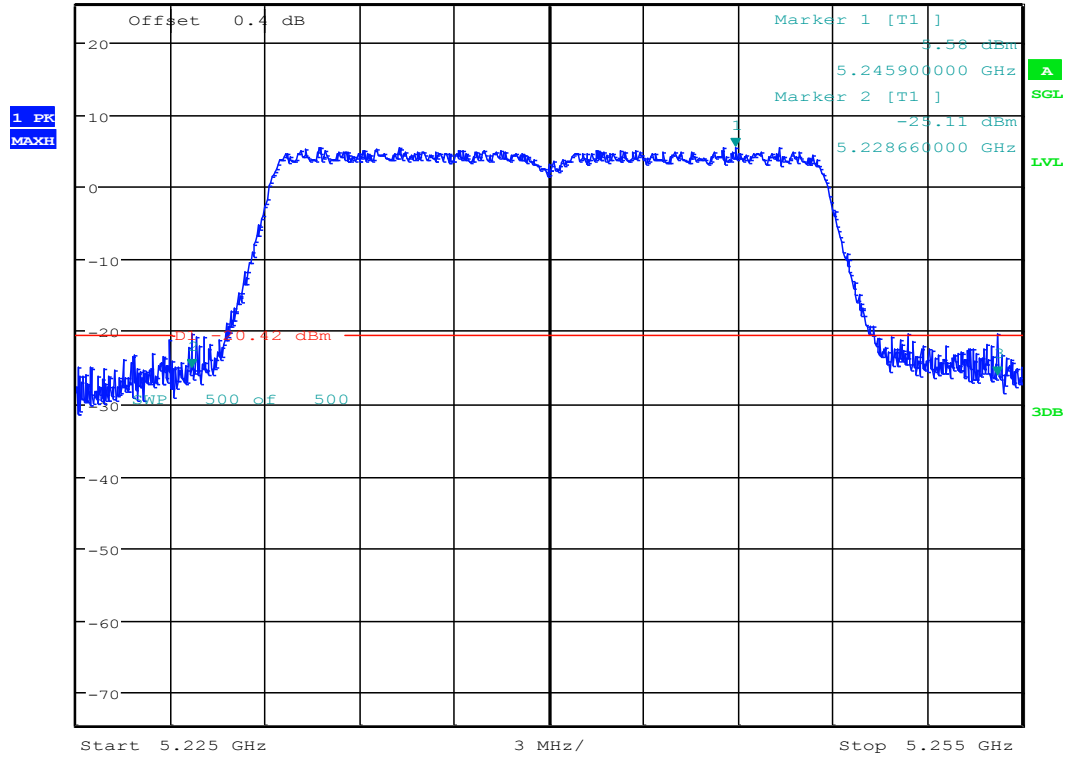


3.8 11N20_48 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -26.24 dBm
 SWT 20 ms 5.254240000 GHz

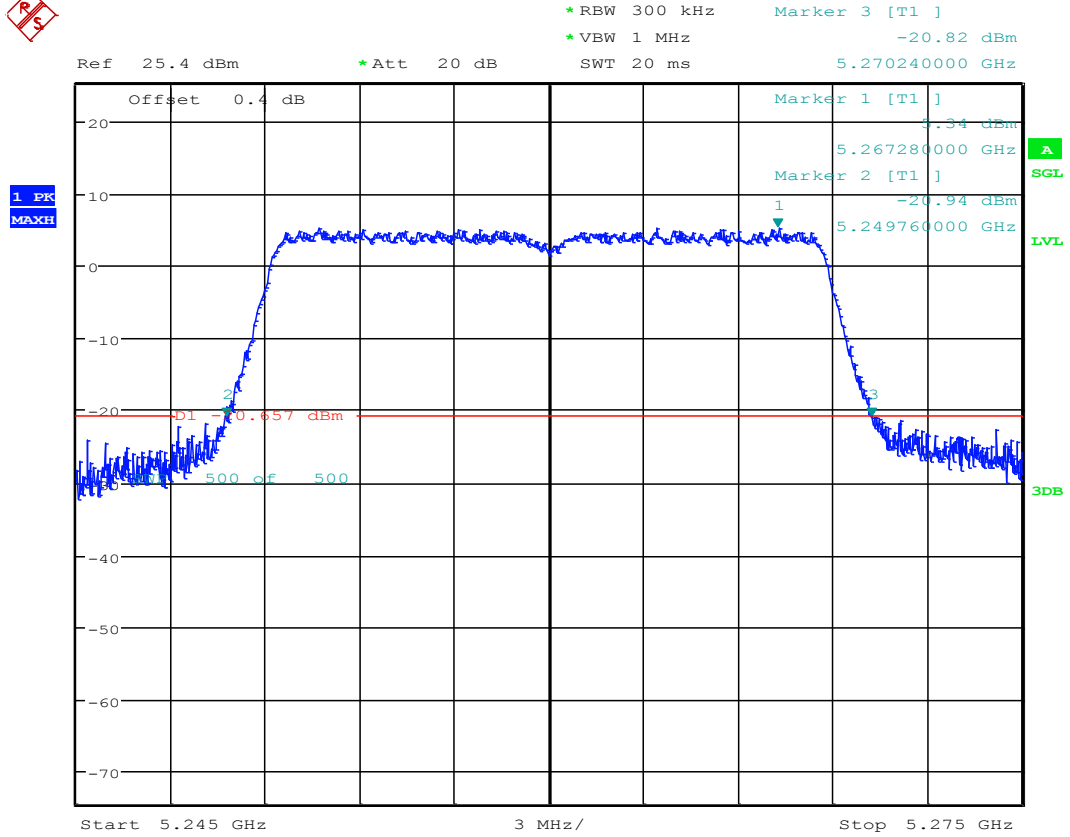
Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 12:02:20



3.9 11N20_52 ANT 1



Date: 4.JUL.2018 13:43:33

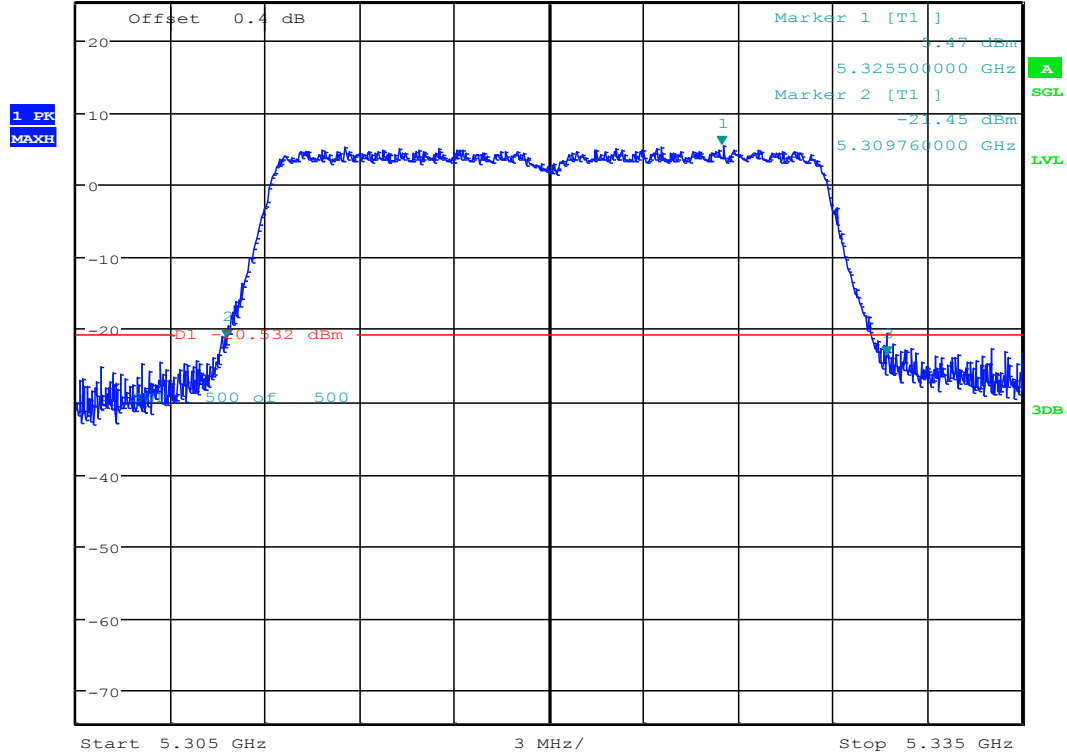


3.10 11N20_64 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -23.72 dBm
 SWT 20 ms 5.330720000 GHz

Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 13:48:51

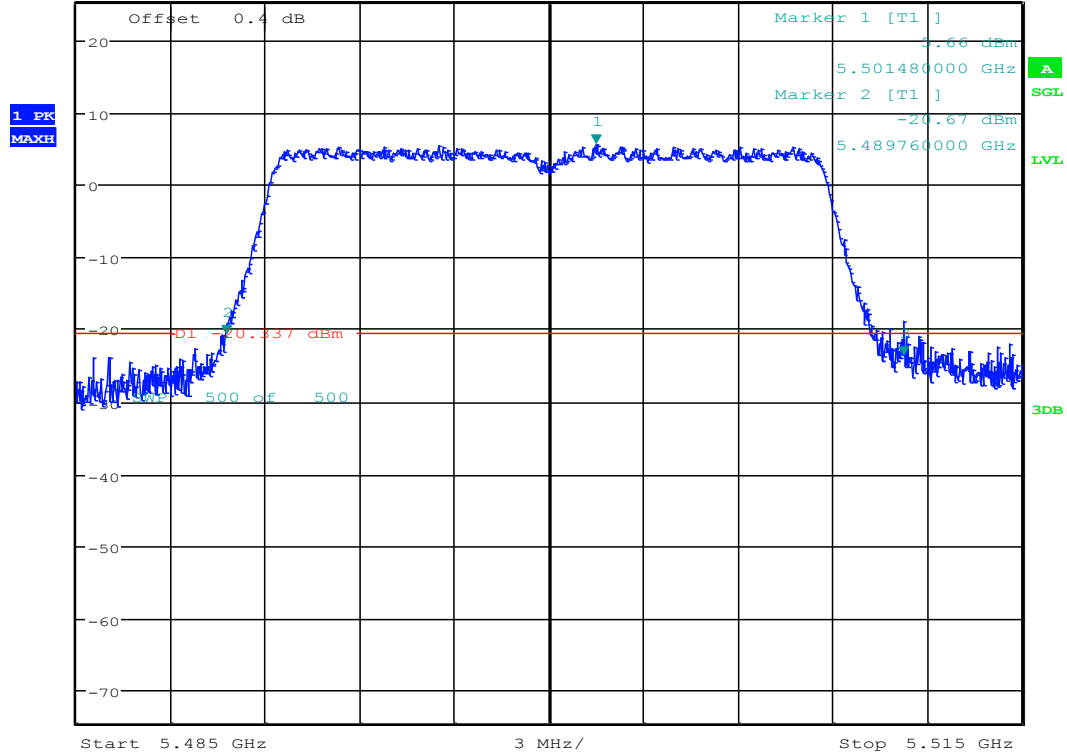


3.11 11N20_100 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -23.55 dBm
 SWT 20 ms 5.511260000 GHz

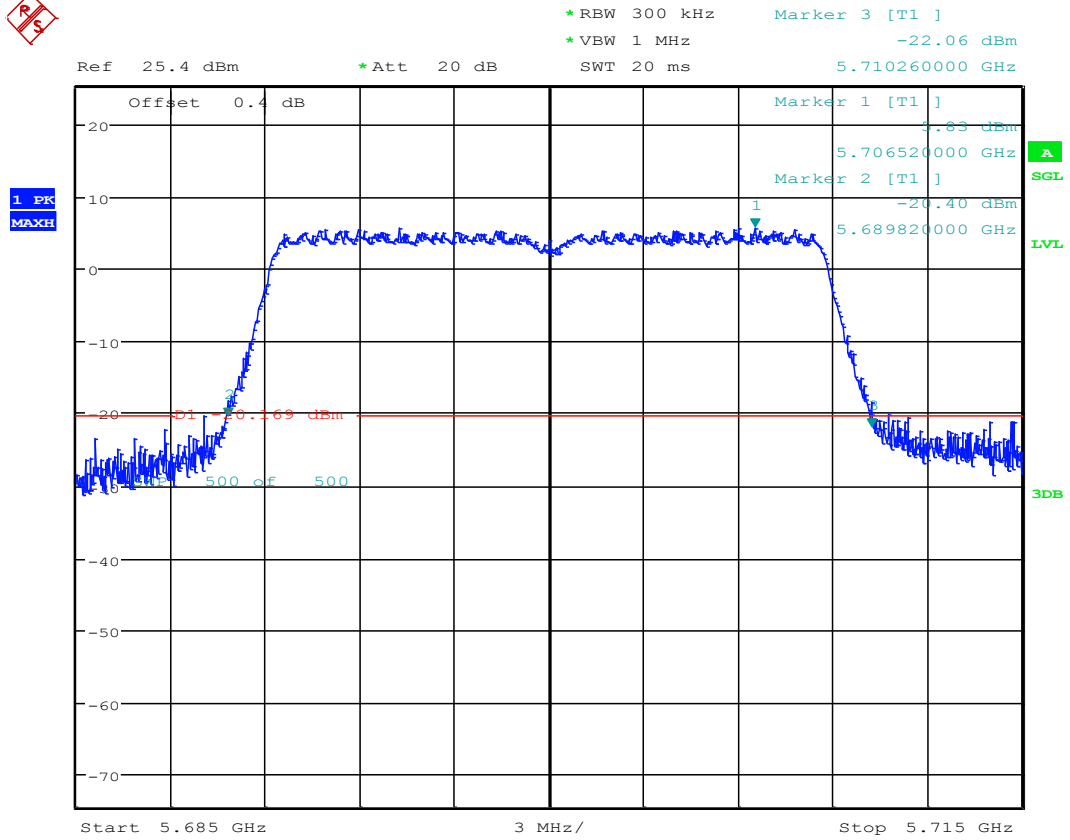
Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 13:56:29



3.12 11N20_140 ANT 1



Date: 4.JUL.2018 14:04:59

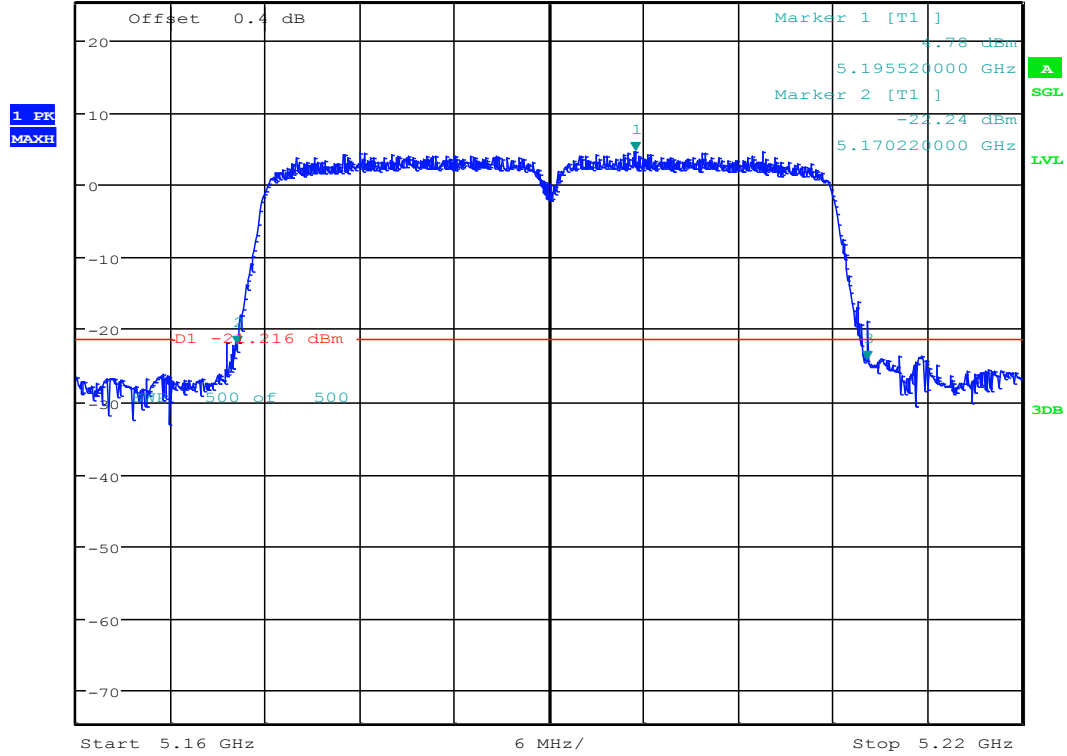


3.13 11N40_38 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -24.23 dBm
 SWT 20 ms 5.210160000 GHz

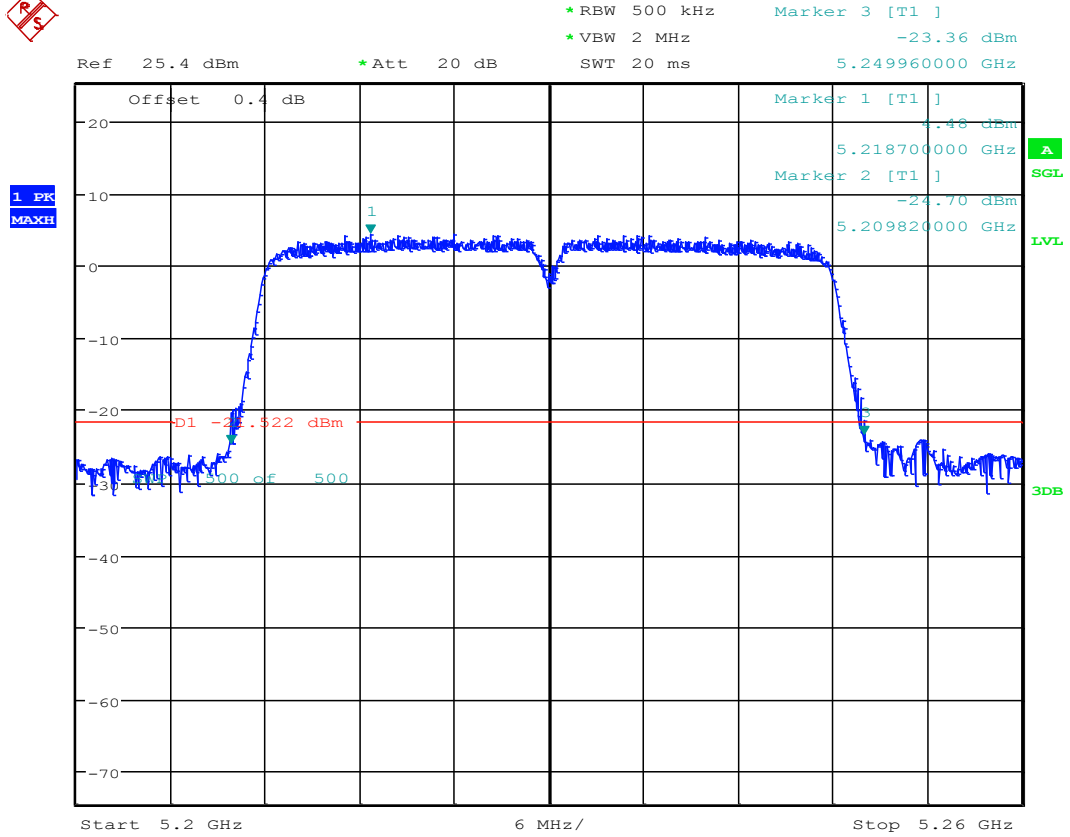
Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 14:21:19



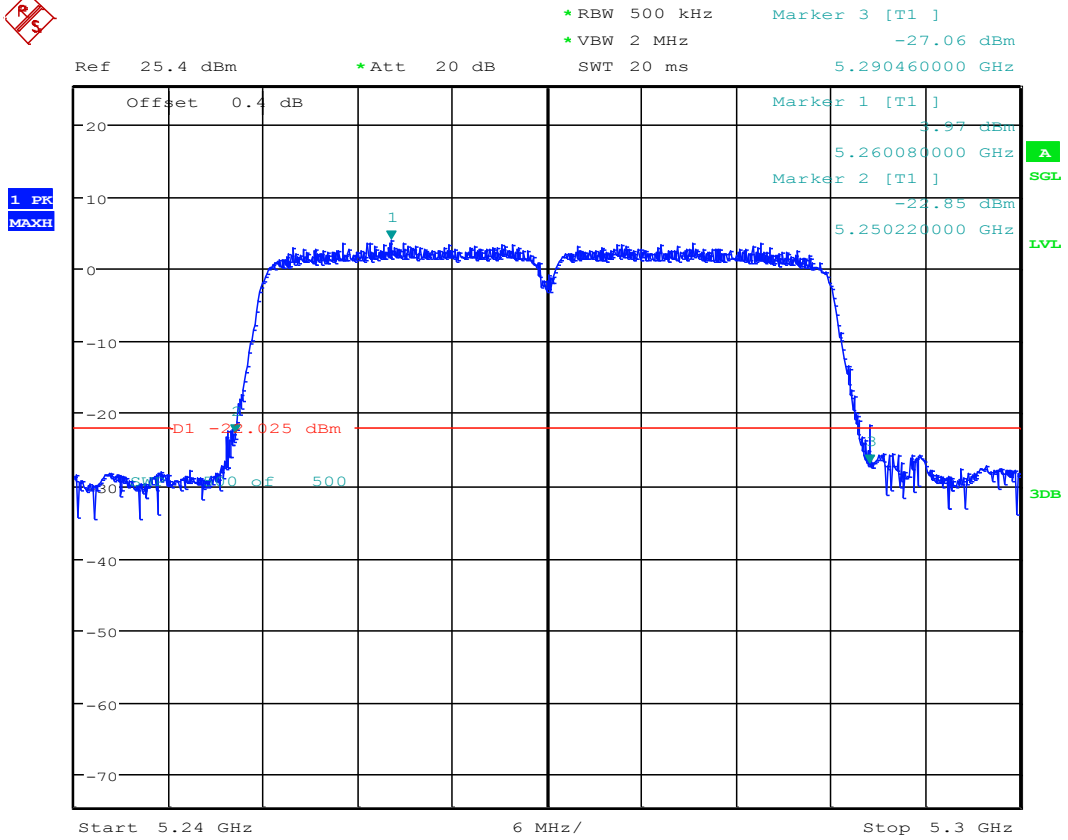
3.14 11N40_46 ANT 1



Date: 4.JUL.2018 14:29:03



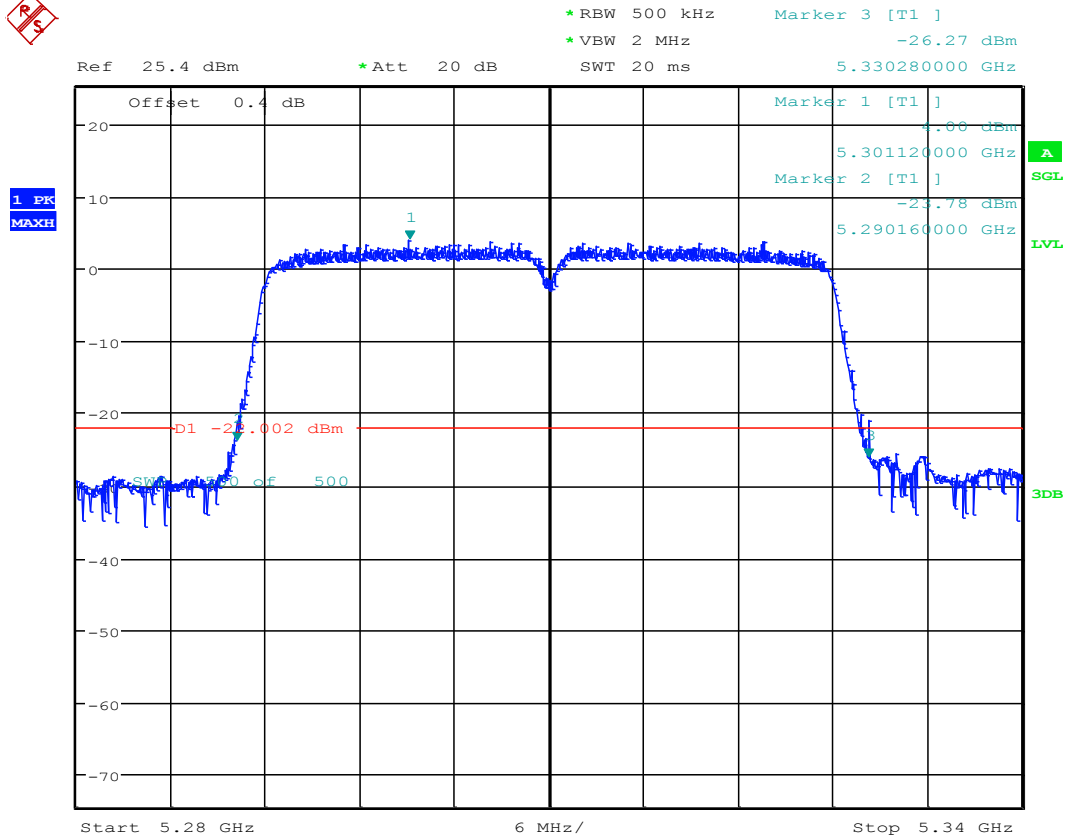
3.15 11N40_54 ANT 1



Date: 4.JUL.2018 14:34:14



3.16 11N40_62 ANT 1



Date: 4.JUL.2018 14:39:48

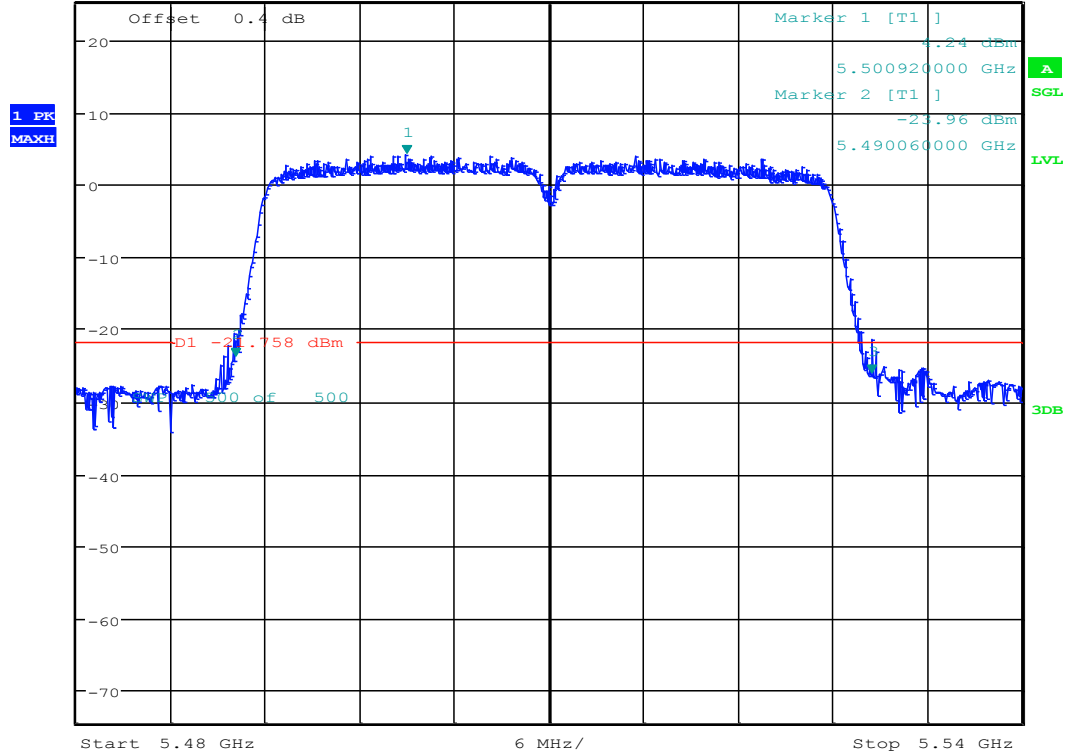


3.17 11N40_102 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -26.16 dBm
 SWT 20 ms 5.530440000 GHz

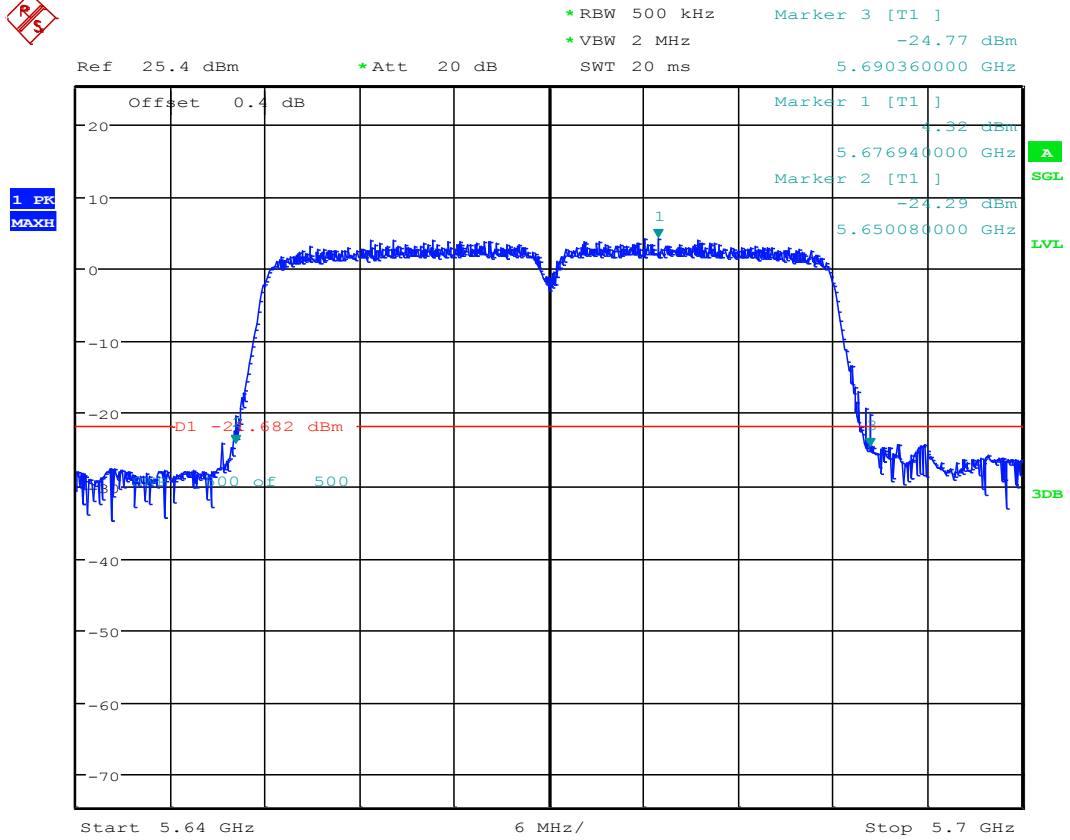
Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 14:46:16



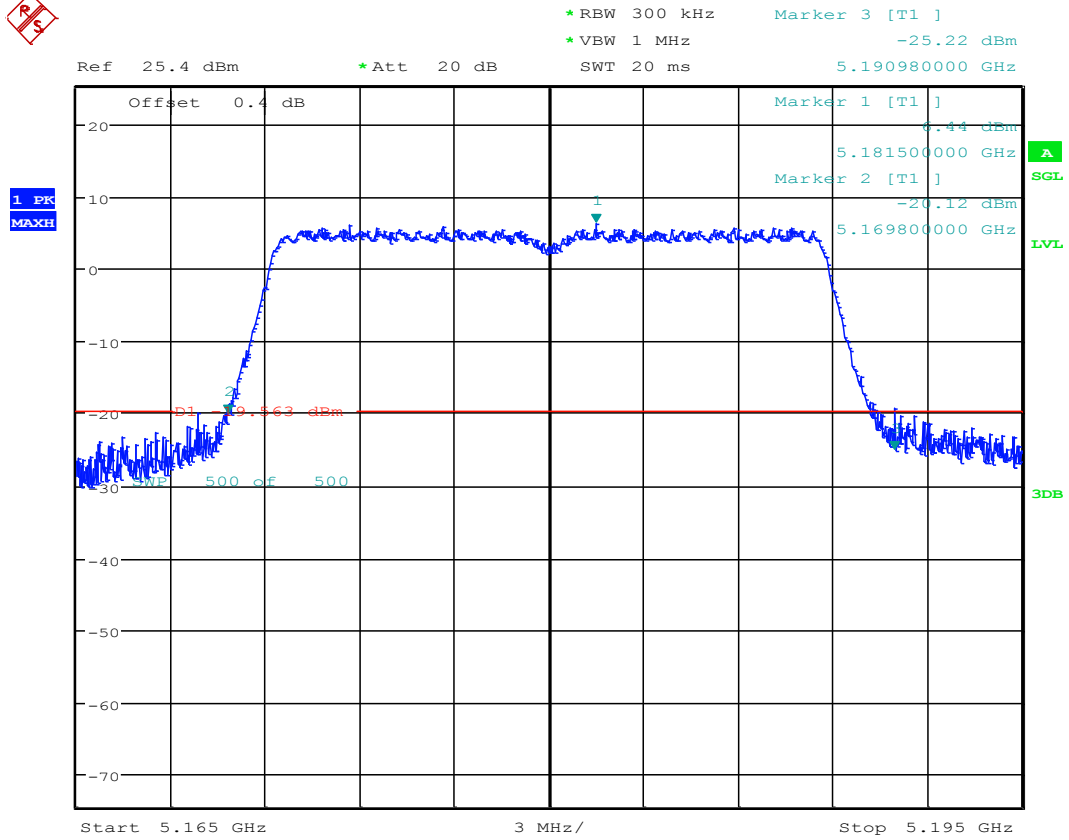
3.18 11N40_134 ANT 1



Date: 4.JUL.2018 14:49:17



3.19 11AC20_36 ANT 1



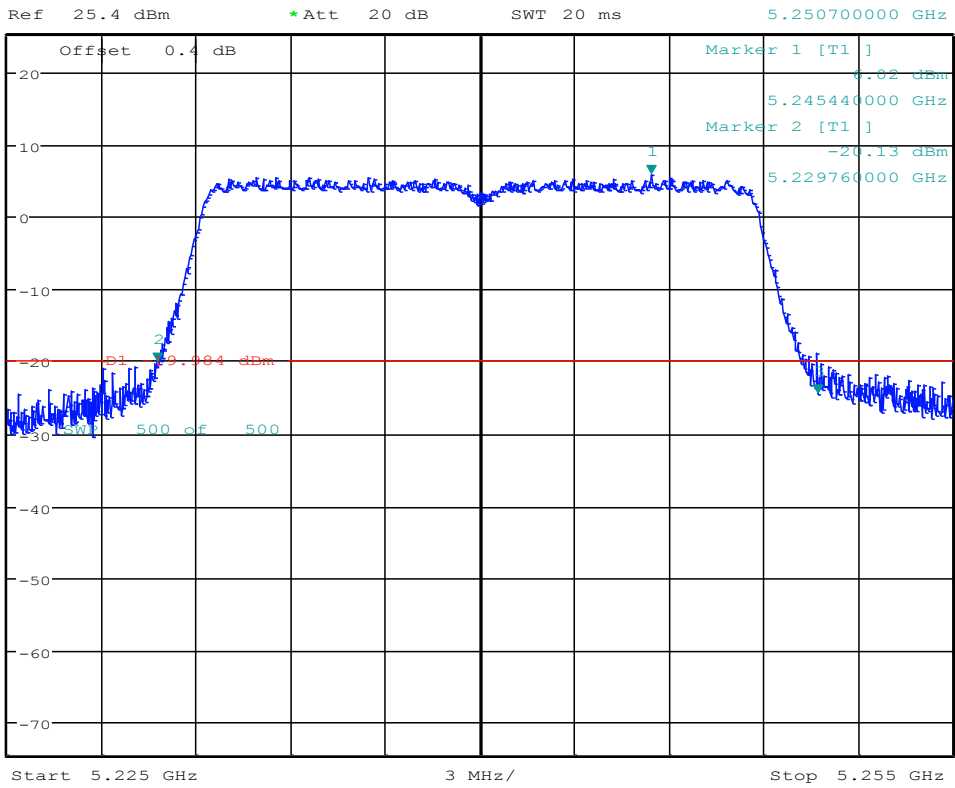
Date: 4.JUL.2018 15:06:20



3.20 11AC20_48 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -24.58 dBm
 SWT 20 ms 5.250700000 GHz



Date: 4.JUL.2018 15:11:15

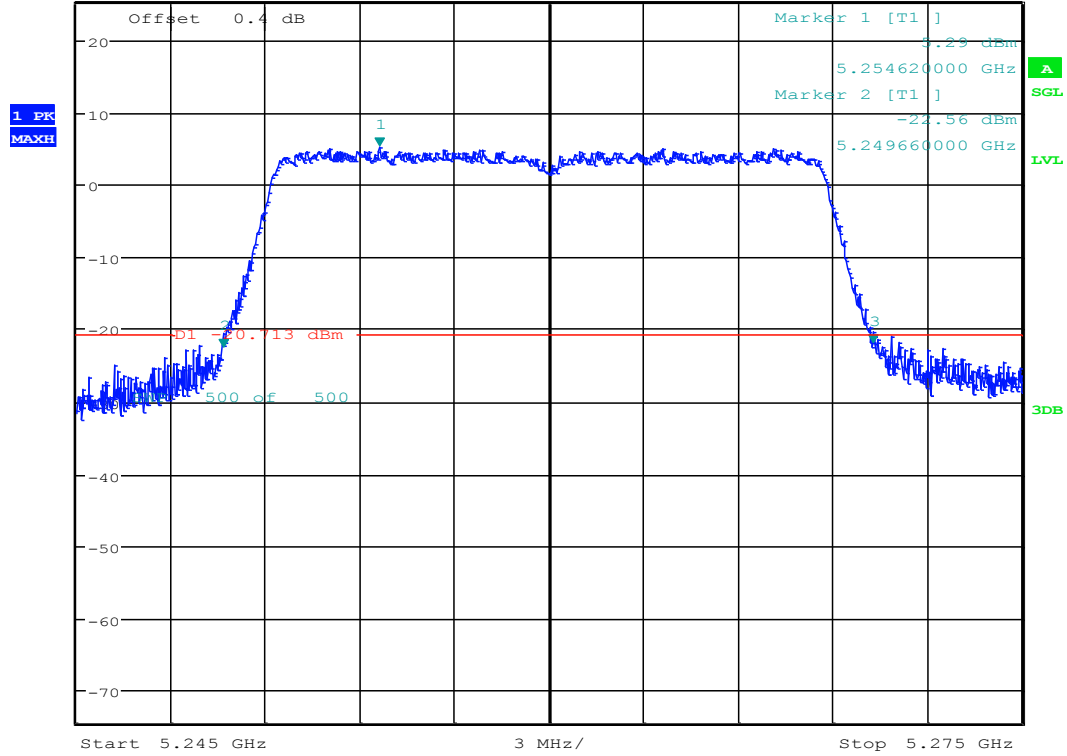


3.21 11AC20_52 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -21.95 dBm
 SWT 20 ms 5.270300000 GHz

