



# 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	24.54	PASS
	36	5180	ANT 2	24.5	PASS
	48	5240	ANT 1	25.12	PASS
	48	5240	ANT 2	24.88	PASS
	52	5260	ANT 1	24.42	PASS
	52	5260	ANT 2	24.7	PASS
	64	5320	ANT 1	24.5	PASS
	64	5320	ANT 2	24.66	PASS
	100	5500	ANT 1	24.84	PASS
	100	5500	ANT 2	24.64	PASS
	140	5700	ANT 1	24.42	PASS
	140	5700	ANT 2	24.8	PASS
	144	5720	ANT 1	24.5	PASS
	144	5720	ANT 2	24.56	PASS
11N20	36	5180	ANT 1	25.34	PASS
	36	5180	ANT 2	25.64	PASS
	48	5240	ANT 1	25.14	PASS
	48	5240	ANT 2	24.62	PASS
	52	5260	ANT 1	24.94	PASS
	52	5260	ANT 2	25.38	PASS
	64	5320	ANT 1	25.54	PASS
	64	5320	ANT 2	25.12	PASS
	100	5500	ANT 1	25.22	PASS
	100	5500	ANT 2	25.58	PASS
	140	5700	ANT 1	24.92	PASS
	140	5700	ANT 2	24.94	PASS
	144	5720	ANT 1	24.98	PASS
	144	5720	ANT 2	25.48	PASS
11N20MIMO	36	5180	ANT 1	24.94	PASS
	36	5180	ANT 2	24.14	PASS
	48	5240	ANT 1	24.82	PASS
	48	5240	ANT 2	24.14	PASS
	52	5260	ANT 1	25.36	PASS
	52	5260	ANT 2	24.46	PASS



	64	5320	ANT 1	24.64	PASS
	64	5320	ANT 2	23.96	PASS
	100	5500	ANT 1	25	PASS
	100	5500	ANT 2	24.8	PASS
	140	5700	ANT 1	24.64	PASS
	140	5700	ANT 2	24.76	PASS
	144	5720	ANT 1	24.8	PASS
	144	5720	ANT 2	23.84	PASS
11N40	38	5190	ANT 1	45.22	PASS
	38	5190	ANT 2	45.6	PASS
	46	5230	ANT 1	44.88	PASS
	46	5230	ANT 2	44.58	PASS
	54	5270	ANT 1	45	PASS
	54	5270	ANT 2	45.32	PASS
	62	5310	ANT 1	45.58	PASS
	62	5310	ANT 2	44.68	PASS
	102	5510	ANT 1	45.94	PASS
	102	5510	ANT 2	45.06	PASS
	134	5670	ANT 1	44.62	PASS
	134	5670	ANT 2	45.9	PASS
	142	5710	ANT 1	45.36	PASS
	142	5710	ANT 2	44.94	PASS
11N40MIMO	38	5190	ANT 1	45.86	PASS
	38	5190	ANT 2	43.98	PASS
	46	5230	ANT 1	46.16	PASS
	46	5230	ANT 2	44.4	PASS
	54	5270	ANT 1	46.56	PASS
	54	5270	ANT 2	44.32	PASS
	62	5310	ANT 1	46.64	PASS
	62	5310	ANT 2	44.3	PASS
	102	5510	ANT 1	45.72	PASS
	102	5510	ANT 2	43.94	PASS
	134	5670	ANT 1	45.76	PASS
	134	5670	ANT 2	44.62	PASS
	142	5710	ANT 1	46.62	PASS
	142	5710	ANT 2	44.6	PASS
11AC20	36	5180	ANT 1	25.74	PASS
	36	5180	ANT 2	25.3	PASS
	48	5240	ANT 1	25.52	PASS
	48	5240	ANT 2	25.58	PASS
	52	5260	ANT 1	25.5	PASS



	52	5260	ANT 2	25.44	PASS
	64	5320	ANT 1	25.74	PASS
	64	5320	ANT 2	25.1	PASS
	100	5500	ANT 1	25	PASS
	100	5500	ANT 2	25.3	PASS
	140	5700	ANT 1	25.32	PASS
	140	5700	ANT 2	25.12	PASS
	144	5720	ANT 1	25.08	PASS
	144	5720	ANT 2	25.24	PASS
11AC20MIMO	36	5180	ANT 1	24.9	PASS
	36	5180	ANT 2	24.14	PASS
	48	5240	ANT 1	24.88	PASS
	48	5240	ANT 2	23.8	PASS
	52	5260	ANT 1	25.68	PASS
	52	5260	ANT 2	24.36	PASS
	64	5320	ANT 1	25.64	PASS
	64	5320	ANT 2	24.34	PASS
	100	5500	ANT 1	24.2	PASS
	100	5500	ANT 2	24.26	PASS
	140	5700	ANT 1	25.52	PASS
	140	5700	ANT 2	24.3	PASS
	144	5720	ANT 1	24.72	PASS
	144	5720	ANT 2	24.46	PASS
11AC40	38	5190	ANT 1	46.14	PASS
	38	5190	ANT 2	45.82	PASS
	46	5230	ANT 1	46.06	PASS
	46	5230	ANT 2	45.3	PASS
	54	5270	ANT 1	45.74	PASS
	54	5270	ANT 2	45.76	PASS
	62	5310	ANT 1	46.02	PASS
	62	5310	ANT 2	45.62	PASS
	102	5510	ANT 1	46.34	PASS
	102	5510	ANT 2	50.32	PASS
	134	5670	ANT 1	45.4	PASS
	134	5670	ANT 2	45.2	PASS
	142	5710	ANT 1	45.86	PASS
	142	5710	ANT 2	45.78	PASS
11AC40MIMO	38	5190	ANT 1	45.96	PASS
	38	5190	ANT 2	44.26	PASS
	46	5230	ANT 1	45.74	PASS
	46	5230	ANT 2	44.82	PASS



	54	5270	ANT 1	46.2	PASS
	54	5270	ANT 2	44.2	PASS
	62	5310	ANT 1	46.2	PASS
	62	5310	ANT 2	44.92	PASS
	102	5510	ANT 1	45.5	PASS
	102	5510	ANT 2	44.78	PASS
	134	5670	ANT 1	45.38	PASS
	134	5670	ANT 2	45.14	PASS
	142	5710	ANT 1	45.88	PASS
	142	5710	ANT 2	45.24	PASS
11AC80	42	5210	ANT 1	86.19	PASS
	42	5210	ANT 2	86.03	PASS
	58	5290	ANT 1	87.84	PASS
	58	5290	ANT 2	86.13	PASS
	106	5530	ANT 1	86.88	PASS
	106	5530	ANT 2	96.48	PASS
	138	5690	ANT 1	87.09	PASS
	138	5690	ANT 2	86.61	PASS
11AC80MIMO	42	5210	ANT 1	85.65	PASS
	42	5210	ANT 2	84.53	PASS
	58	5290	ANT 1	86.67	PASS
	58	5290	ANT 2	85.49	PASS
	106	5530	ANT 1	85.87	PASS
	106	5530	ANT 2	85.55	PASS
	138	5690	ANT 1	84.96	PASS
	138	5690	ANT 2	84.27	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	15.18	PASS
	149	5745	ANT 2	15.38	PASS
	165	5825	ANT 1	15.18	PASS
	165	5825	ANT 2	15.16	PASS
11N20	149	5745	ANT 1	15.36	PASS
	149	5745	ANT 2	15.38	PASS
	165	5825	ANT 1	15.16	PASS
	165	5825	ANT 2	15.48	PASS
11N20MIMO	149	5745	ANT 1	15.48	PASS
	149	5745	ANT 2	16.34	PASS
	165	5825	ANT 1	15.16	PASS
	165	5825	ANT 2	16.54	PASS
11N40	151	5755	ANT 1	35.12	PASS
	151	5755	ANT 2	35.12	PASS
	159	5795	ANT 1	35.12	PASS
	159	5795	ANT 2	35.12	PASS
11N40MIMO	151	5755	ANT 1	35.12	PASS
	151	5755	ANT 2	35.12	PASS
	159	5795	ANT 1	35.16	PASS
	159	5795	ANT 2	35.12	PASS
11AC20	149	5745	ANT 1	15.18	PASS
	149	5745	ANT 2	15.16	PASS
	165	5825	ANT 1	15.16	PASS
	165	5825	ANT 2	15.16	PASS
11AC20MIMO	149	5745	ANT 1	15.7	PASS
	149	5745	ANT 2	16.34	PASS
	165	5825	ANT 1	15.16	PASS
	165	5825	ANT 2	16.32	PASS
11AC40	151	5755	ANT 1	35.1	PASS
	151	5755	ANT 2	35.12	PASS
	159	5795	ANT 1	35.14	PASS
	159	5795	ANT 2	35.14	PASS
11AC40MIMO	151	5755	ANT 1	35.12	PASS
	151	5755	ANT 2	35.12	PASS



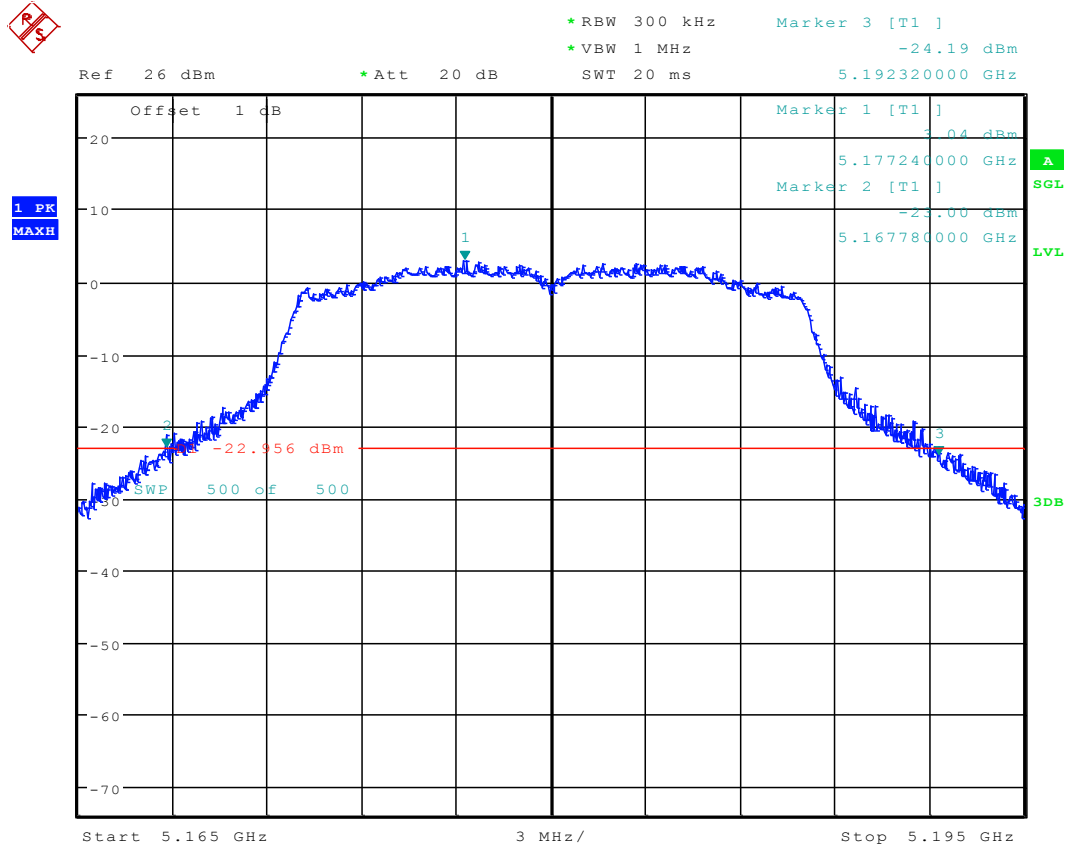
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	159	5795	ANT 1	35.12	PASS
	159	5795	ANT 2	35.12	PASS
11AC80	155	5775	ANT 1	75.15	PASS
	155	5775	ANT 2	72.69	PASS
11AC80MIMO	155	5775	ANT 1	72.69	PASS
	155	5775	ANT 2	72.69	PASS