Ref 25.4 dBm *Att 20 dB



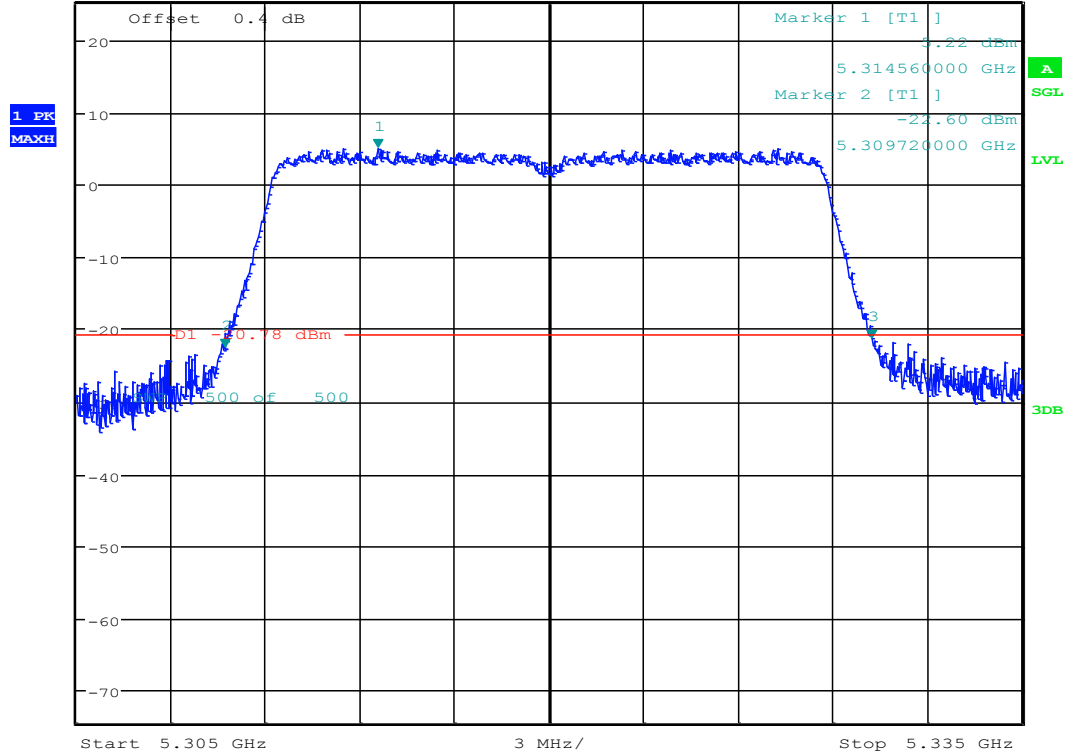
Date: 4.JUL.2018 15:14:48



3.22 11AC20_64 ANT 1



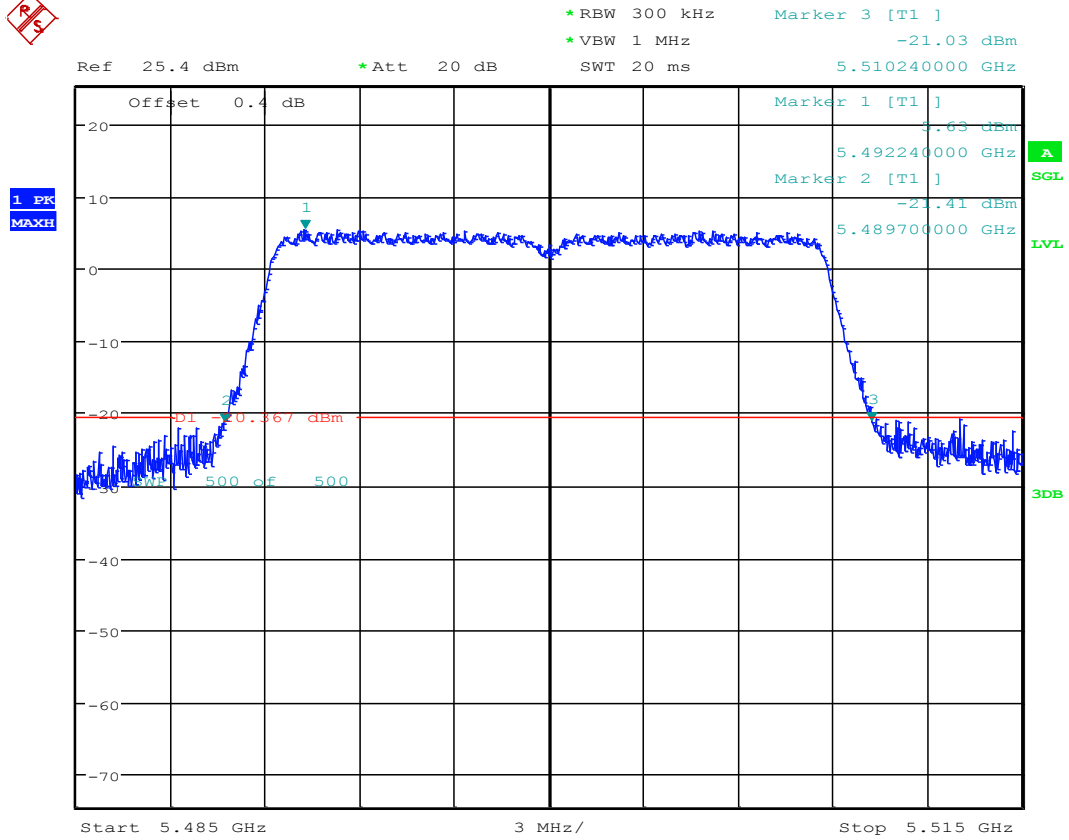
*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -21.38 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.330260000 GHz



Date: 4.JUL.2018 15:17:13



3.23 11AC20_100 ANT 1



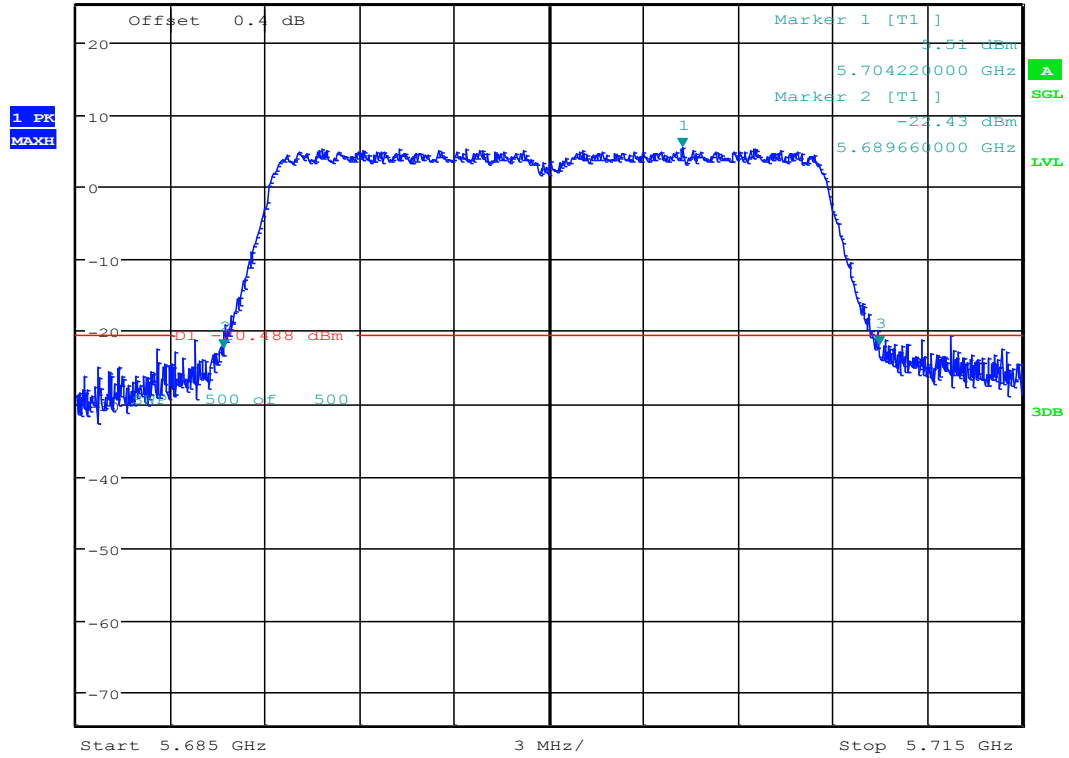
Date: 4.JUL.2018 15:20:19



3.24 11AC20_140 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -21.90 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.710460000 GHz



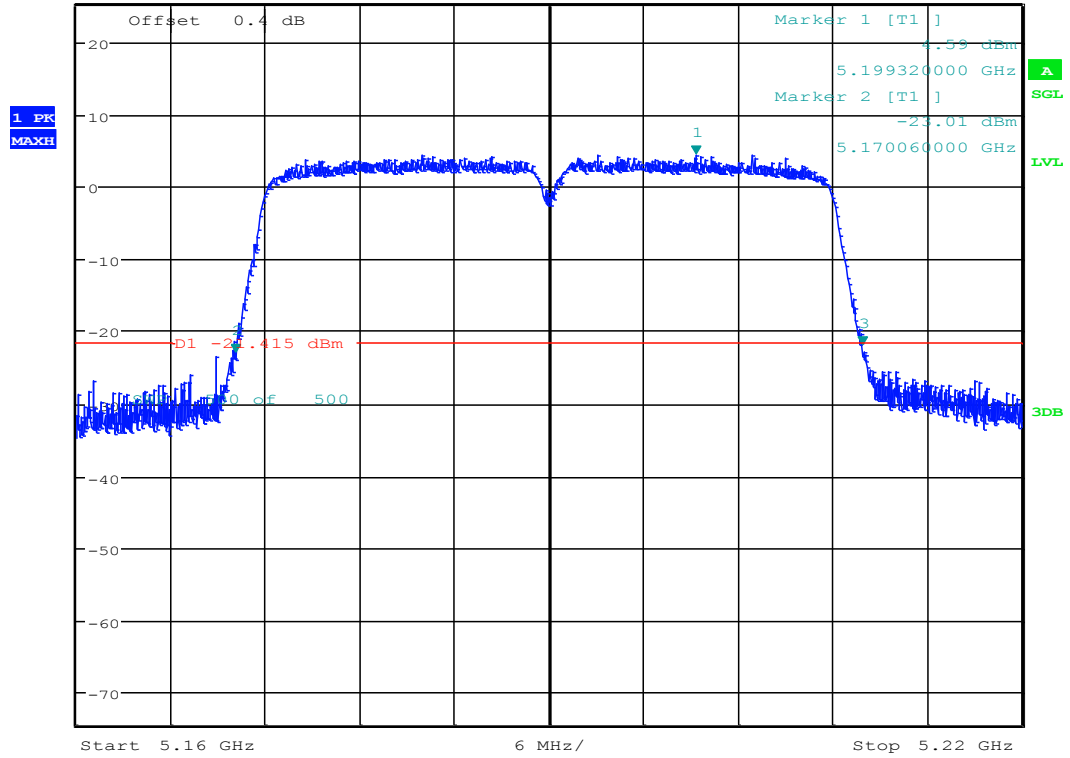
Date: 4.JUL.2018 15:23:40



3.25 11AC40_38 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -21.98 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.209900000 GHz



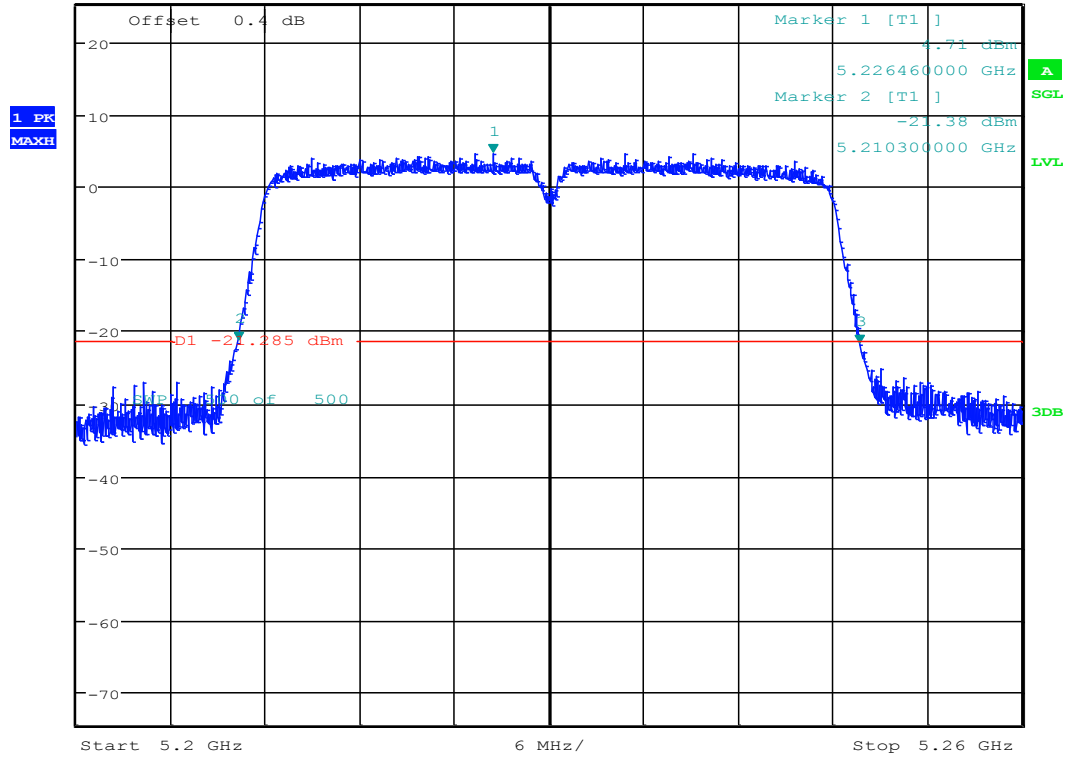
Date: 4.JUL.2018 15:37:44



3.26 11AC40_46 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -21.73 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.249680000 GHz



Date: 4.JUL.2018 15:40:11

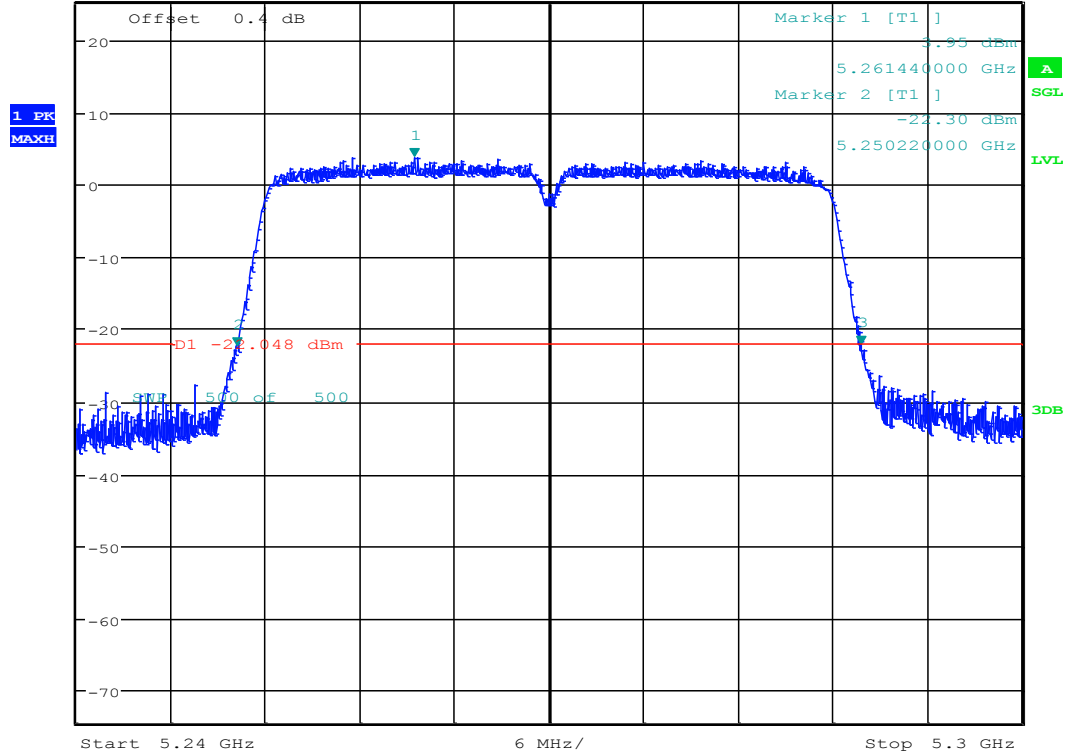


3.27 11AC40_54 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -22.27 dBm
 SWT 20 ms 5.289820000 GHz

Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 15:43:02



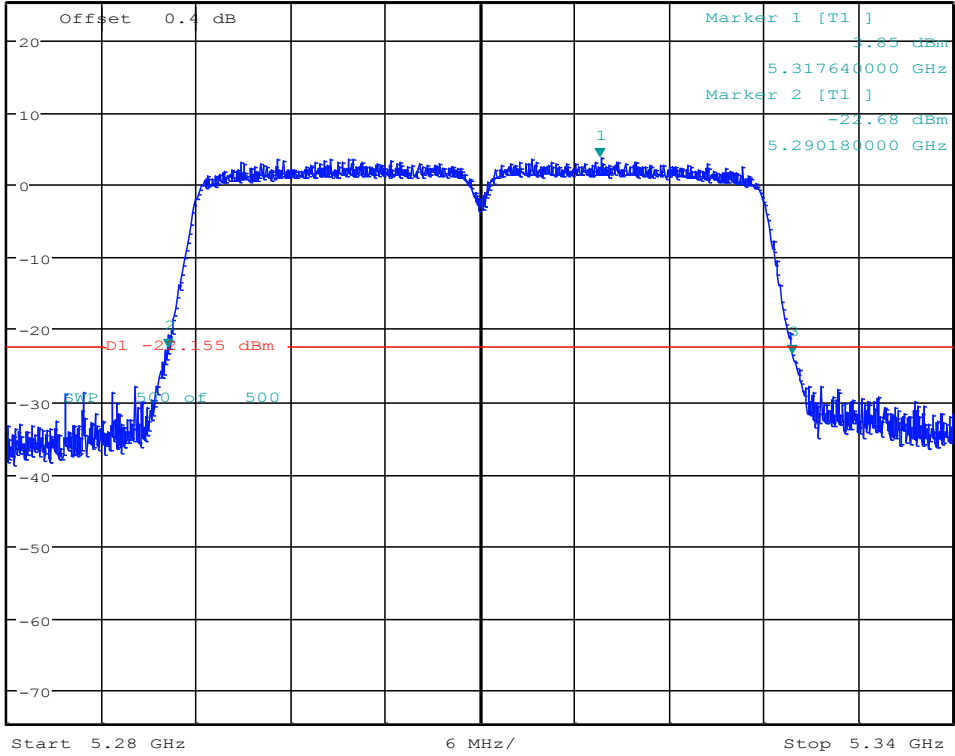
3.28 11AC40_62 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -23.35 dBm
 SWT 20 ms 5.329820000 GHz

Ref 25.4 dBm *Att 20 dB

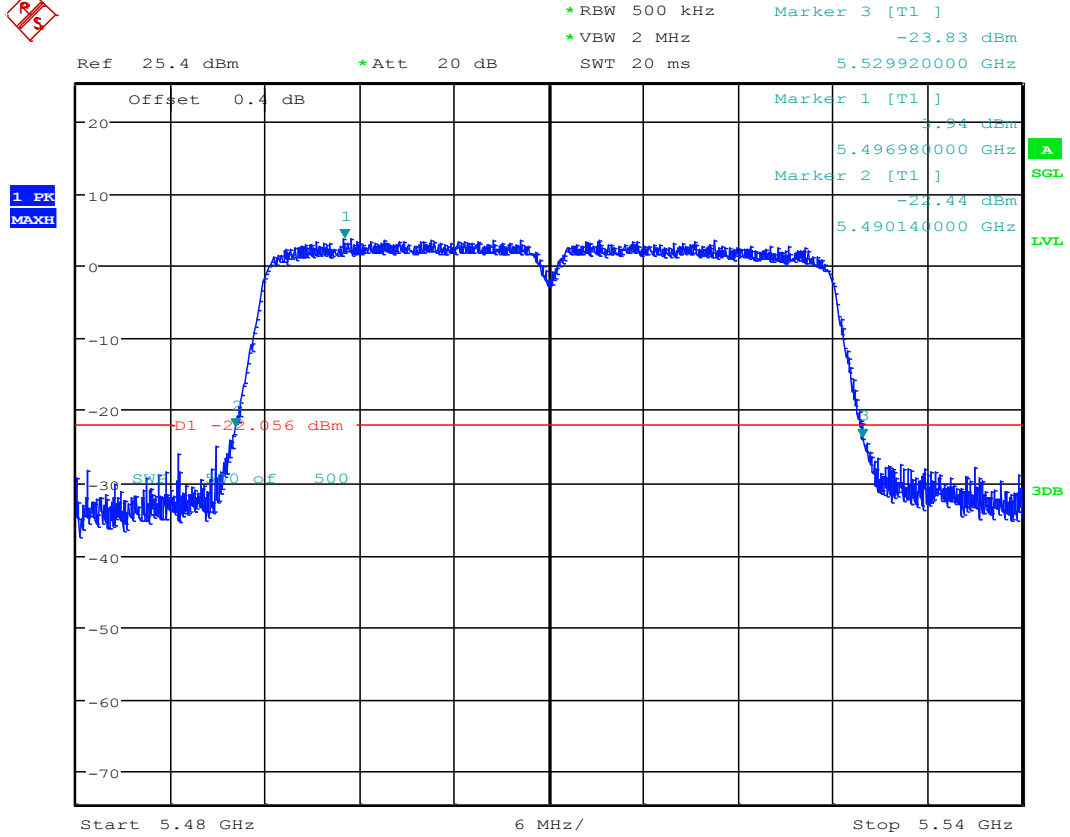
1 PK
MAXH



Date: 4.JUL.2018 15:46:22



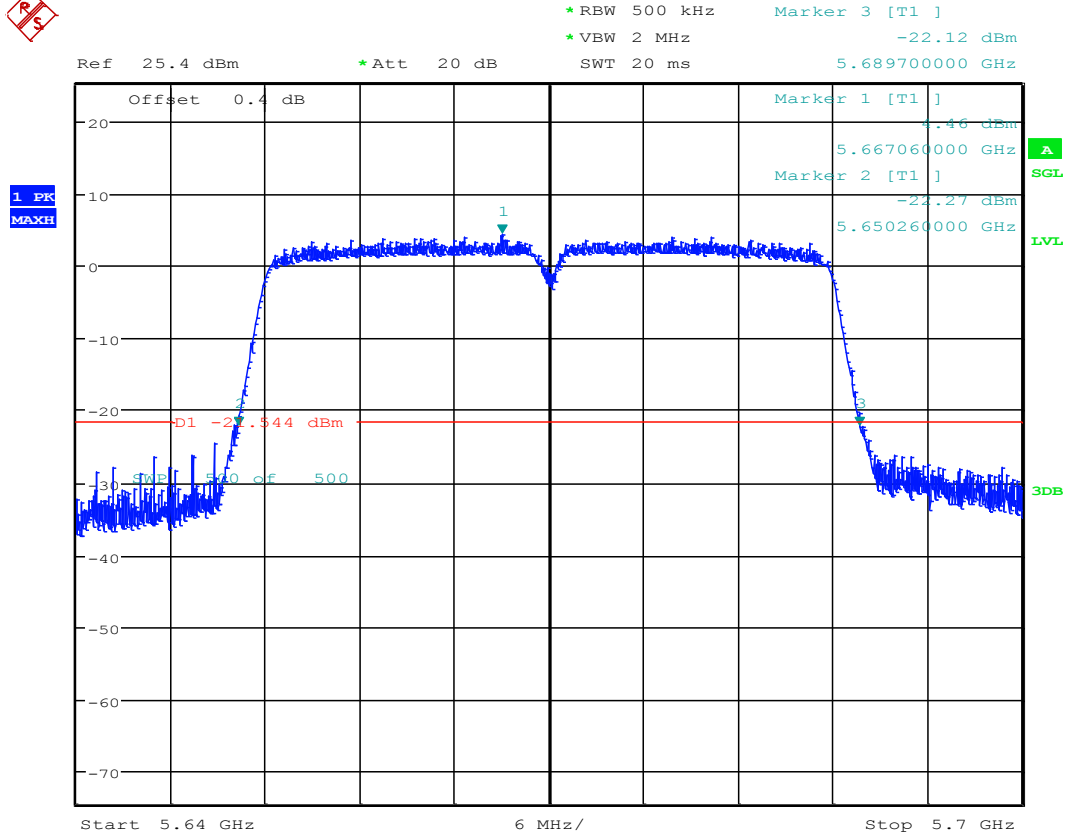
3.29 11AC40_102 ANT 1



Date: 4.JUL.2018 15:49:24



3.30 11AC40_134 ANT 1



Date: 4.JUL.2018 15:53:01

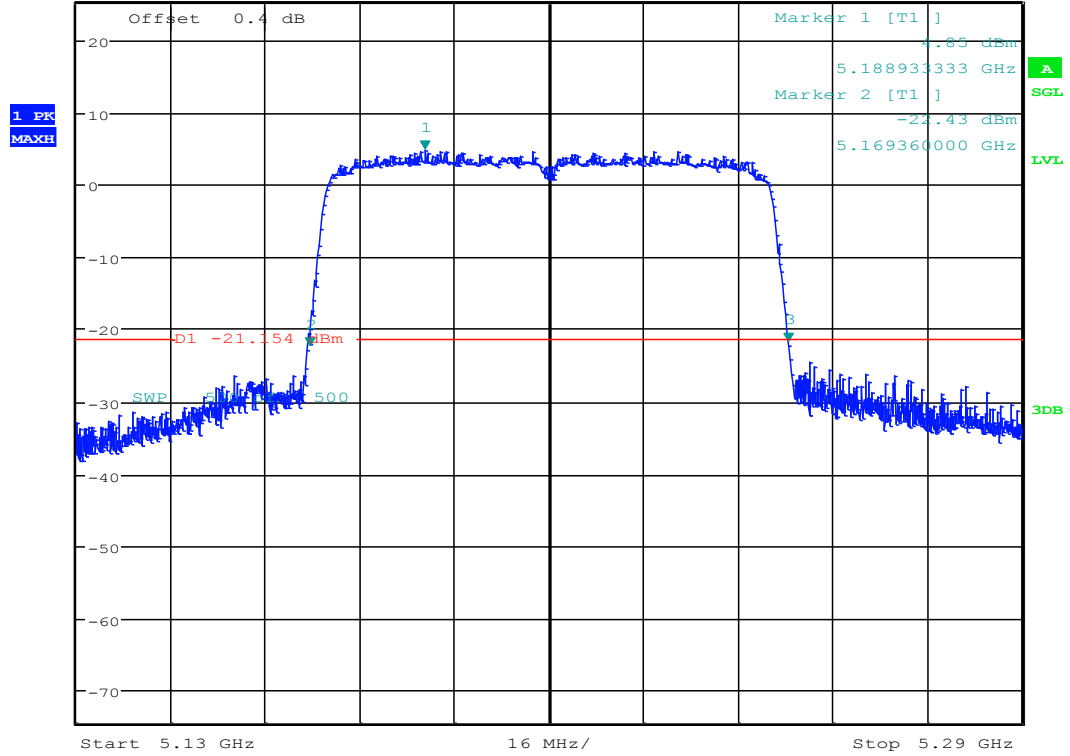


3.31 11AC80_42 ANT 1



*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -21.84 dBm
 SWT 20 ms 5.250480000 GHz

Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 16:06:43

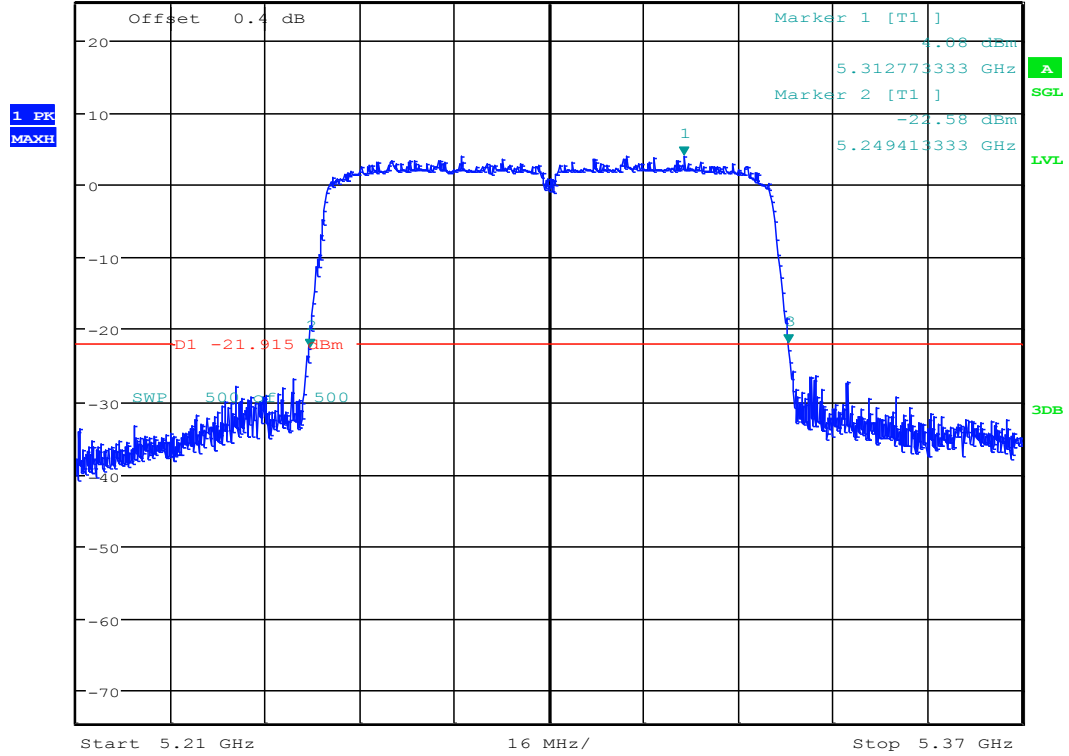


3.32 11AC80_58 ANT 1



*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -21.92 dBm
 SWT 20 ms 5.330533333 GHz

Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 16:09:31

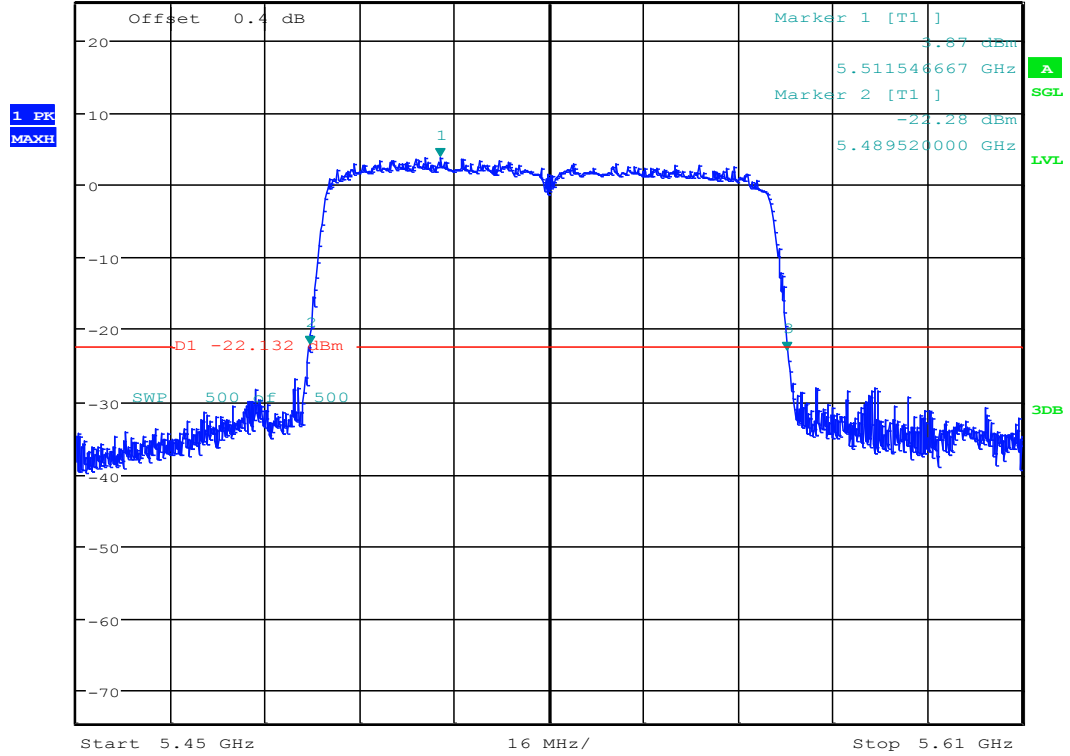


3.33 11AC80_106 ANT 1



*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -23.02 dBm
 SWT 20 ms 5.570373333 GHz