### 3 Test Plot for 26dB Emission Bandwidth

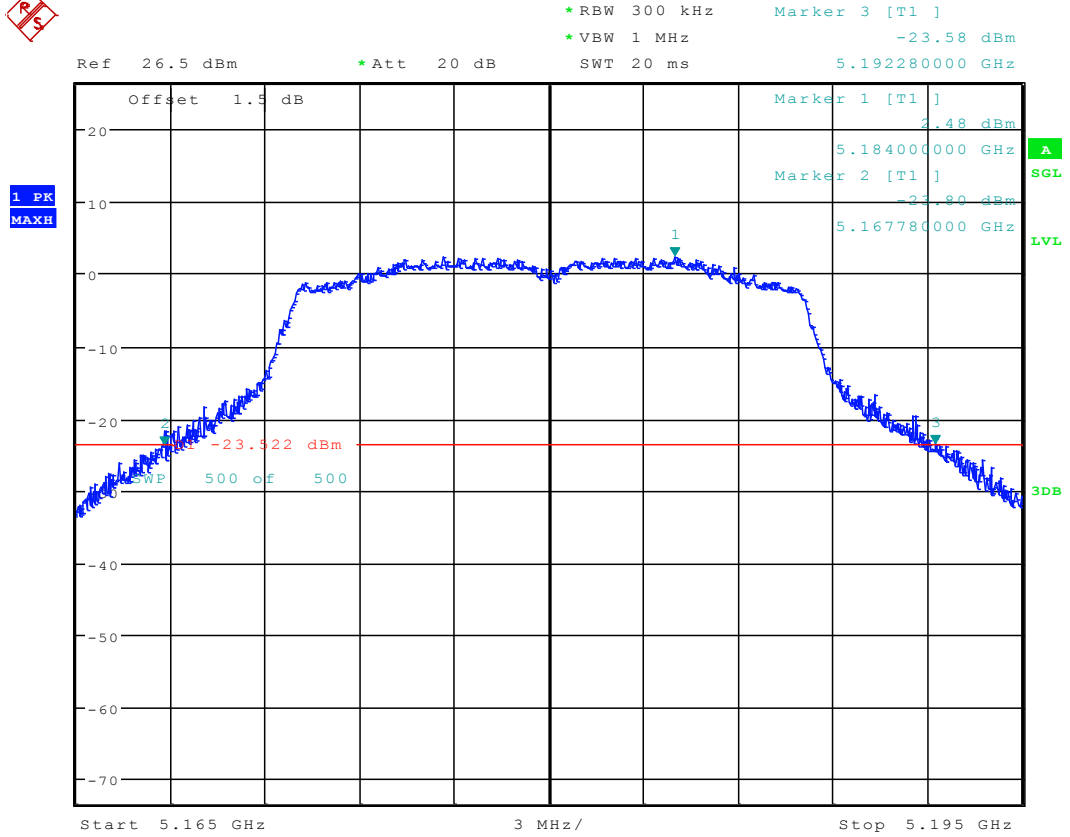
#### 3.1 11A20\_36 ANT 1



Date: 22.JAN.2018 13:48:06

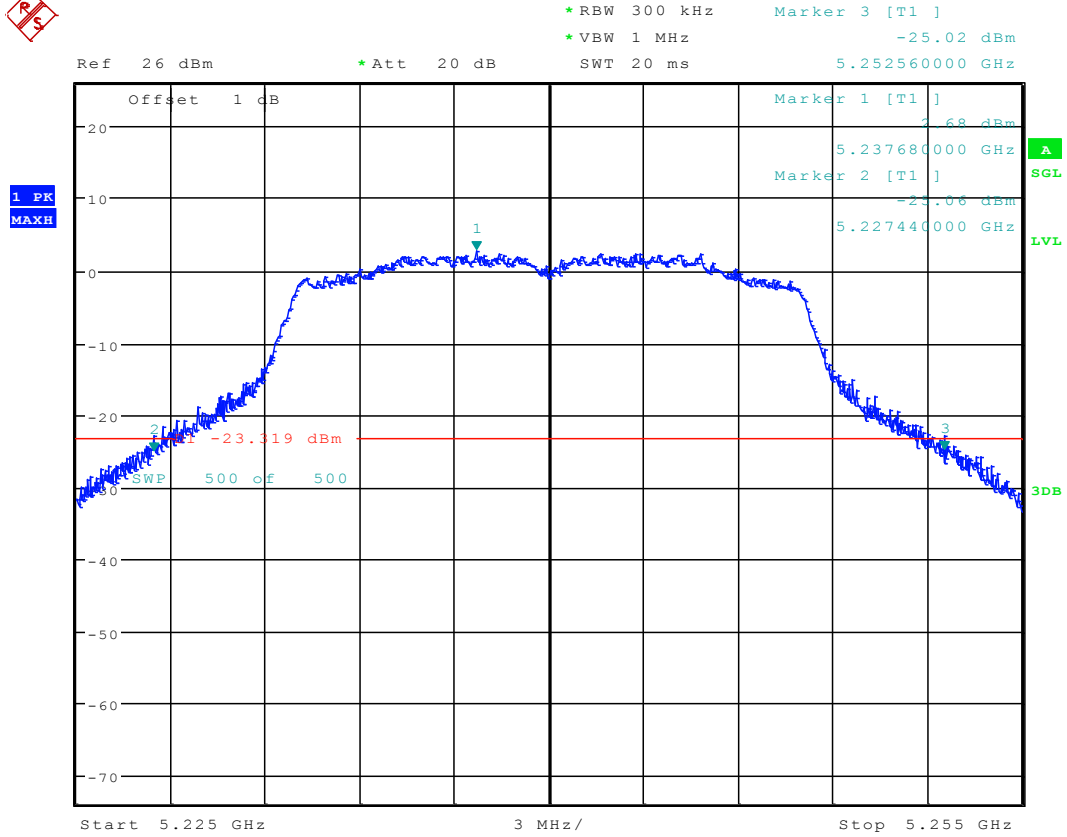


### 3.2 11A20\_36 ANT 2



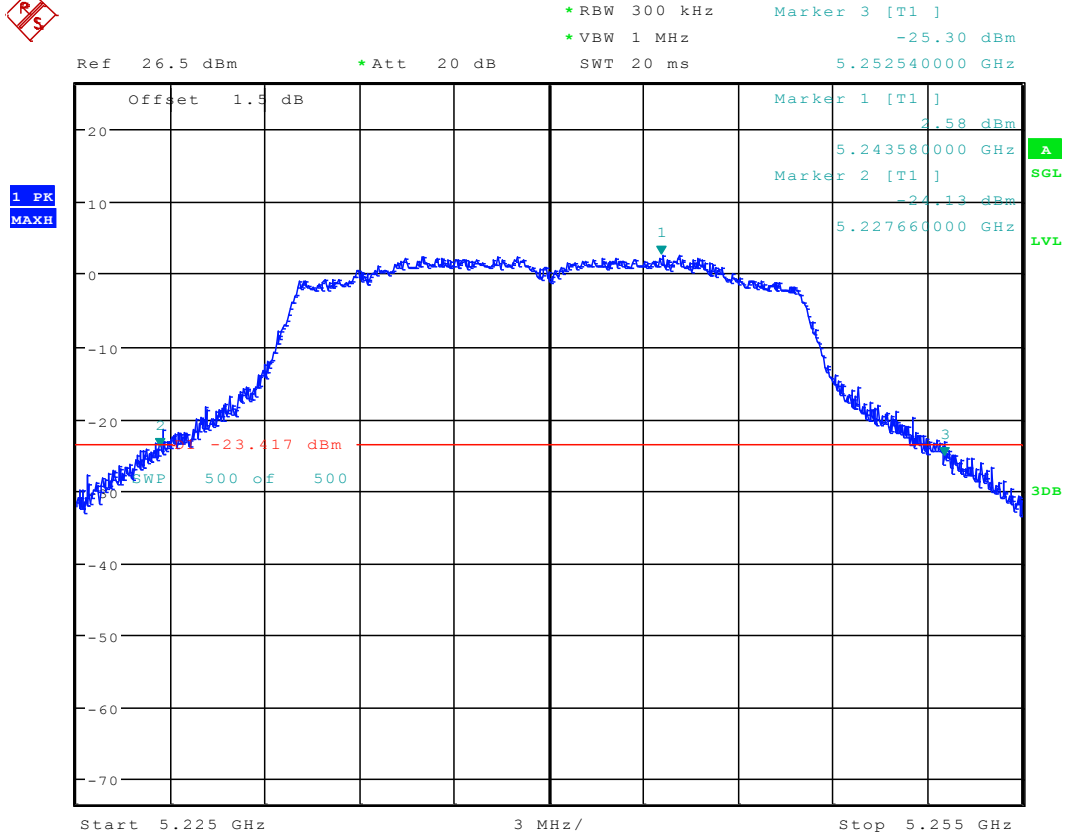
Date: 24.JAN.2018 11:06:40

### 3.3 11A20\_48 ANT 1



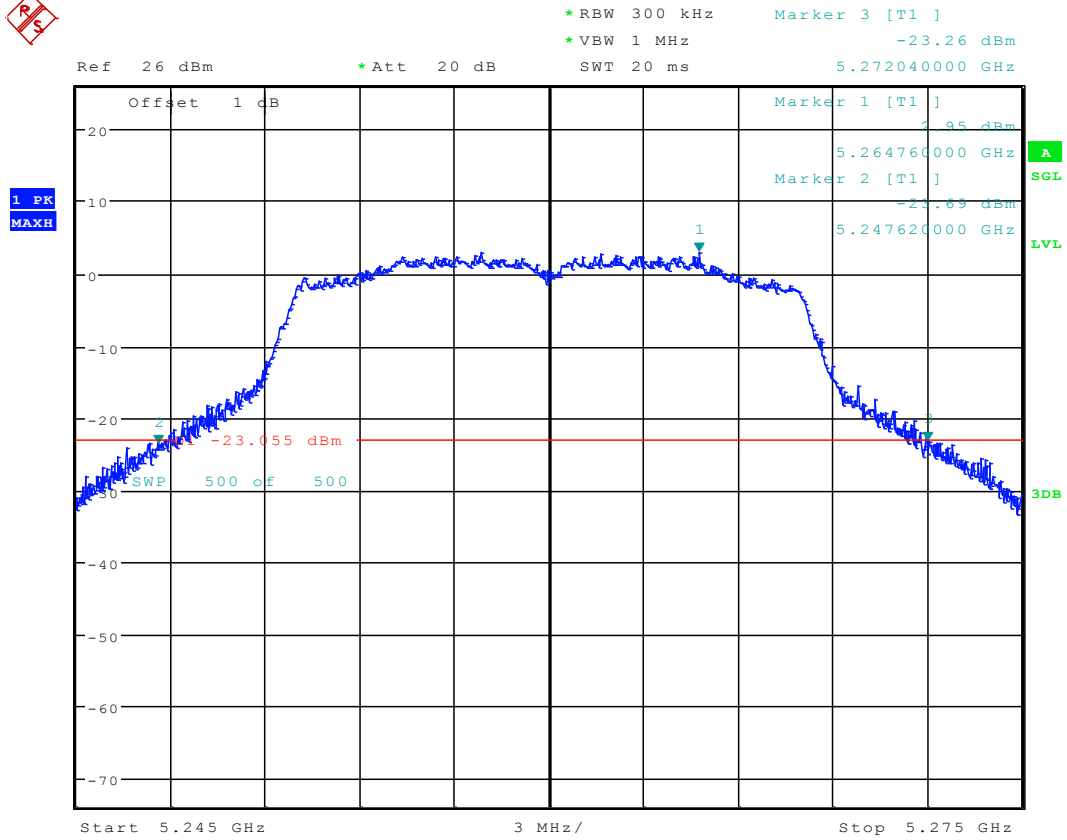
Date: 22.JAN.2018 14:20:16

### 3.4 11A20\_48 ANT 2



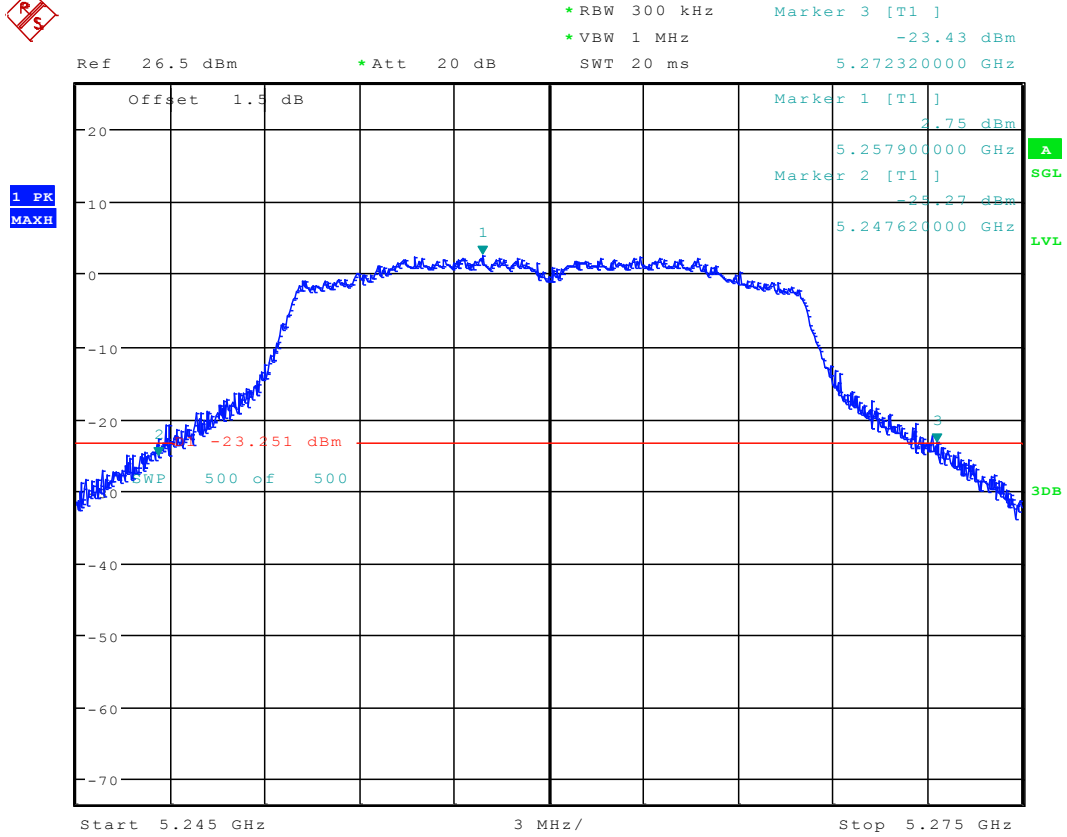
Date: 24.JAN.2018 11:09:25

### 3.5 11A20\_52 ANT 1



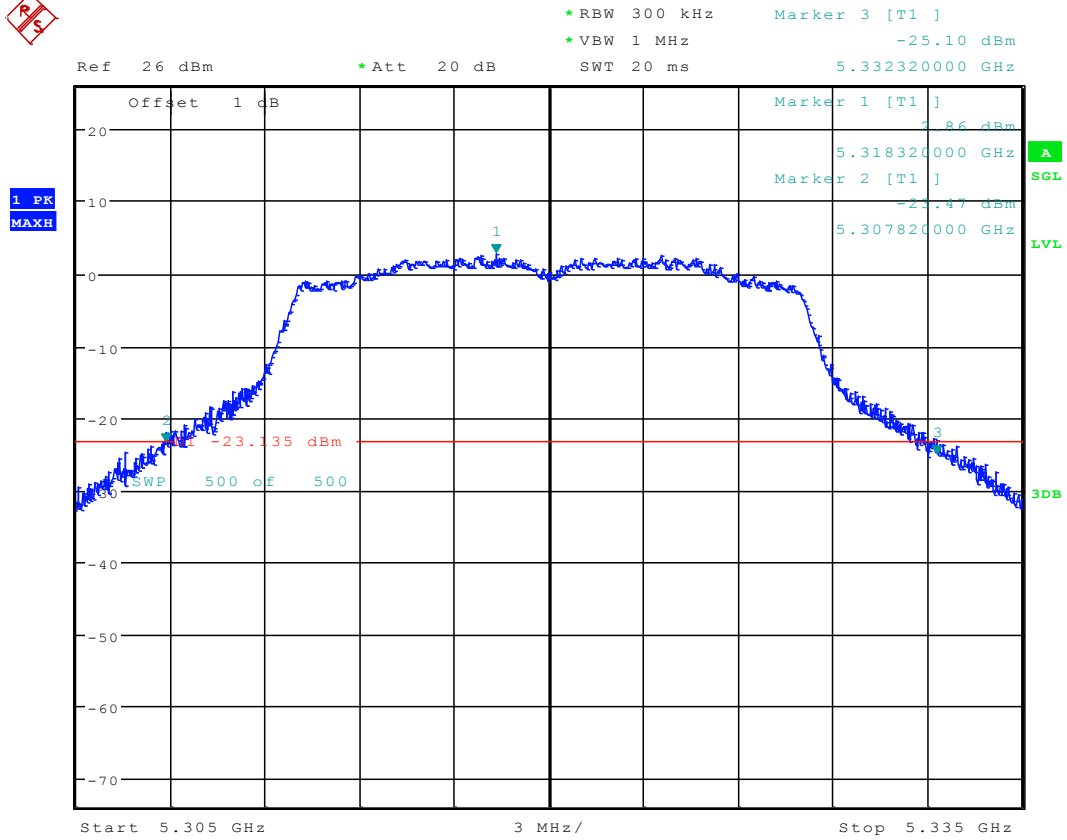
Date: 22.JAN.2018 14:23:00

### 3.6 11A20\_52 ANT 2



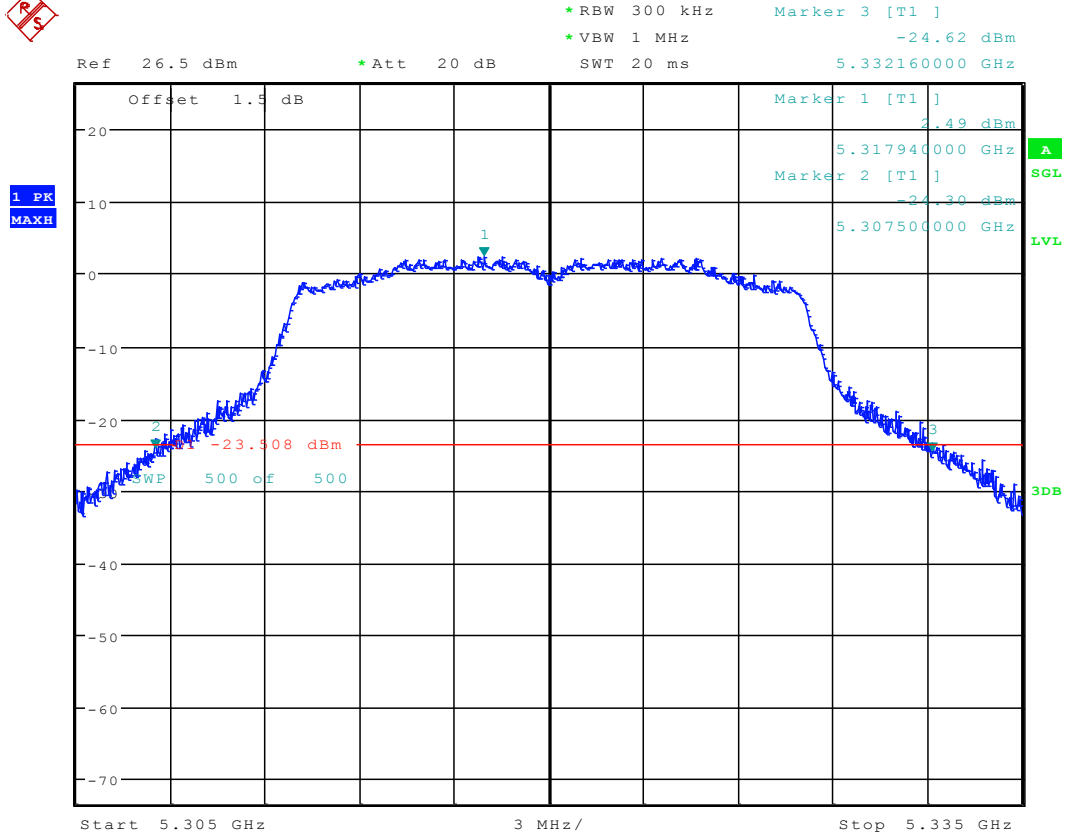
Date: 24.JAN.2018 11:12:08

### 3.7 11A20\_64 ANT 1



Date: 22.JAN.2018 14:25:24

### 3.8 11A20\_64 ANT 2



Date: 24.JAN.2018 11:14:37



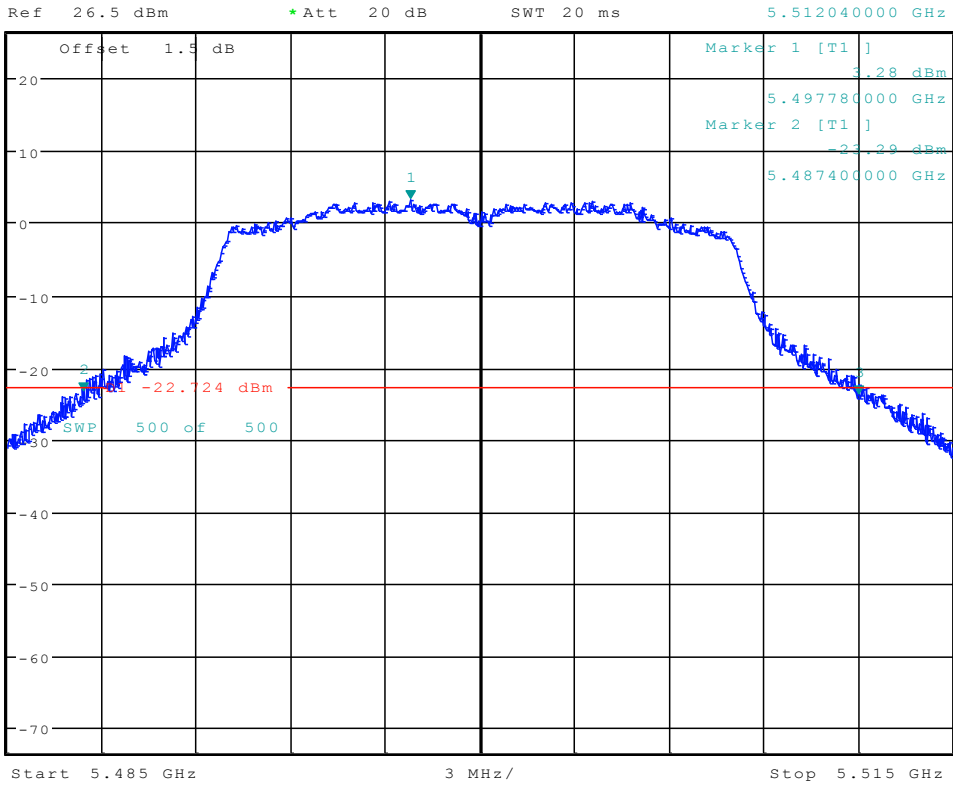




### 3.10 11A20\_100 ANT 2



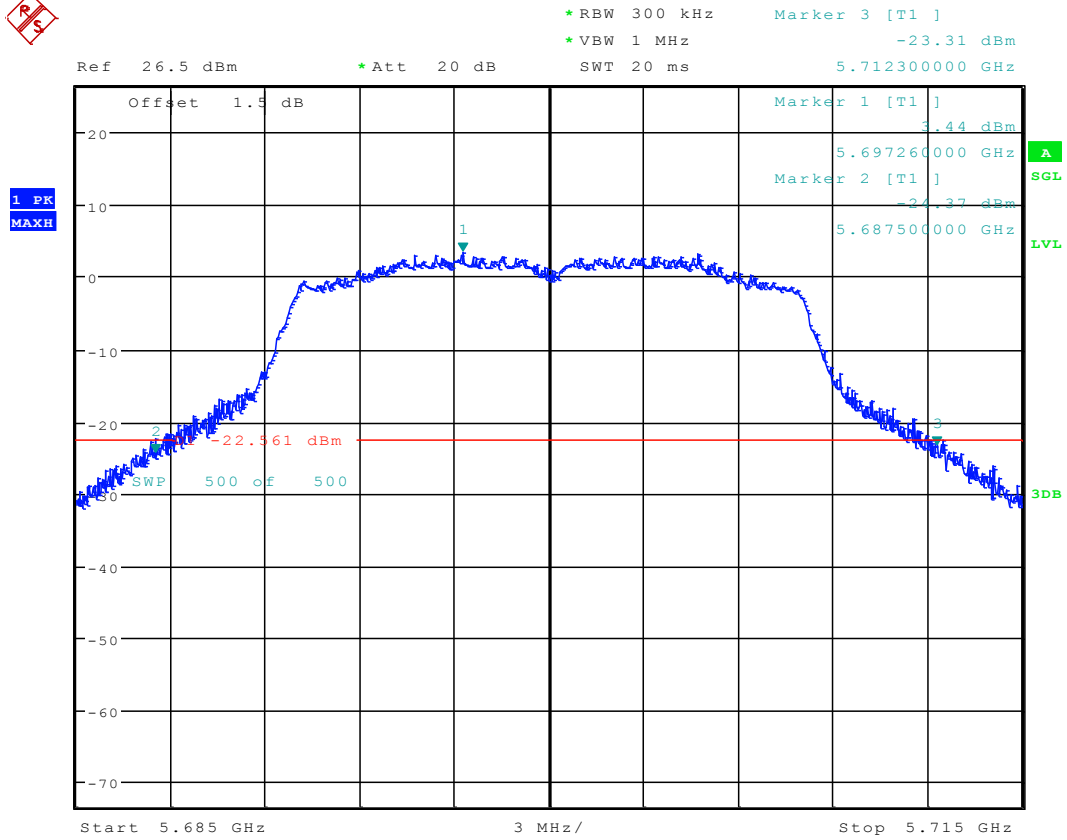
\*RBW 300 kHz      Marker 3 [T1 ]  
 \*VBW 1 MHz      -23.86 dBm  
 SWT 20 ms      5.512040000 GHz