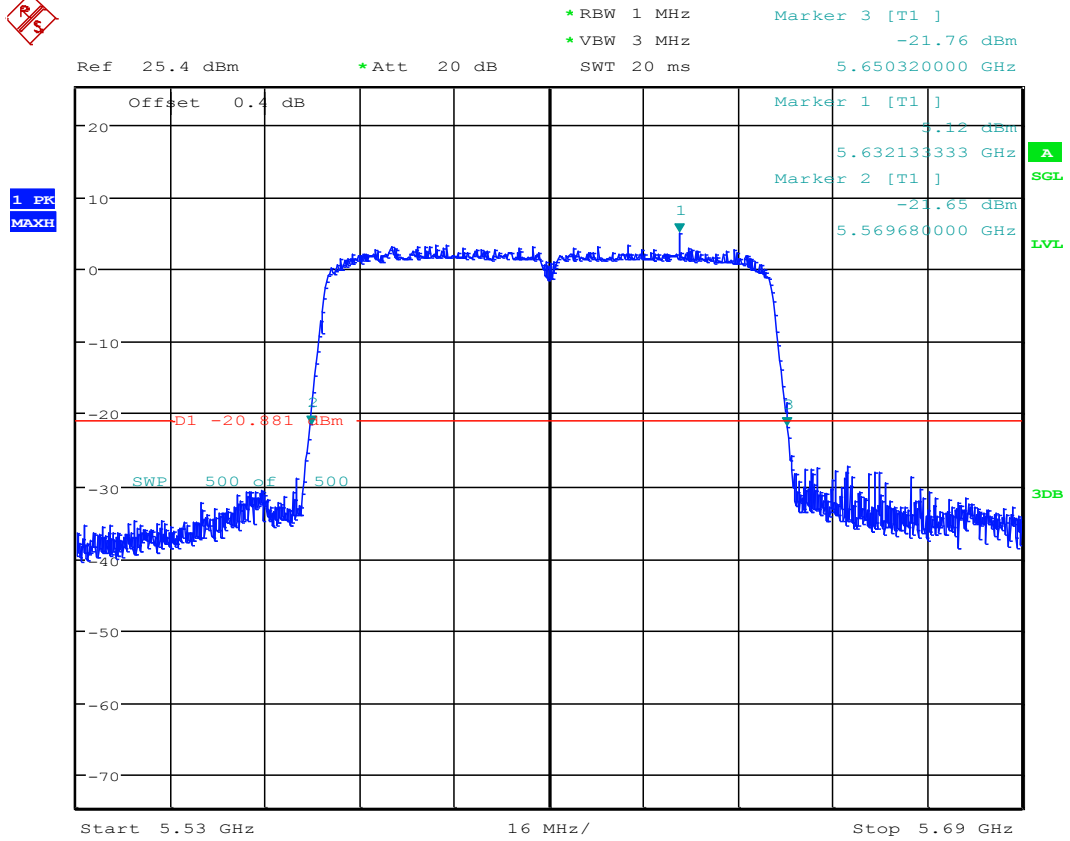
Ref 25.4 dBm *Att 20 dB



Date: 4.JUL.2018 16:13:13



3.34 11AC80_122 ANT 1

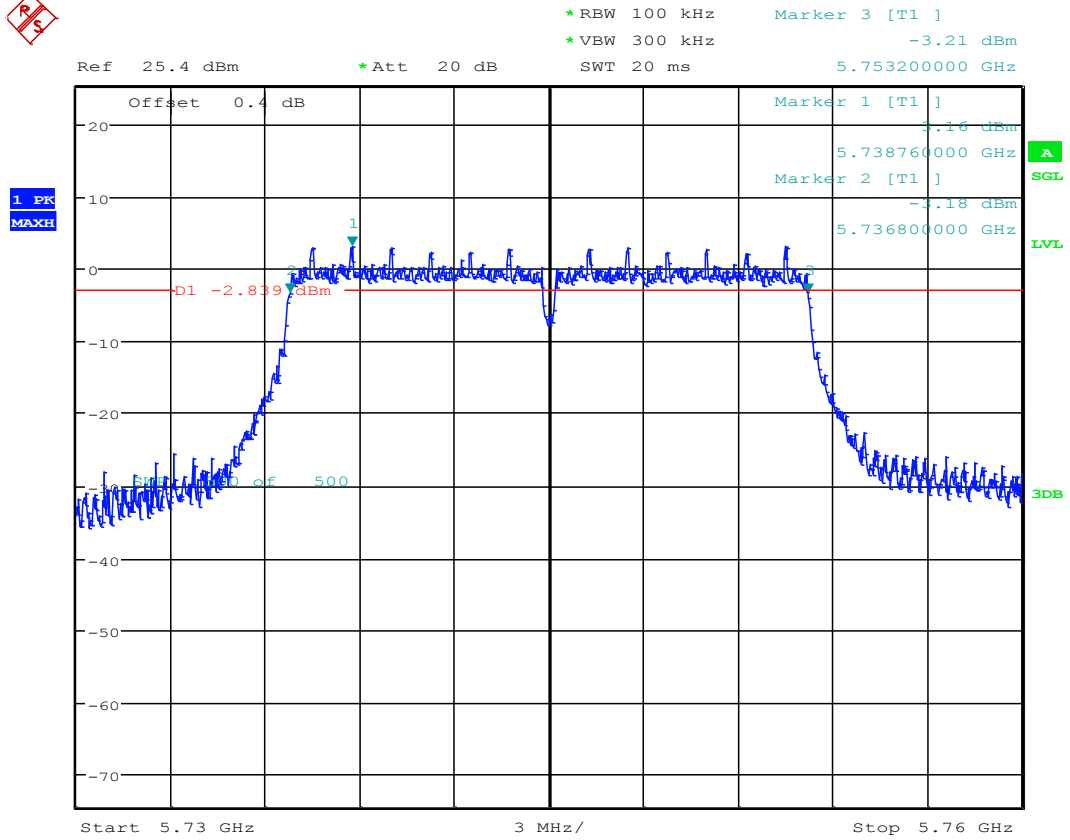


Date: 4.JUL.2018 16:16:32



4 Test Plot for 6dB Emission Bandwidth

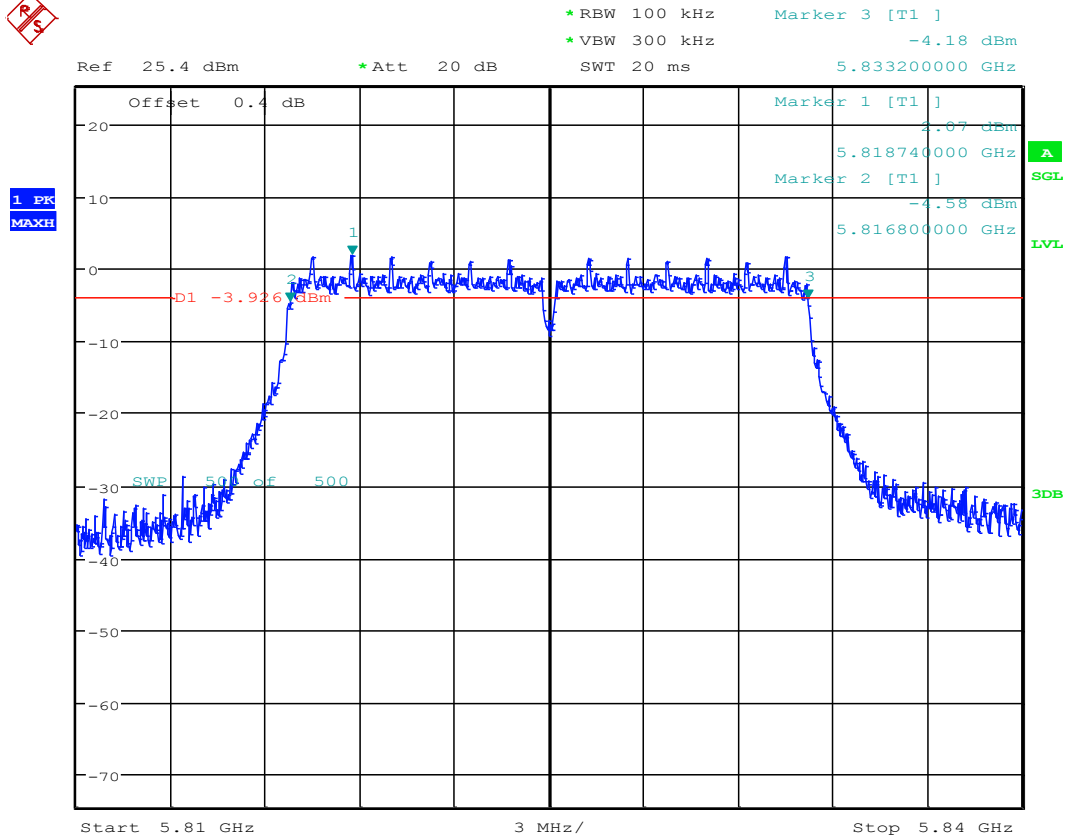
4.1 11A20_149 ANT 1



Date: 4.JUL.2018 11:22:54



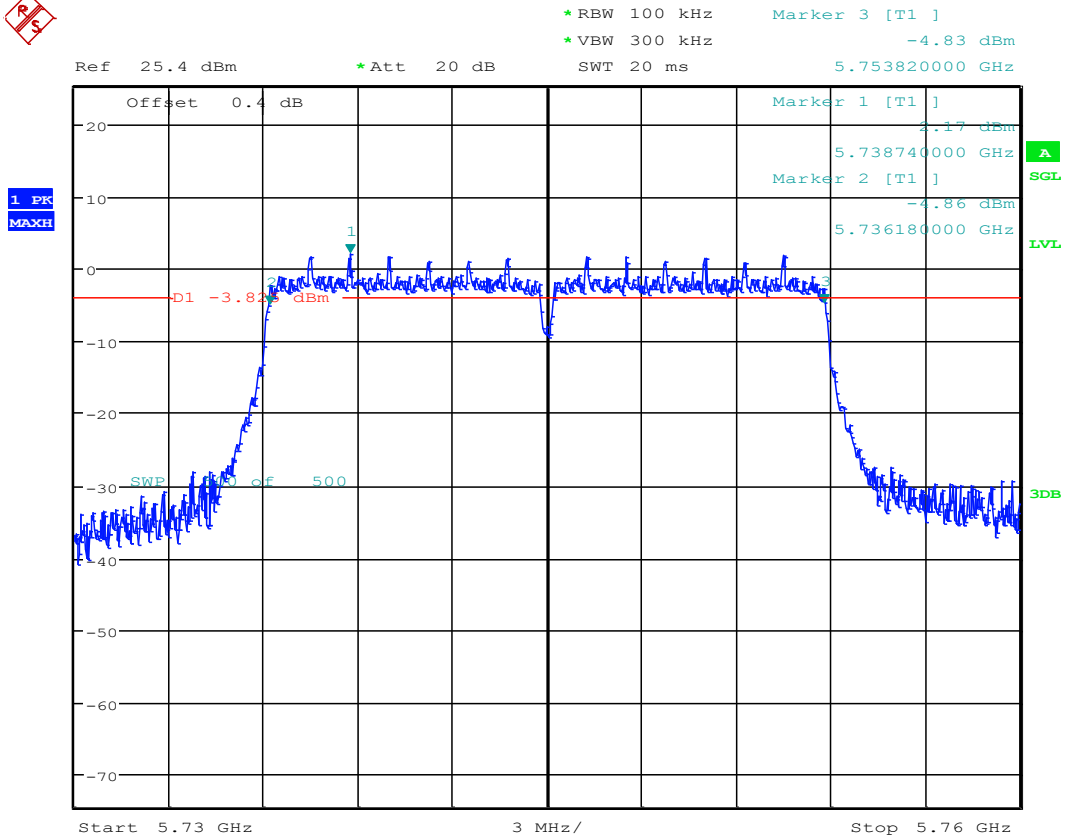
4.2 11A20_165 ANT 1



Date: 4.JUL.2018 11:42:49



4.3 11N20_149 ANT 1



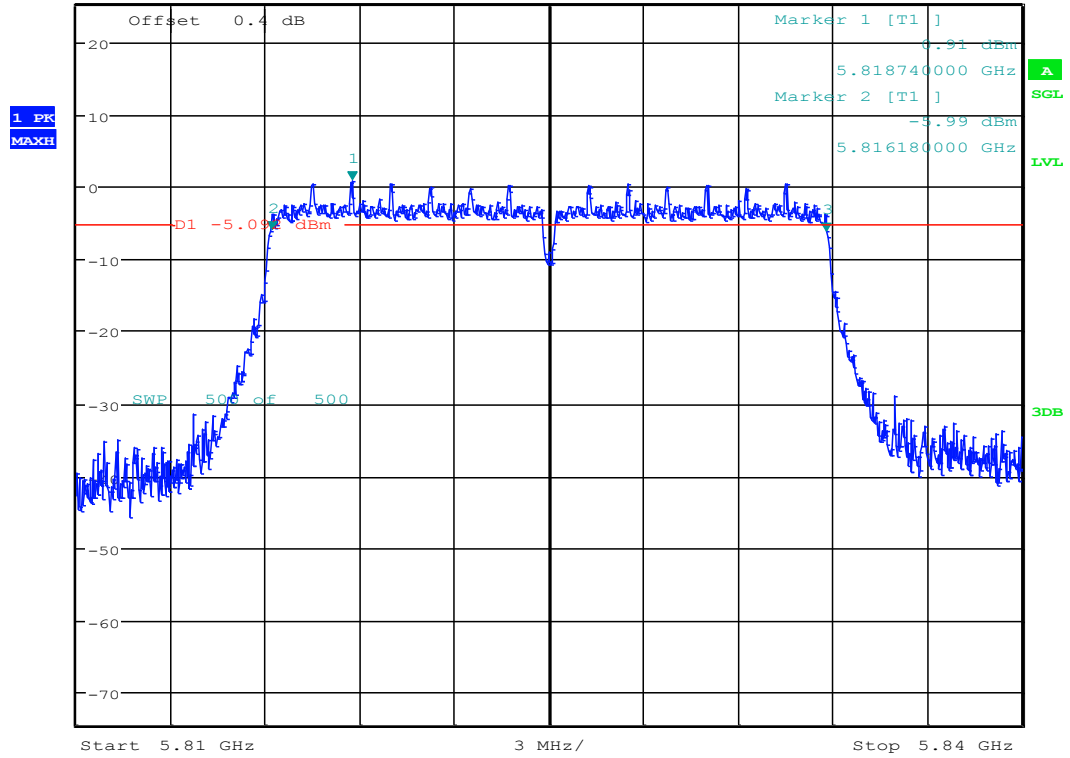
Date: 4.JUL.2018 14:13:28



4.4 11N20_165 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -6.28 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.833820000 GHz



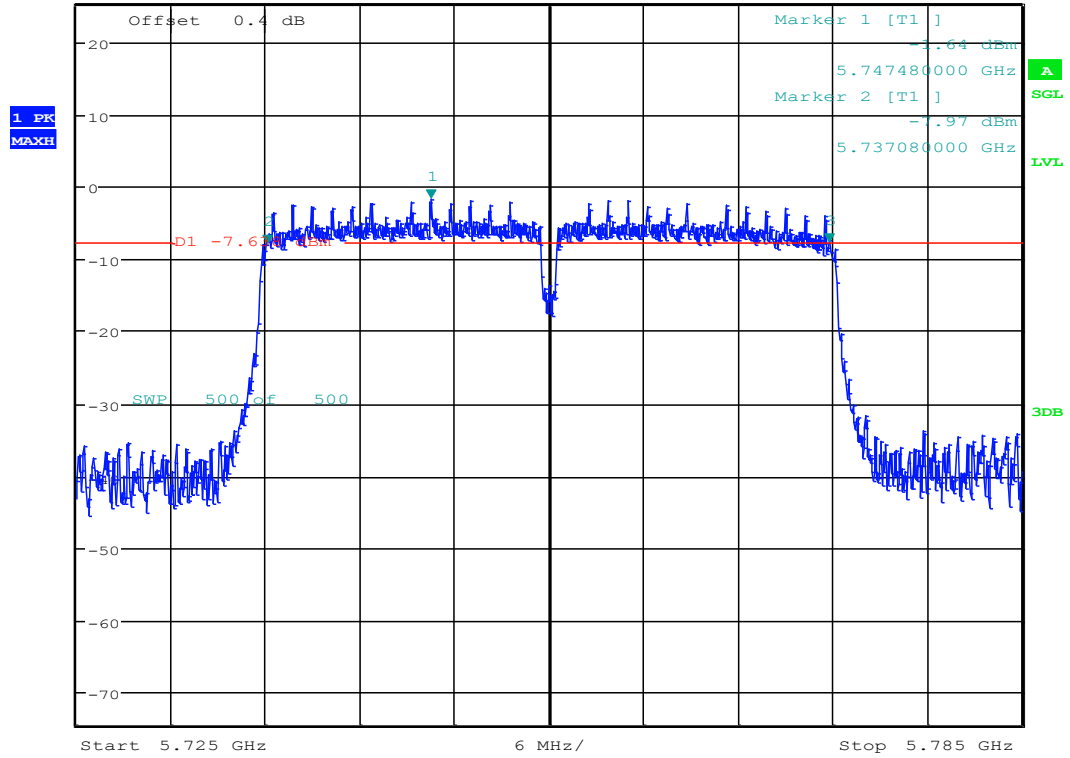
Date: 4.JUL.2018 14:17:22



4.5 11N40_151 ANT 1



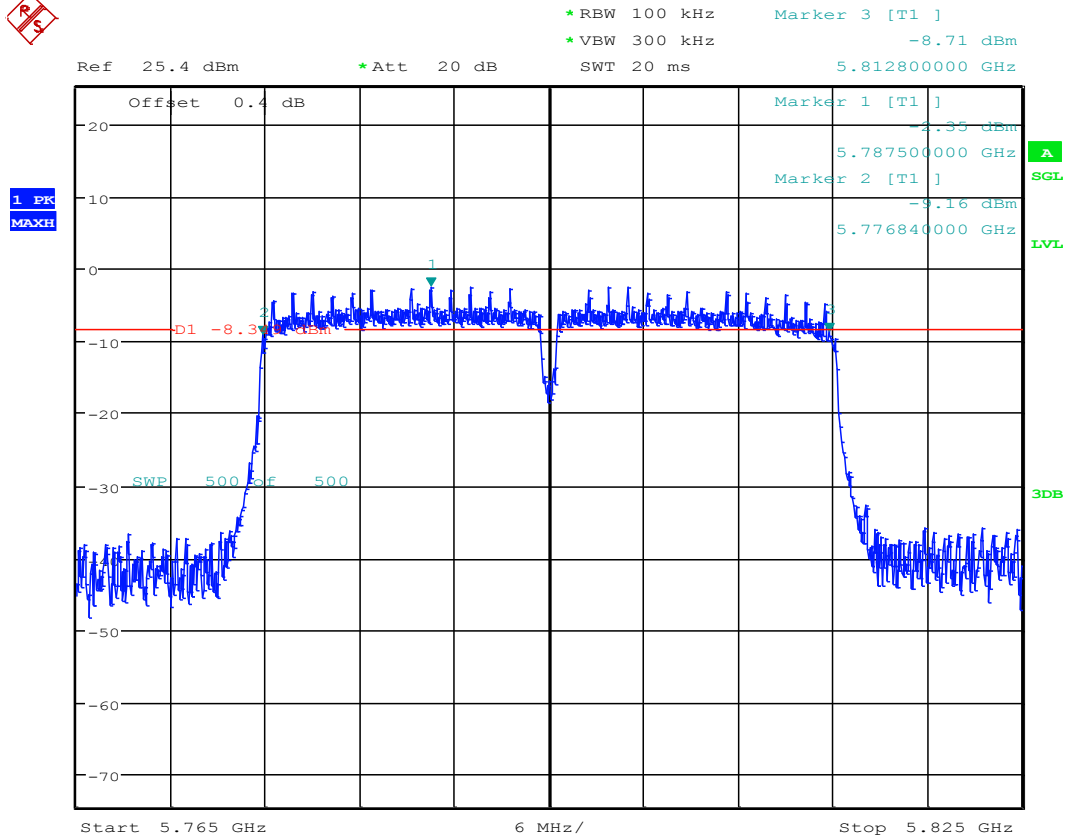
*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -7.79 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.772780000 GHz



Date: 4.JUL.2018 14:57:38



4.6 11N40_159 ANT 1



Date: 4.JUL.2018 15:01:23



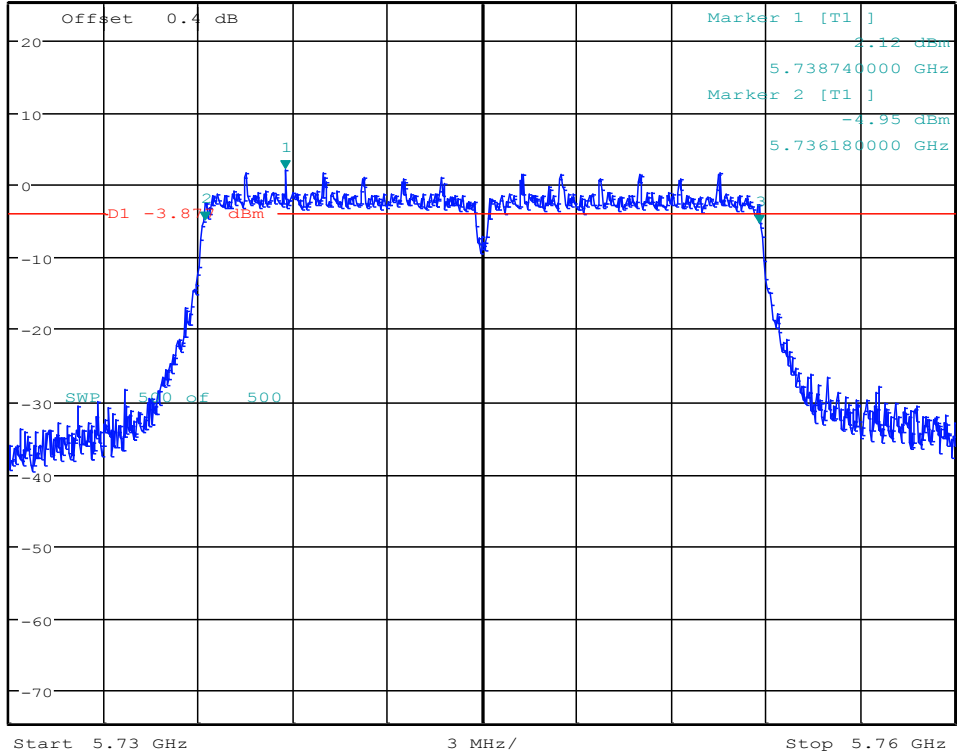
4.7 11AC20_149 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -5.28 dBm
 SWT 20 ms 5.753820000 GHz

Ref 25.4 dBm *Att 20 dB

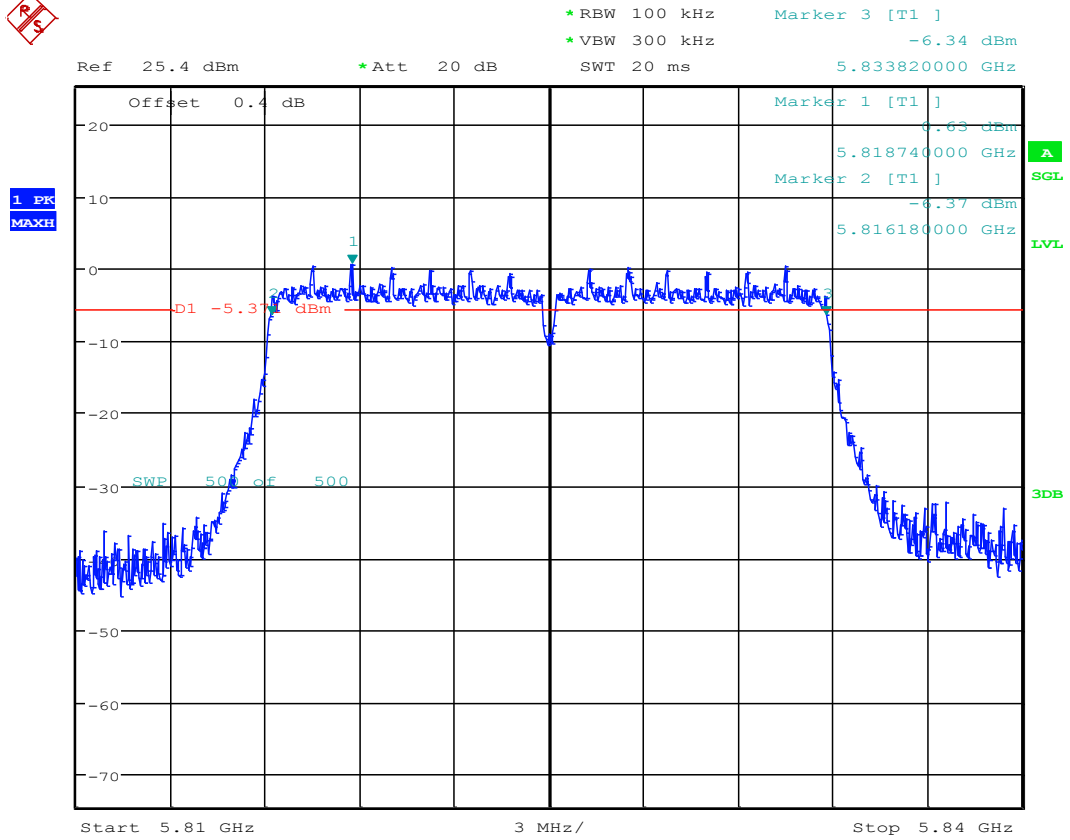
1 PK
MAXH



Date: 4.JUL.2018 15:29:28

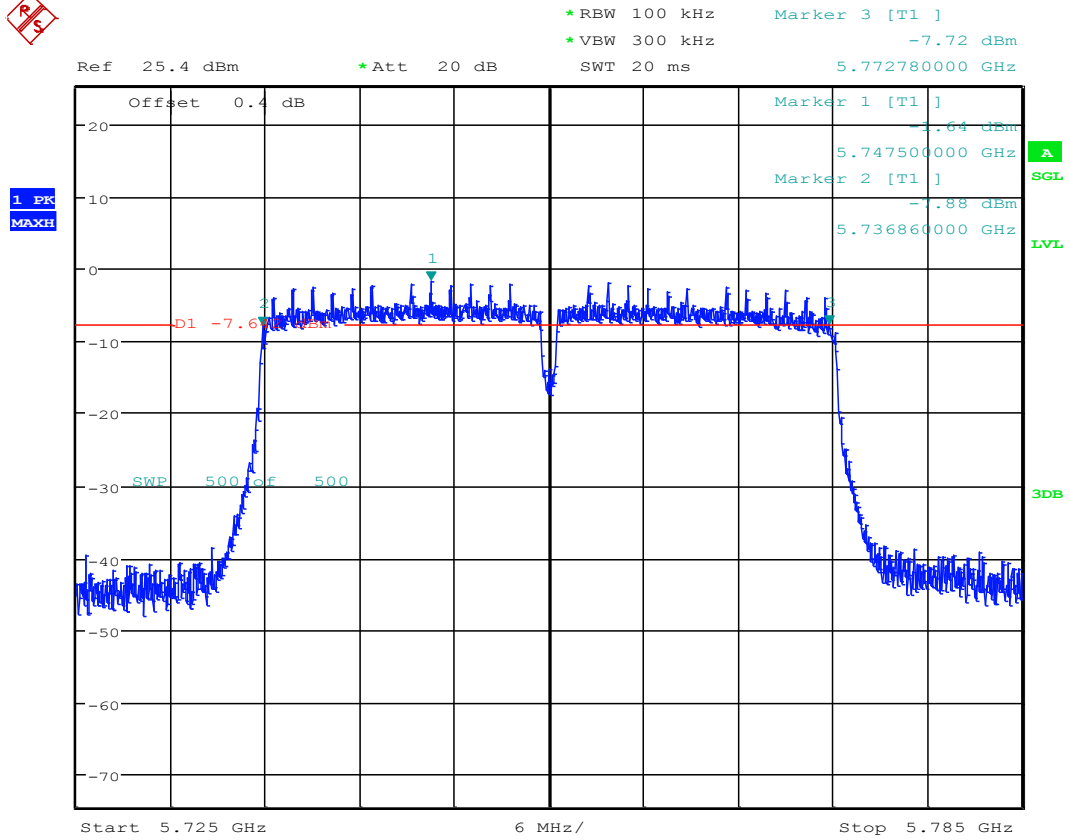


4.8 11AC20_165 ANT 1



Date: 4.JUL.2018 15:34:09

4.9 11AC40_151 ANT 1



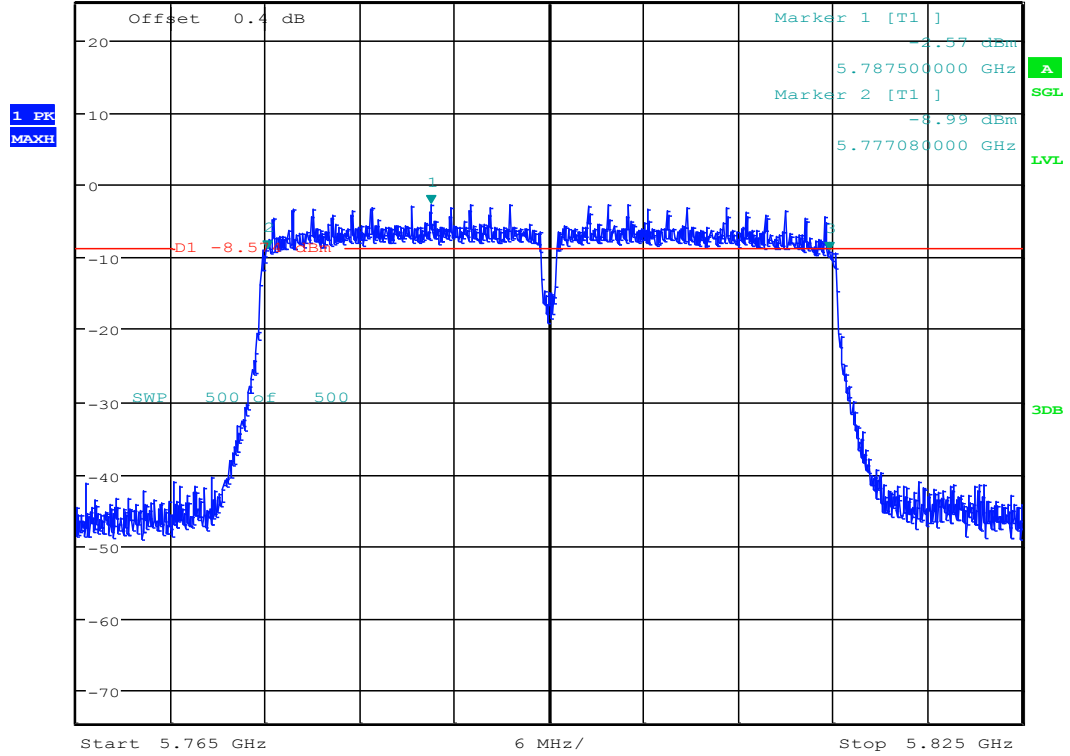
Date: 4.JUL.2018 15:59:27



4.10 11AC40_159 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -9.17 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.812800000 GHz



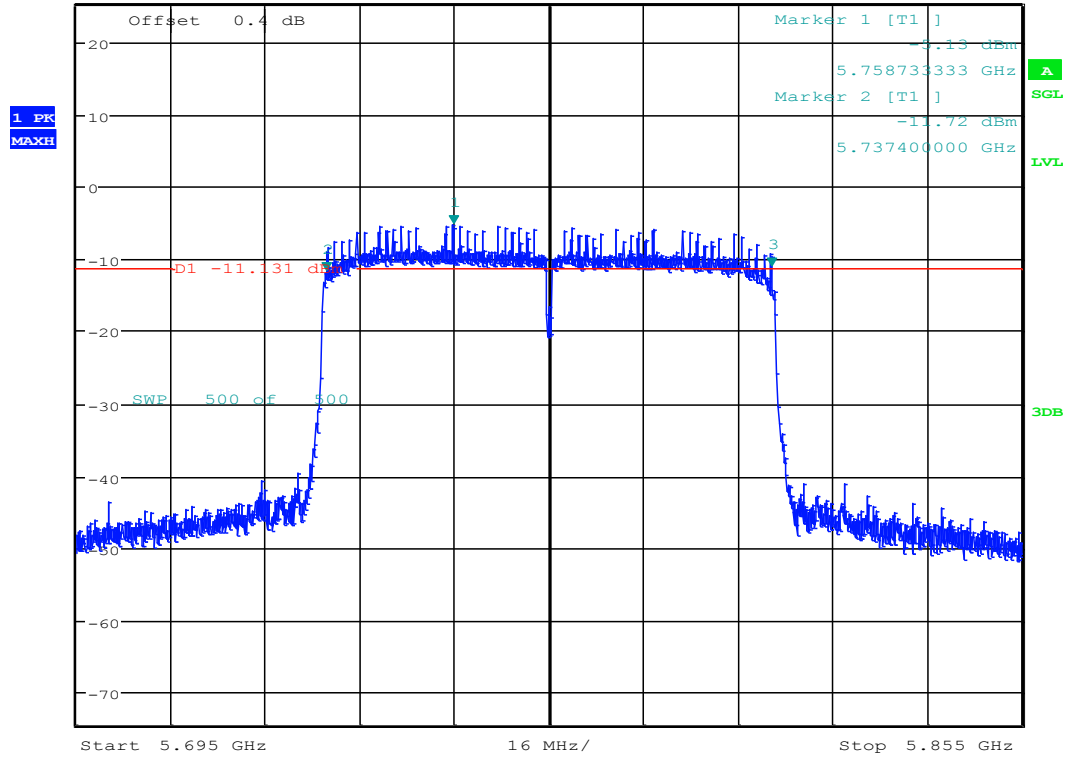
Date: 4.JUL.2018 16:03:01



4.11 11AC80_155 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -11.14 dBm
 Ref 25.4 dBm *Att 20 dB SWT 20 ms 5.812600000 GHz



Date: 4.JUL.2018 16:22:14



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
	48	5240	ANT 1	16.86	PASS
	52	5260	ANT 1	16.80	PASS
	64	5320	ANT 1	16.80	PASS
	100	5500	ANT 1	16.82	PASS
	140	5700	ANT 1	16.80	PASS
	149	5745	ANT 1	16.82	PASS
	165	5825	ANT 1	16.80	PASS
11N20	36	5180	ANT 1	17.78	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.76	PASS
	64	5320	ANT 1	17.74	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
	149	5745	ANT 1	17.76	PASS
	165	5825	ANT 1	17.76	PASS
11N40	38	5190	ANT 1	36.02	PASS
	46	5230	ANT 1	36.00	PASS
	54	5270	ANT 1	36.02	PASS
	62	5310	ANT 1	36.00	PASS
	102	5510	ANT 1	35.98	PASS
	134	5670	ANT 1	36.02	PASS
	151	5755	ANT 1	36.00	PASS
	159	5795	ANT 1	36.00	PASS
11AC20	36	5180	ANT 1	17.78	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.76	PASS
	64	5320	ANT 1	17.74	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
	149	5745	ANT 1	17.76	PASS
	165	5825	ANT 1	17.74	PASS
11AC40	38	5190	ANT 1	35.96	PASS
	46	5230	ANT 1	35.96	PASS

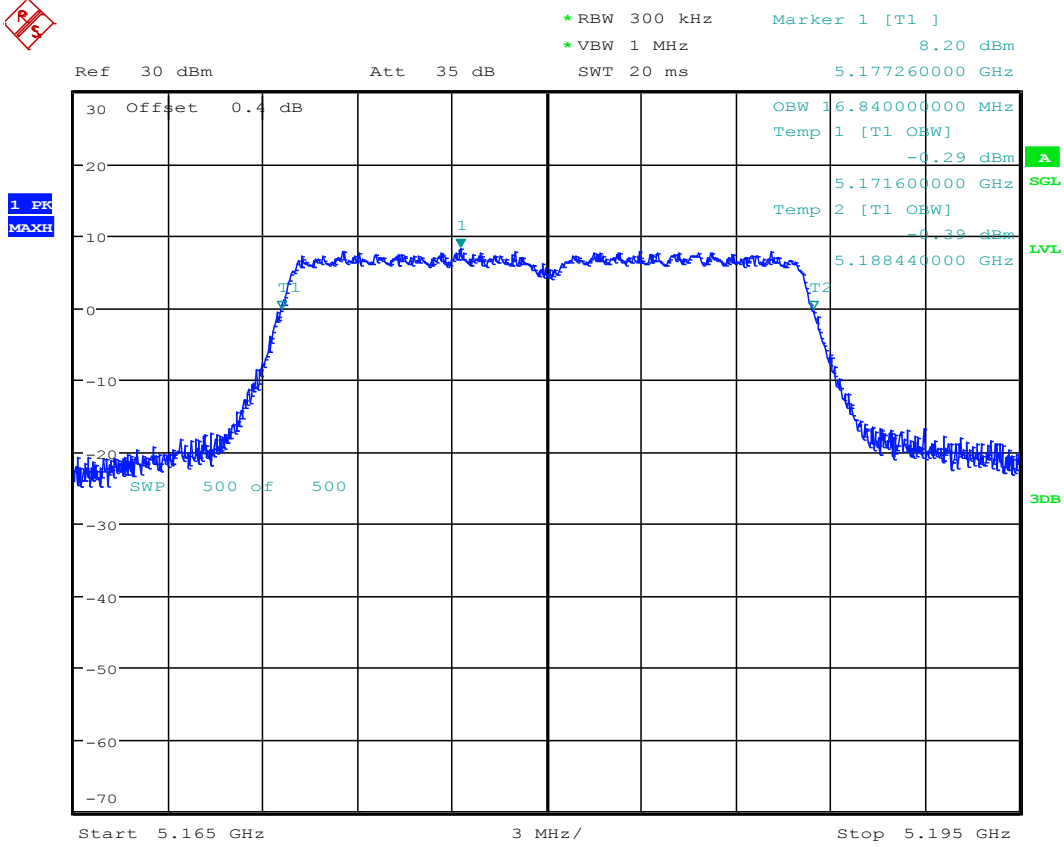


	54	5270	ANT 1	35.96	PASS
	62	5310	ANT 1	35.94	PASS
	102	5510	ANT 1	35.94	PASS
	134	5670	ANT 1	35.96	PASS
	151	5755	ANT 1	35.94	PASS
	159	5795	ANT 1	35.96	PASS
11AC80	42	5210	ANT 1	74.88	PASS
	58	5290	ANT 1	75.00	PASS
	106	5530	ANT 1	74.92	PASS
	122	5610	ANT 1	74.96	PASS
	155	5775	ANT 1	74.92	PASS



6 Test Plot

6.1 11A20_36 ANT 1



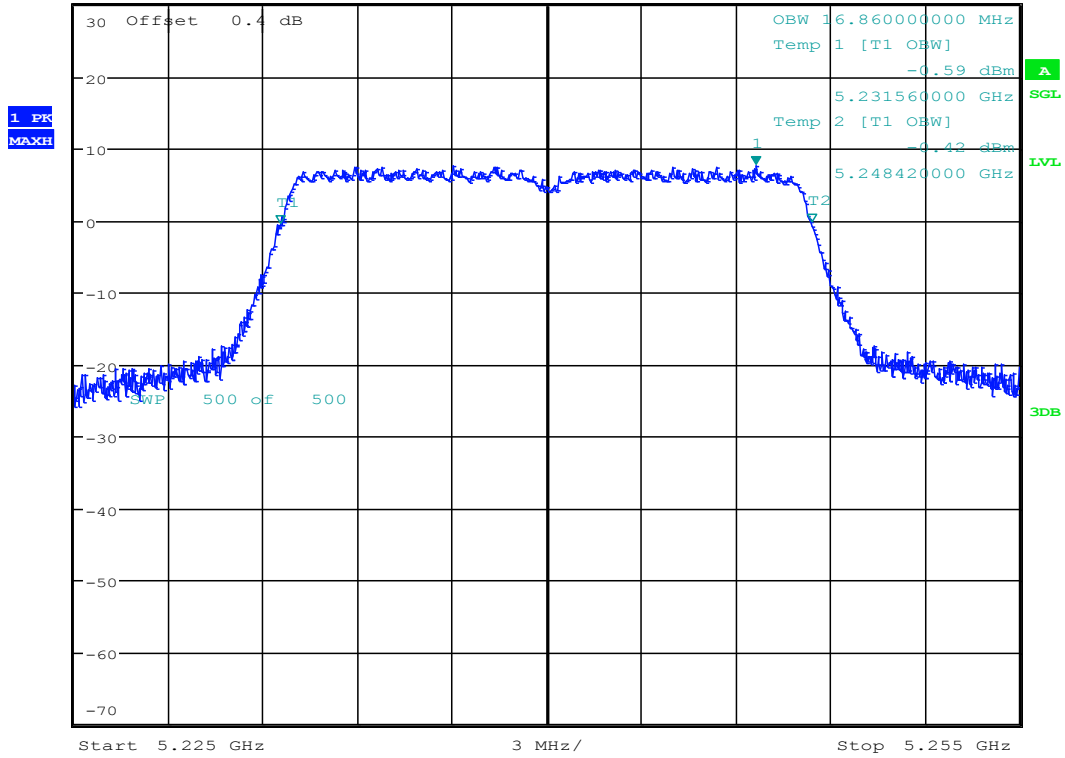
Date: 4.JUL.2018 10:50:20



6.2 11A20_48 ANT 1



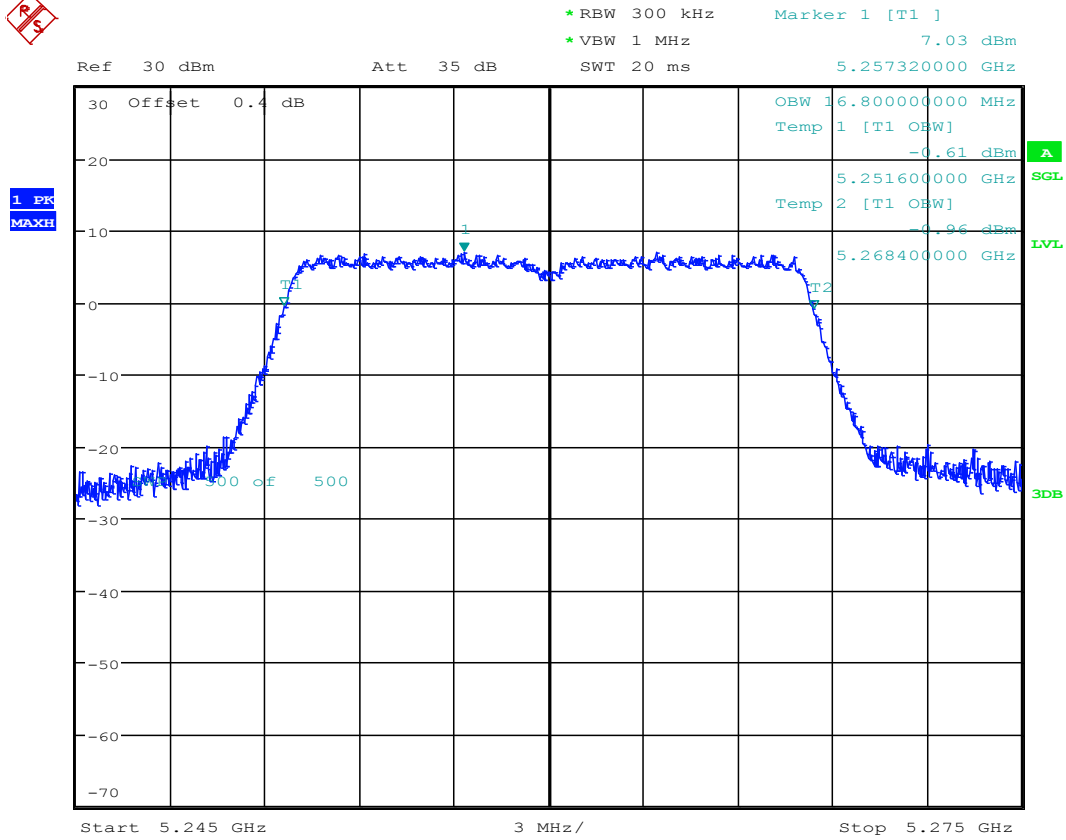
* RBW 300 kHz Marker 1 [T1]
 * VBW 1 MHz 7.63 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.246620000 GHz