Date: 24.JAN.2018 11:19:23

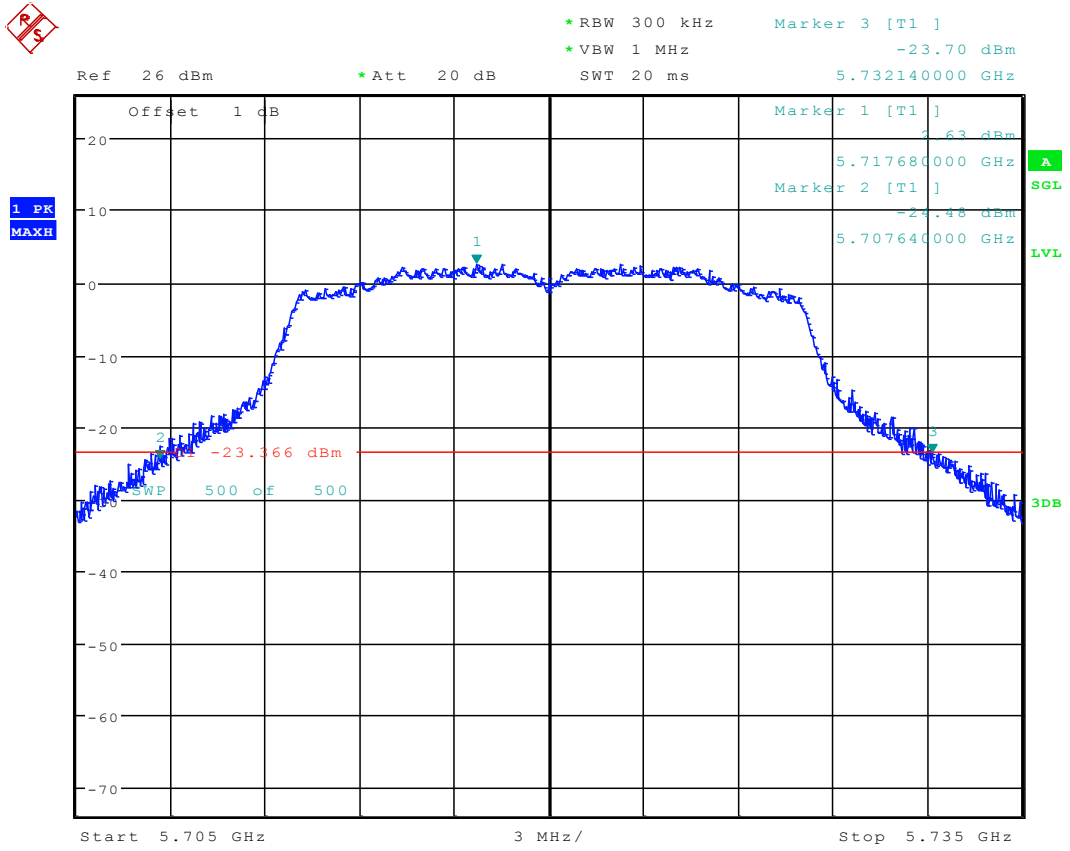


### 3.12 11A20\_140 ANT 2



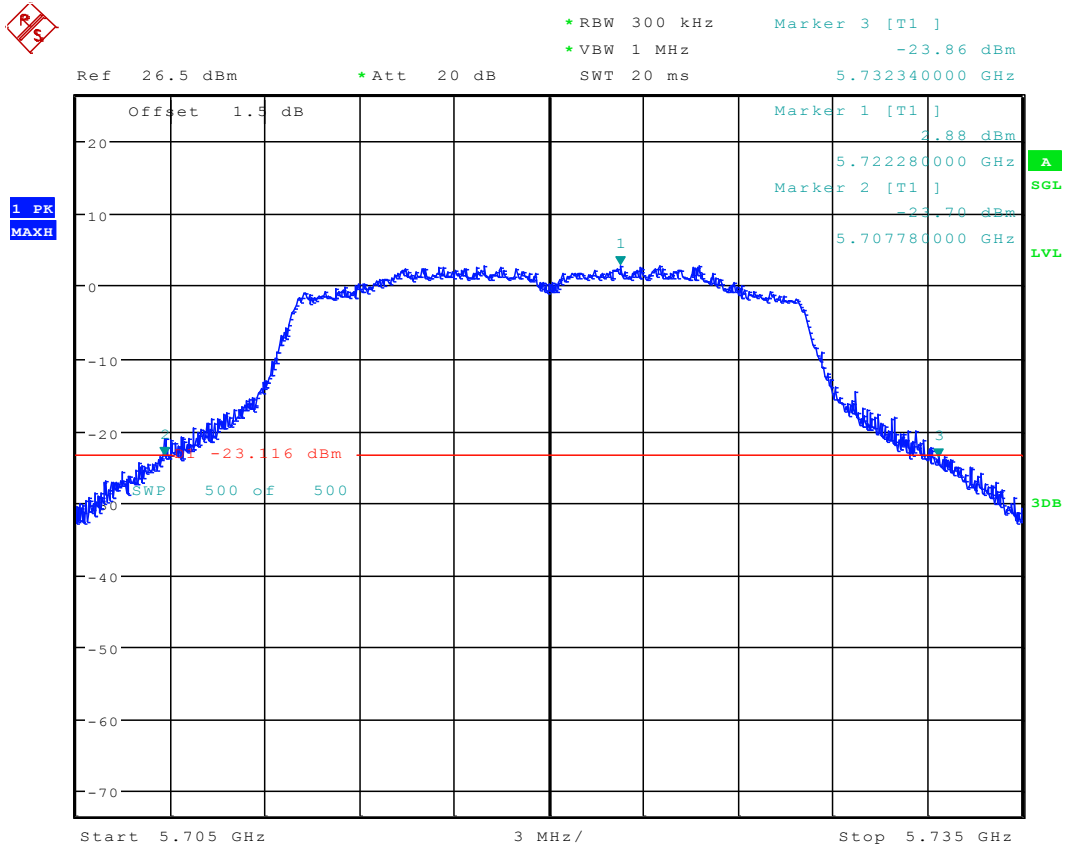
Date: 24.JAN.2018 11:22:39

### 3.13 11A20\_144 ANT 1



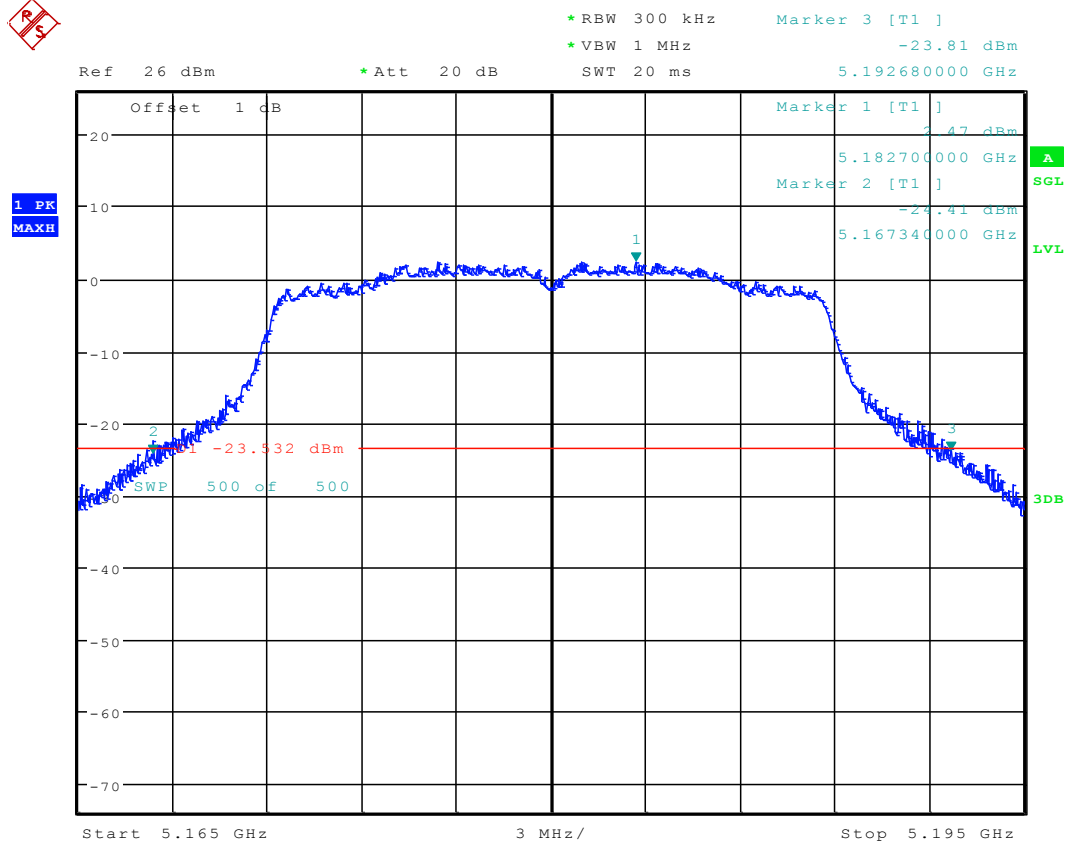
Date: 22.JAN.2018 14:34:22

### 3.14 11A20\_144 ANT 2



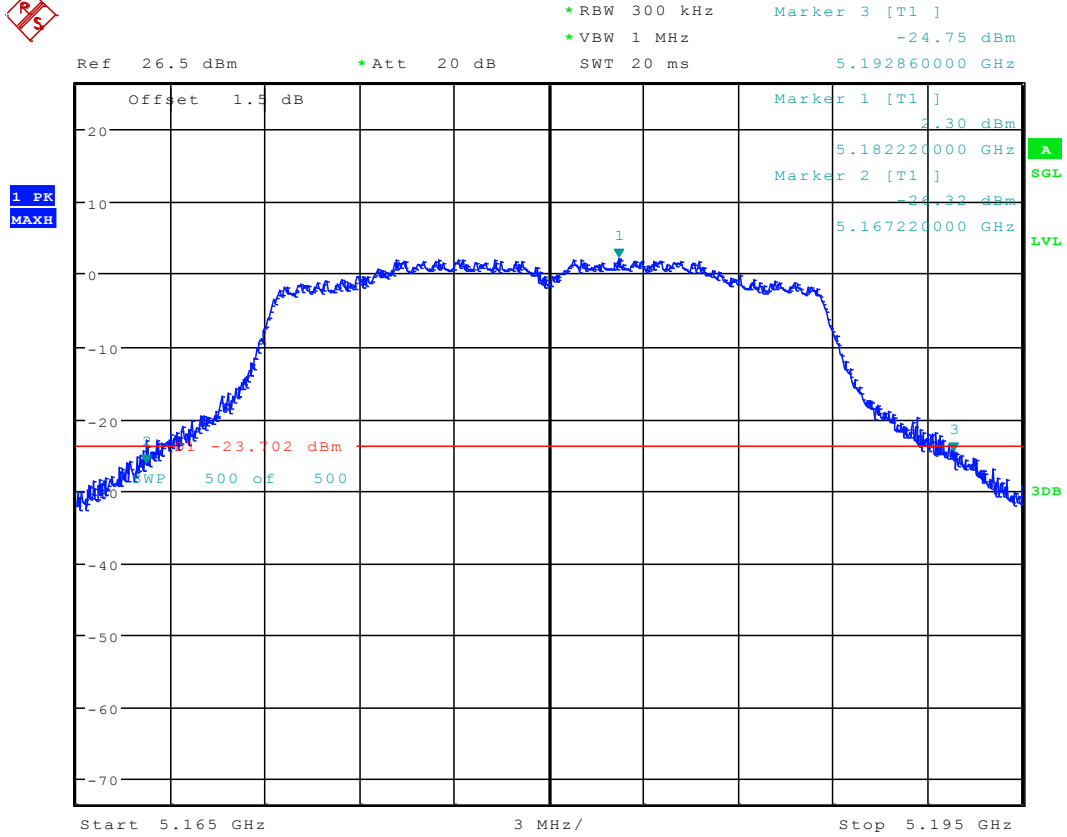