Date: 4.JUL.2018 10:54:28



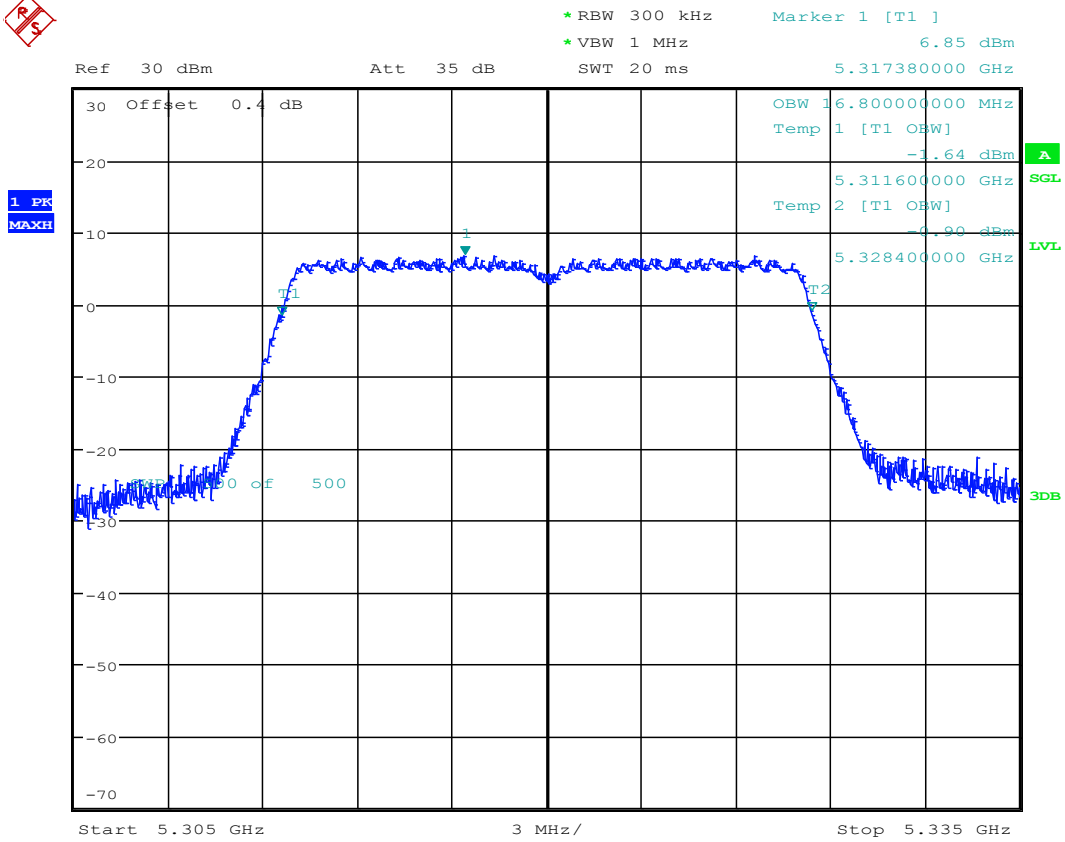
6.3 11A20_52 ANT 1



Date: 4.JUL.2018 10:58:34

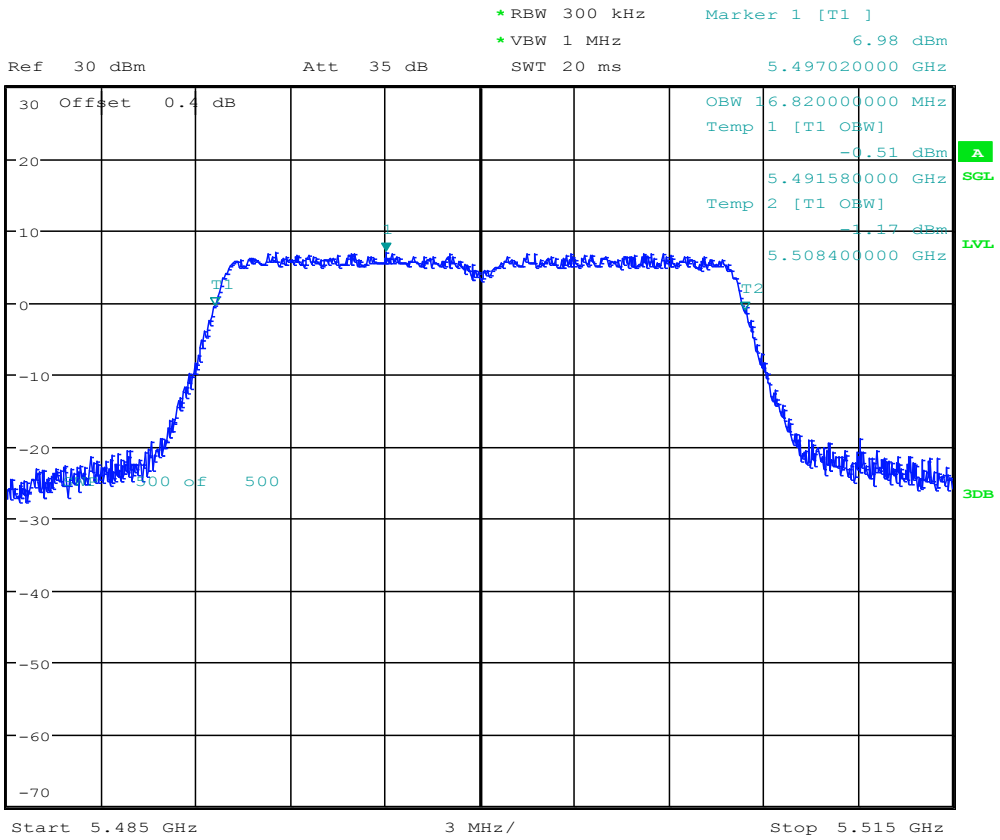


6.4 11A20_64 ANT 1



Date: 4.JUL.2018 11:03:50

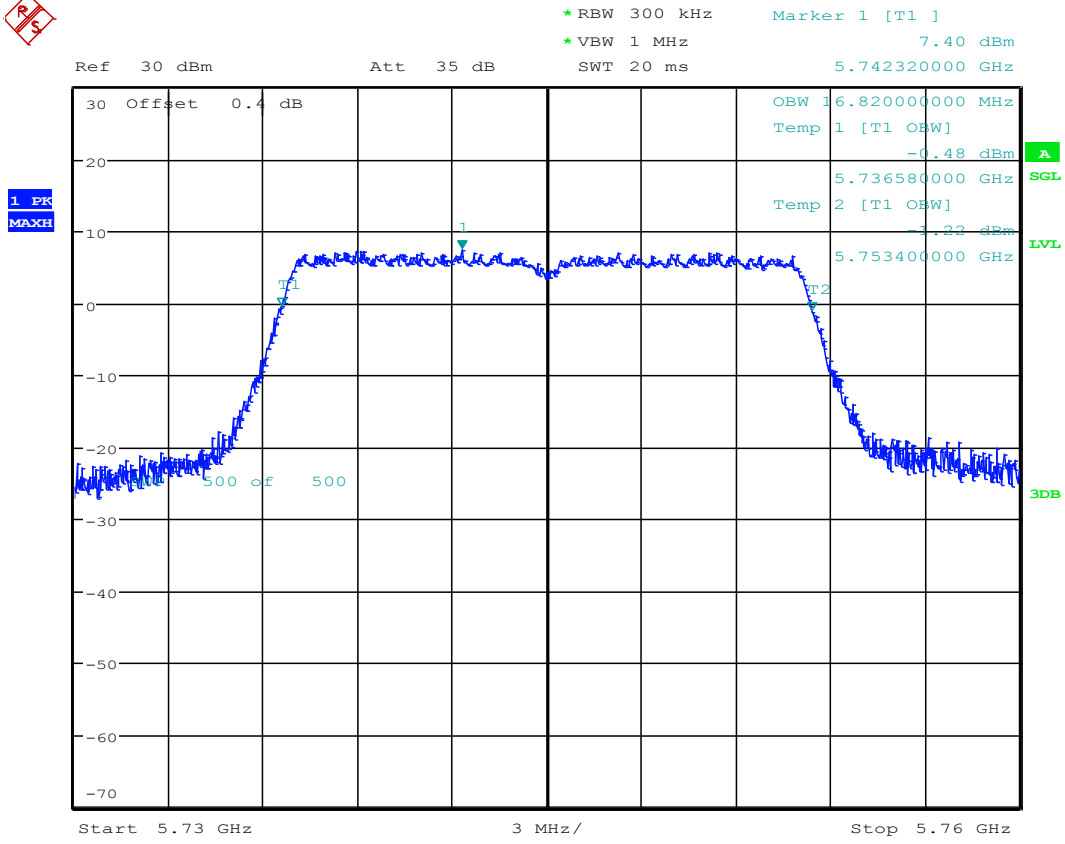
6.5 11A20_100 ANT 1



Date: 4.JUL.2018 11:07:55



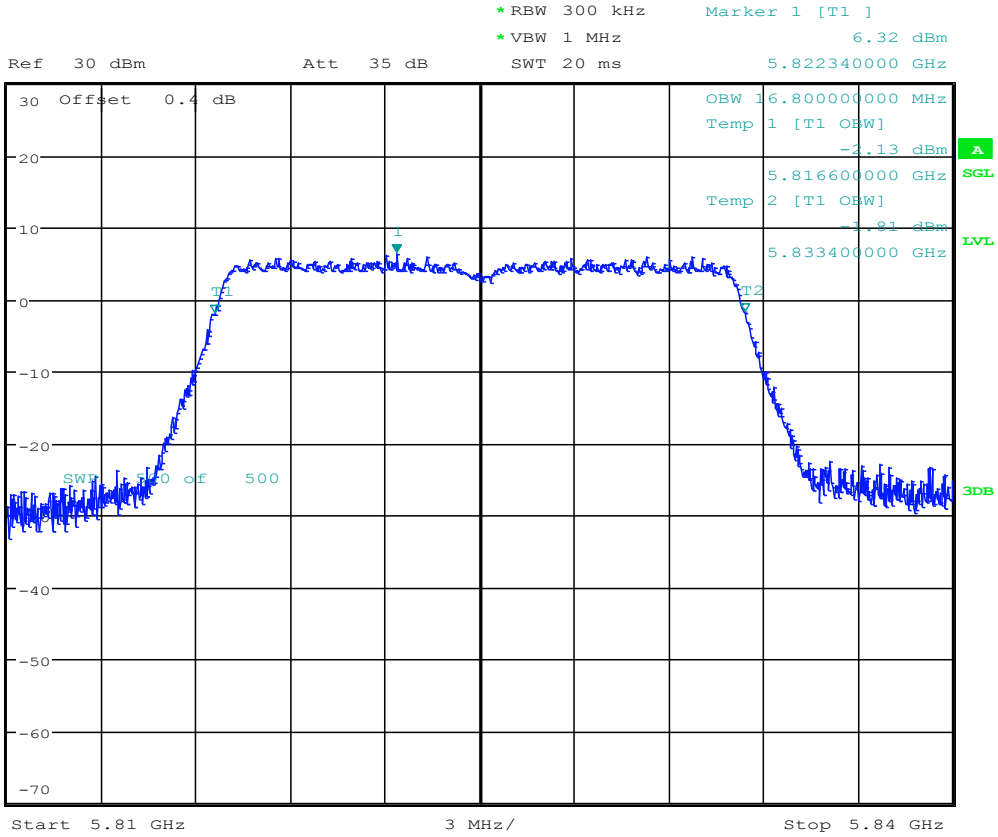
6.7 11A20_149 ANT 1



Date: 4.JUL.2018 11:23:40

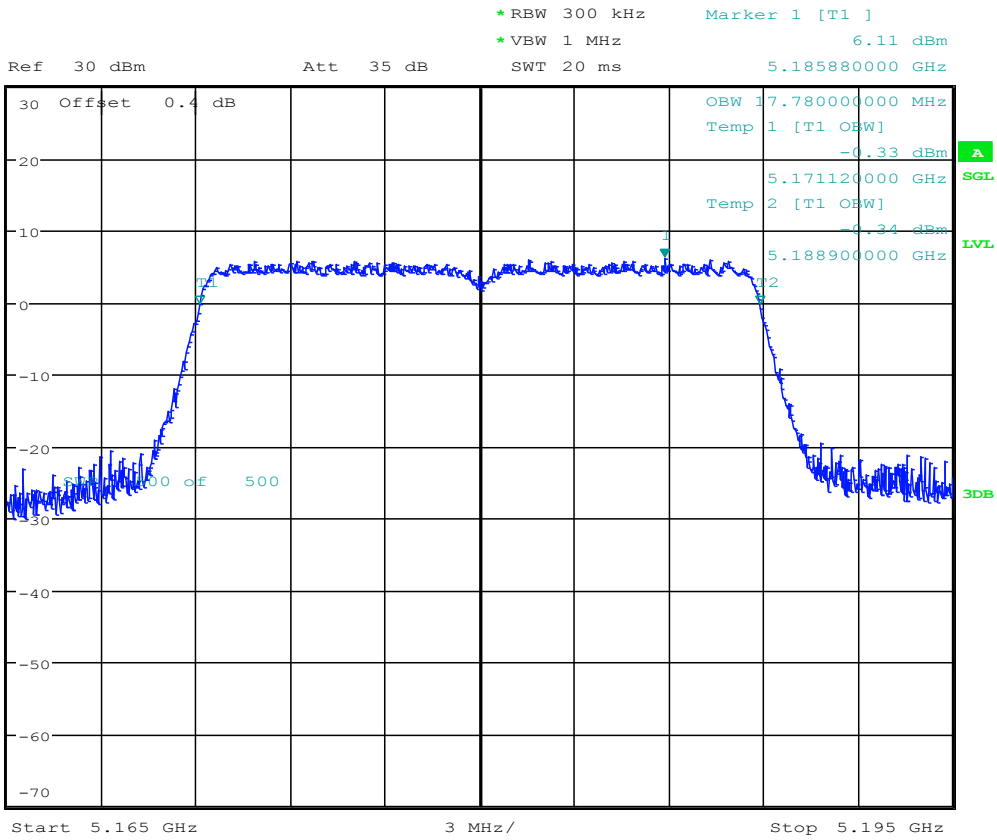


6.8 11A20_165 ANT 1



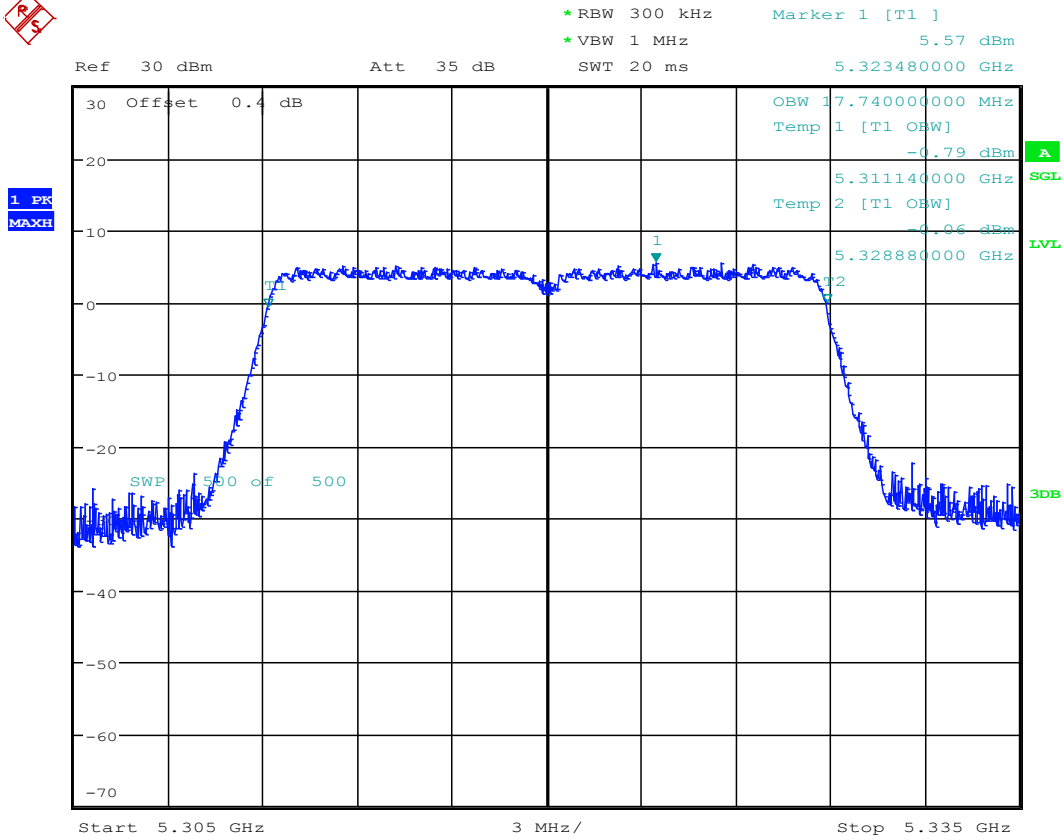
Date: 4.JUL.2018 11:43:35

6.9 11N20_36 ANT 1



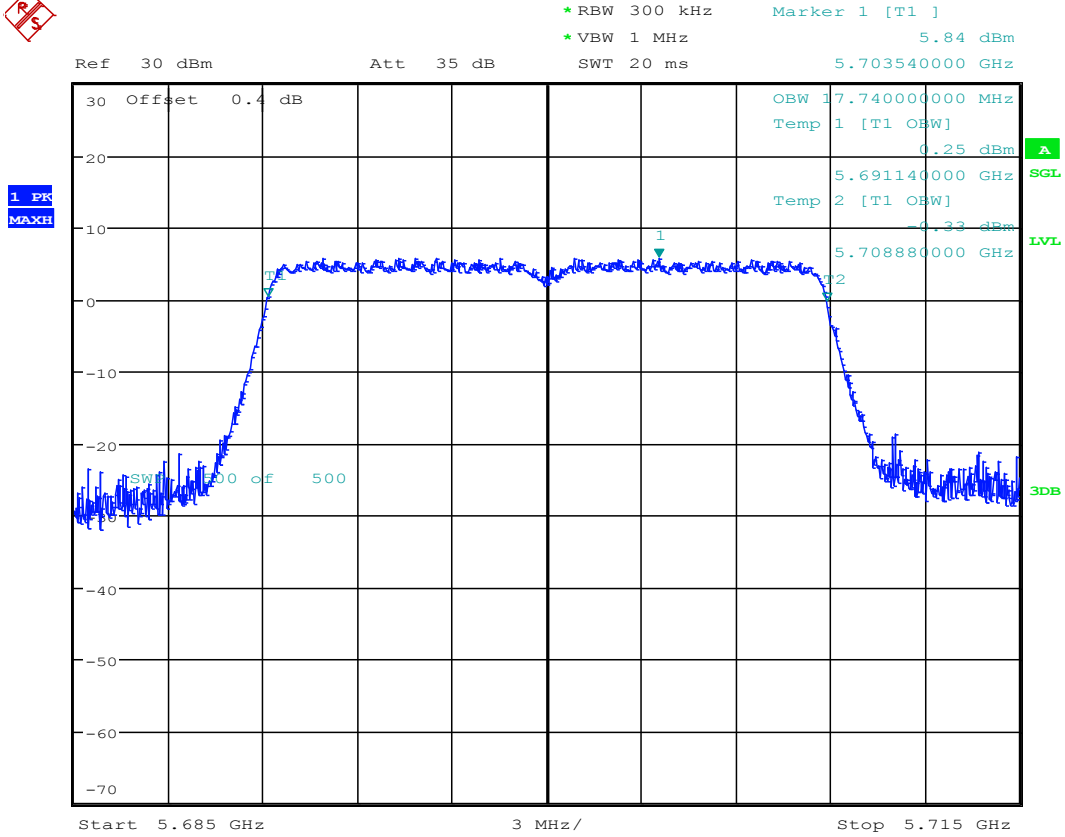
Date: 4.JUL.2018 11:58:18

6.12 11N20_64 ANT 1



Date: 4.JUL.2018 13:49:36

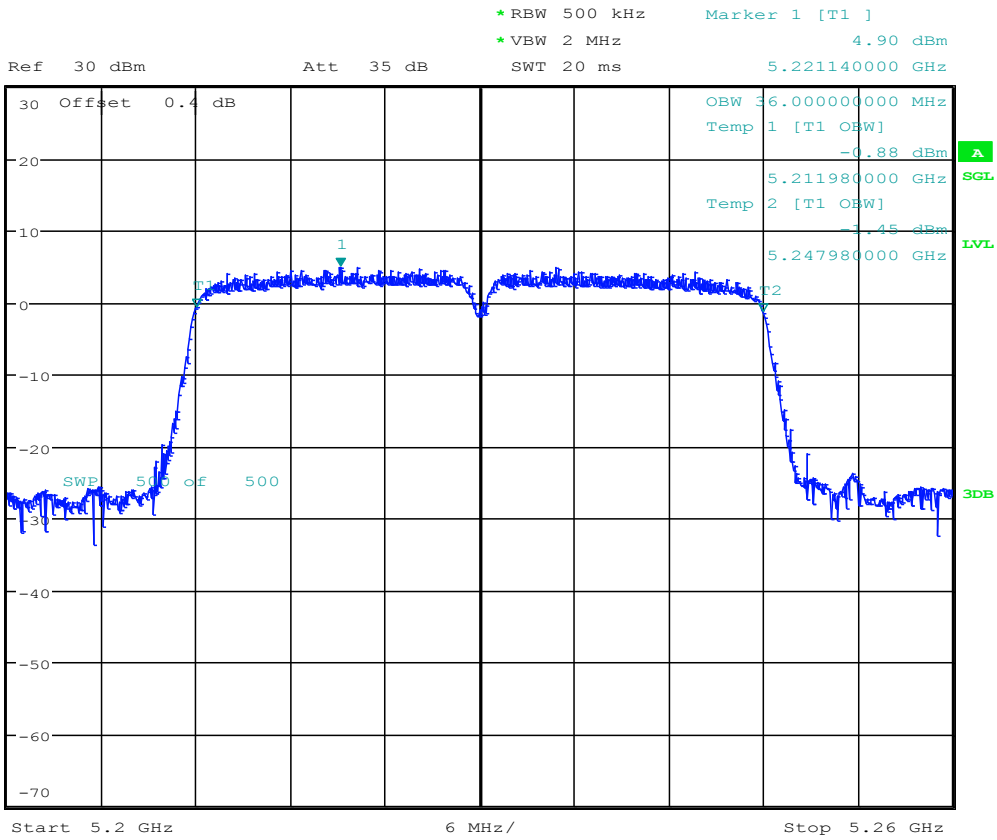
6.14 11N20_140 ANT 1



Date: 4.JUL.2018 14:05:44



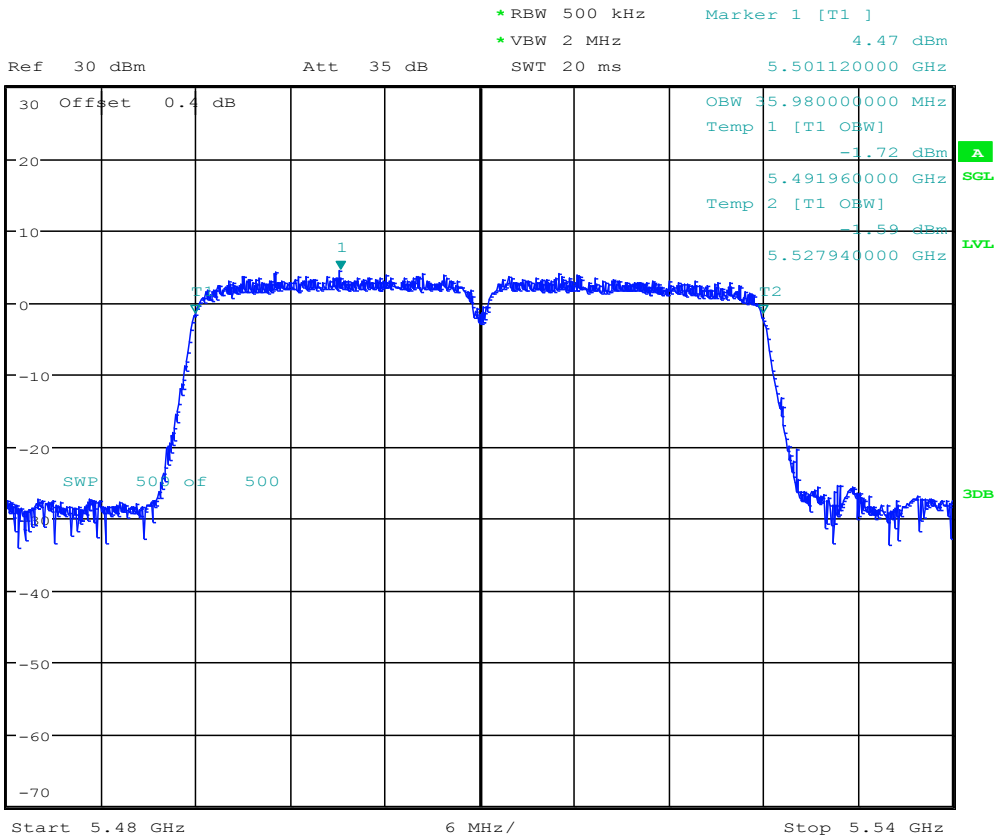
6.18 11N40_46 ANT 1



Date: 4.JUL.2018 14:29:55



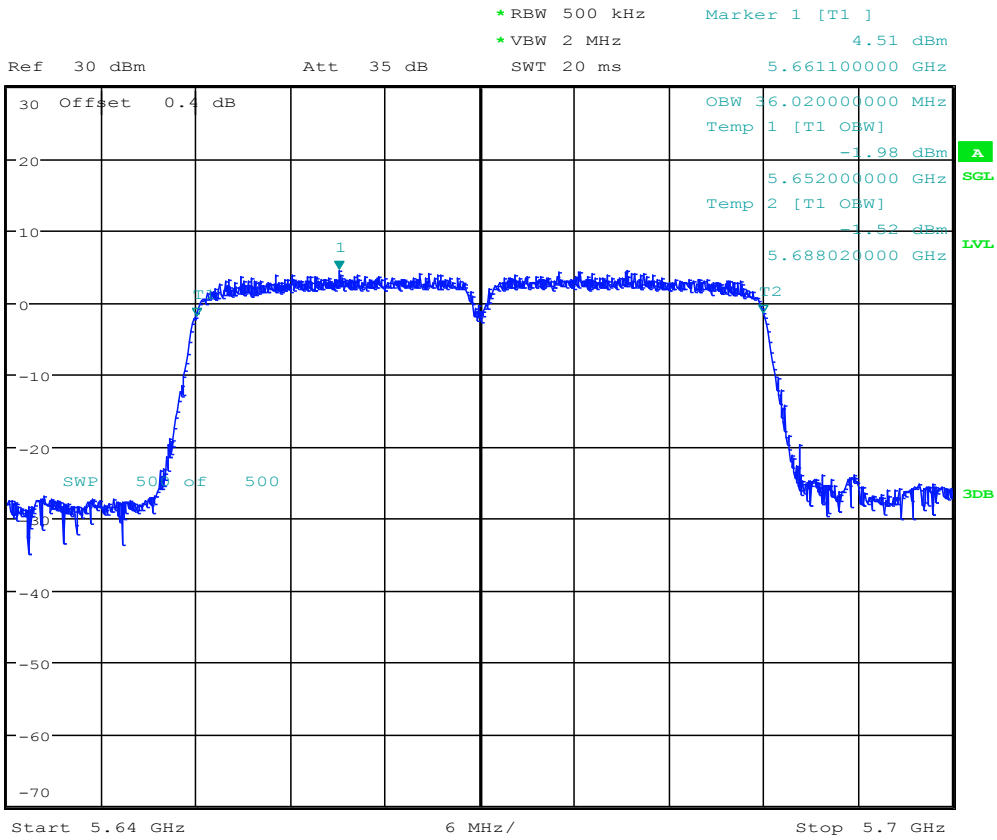
6.21 11N40_102 ANT 1



Date: 4.JUL.2018 14:47:06



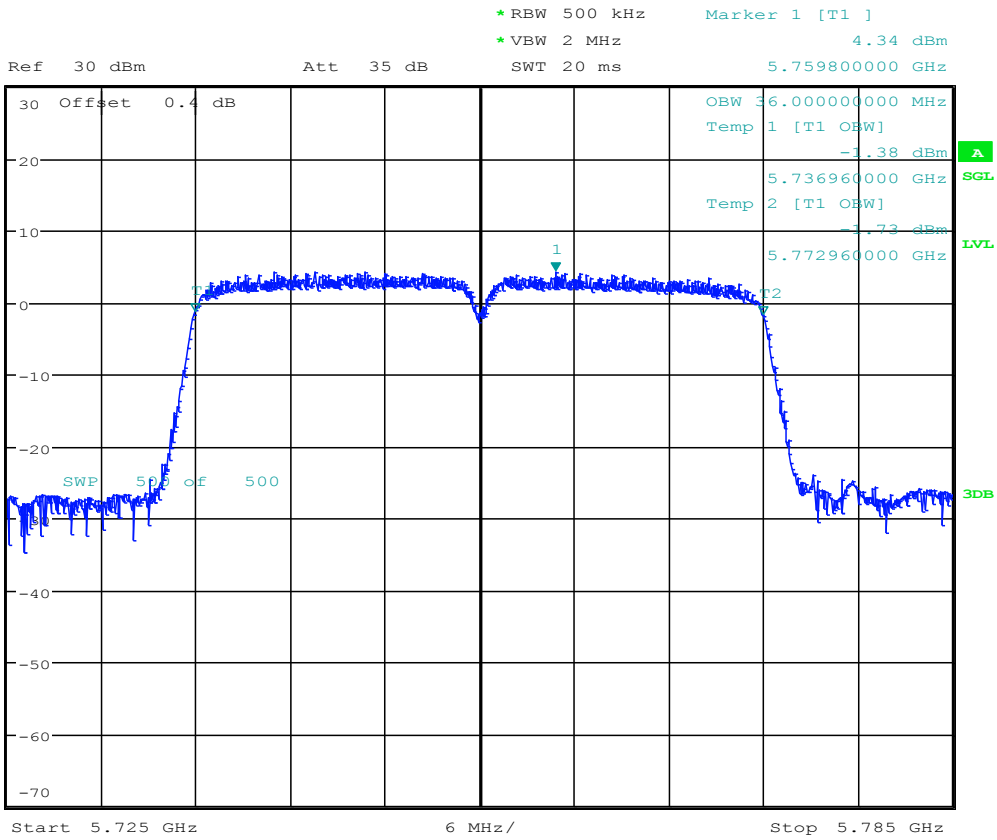
6.22 11N40_134 ANT 1



Date: 4.JUL.2018 14:50:07



6.23 11N40_151 ANT 1



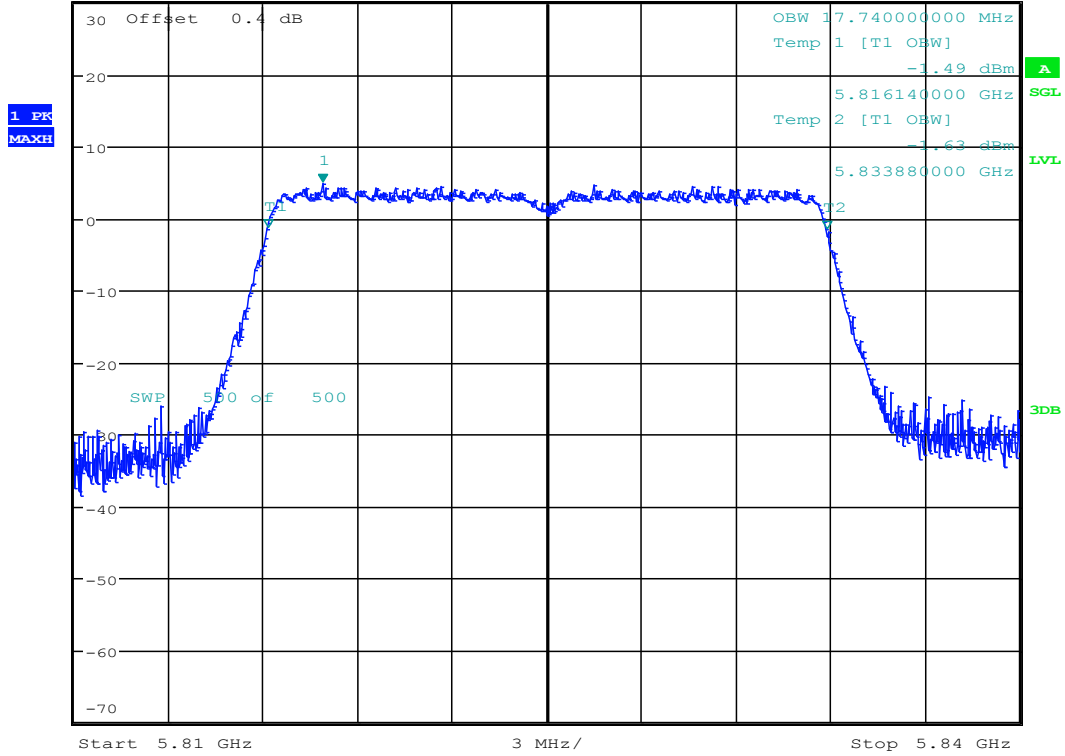
Date: 4.JUL.2018 14:58:30



6.32 11AC20_165 ANT 1



*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 4.81 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.817900000 GHz



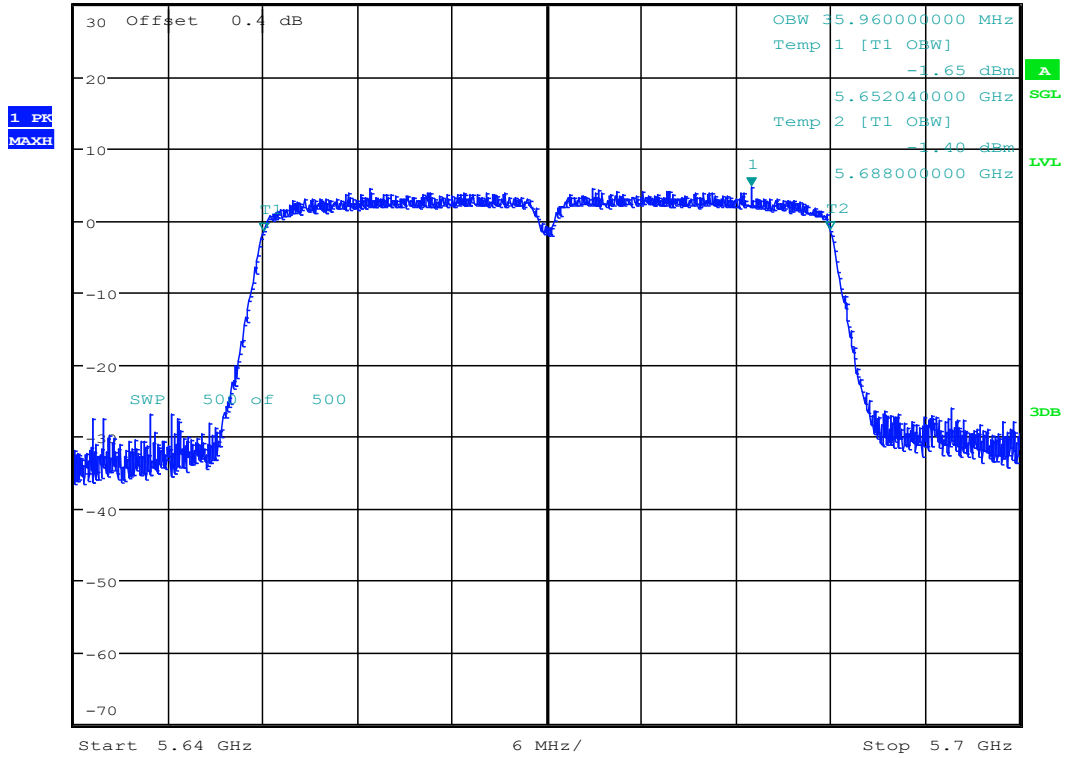
Date: 4.JUL.2018 15:34:56



6.38 11AC40_134 ANT 1



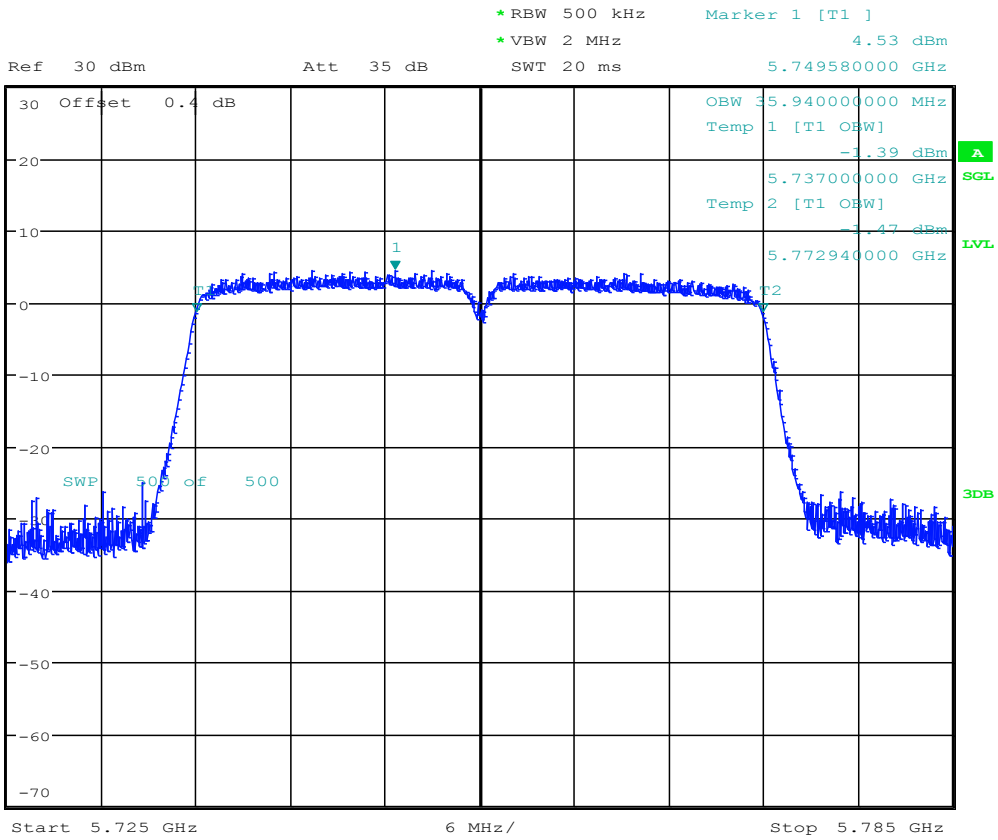
*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 4.61 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.682980000 GHz



Date: 4.JUL.2018 15:53:51



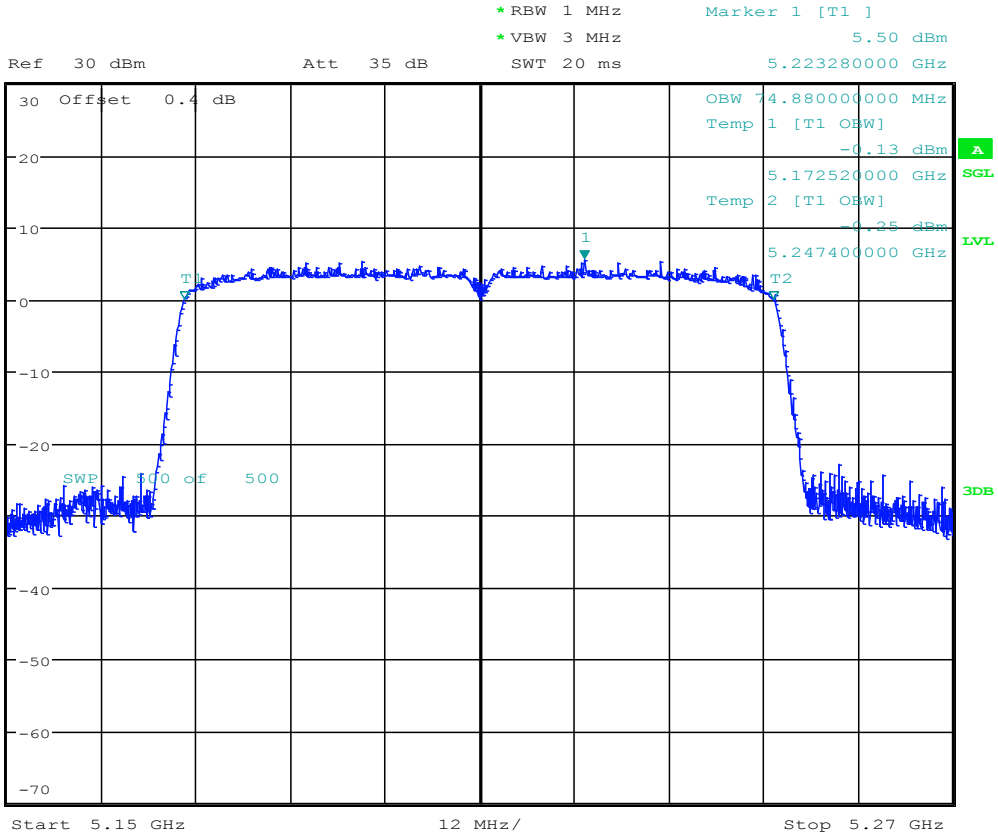
6.39 11AC40_151 ANT 1



Date: 4.JUL.2018 16:00:19



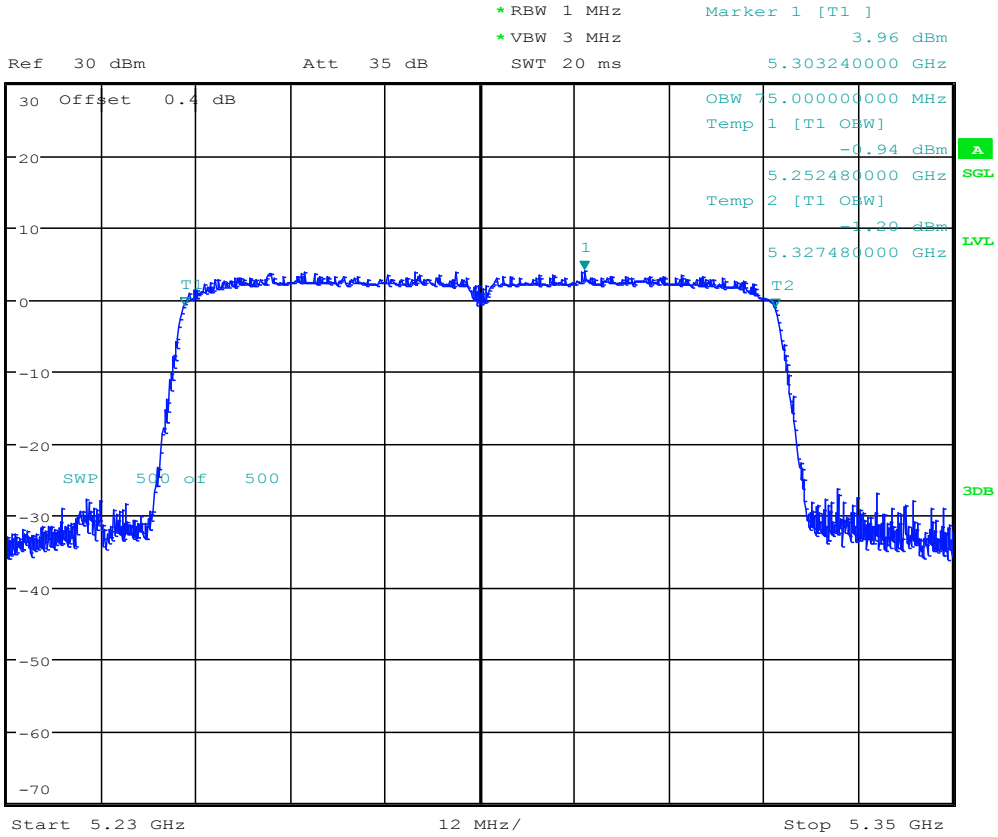
6.41 11AC80_42 ANT 1



Date: 4.JUL.2018 16:07:35



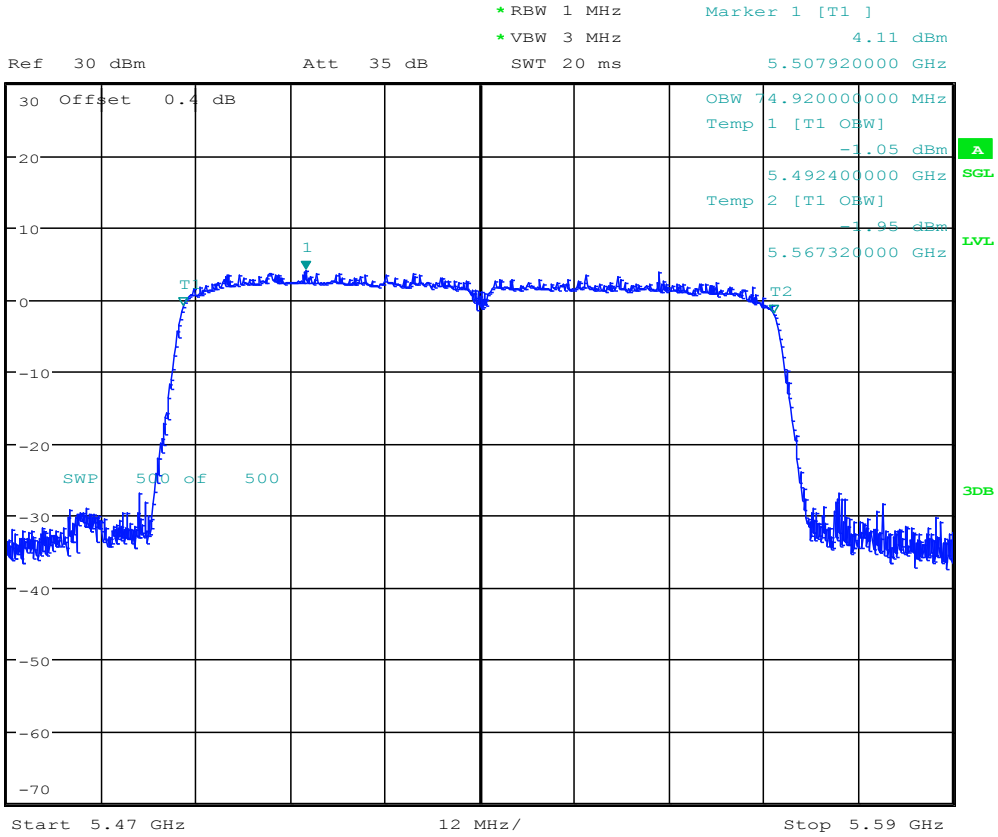
6.42 11AC80_58 ANT 1



Date: 4.JUL.2018 16:10:21



6.43 11AC80_106 ANT 1



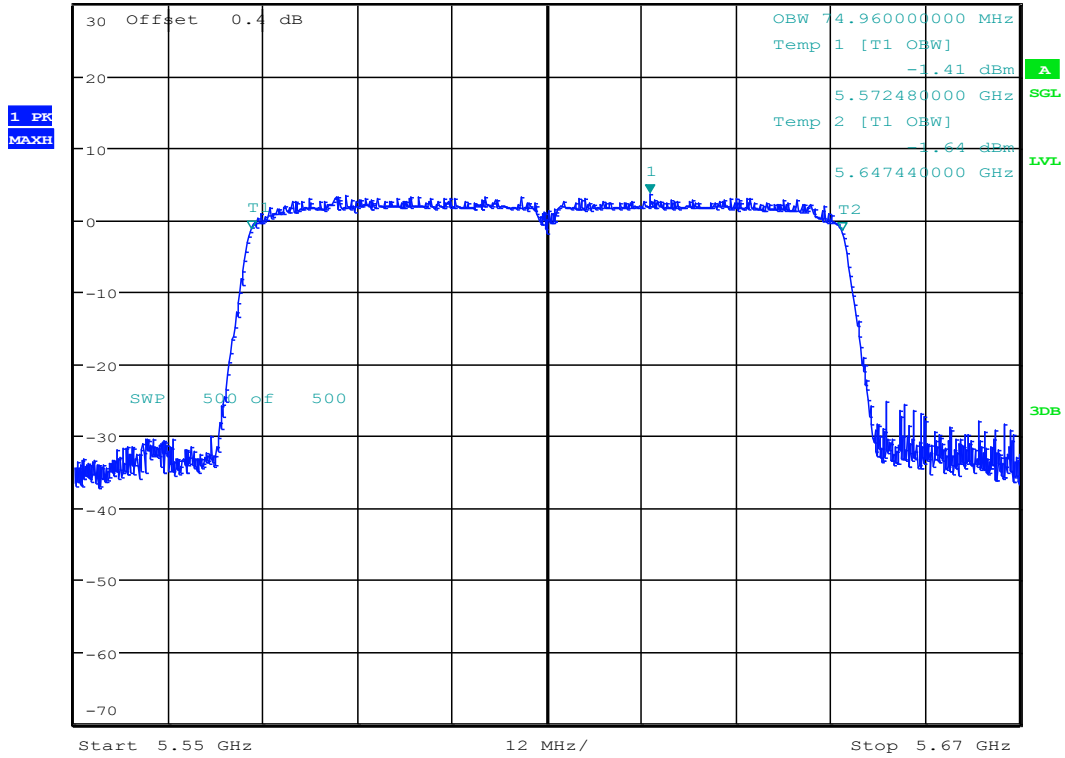
Date: 4.JUL.2018 16:14:04



6.4411AC80_122 ANT 1



* RBW 1 MHz Marker 1 [T1] 3.58 dBm
 * VBW 3 MHz
 Ref 30 dBm Att 35 dB SWT 20 ms 5.623080000 GHz



Date: 4.JUL.2018 16:17:22

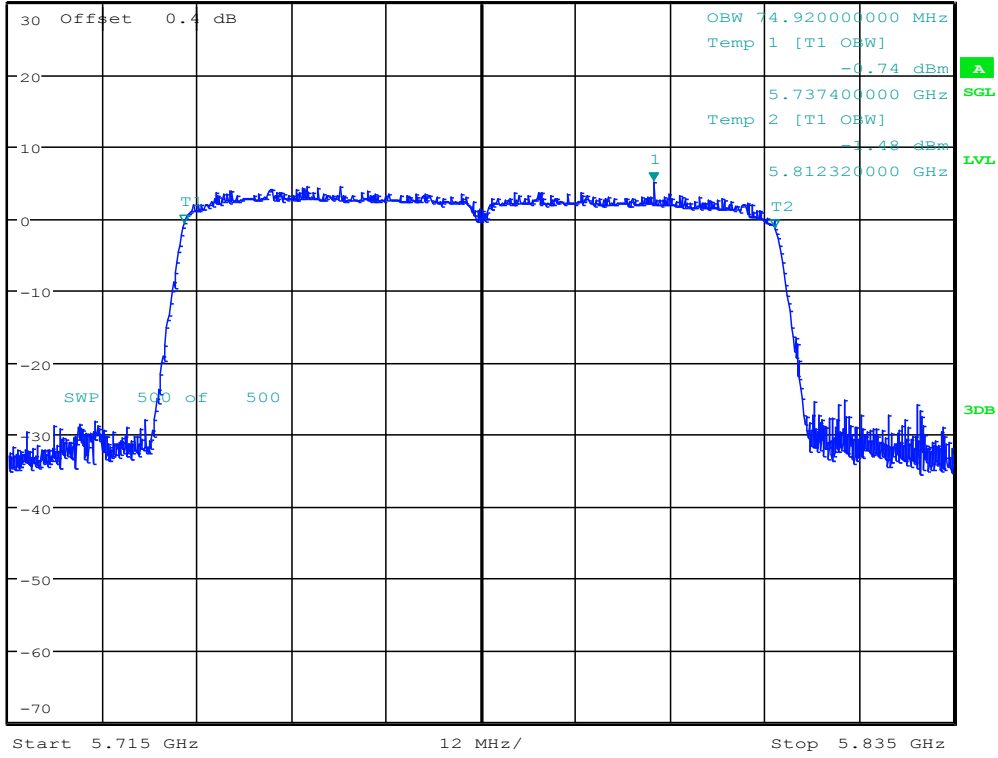


6.45 11AC80_155 ANT 1



* RBW 1 MHz Marker 1 [T1]
 * VBW 3 MHz 5.17 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.796960000 GHz

1 PK
MAXH



Date: 4.JUL.2018 16:23:08



Appendix C: Duty Cycle



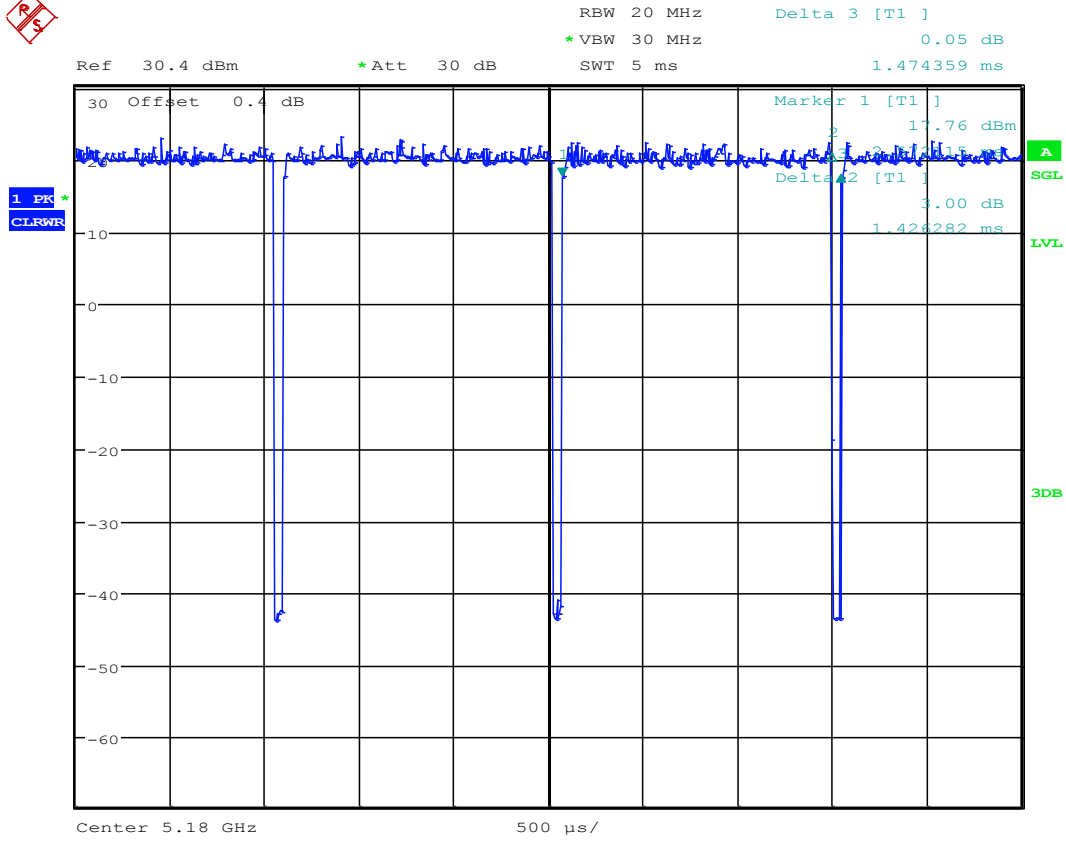
7 Part I - Test Results

Test Mode	Antenna Port	Power Conf.,	Duty cycle [%]
11A20	ANT 1	14	96.7
11N20	ANT 1	13	97.6
11N40	ANT 1	12	95.7
11AC20	ANT 1	13	98.6
11AC40	ANT 1	12	98.1
11AC80	ANT 1	12	96.4



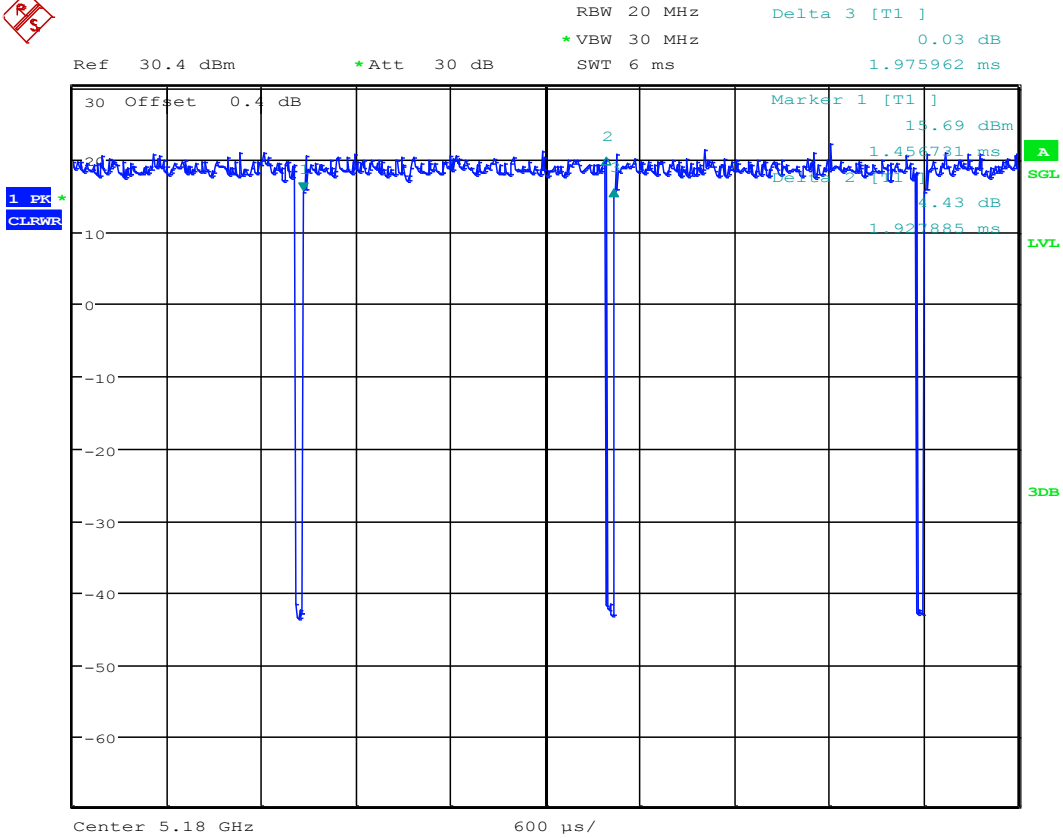
8 Test Plot

8.1 11A20



Date: 4.JUL.2018 09:57:02

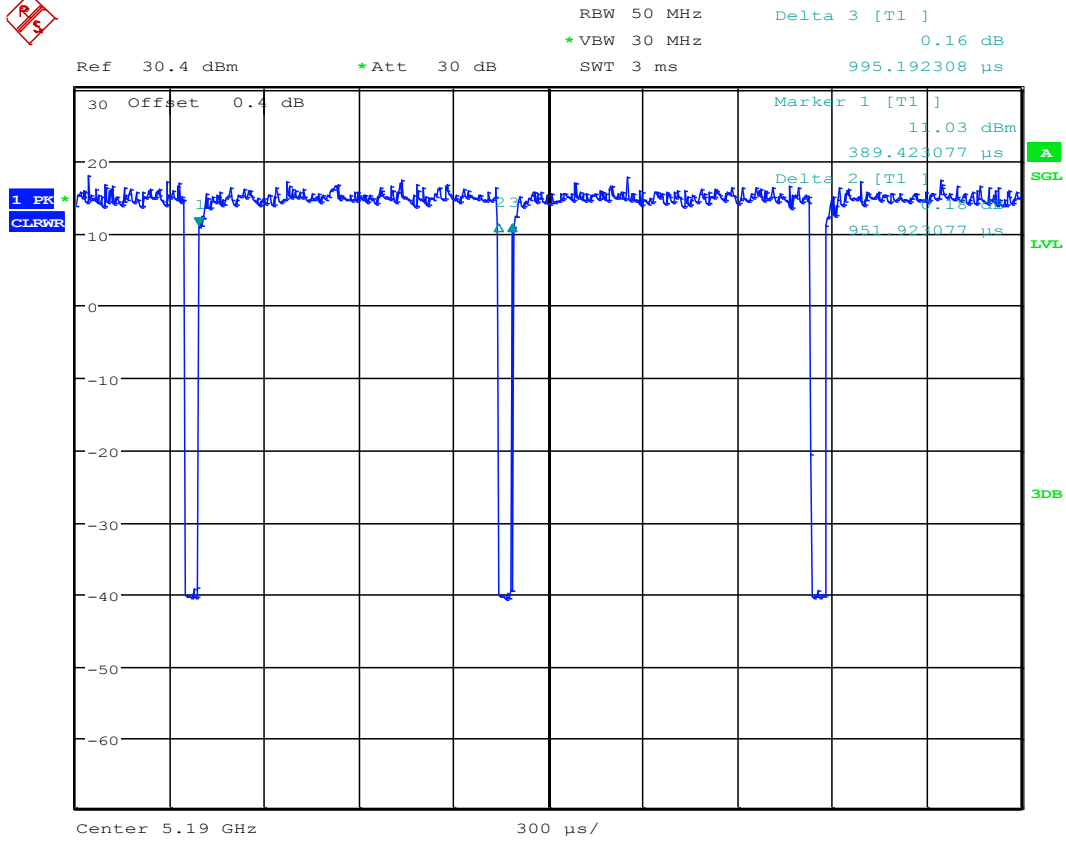
8.2 11n20



Date: 4.JUL.2018 10:11:36



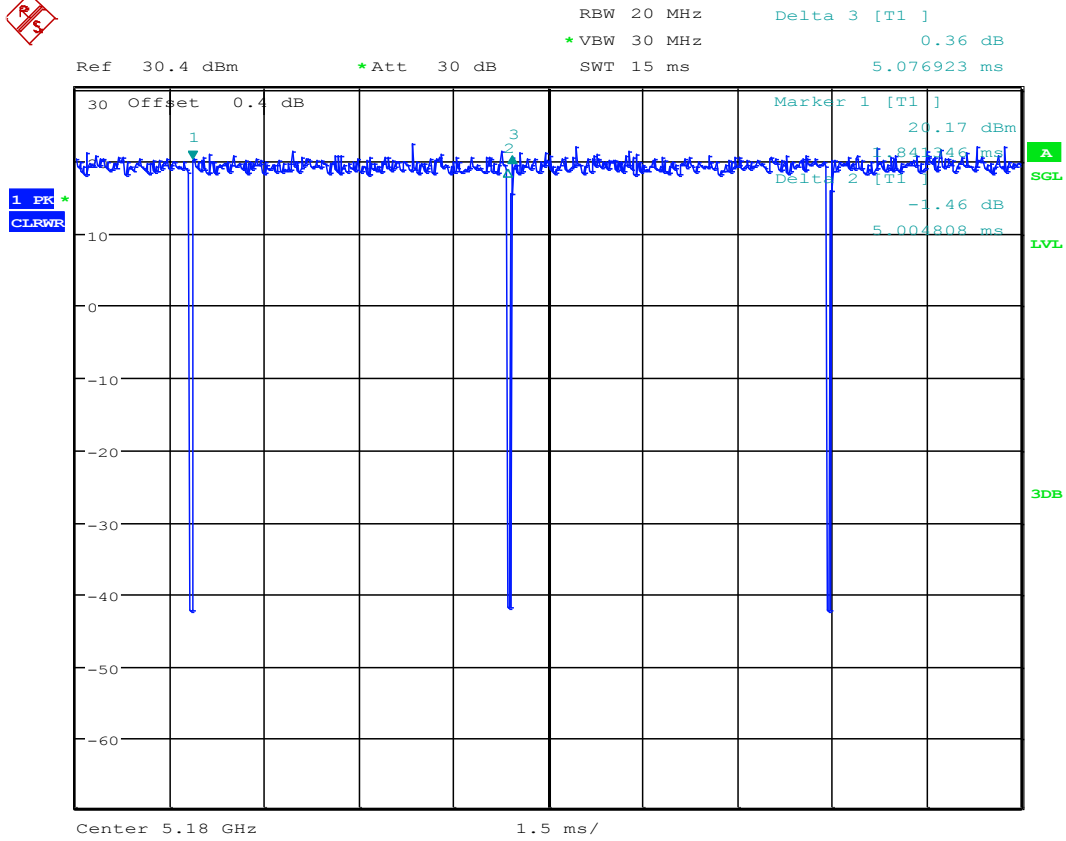
8.3 11n40



Date: 4.JUL.2018 10:08:07



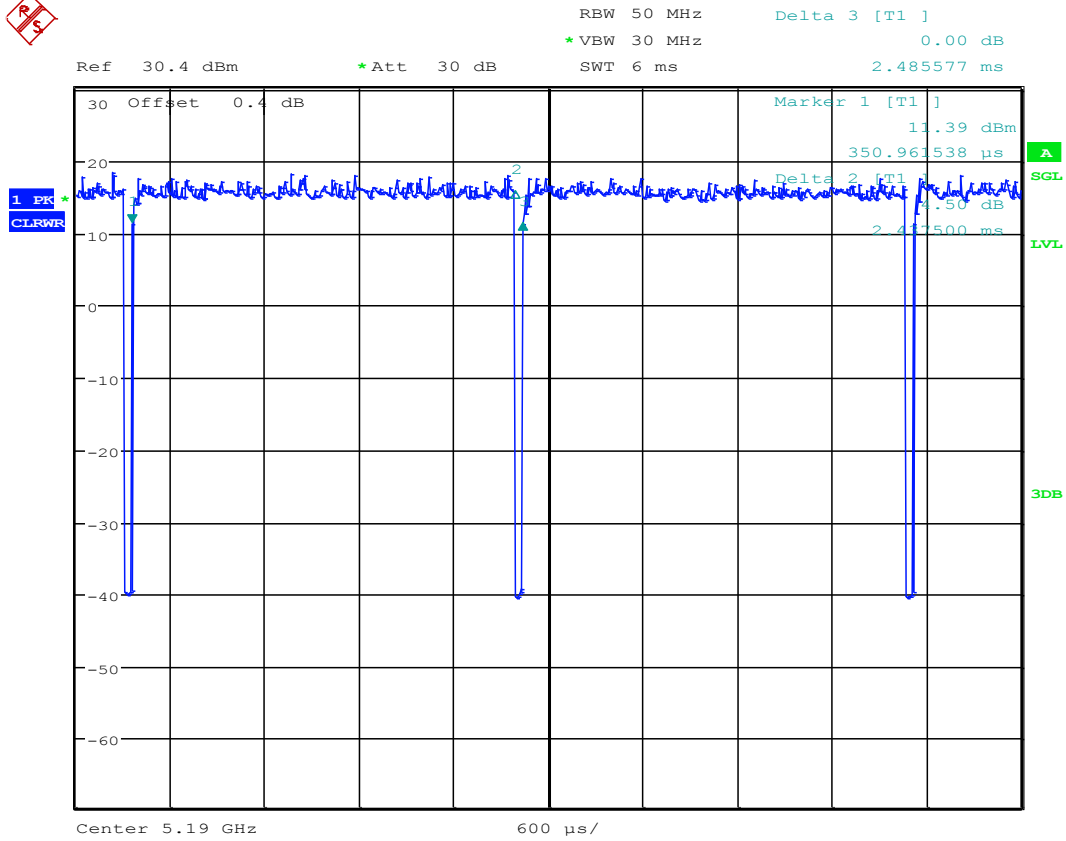
8.4 11ac20



Date: 4.JUL.2018 10:18:20



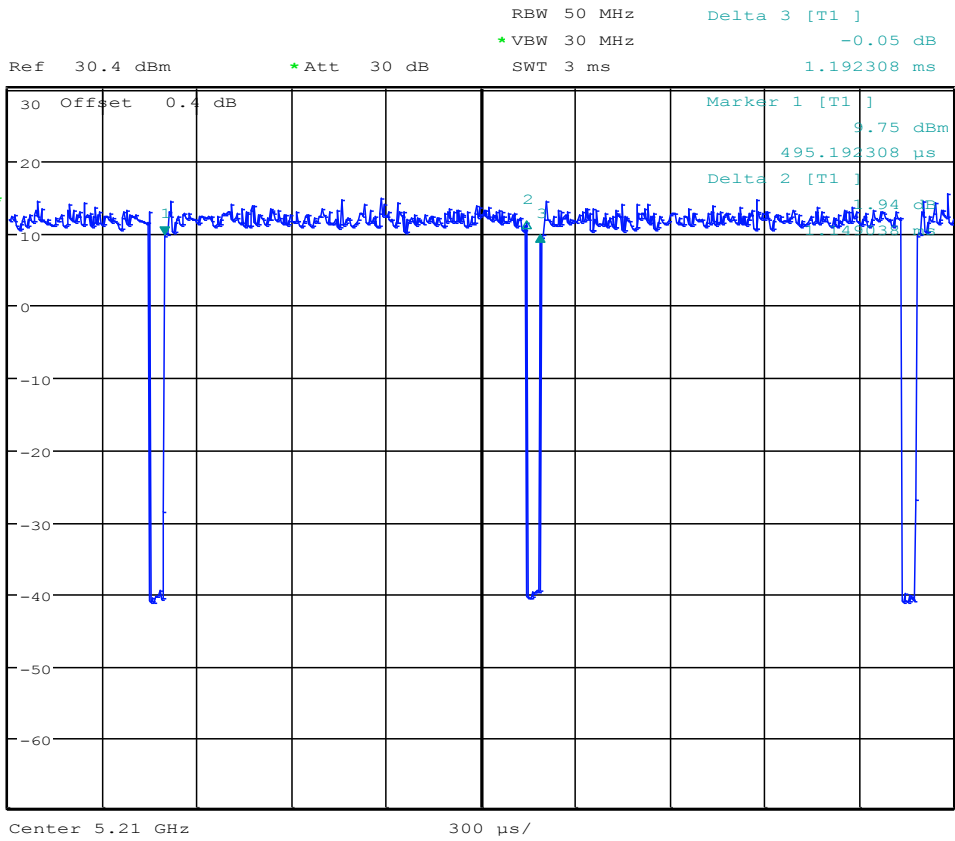
8.5 11ac40



Date: 4.JUL.2018 10:21:05



8.6 11ac80



Date: 4.JUL.2018 10:22:44



Appendix D: Maximum Conducted Output Power



9 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	EIRP [dBm]	Verdict
11A20	36	5180	ANT 1	15.86	15.05	PASS
	48	5240	ANT 1	15.78	14.97	PASS
	52	5260	ANT 1	15.39	14.58	PASS
	64	5320	ANT 1	15.20	14.39	PASS
	100	5500	ANT 1	15.31	14.50	PASS
	140	5700	ANT 1	14.98	14.17	PASS
	149	5745	ANT 1	15.33	14.52	PASS
	165	5825	ANT 1	14.49	13.68	PASS
11N20	36	5180	ANT 1	14.46	13.65	PASS
	48	5240	ANT 1	14.42	13.61	PASS
	52	5260	ANT 1	13.86	13.05	PASS
	64	5320	ANT 1	13.86	13.05	PASS
	100	5500	ANT 1	13.99	13.18	PASS
	140	5700	ANT 1	13.66	12.85	PASS
	149	5745	ANT 1	14.05	13.24	PASS
	165	5825	ANT 1	13.19	12.38	PASS
11N40	38	5190	ANT 1	13.62	12.81	PASS
	46	5230	ANT 1	13.59	12.78	PASS
	54	5270	ANT 1	13.17	12.36	PASS
	62	5310	ANT 1	13.04	12.23	PASS
	102	5510	ANT 1	13.06	12.25	PASS
	134	5670	ANT 1	12.92	12.11	PASS
	151	5755	ANT 1	13.09	12.28	PASS
	159	5795	ANT 1	12.66	11.85	PASS
11AC20	36	5180	ANT 1	14.36	13.55	PASS
	48	5240	ANT 1	14.32	13.51	PASS
	52	5260	ANT 1	13.94	13.13	PASS
	64	5320	ANT 1	13.76	12.95	PASS
	100	5500	ANT 1	13.90	13.09	PASS
	140	5700	ANT 1	13.57	12.76	PASS
	149	5745	ANT 1	13.96	13.15	PASS
	165	5825	ANT 1	13.09	12.28	PASS
11AC40	38	5190	ANT 1	13.50	12.69	PASS
	46	5230	ANT 1	13.47	12.66	PASS
	54	5270	ANT 1	13.06	12.25	PASS



	62	5310	ANT 1	12.94	12.13	PASS
	102	5510	ANT 1	12.97	12.16	PASS
	134	5670	ANT 1	12.82	12.01	PASS
	151	5755	ANT 1	13.00	12.19	PASS
	159	5795	ANT 1	12.58	11.77	PASS
11AC80	42	5210	ANT 1	13.23	12.42	PASS
	58	5290	ANT 1	12.62	11.81	PASS
	106	5530	ANT 1	12.07	11.26	PASS
	122	5610	ANT 1	12.15	11.34	PASS
	155	5775	ANT 1	12.42	11.61	PASS



Appendix E: Peak Power Spectral Density Level



10 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	EIRP [dBm]	Verdict
11A20	36	5180	ANT 1	5.07	4.26	PASS
	48	5240	ANT 1	4.67	3.86	PASS
	52	5260	ANT 1	3.97	3.16	PASS
	64	5320	ANT 1	3.98	3.17	PASS
	100	5500	ANT 1	4.33	3.52	PASS
	140	5700	ANT 1	4.10	3.29	PASS
	149	5745	ANT 1	2.38	1.57	PASS
	165	5825	ANT 1	1.30	0.49	PASS
11N20	36	5180	ANT 1	3.07	2.26	PASS
	48	5240	ANT 1	2.77	1.96	PASS
	52	5260	ANT 1	2.47	1.66	PASS
	64	5320	ANT 1	2.50	1.69	PASS
	100	5500	ANT 1	2.78	1.97	PASS
	140	5700	ANT 1	2.78	1.97	PASS
	149	5745	ANT 1	1.18	0.37	PASS
	165	5825	ANT 1	-0.11	-0.92	PASS
11N40	38	5190	ANT 1	-0.44	-1.25	PASS
	46	5230	ANT 1	-0.46	-1.27	PASS
	54	5270	ANT 1	-1.30	-2.11	PASS
	62	5310	ANT 1	-1.17	-1.98	PASS
	102	5510	ANT 1	-0.88	-1.69	PASS
	134	5670	ANT 1	-0.88	-1.69	PASS
	151	5755	ANT 1	-2.25	-3.06	PASS
	159	5795	ANT 1	-3.09	-3.9	PASS
11AC20	36	5180	ANT 1	3.13	2.32	PASS
	48	5240	ANT 1	2.83	2.02	PASS
	52	5260	ANT 1	2.53	1.72	PASS
	64	5320	ANT 1	2.46	1.65	PASS
	100	5500	ANT 1	3.03	2.22	PASS
	140	5700	ANT 1	2.57	1.76	PASS
	149	5745	ANT 1	0.82	0.01	PASS
	165	5825	ANT 1	-0.40	-1.21	PASS
11AC40	38	5190	ANT 1	-0.49	-1.30	PASS
	46	5230	ANT 1	-0.52	-1.33	PASS
	54	5270	ANT 1	-1.34	-2.15	PASS