Date: 24.JAN.2018 11:25:25

### 3.15 11N20\_36 ANT 1



Date: 22.JAN.2018 14:50:50

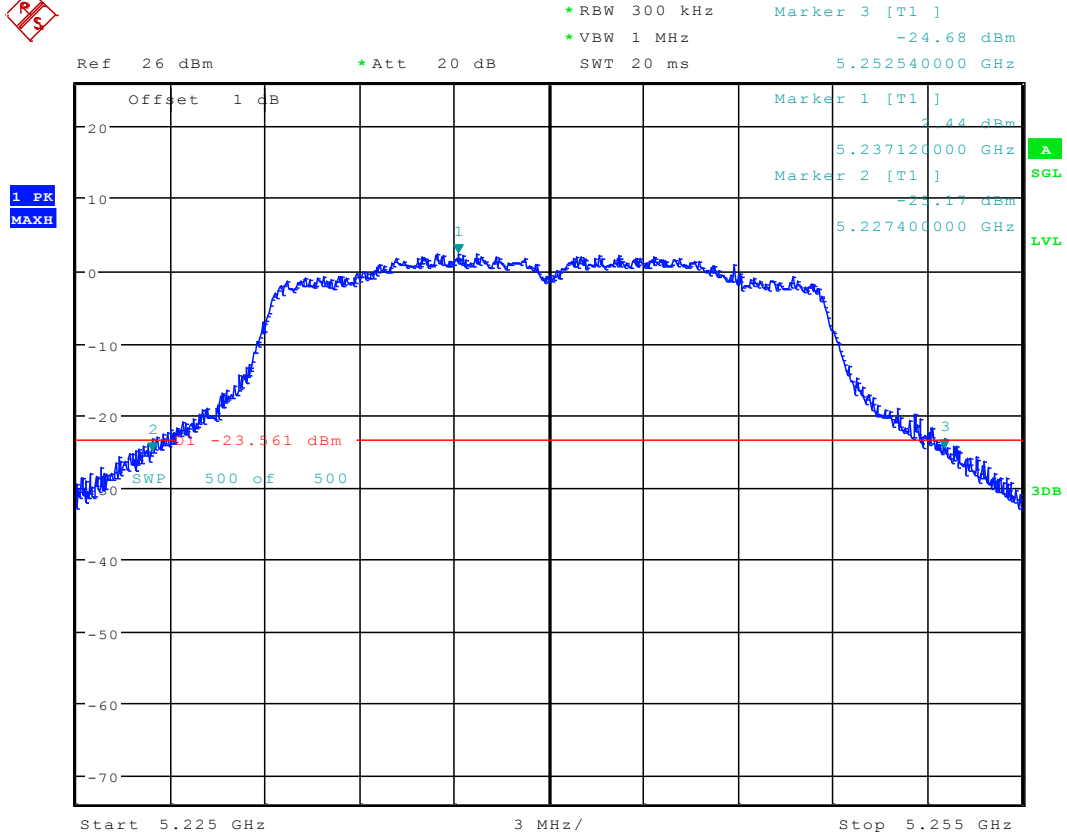
### 3.16 11N20\_36 ANT 2



Date: 24.JAN.2018 11:42:58



### 3.17 11N20\_48 ANT 1

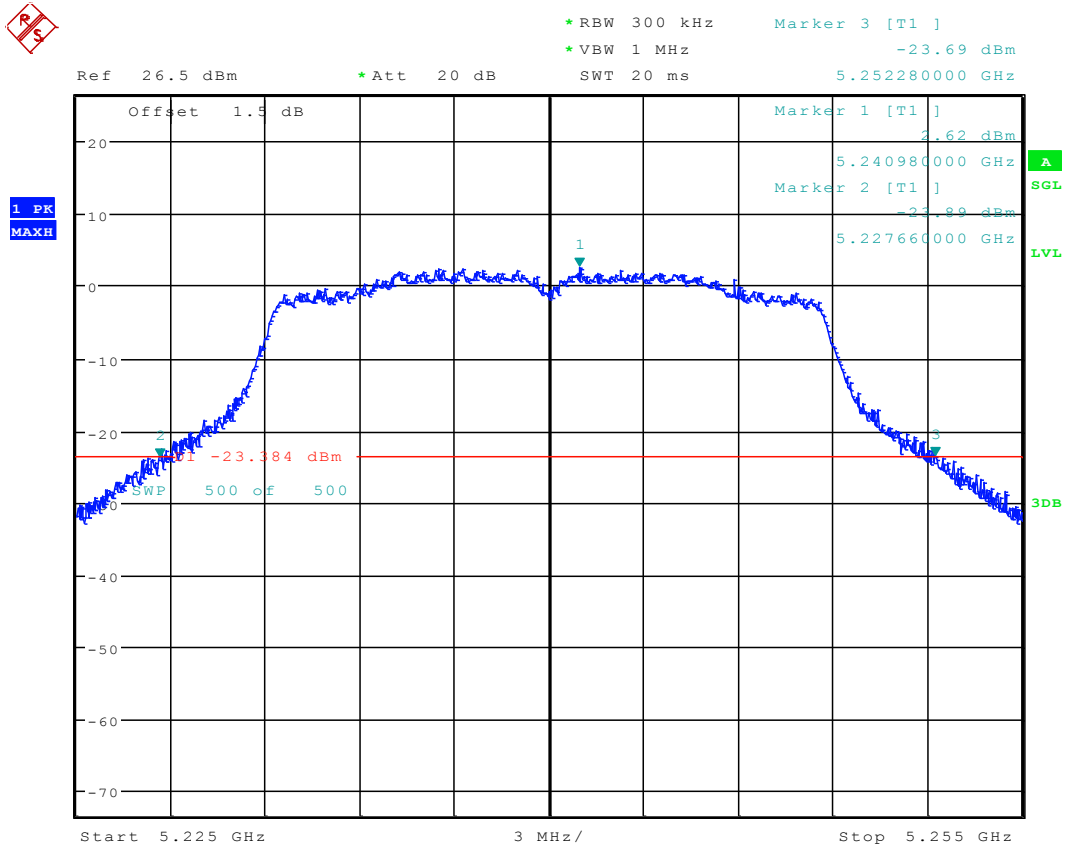


Date: 22.JAN.2018 14:53:39



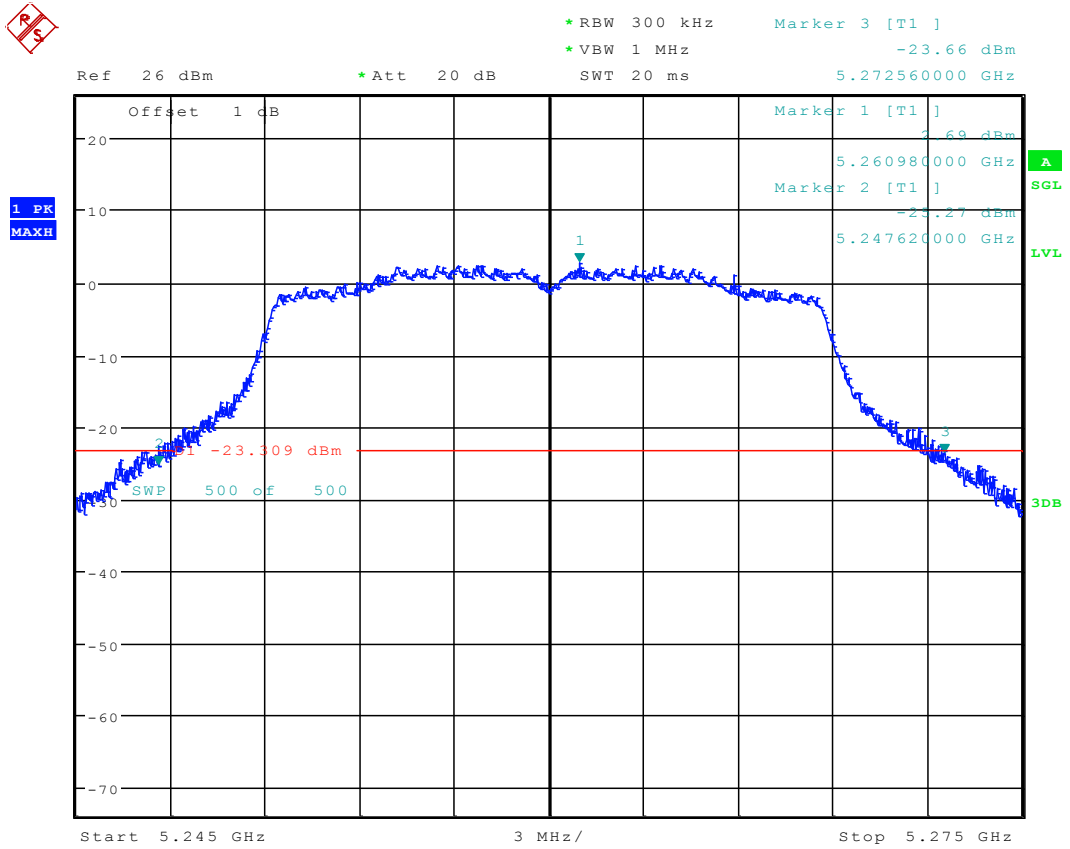