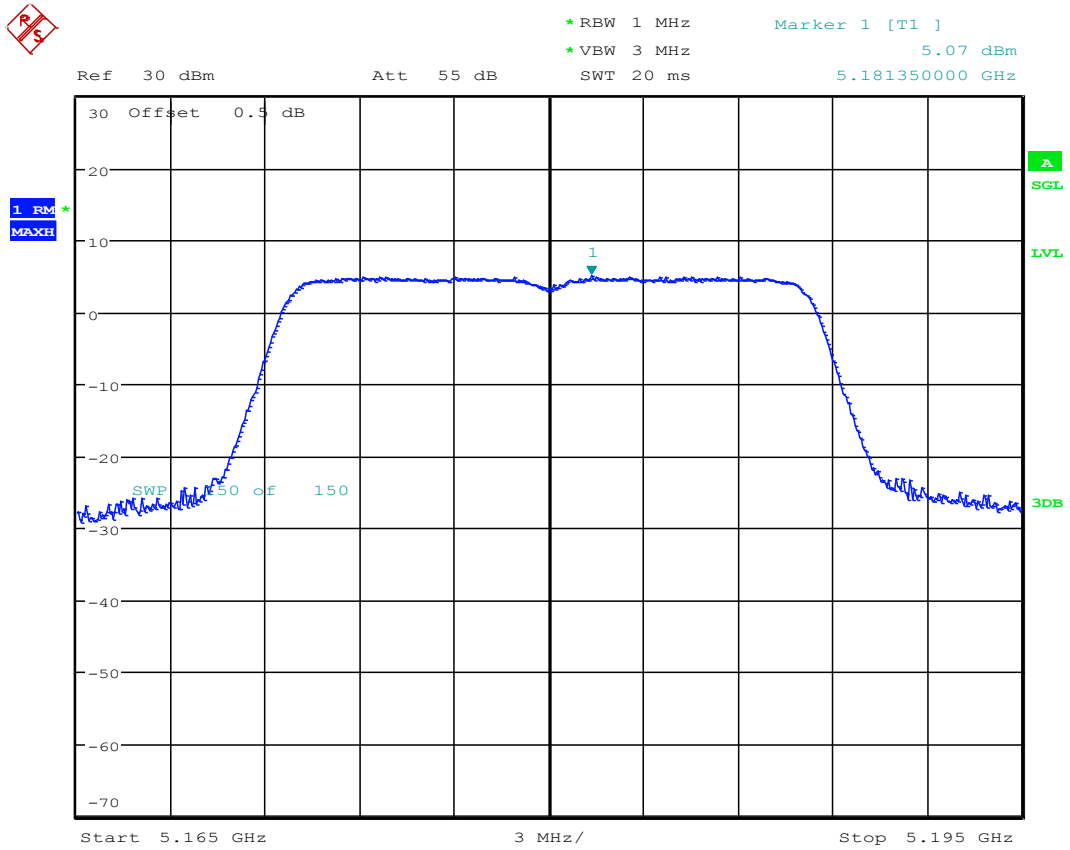


	62	5310	ANT 1	-1.32	-2.13	PASS
	102	5510	ANT 1	-0.96	-1.77	PASS
	134	5670	ANT 1	-1.00	-1.81	PASS
	151	5755	ANT 1	-2.87	-3.68	PASS
	159	5795	ANT 1	-3.48	-4.29	PASS
11AC80	42	5210	ANT 1	-3.48	-4.29	PASS
	58	5290	ANT 1	-4.57	-5.38	PASS
	106	5530	ANT 1	-4.30	-5.11	PASS
	122	5610	ANT 1	-4.88	-5.69	PASS
	155	5775	ANT 1	-6.08	-6.89	PASS



11 Test Plot

11.1 11A20_36 ANT 1



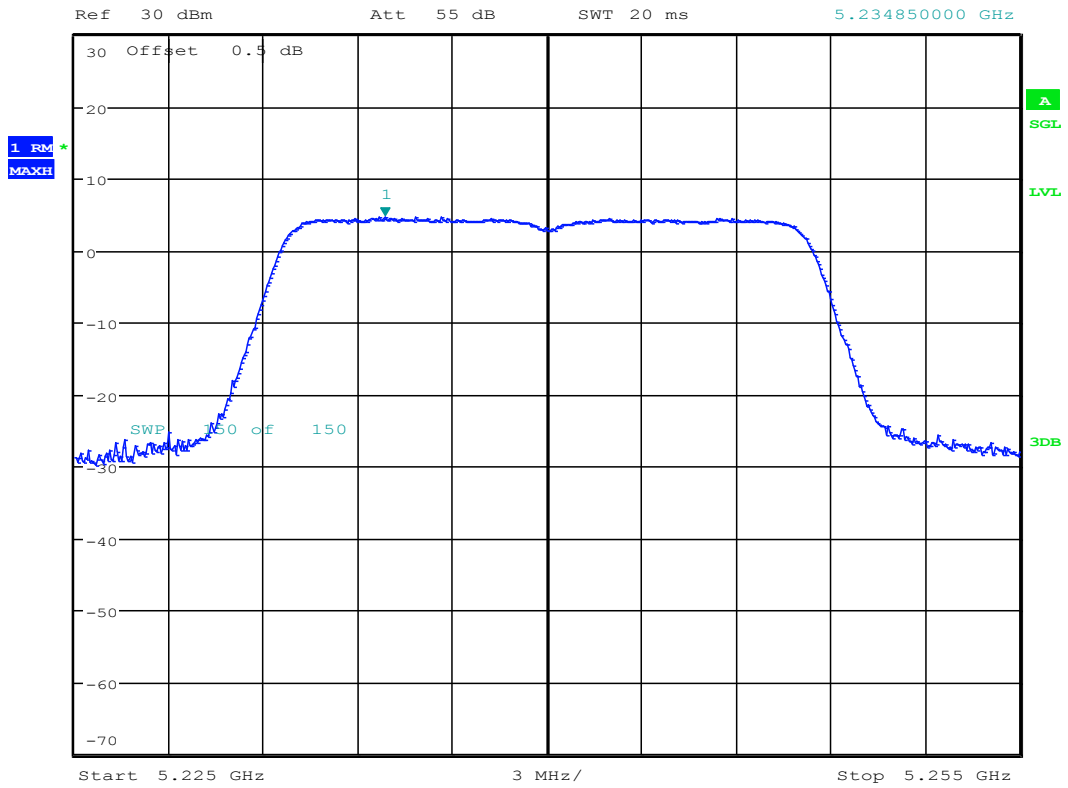
Date: 4.JUL.2018 10:50:51



11.2 11A20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.67 dBm
SWT 20 ms 5.234850000 GHz



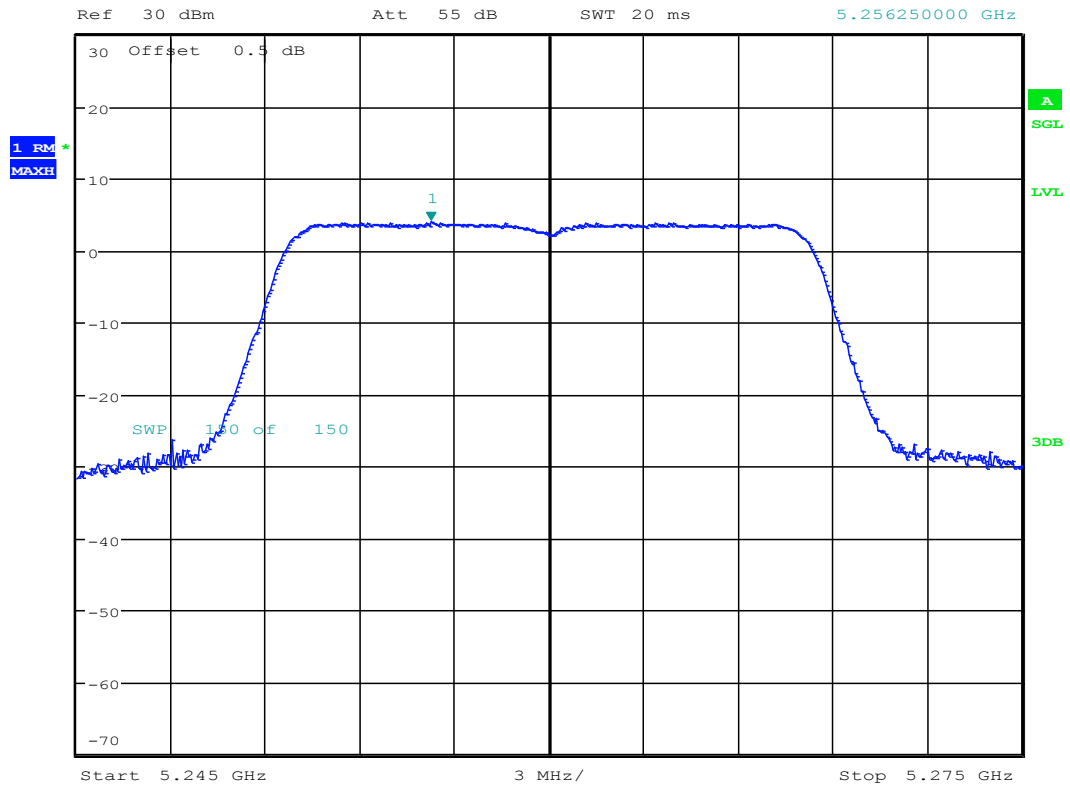
Date: 4.JUL.2018 10:54:59



11.3 11A20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.97 dBm
SWT 20 ms 5.256250000 GHz



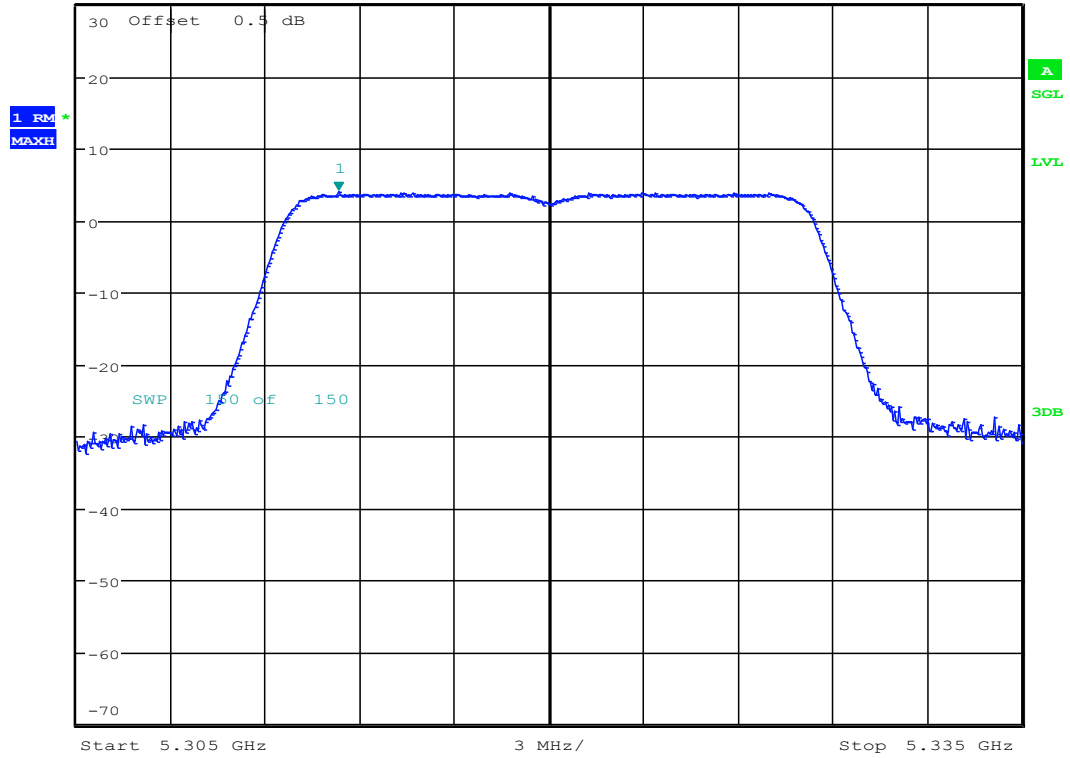
Date: 4.JUL.2018 10:59:05



11.4 11A20_64 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.98 dBm
Ref 30 dBm Att 55 dB SWT 20 ms 5.313300000 GHz



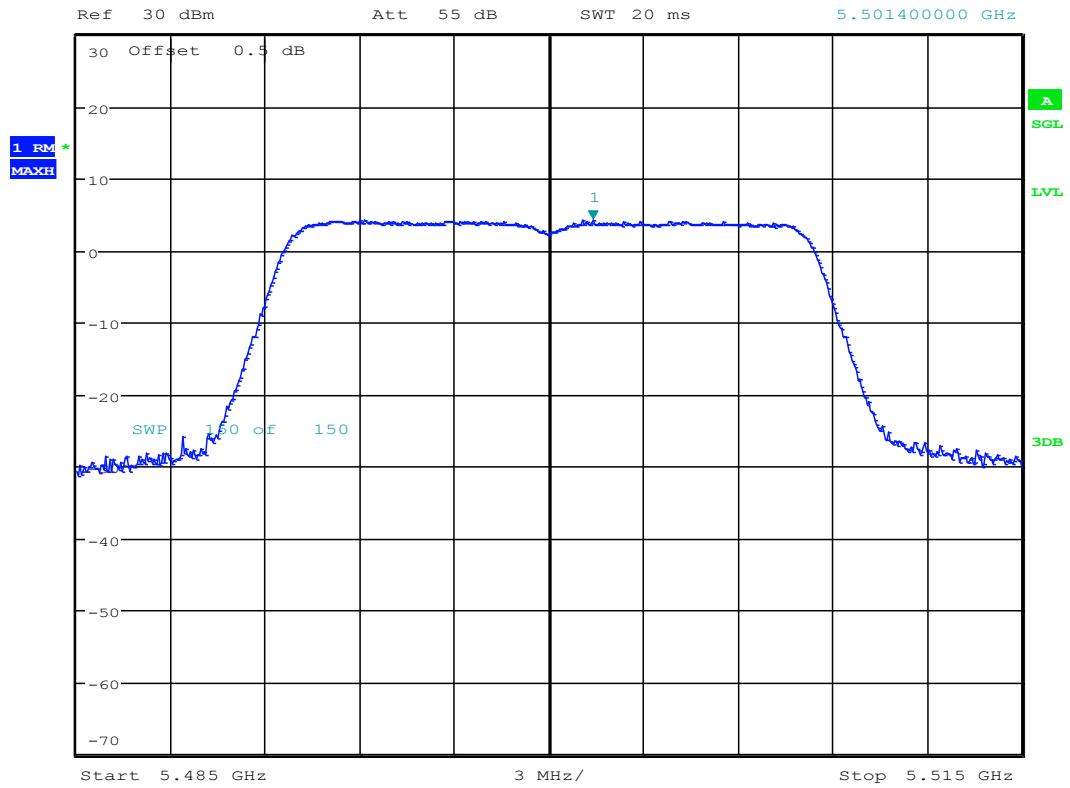
Date: 4.JUL.2018 11:04:20



11.5 11A20_100 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.33 dBm
SWT 20 ms 5.501400000 GHz



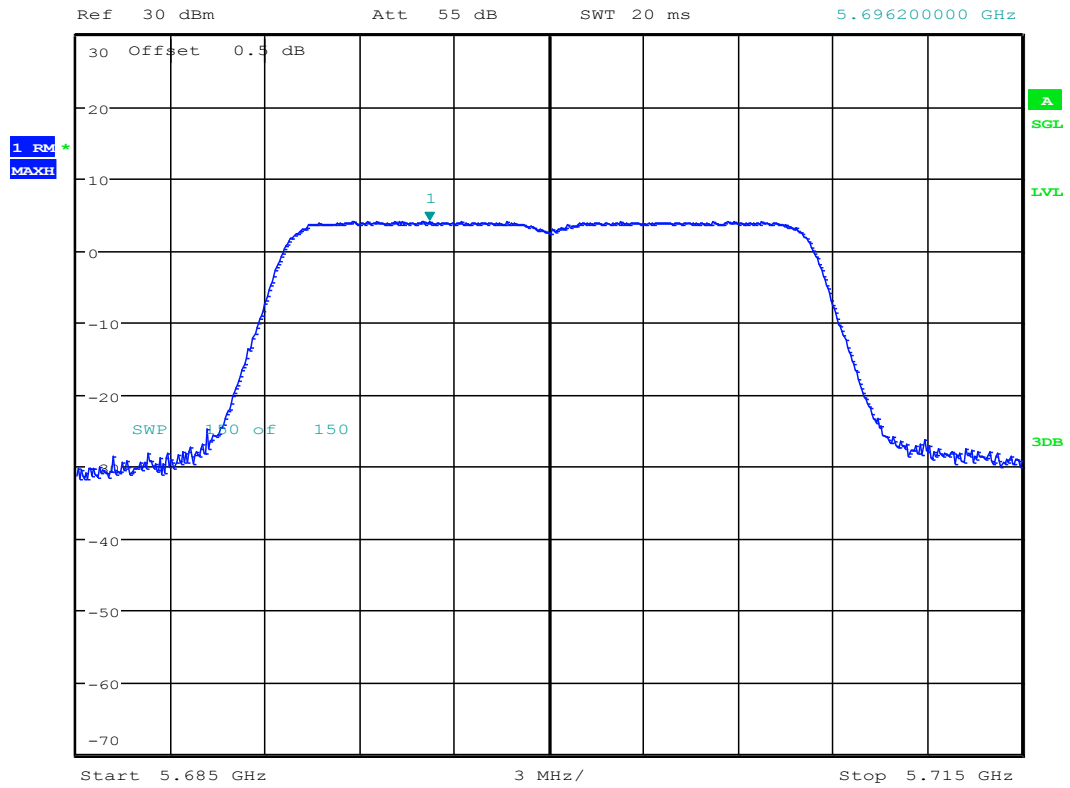
Date: 4.JUL.2018 11:12:37



11.6 11A20_140 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.10 dBm
SWT 20 ms 5.696200000 GHz



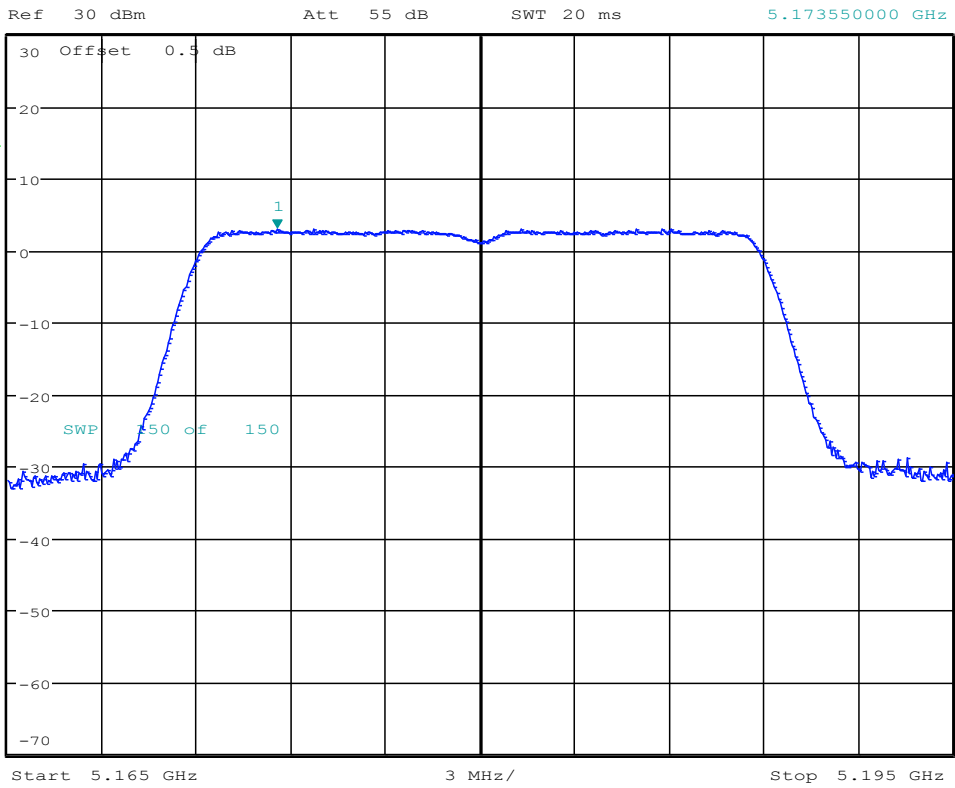
Date: 4.JUL.2018 11:17:40



11.9 11N20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.07 dBm
SWT 20 ms 5.173550000 GHz



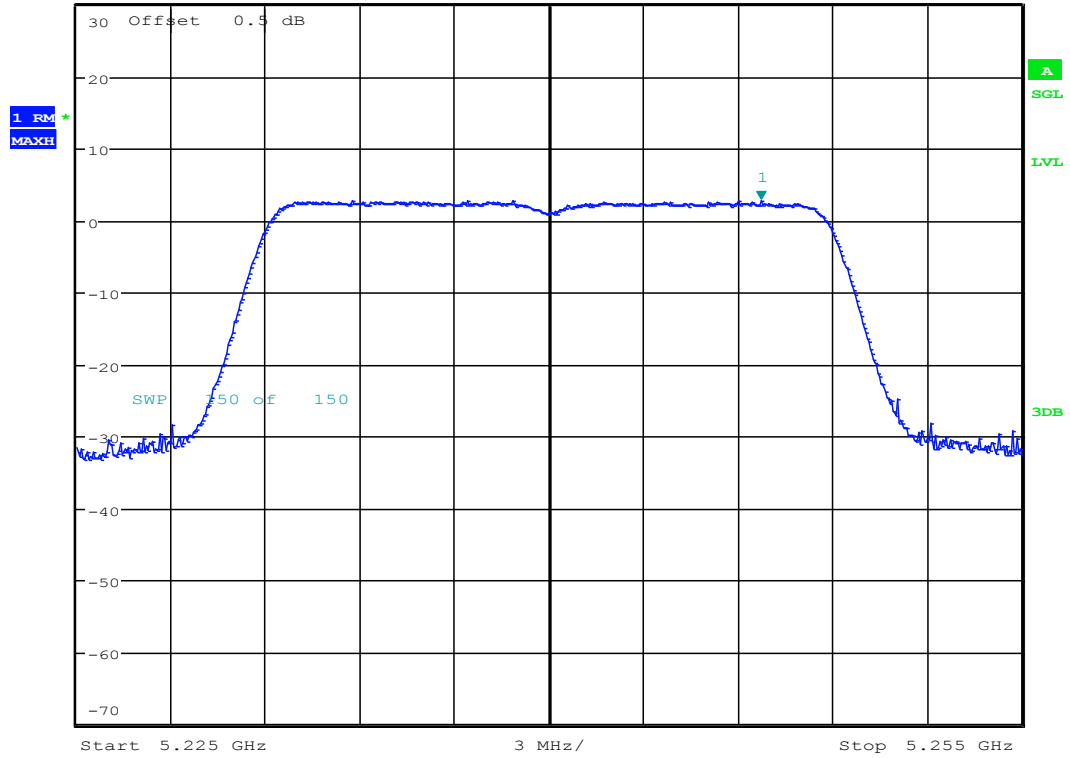
Date: 4.JUL.2018 11:58:49



11.10 11N20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 2.77 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.246750000 GHz



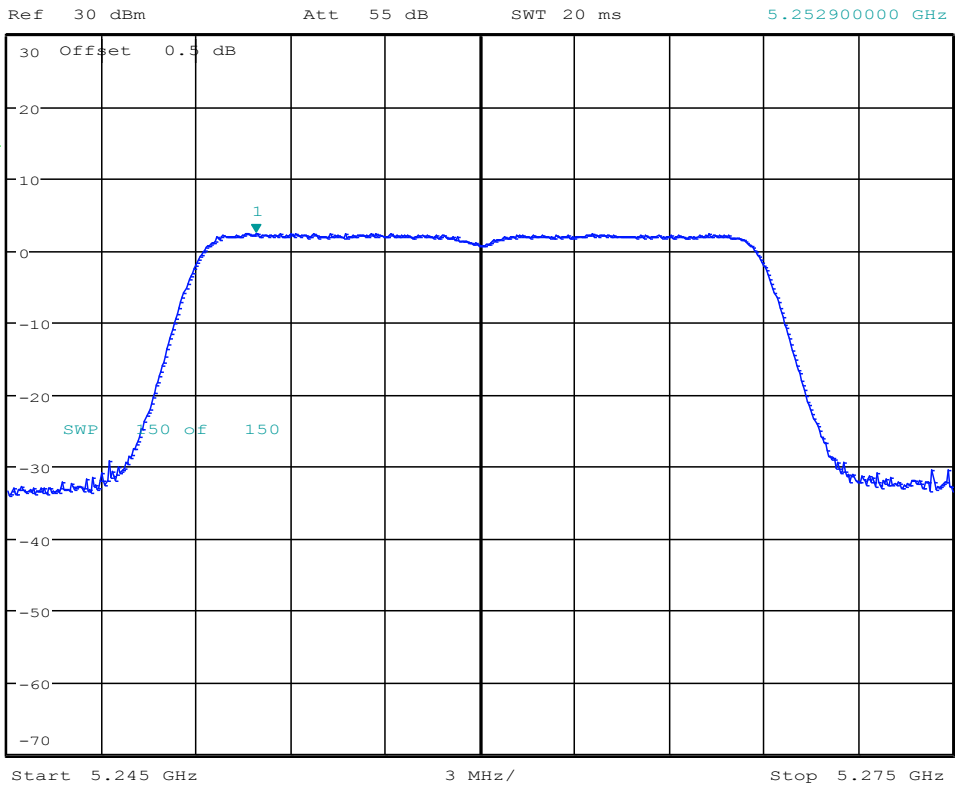
Date: 4.JUL.2018 12:03:40



11.11 11N20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.47 dBm
SWT 20 ms 5.252900000 GHz



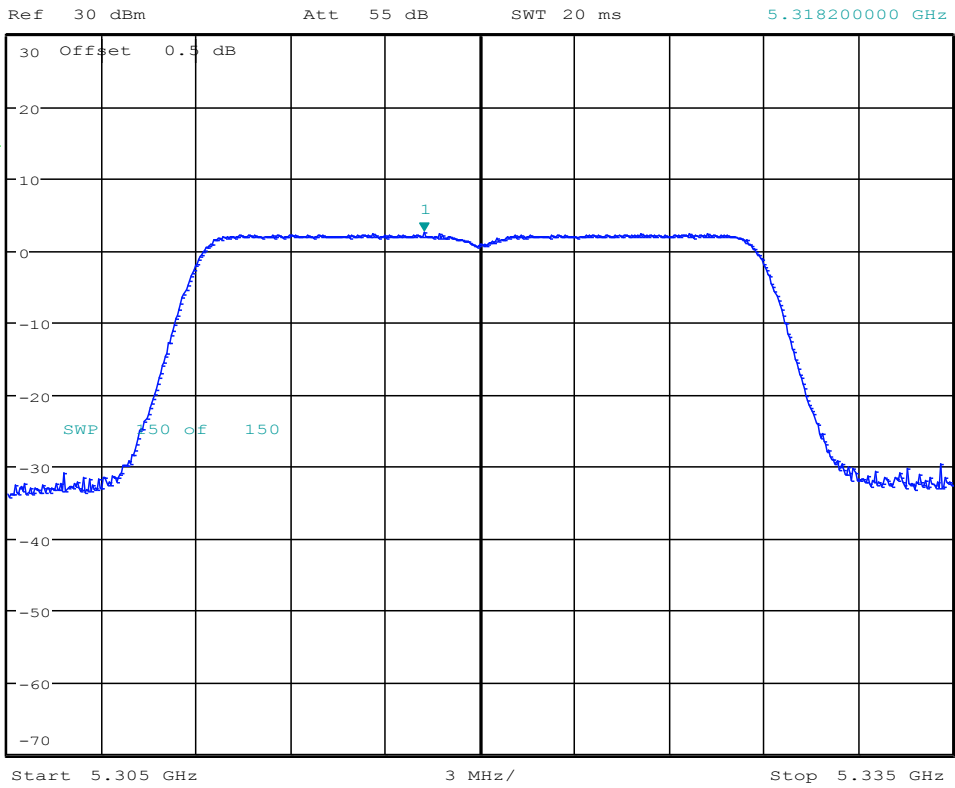
Date: 4.JUL.2018 13:44:50



11.12 11N20_64 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.50 dBm
SWT 20 ms 5.31820000 GHz



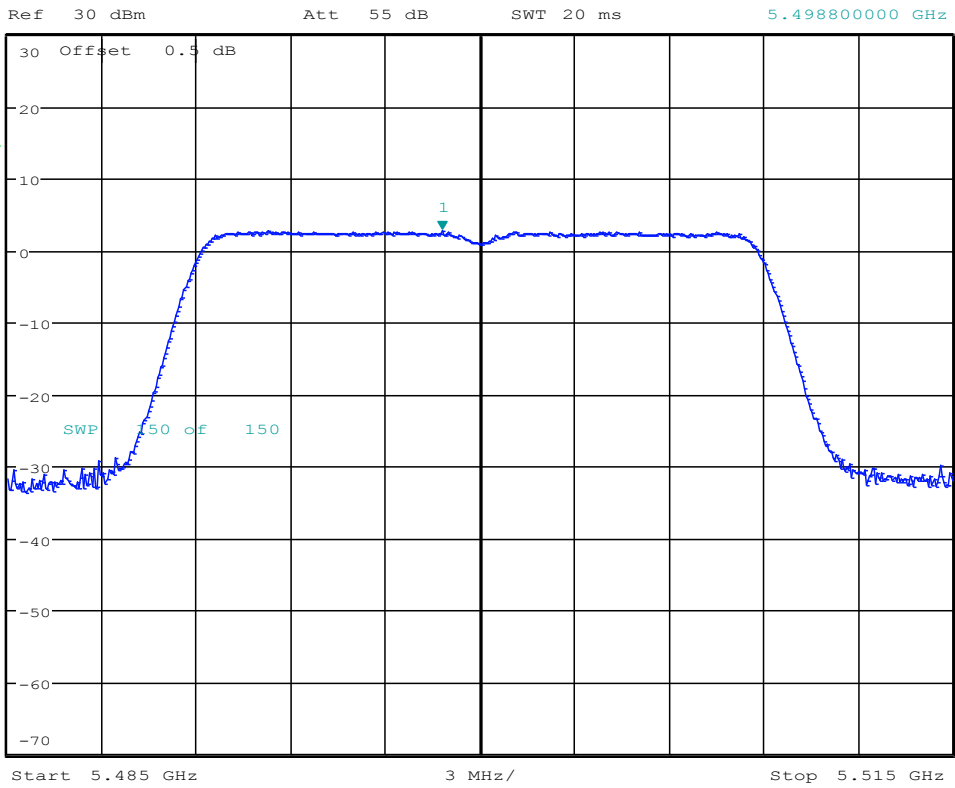
Date: 4.JUL.2018 13:50:06



11.13 11N20_100 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.78 dBm
SWT 20 ms 5.498800000 GHz



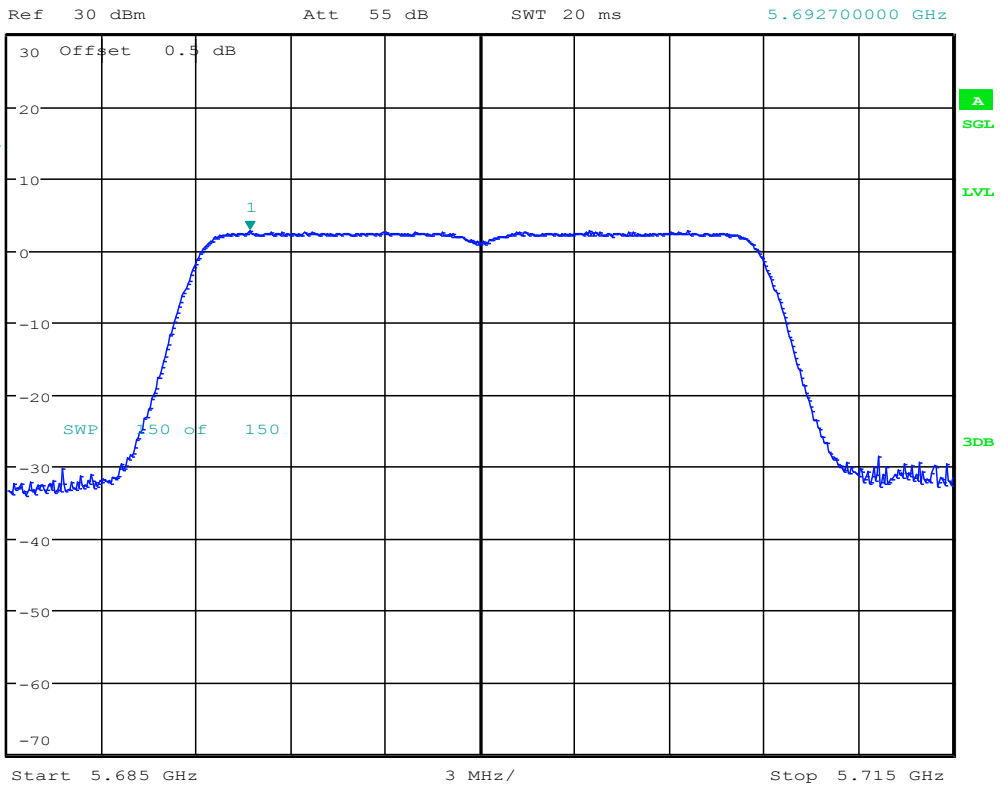
Date: 4.JUL.2018 13:57:47



11.14 11N20_140 ANT 1



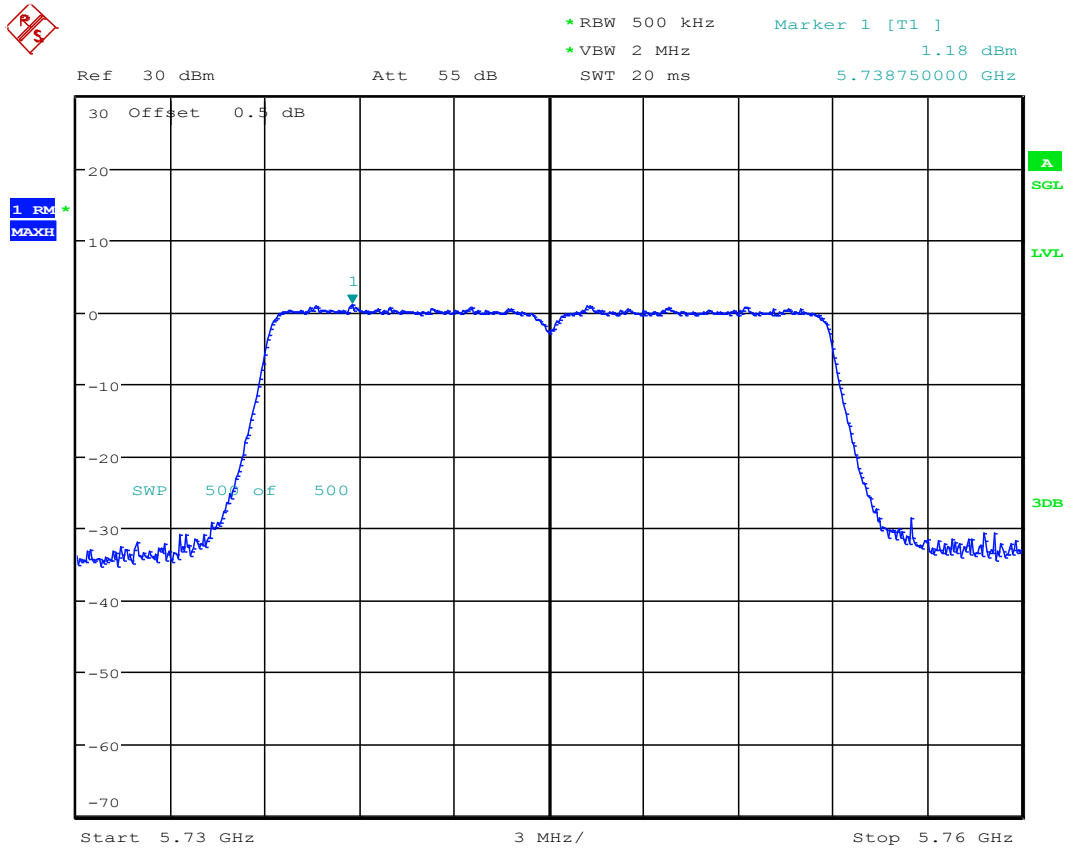
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.78 dBm
SWT 20 ms 5.692700000 GHz



Date: 4.JUL.2018 14:06:14



11.15 11N20_149 ANT 1



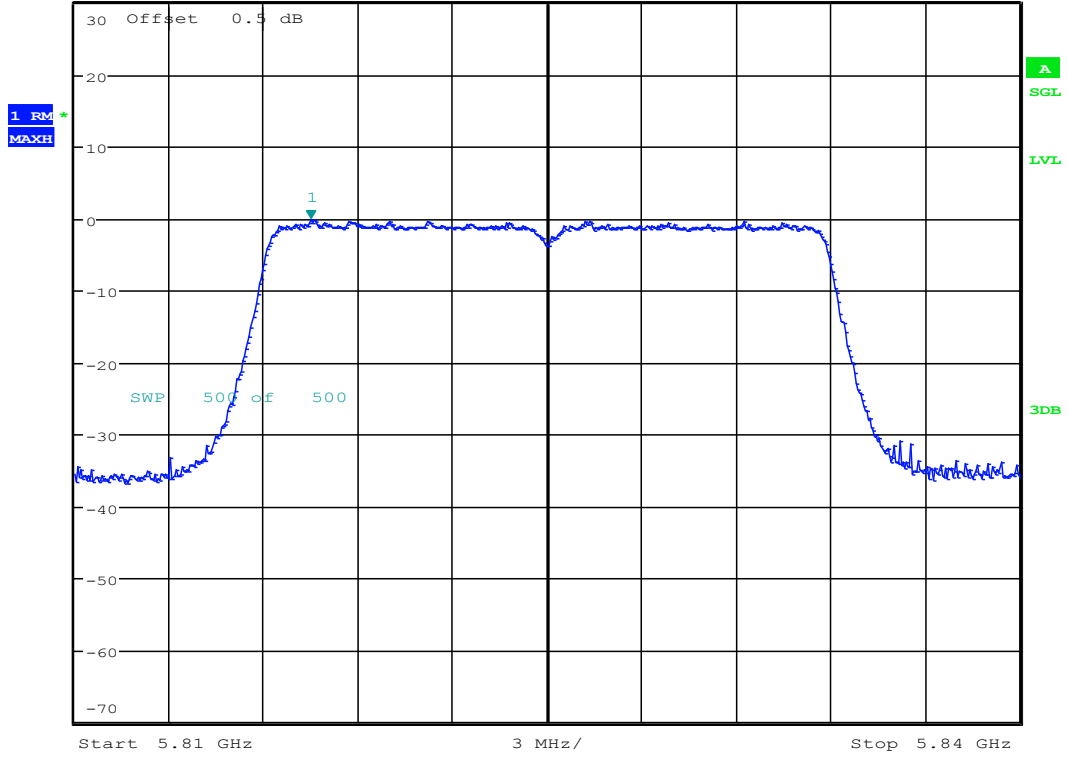
Date: 4.JUL.2018 14:15:20



11.16 11N20_165 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz -0.11 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.817500000 GHz