### 3.18 11N20\_48 ANT 2



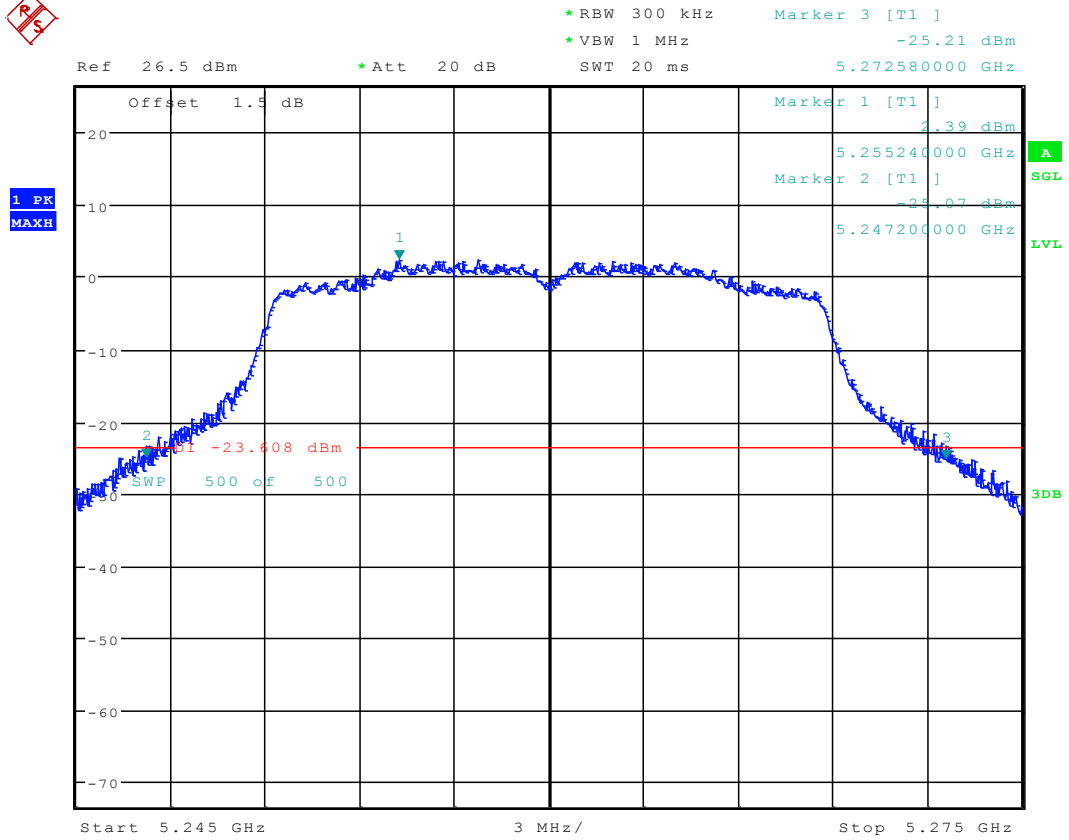
Date: 24.JAN.2018 11:46:16

### 3.19 11N20\_52 ANT 1



Date: 22.JAN.2018 14:56:11

### 3.20 11N20\_52 ANT 2



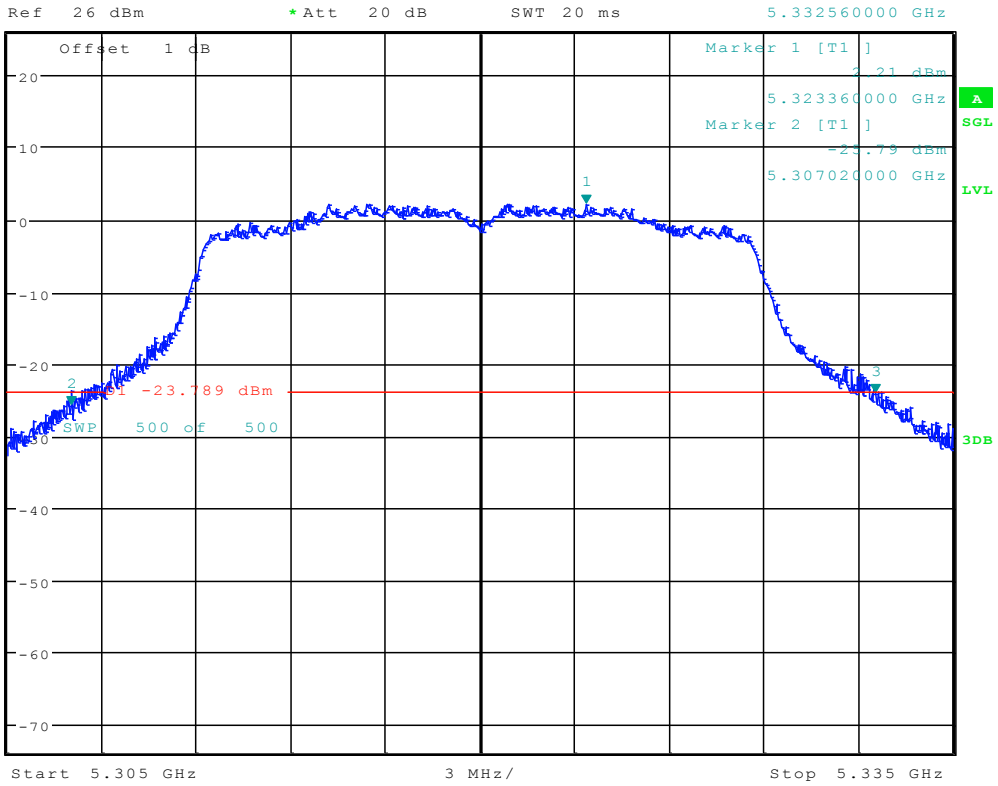
Date: 24.JAN.2018 11:48:51



### 3.21 11N20\_64 ANT 1



\*RBW 300 kHz      Marker 3 [T1 ]  
 \*VBW 1 MHz      -24.10 dBm  
 SWT 20 ms      5.332560000 GHz



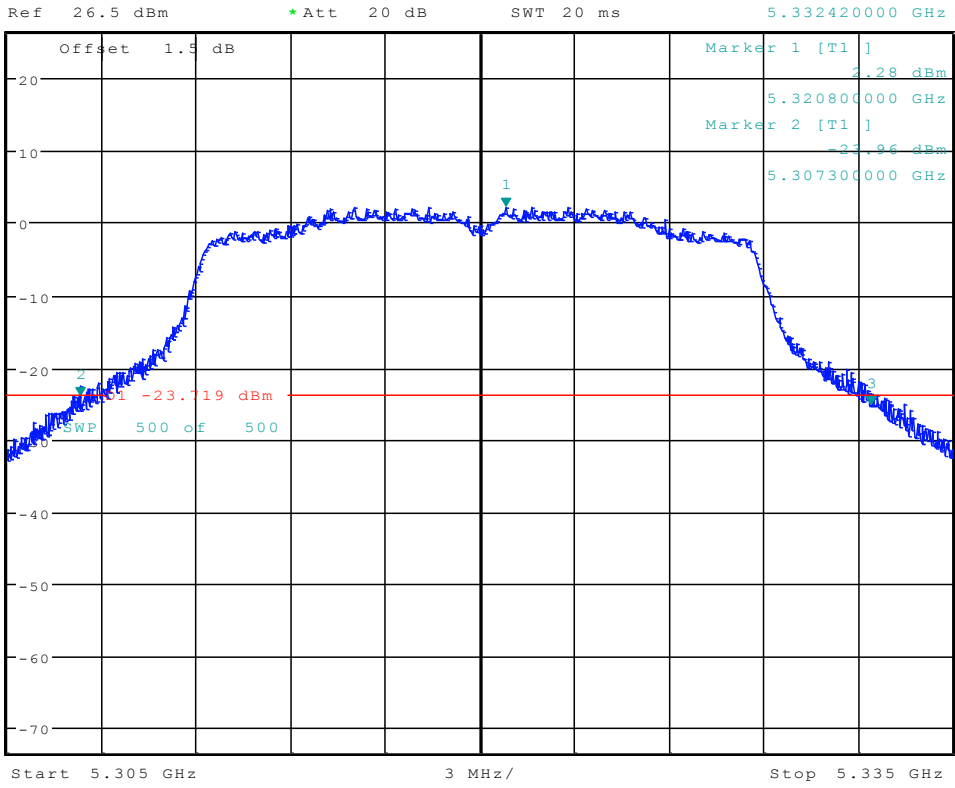
Date: 22.JAN.2018 15:01:17



### 3.22 11N20\_64 ANT 2

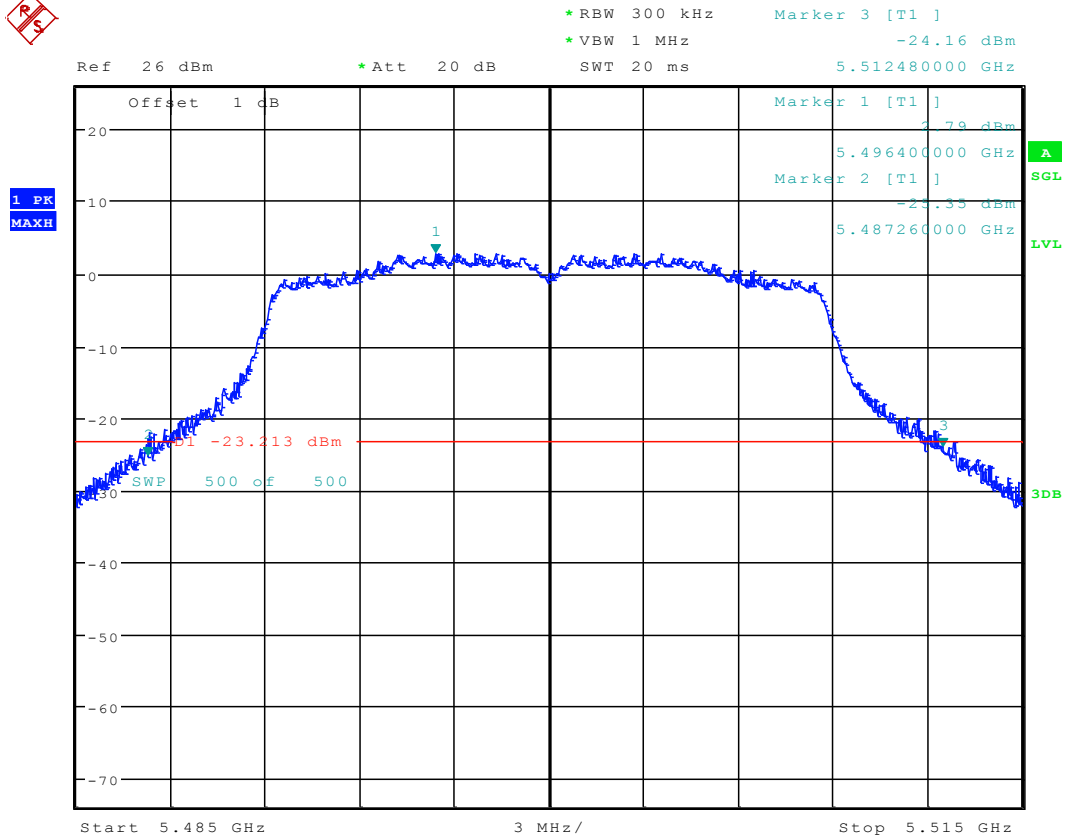


\*RBW 300 kHz      Marker 3 [T1 ]  
 \*VBW 1 MHz      -25.36 dBm  
 SWT 20 ms      5.332420000 GHz