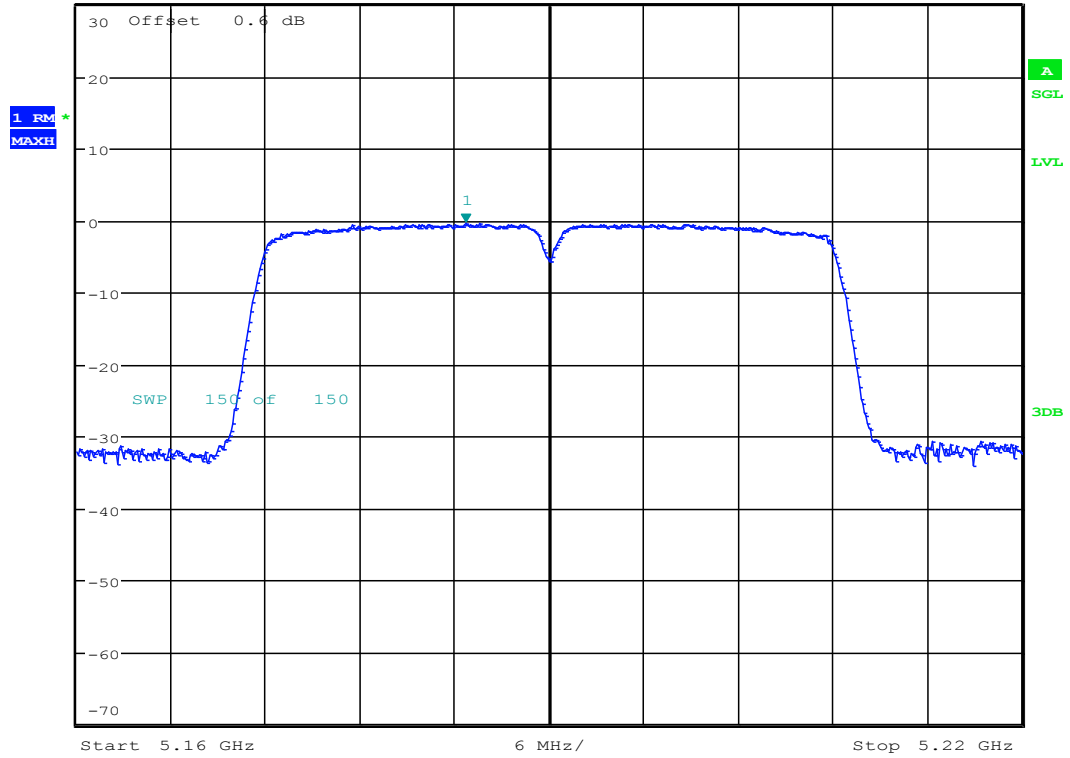
Date: 4.JUL.2018 14:19:15



11.17 11N40_38 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -0.44 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.184700000 GHz



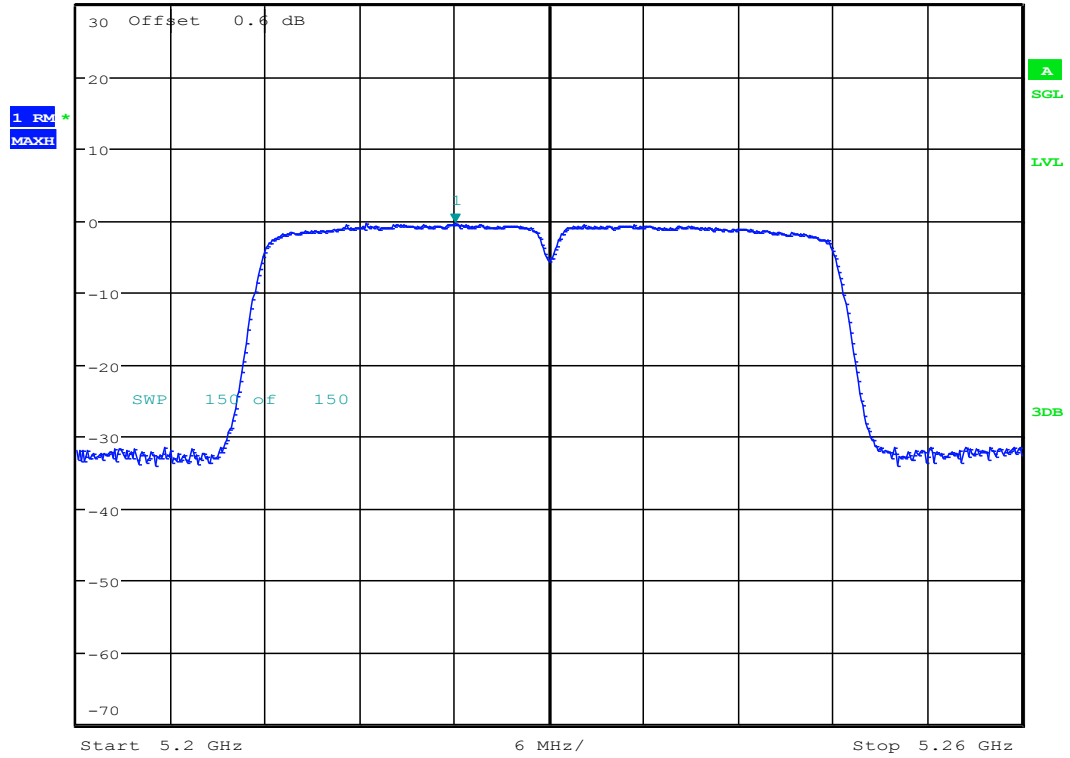
Date: 4.JUL.2018 14:22:38



11.18 11N40_46 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -0.46 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.224000000 GHz



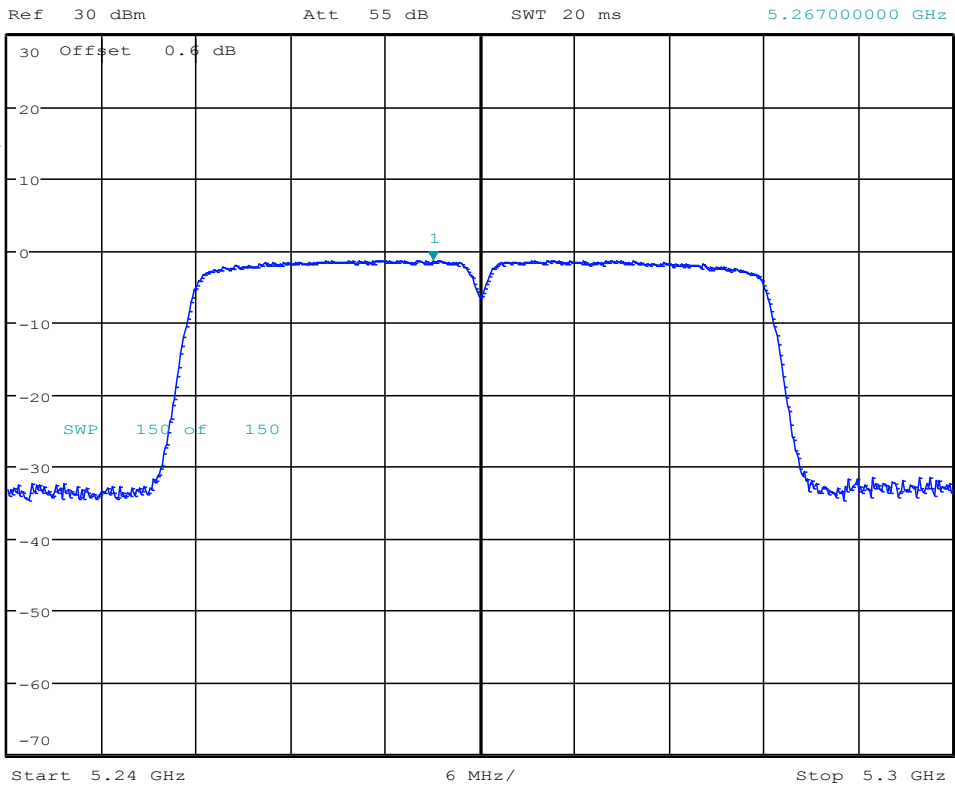
Date: 4.JUL.2018 14:30:24



11.19 11N40_54 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -1.30 dBm
SWT 20 ms 5.267000000 GHz



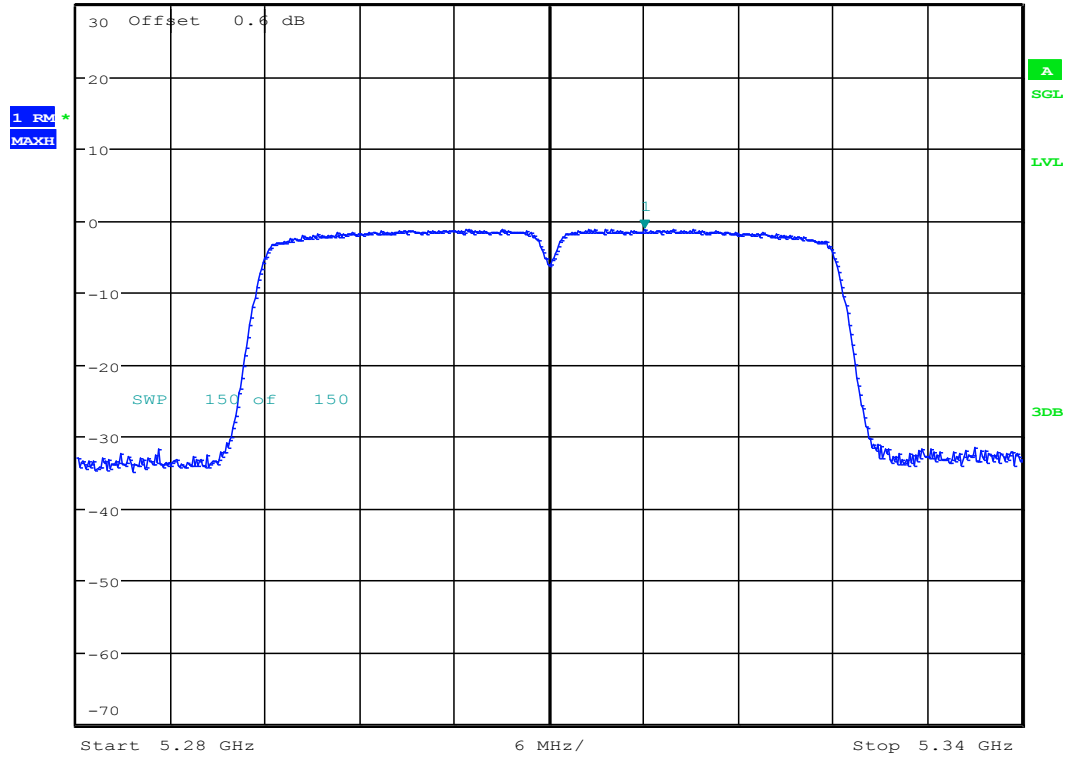
Date: 4.JUL.2018 14:35:32



11.20 11N40_62 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -1.17 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.316100000 GHz



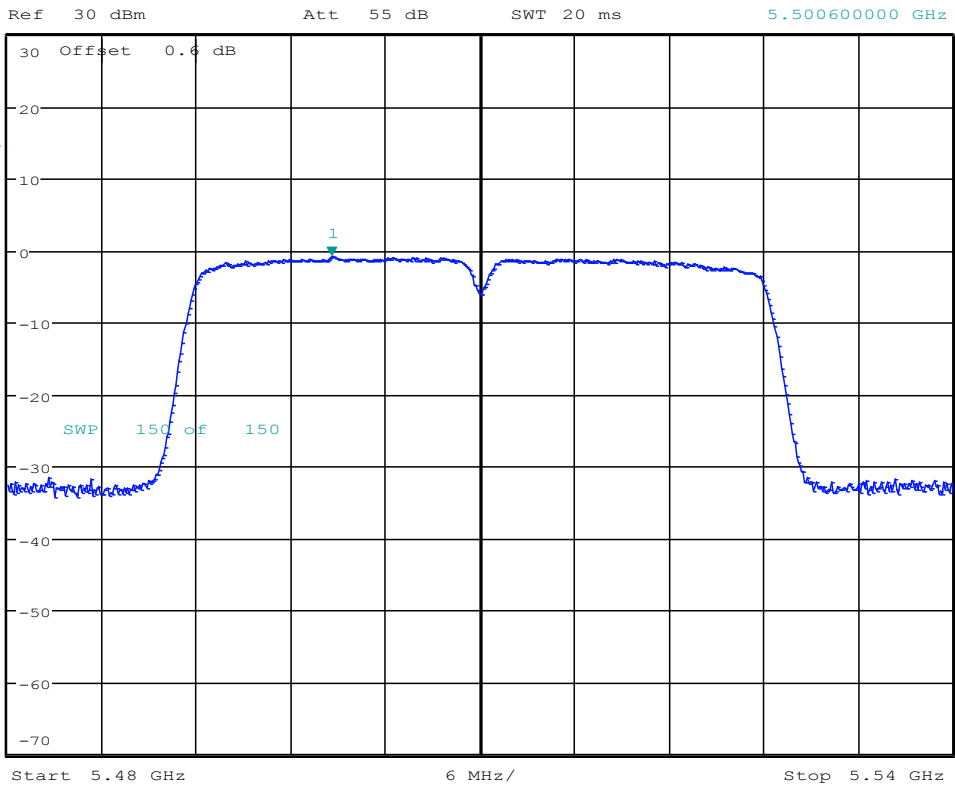
Date: 4.JUL.2018 14:41:07



11.21 11N40_102 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -0.88 dBm
SWT 20 ms 5.500600000 GHz



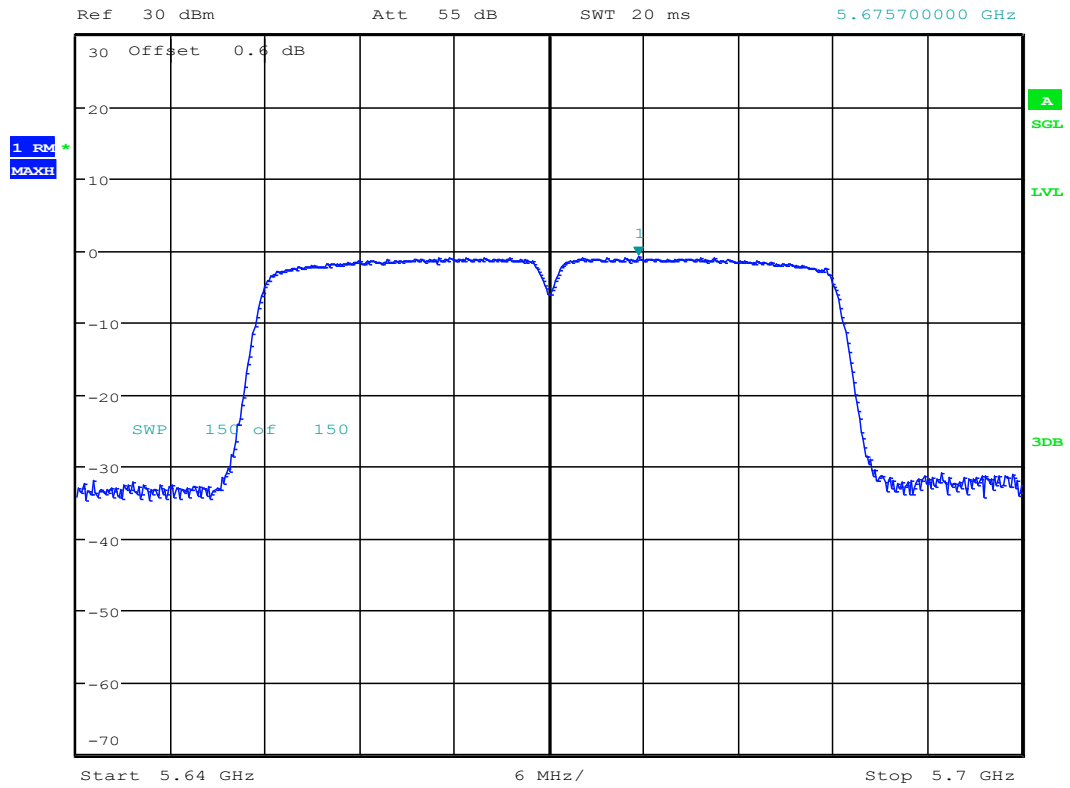
Date: 4.JUL.2018 14:47:35



11.22 11N40_134 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -0.88 dBm
SWT 20 ms 5.675700000 GHz



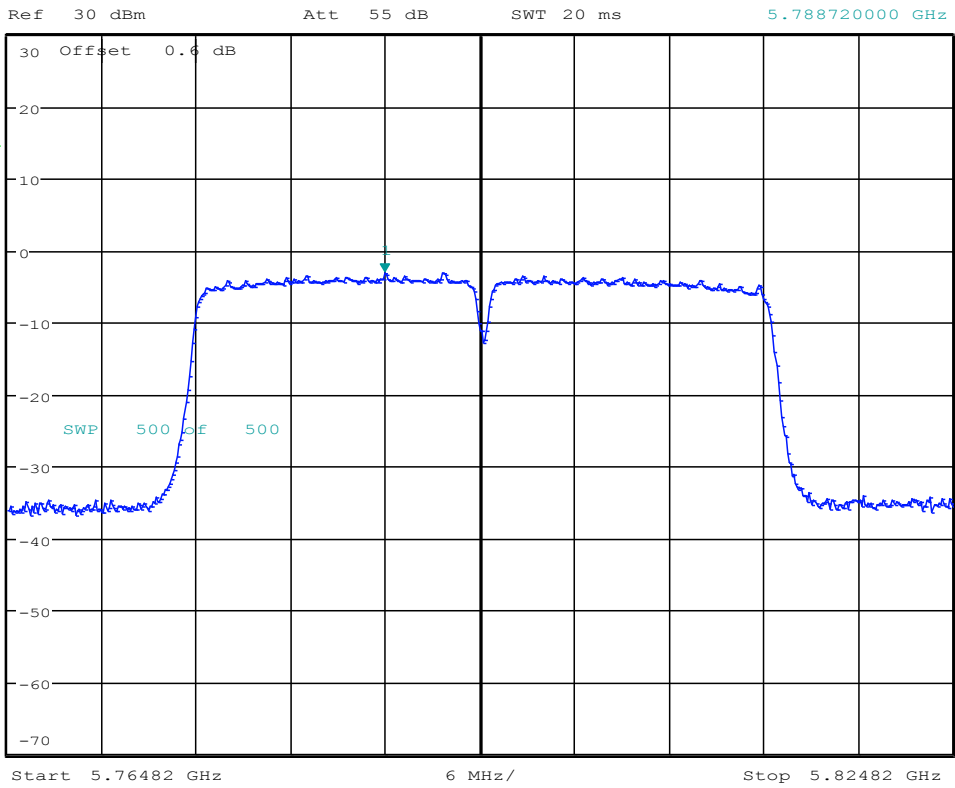
Date: 4.JUL.2018 14:50:36



11.24 11N40_159 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz -3.09 dBm
 SWT 20 ms 5.788720000 GHz



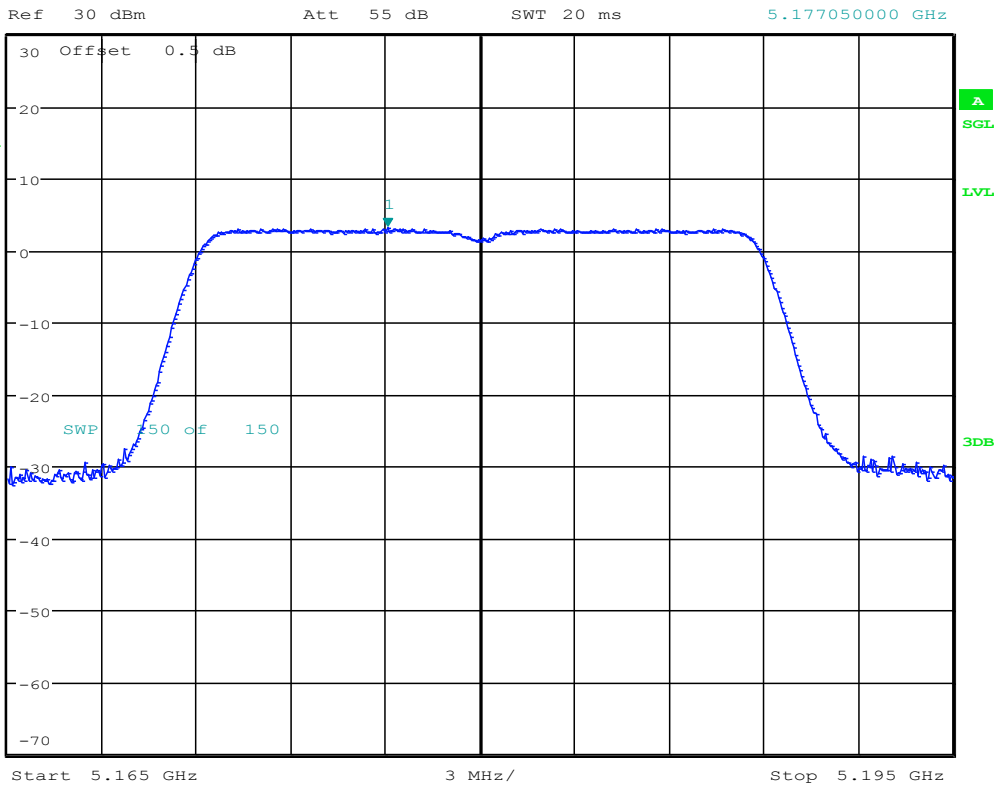
Date: 4.JUL.2018 15:03:18



11.25 11AC20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.13 dBm
SWT 20 ms 5.177050000 GHz



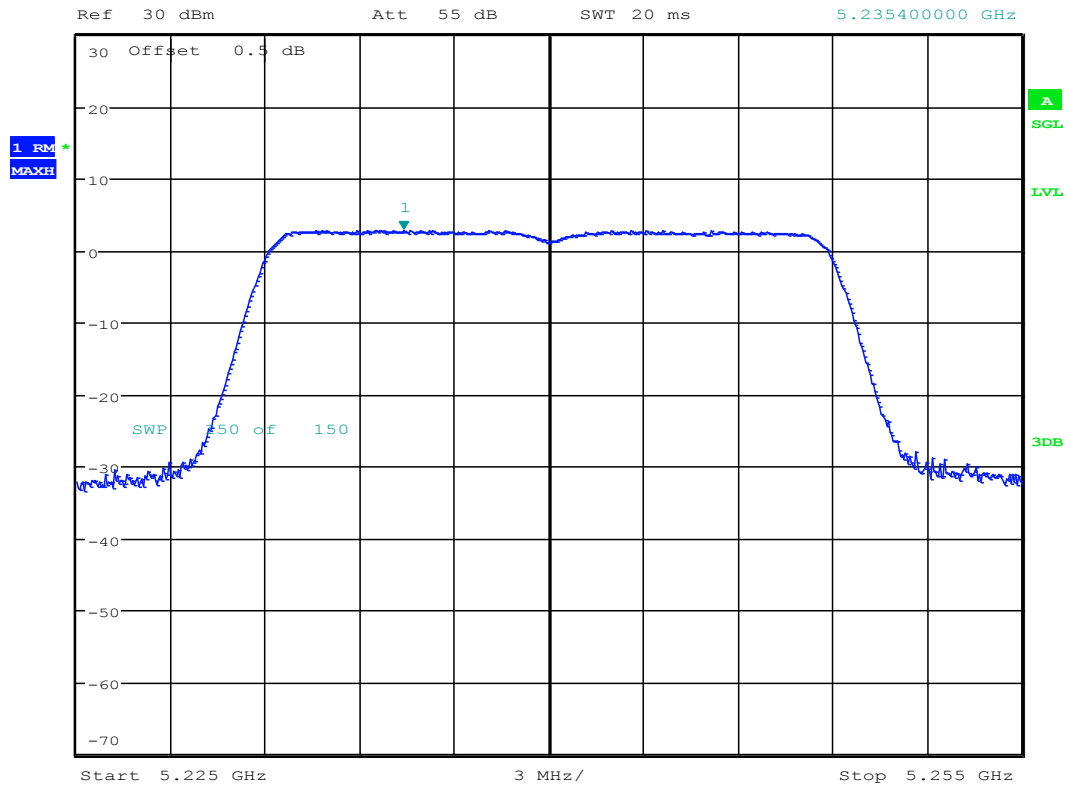
Date: 4.JUL.2018 15:07:38



11.26 11AC20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.83 dBm
SWT 20 ms 5.235400000 GHz



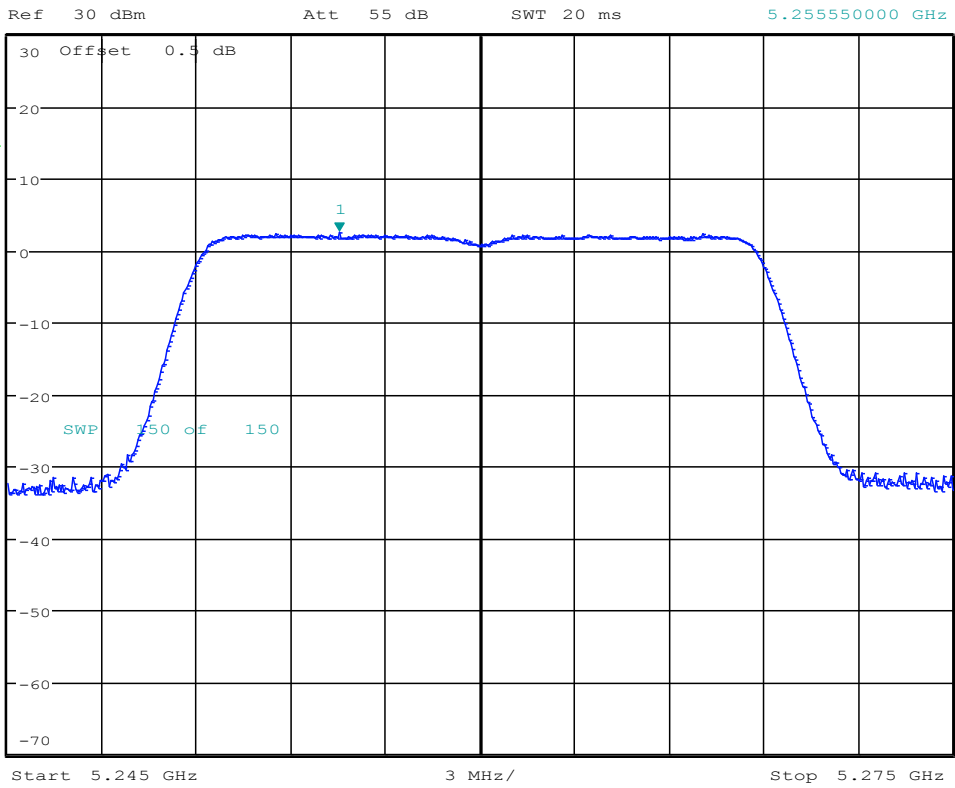
Date: 4.JUL.2018 15:12:35



11.27 11AC20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.53 dBm
SWT 20 ms 5.255550000 GHz



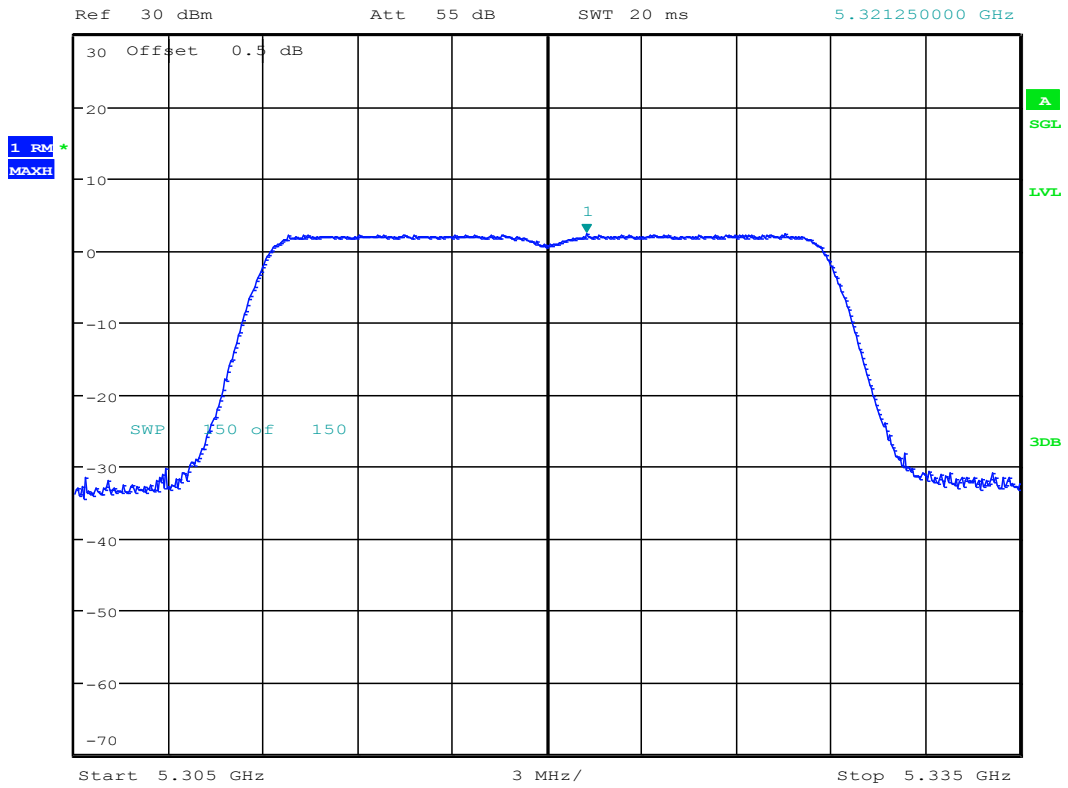
Date: 4.JUL.2018 15:16:06



11.28 11AC20_64 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.46 dBm
SWT 20 ms 5.321250000 GHz



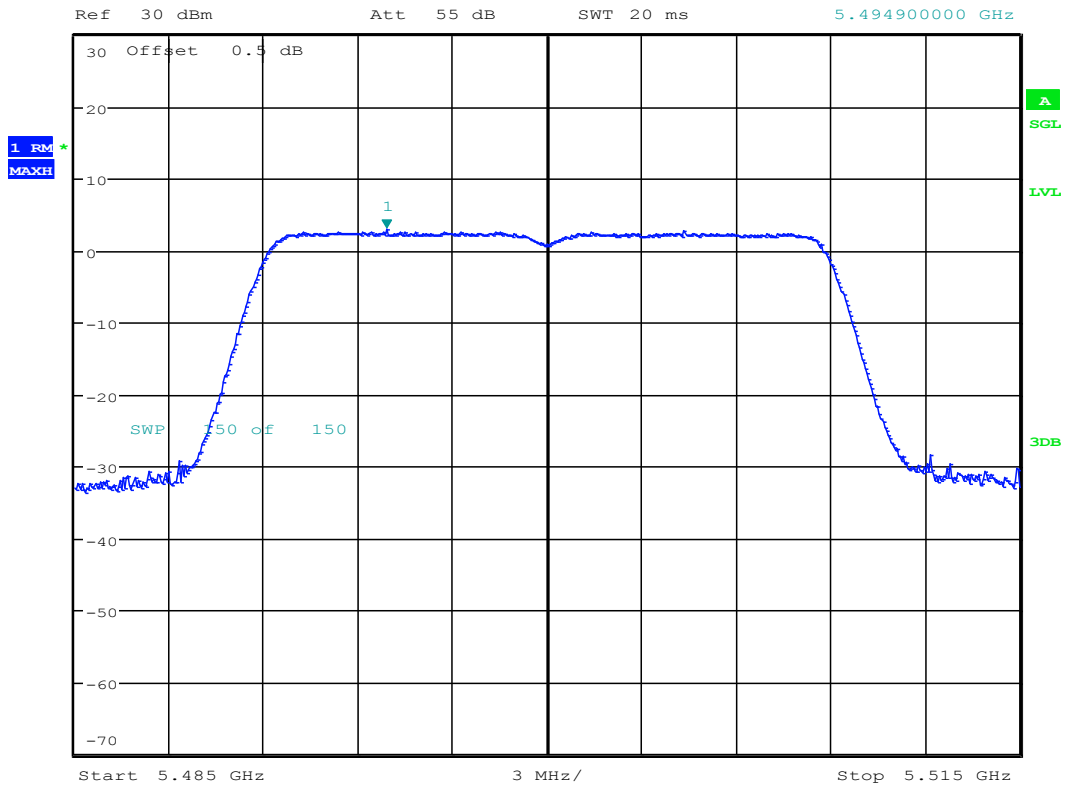
Date: 4.JUL.2018 15:18:28



11.29 11AC20_100 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 3.03 dBm
SWT 20 ms 5.494900000 GHz



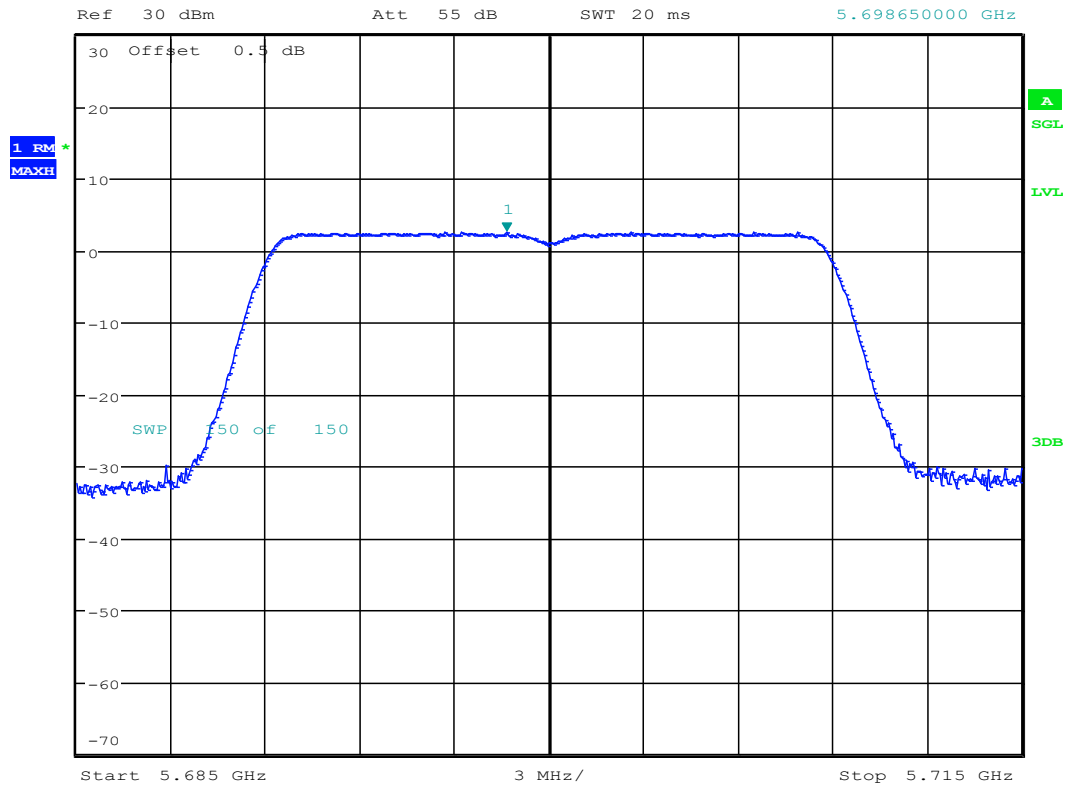
Date: 4.JUL.2018 15:21:37



11.30 11AC20_140 ANT 1



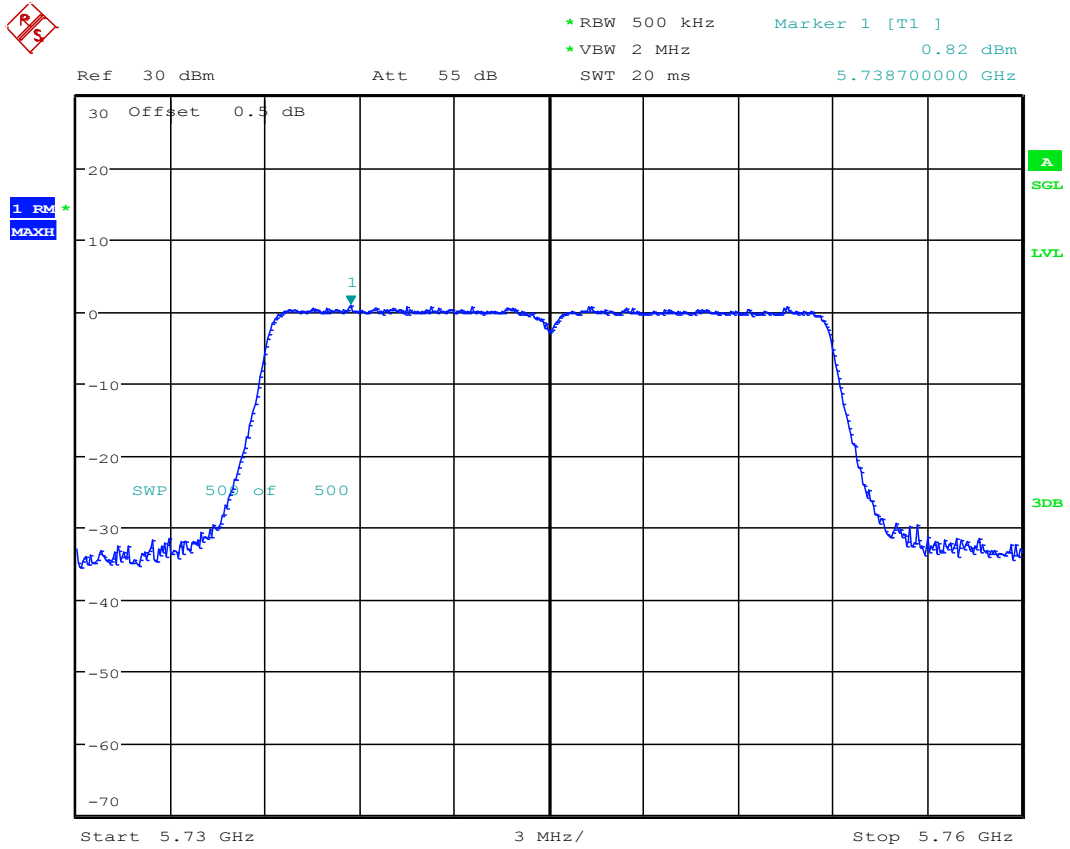
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.57 dBm
SWT 20 ms 5.698650000 GHz



Date: 4.JUL.2018 15:24:55



11.31 11AC20_149 ANT 1



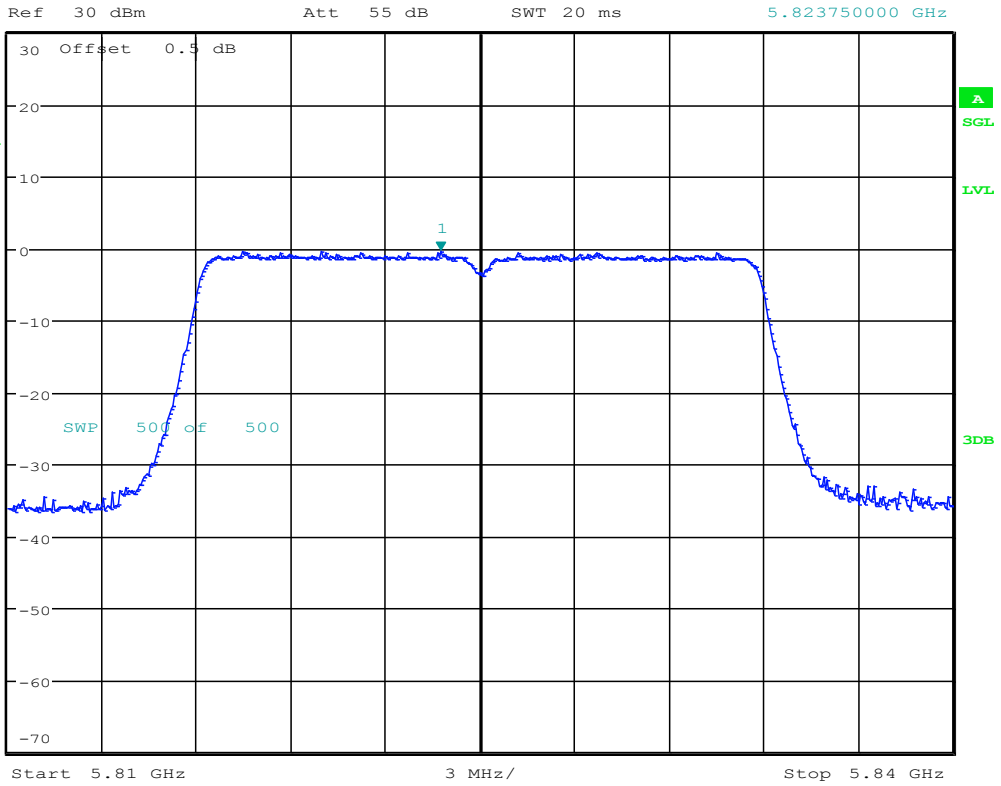
Date: 4.JUL.2018 15:31:20



11.32 11AC20_165 ANT 1



*RBW 500 kHz Marker 1 [T1]
*VBW 2 MHz -0.40 dBm
SWT 20 ms 5.823750000 GHz



Date: 4.JUL.2018 15:36:02

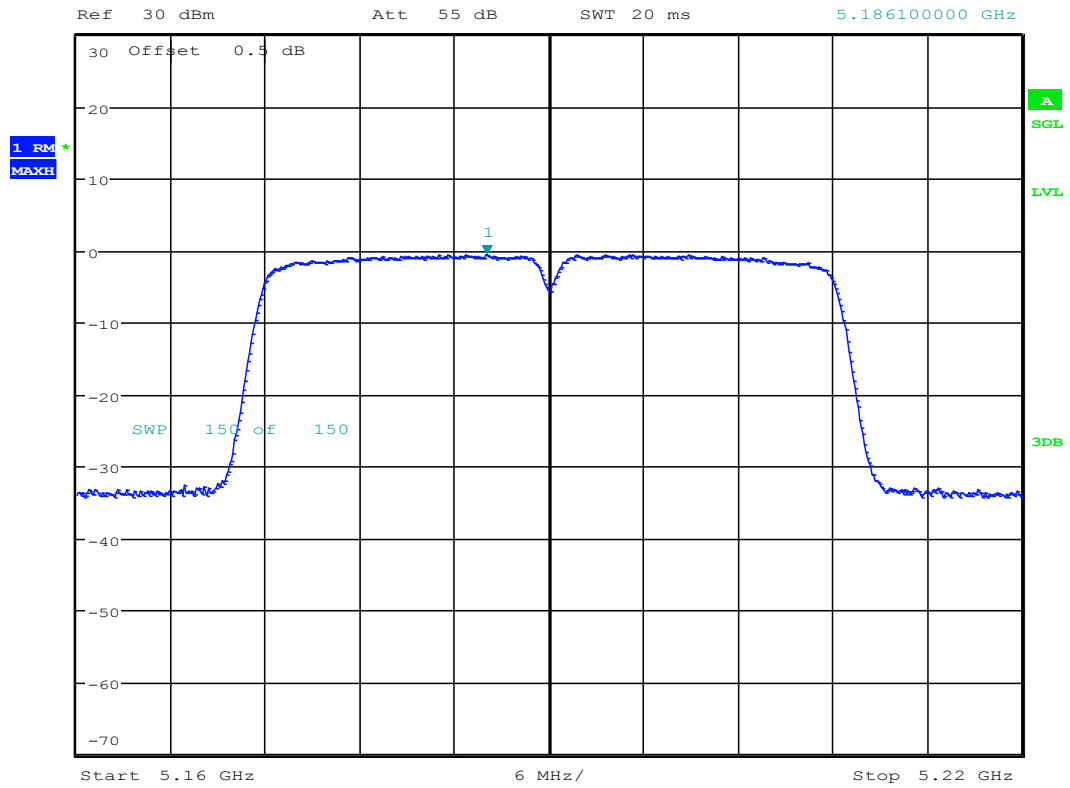


11.33 11AC40_38 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

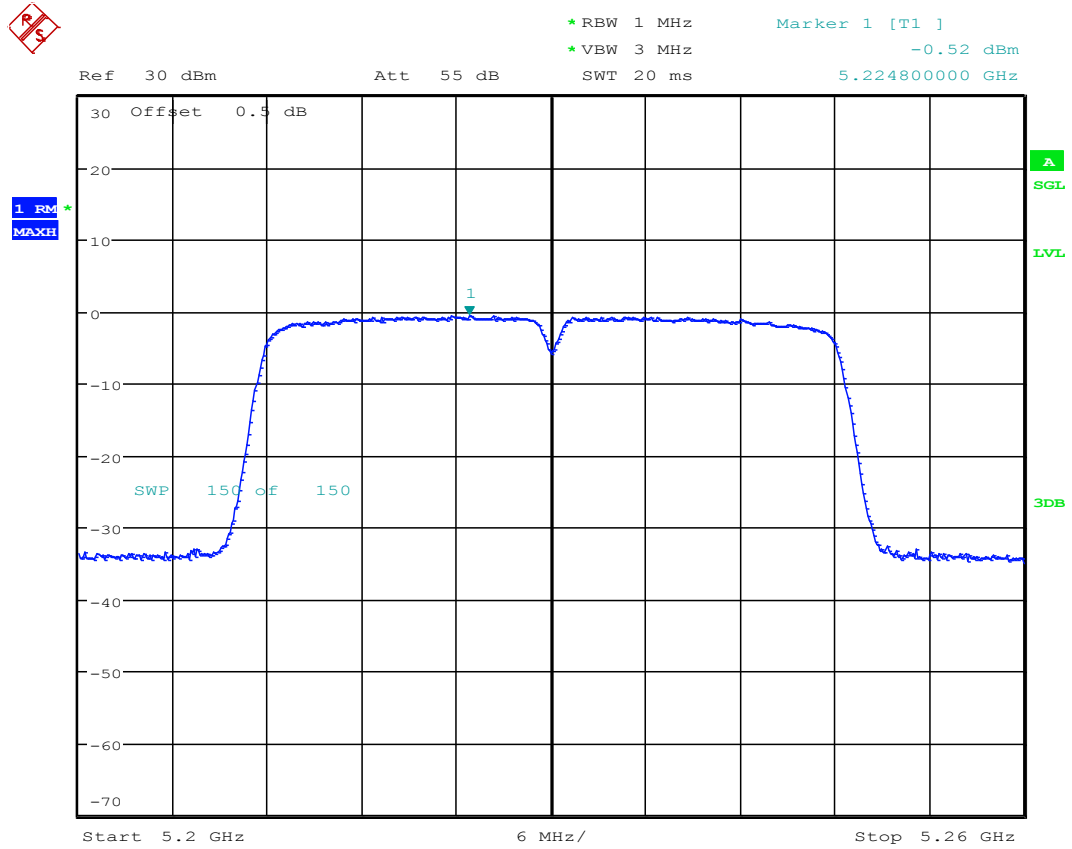
Marker 1 [T1]
-0.49 dBm
5.186100000 GHz



Date: 4.JUL.2018 15:39:03



11.34 11AC40_46 ANT 1



Date: 4.JUL.2018 15:41:33

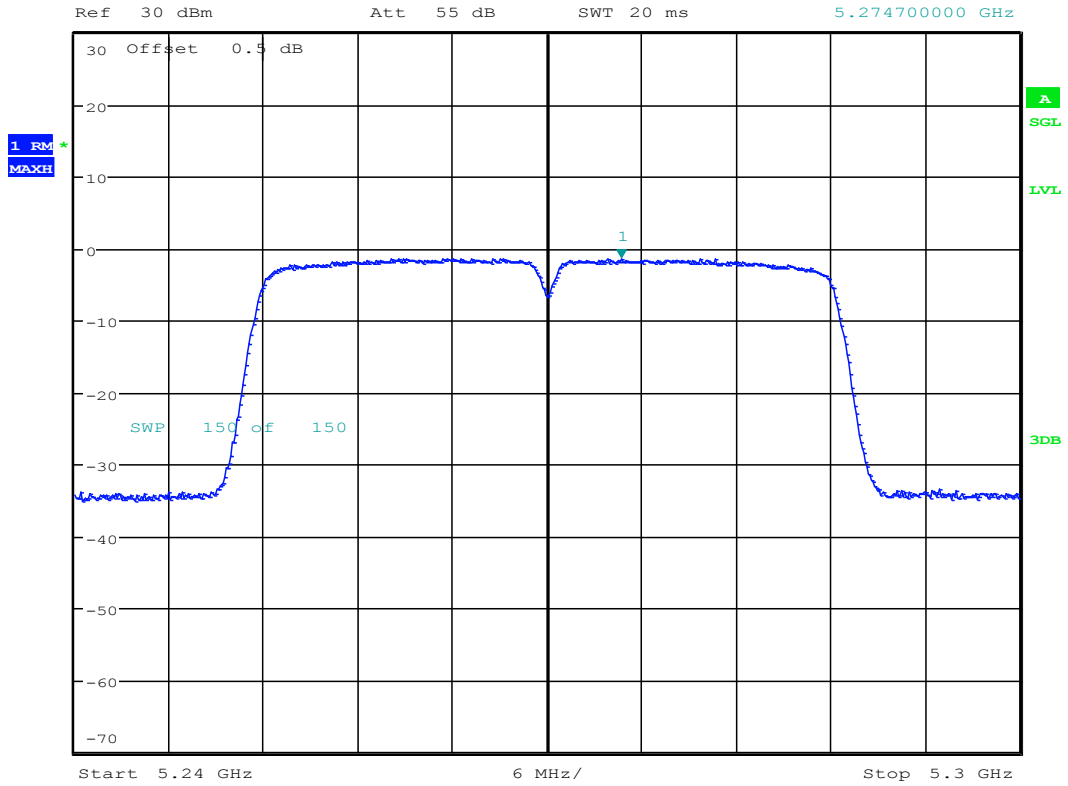


11.35 11AC40_54 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
-1.34 dBm
5.274700000 GHz



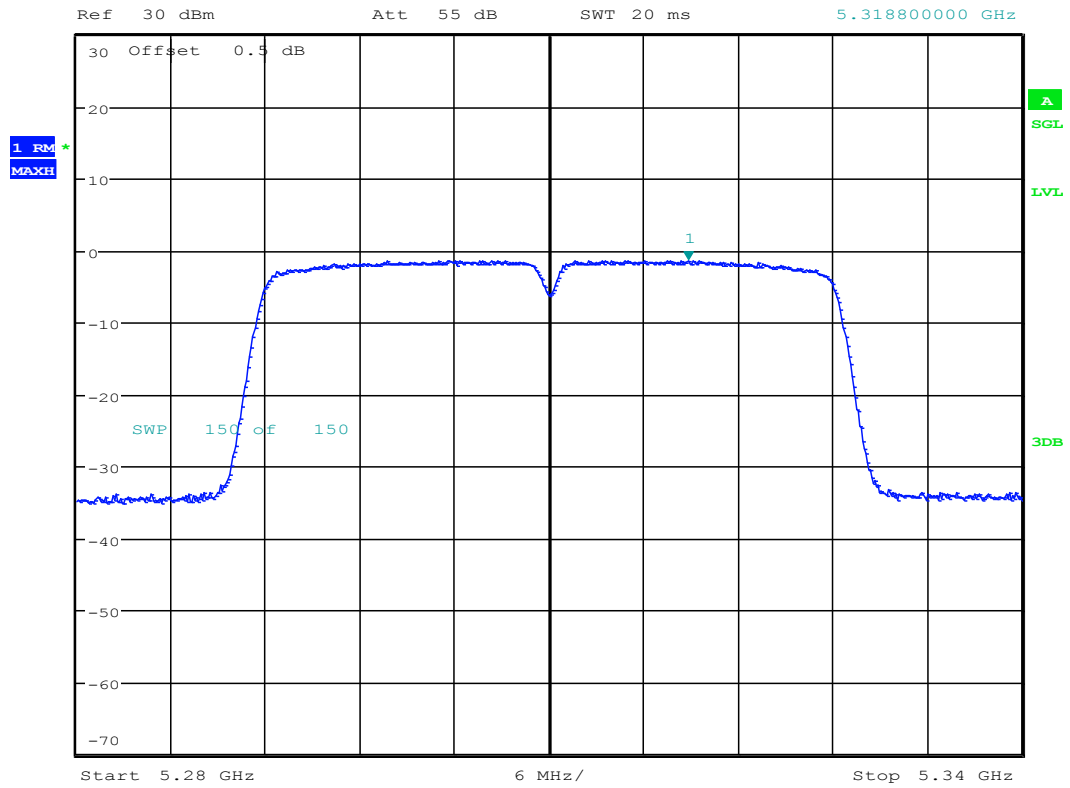
Date: 4.JUL.2018 15:44:22



11.36 11AC40_62 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -1.32 dBm
SWT 20 ms 5.318800000 GHz



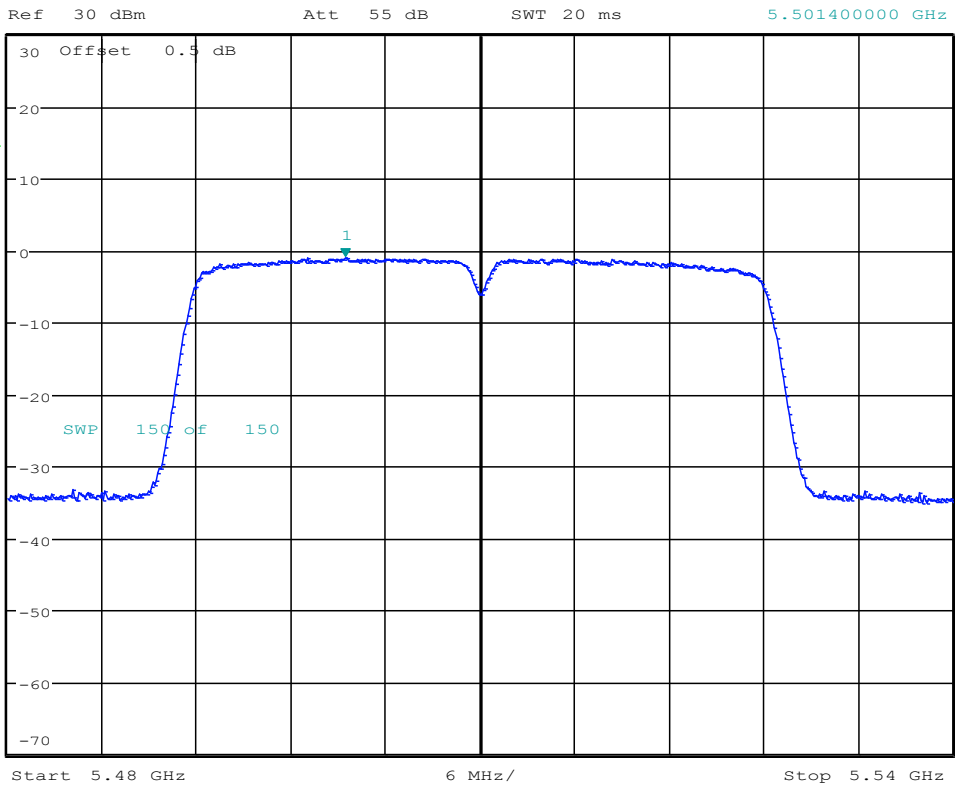
Date: 4.JUL.2018 15:47:41



11.37 11AC40_102 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -0.96 dBm
SWT 20 ms 5.501400000 GHz



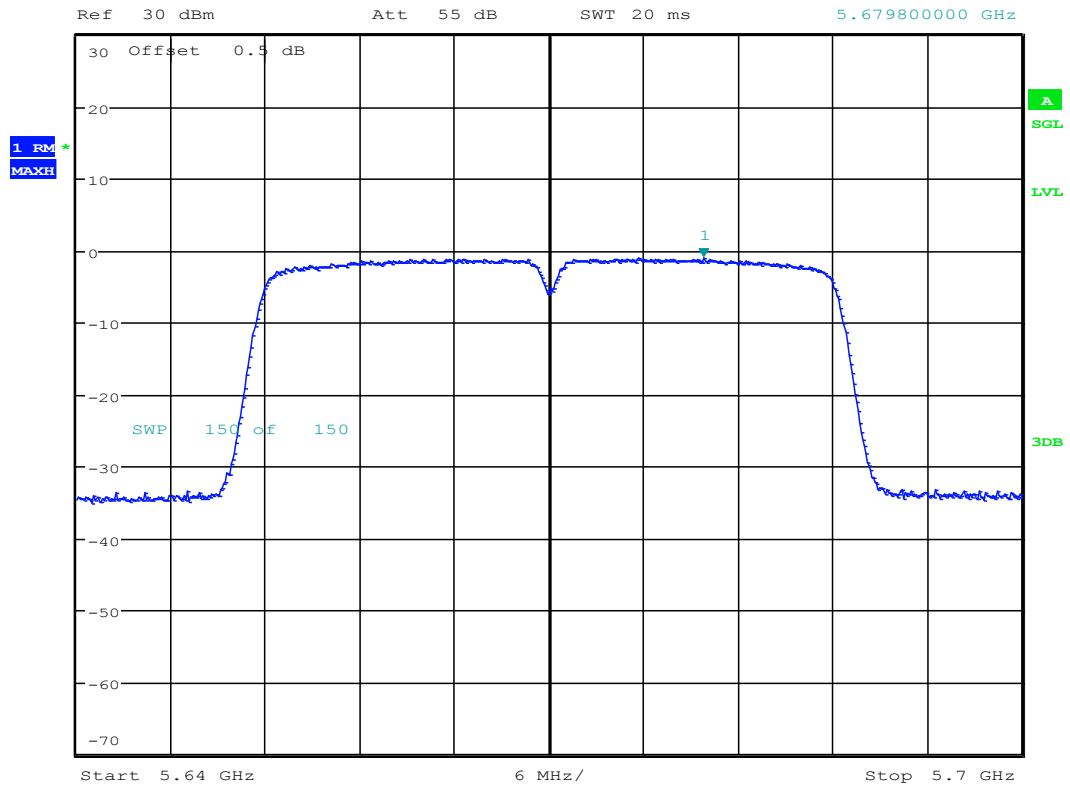
Date: 4.JUL.2018 15:50:43



11.38 11AC40_134 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -1.00 dBm
SWT 20 ms 5.679800000 GHz



Date: 4.JUL.2018 15:54:20



11.39 11AC40_151 ANT 1

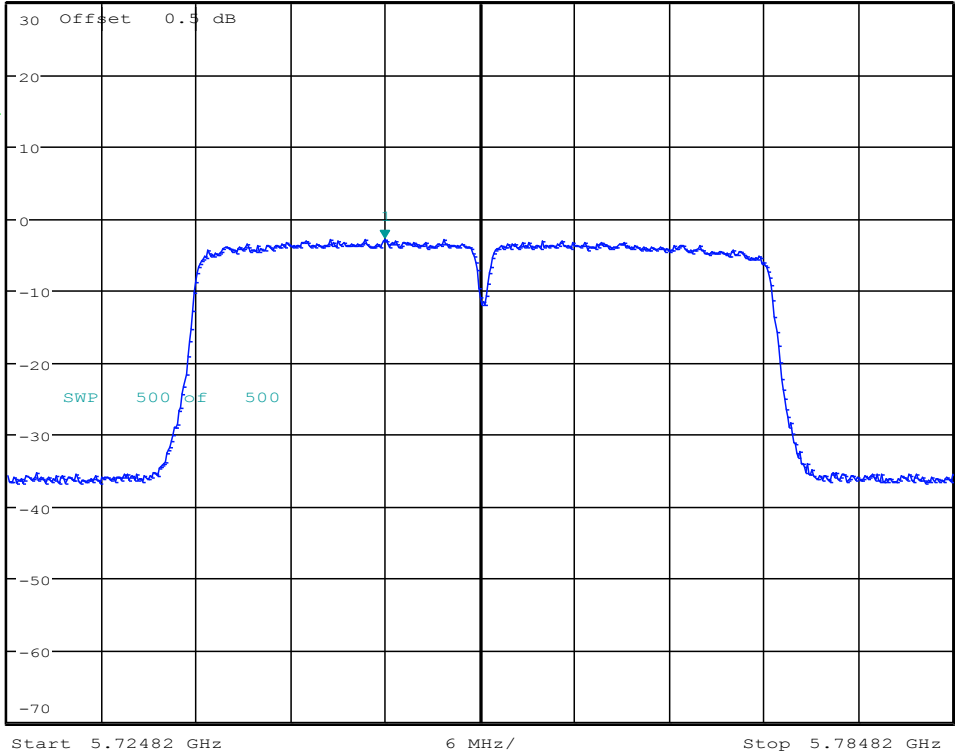


*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz -2.87 dBm
 SWT 20 ms 5.748720000 GHz

Ref 30 dBm

Att 55 dB

1 RM *
 MAXH



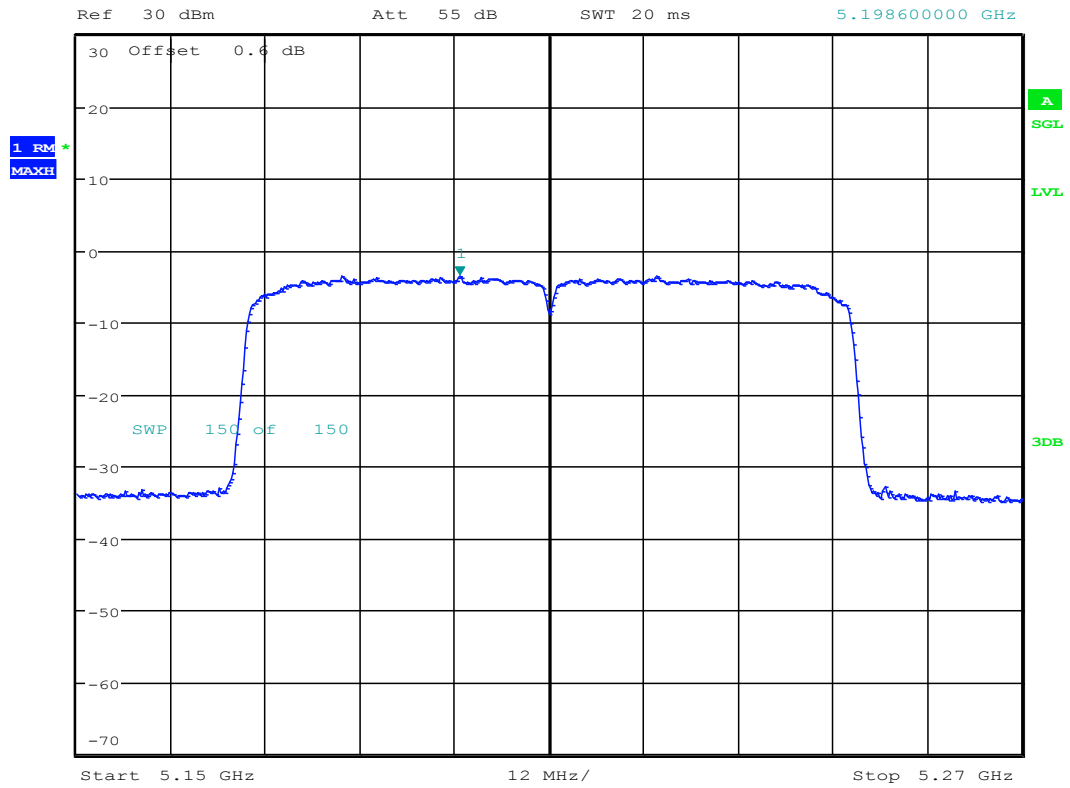
Date: 4.JUL.2018 16:01:20



11.41 11AC80_42 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.48 dBm
SWT 20 ms 5.198600000 GHz



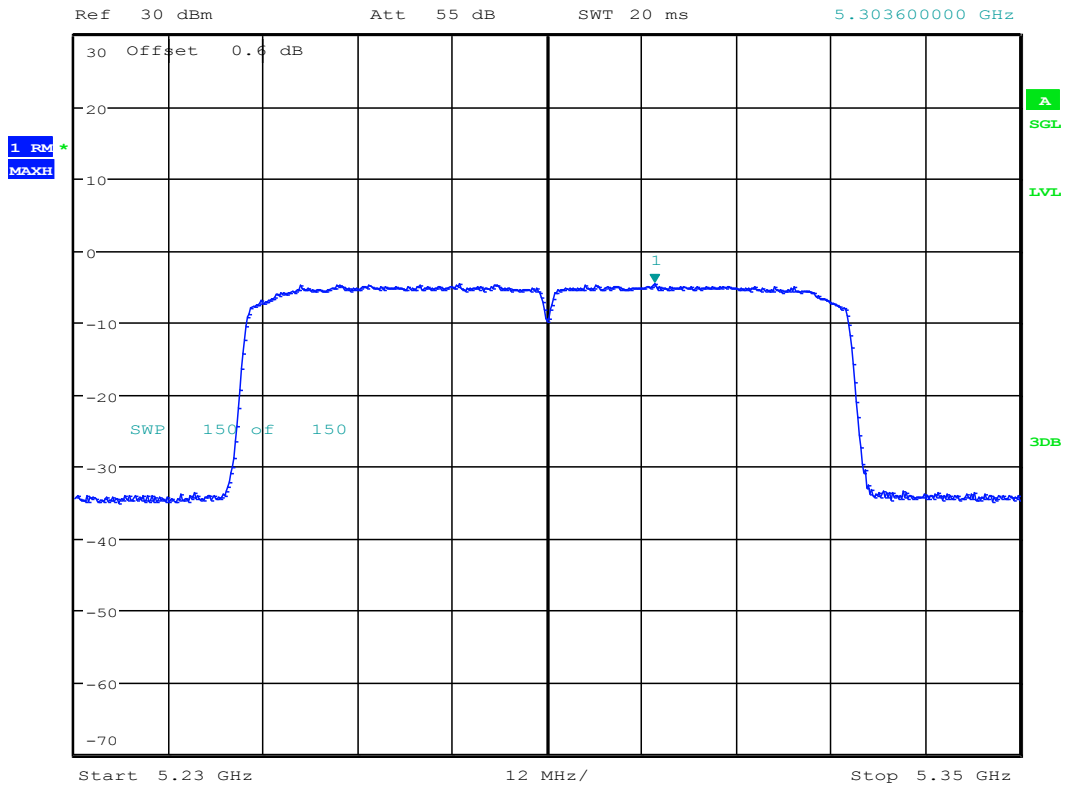
Date: 4.JUL.2018 16:08:05



11.42 11AC80_58 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -4.57 dBm
SWT 20 ms 5.303600000 GHz



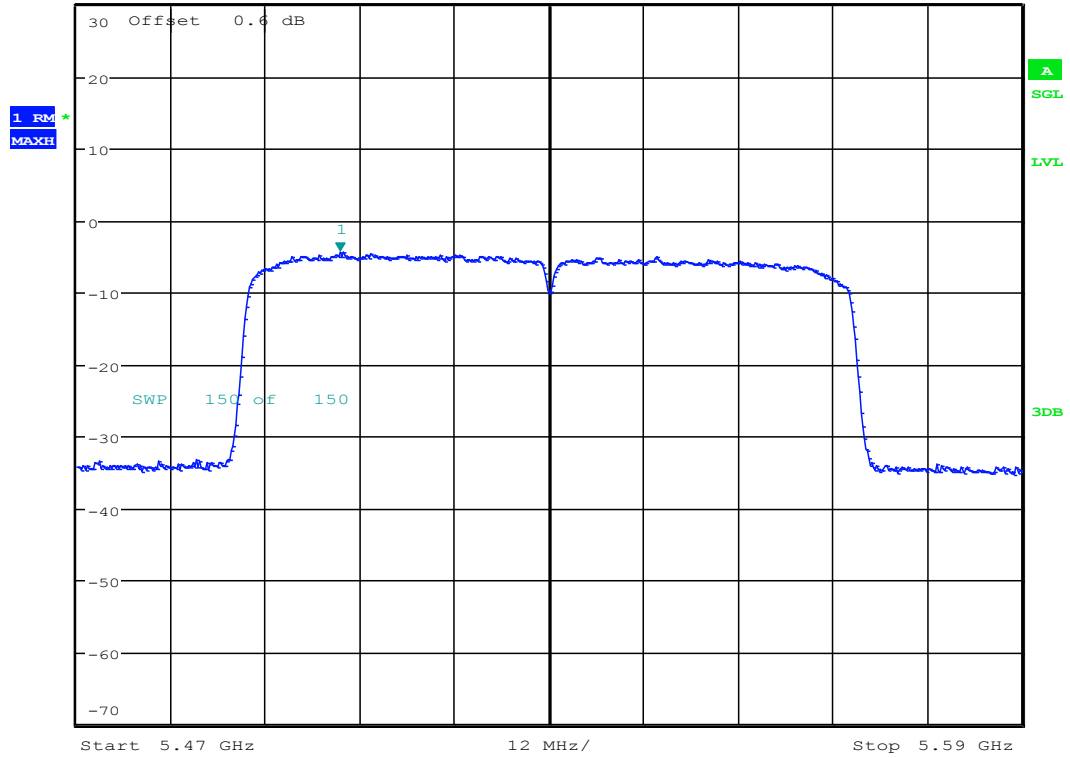
Date: 4.JUL.2018 16:10:50



11.43 11AC80_106 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -4.30 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.503400000 GHz



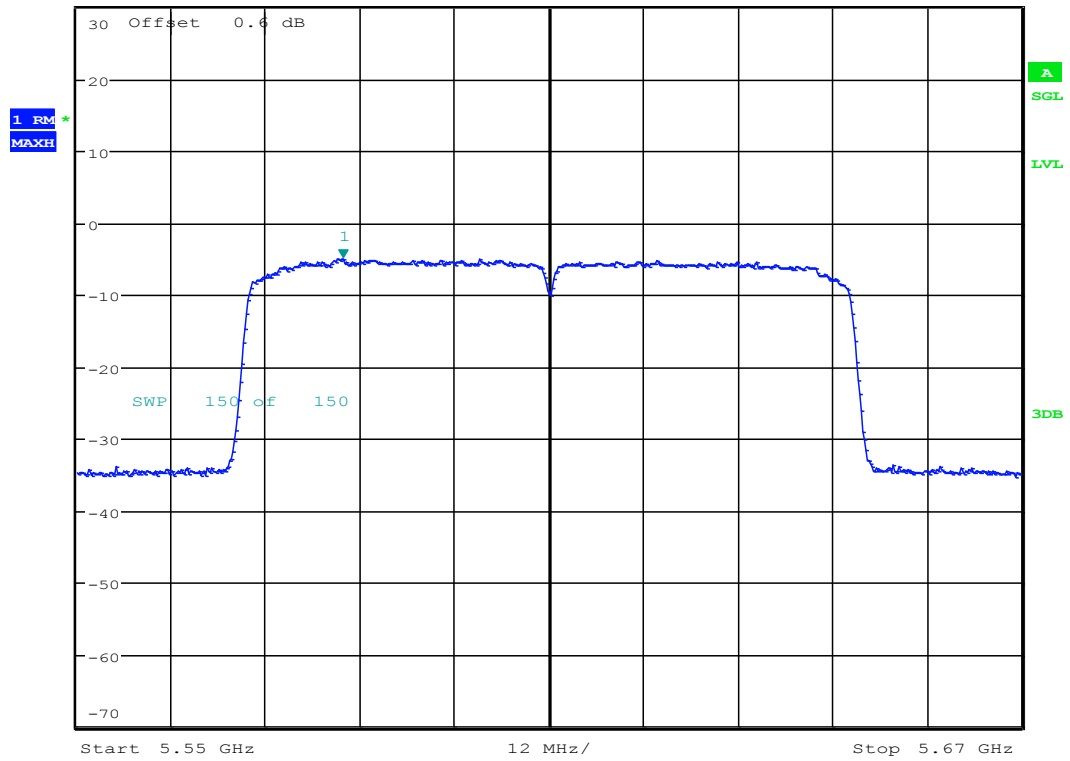
Date: 4.JUL.2018 16:14:33



11.44 11AC80_122 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -4.88 dBm
Ref 30 dBm Att 55 dB SWT 20 ms 5.583800000 GHz

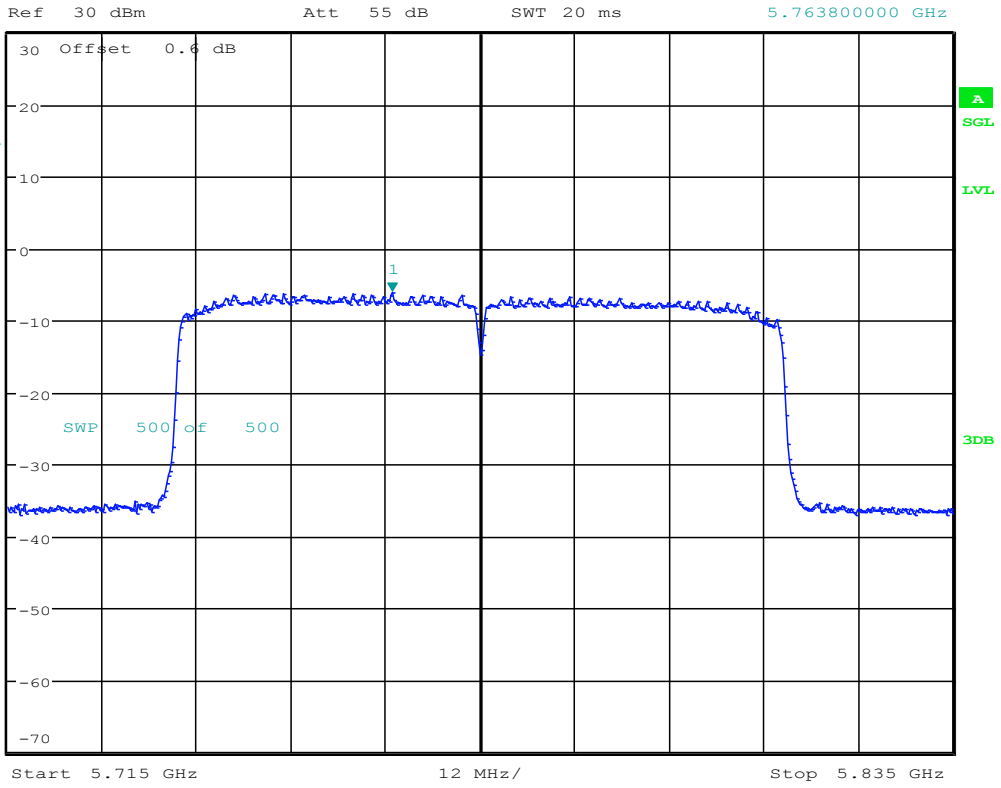


Date: 4.JUL.2018 16:17:50

11.45 11AC80_155 ANT 1



*RBW 500 kHz Marker 1 [T1]
*VBW 2 MHz -6.08 dBm
SWT 20 ms 5.763800000 GHz



Date: 4.JUL.2018 16:24:13



Appendix F: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5180
V nom(V)	5180.0005
V max(V)	5180.0045
V min(V)	5180.0096
Max. Deviation Frequency	0.0096
Max. Frequency Error (ppm)	1.85

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency (MHz)
	5180
-5	5180.0061
5	5180.0015
15	5180.0056
25	5180.0065
35	5180.0091
45	5180.0055
50	5180.0058
Max. Deviation Frequency	0.0091
Max. Frequency Error (ppm)	1.76



Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5825
V nom(V)	5825.0014
V max(V)	5825.0066
V min(V)	5825.0054
Max. Deviation Frequency	0.0066
Max. Frequency Error (ppm)	1.13

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency (MHz)
	5825
-5	5825.0019
5	5825.0034
15	5825.0065
25	5825.0005
35	5825.0024
45	5825.0034
50	5825.0047
Max. Deviation Frequency	0.0065
Max. Frequency Error (ppm)	1.12

END