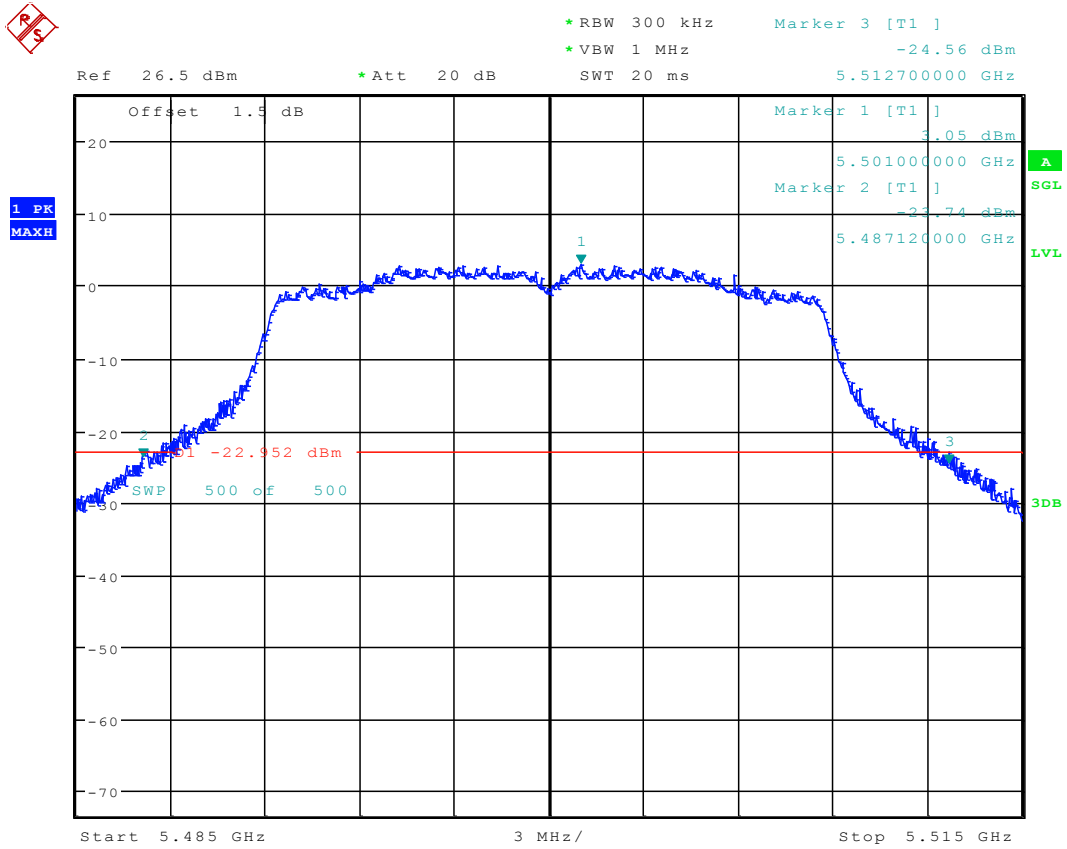
Date: 24.JAN.2018 11:51:31

### 3.23 11N20\_100 ANT 1



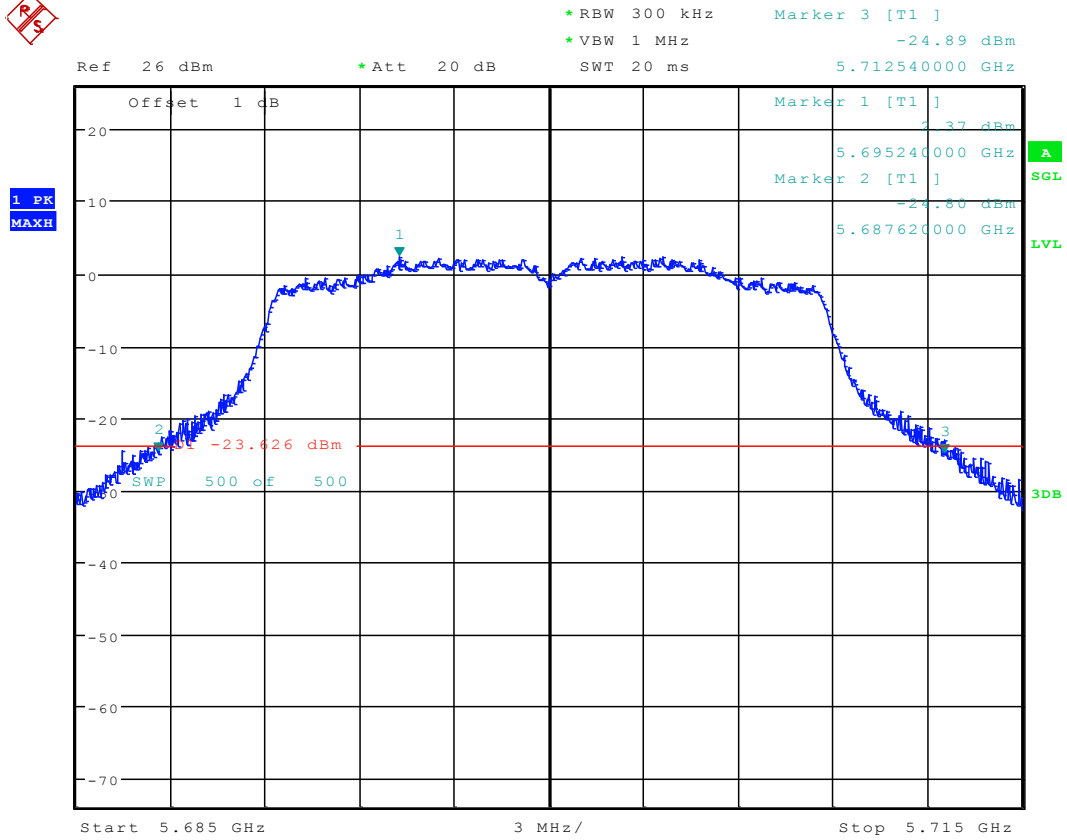
Date: 22.JAN.2018 15:04:23

### 3.24 11N20\_100 ANT 2



Date: 24.JAN.2018 12:03:21

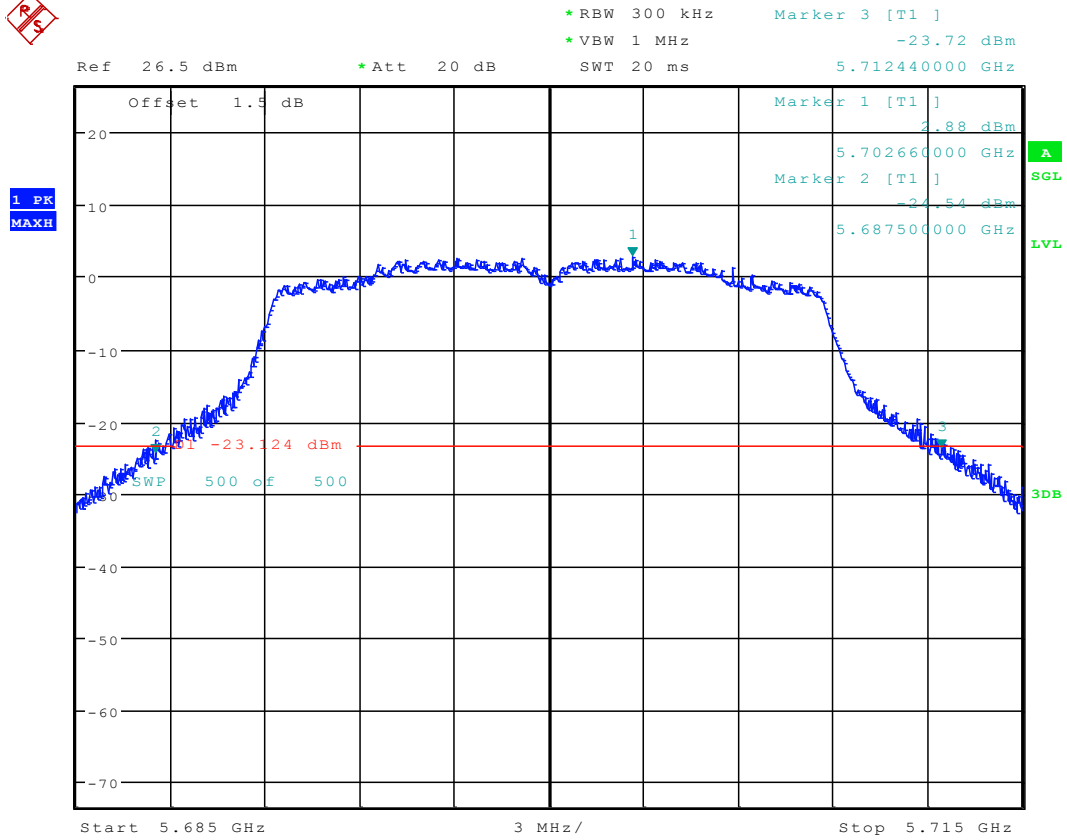
### 3.25 11N20\_140 ANT 1



Date: 22.JAN.2018 15:07:34

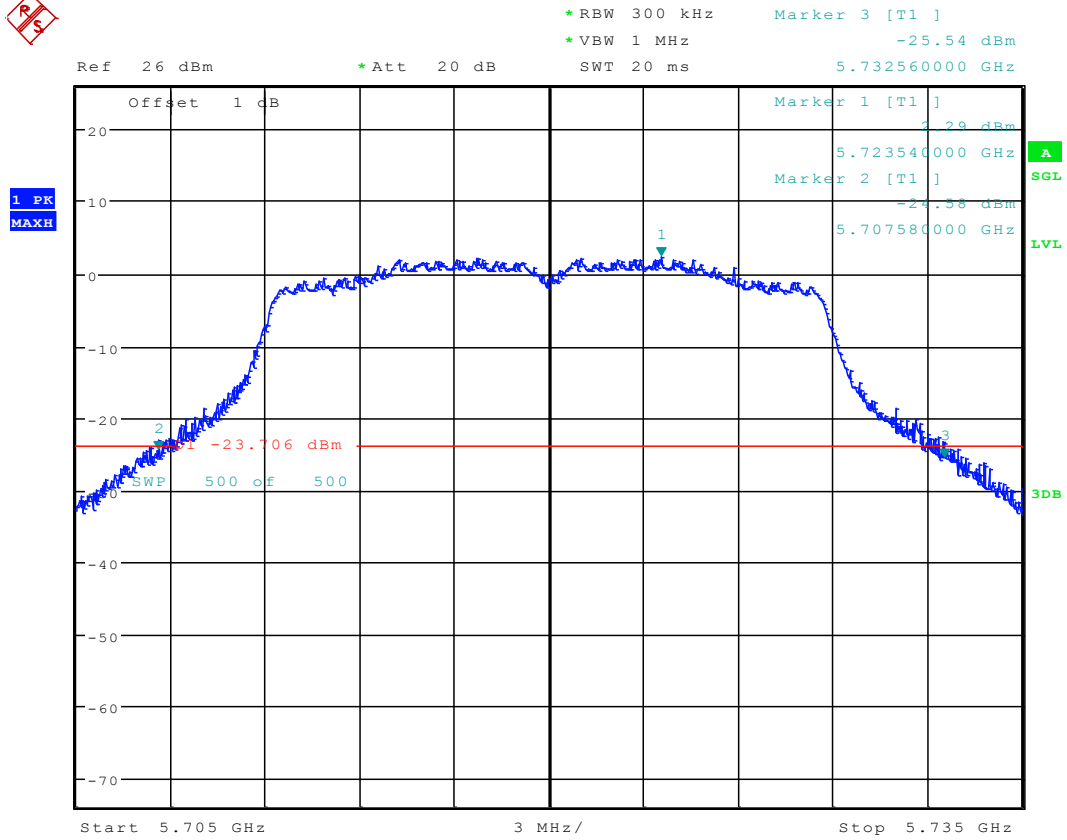


### 3.26 11N20\_140 ANT 2



Date: 24.JAN.2018 13:34:20

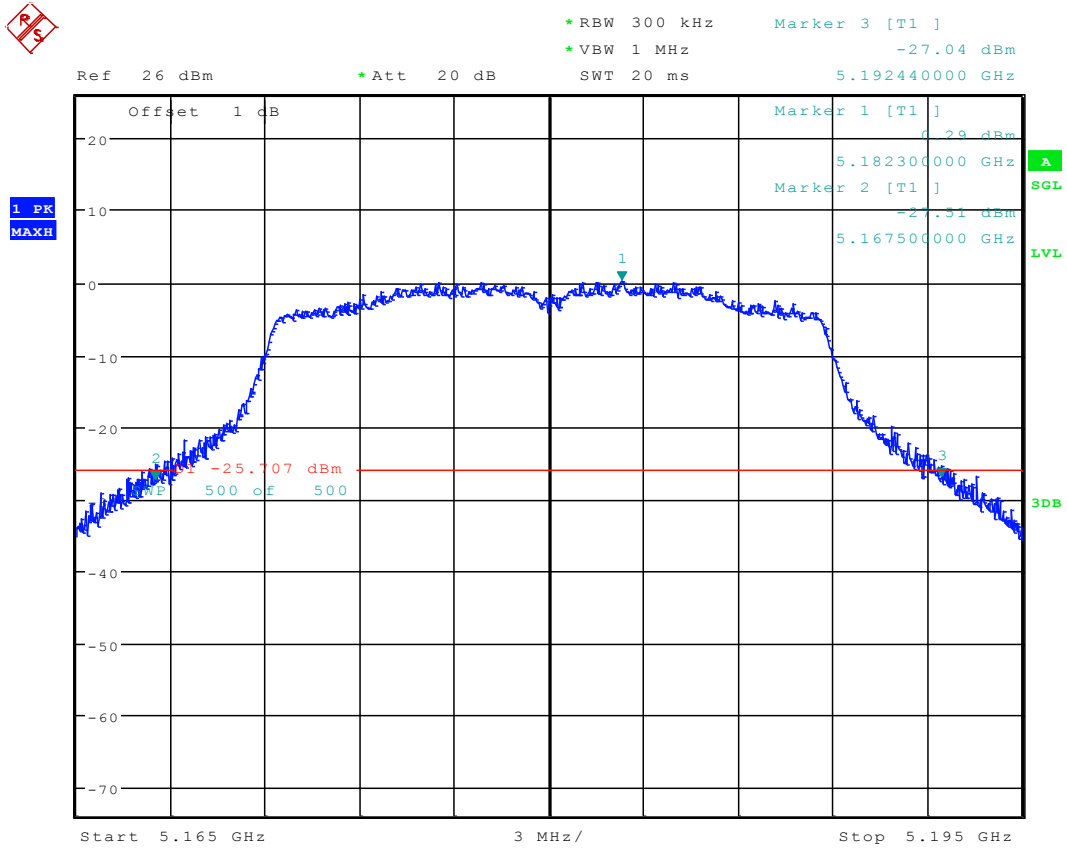
### 3.27 11N20\_144 ANT 1



Date: 22.JAN.2018 15:11:04



### 3.29 11N20MIMO\_36 ANT 1

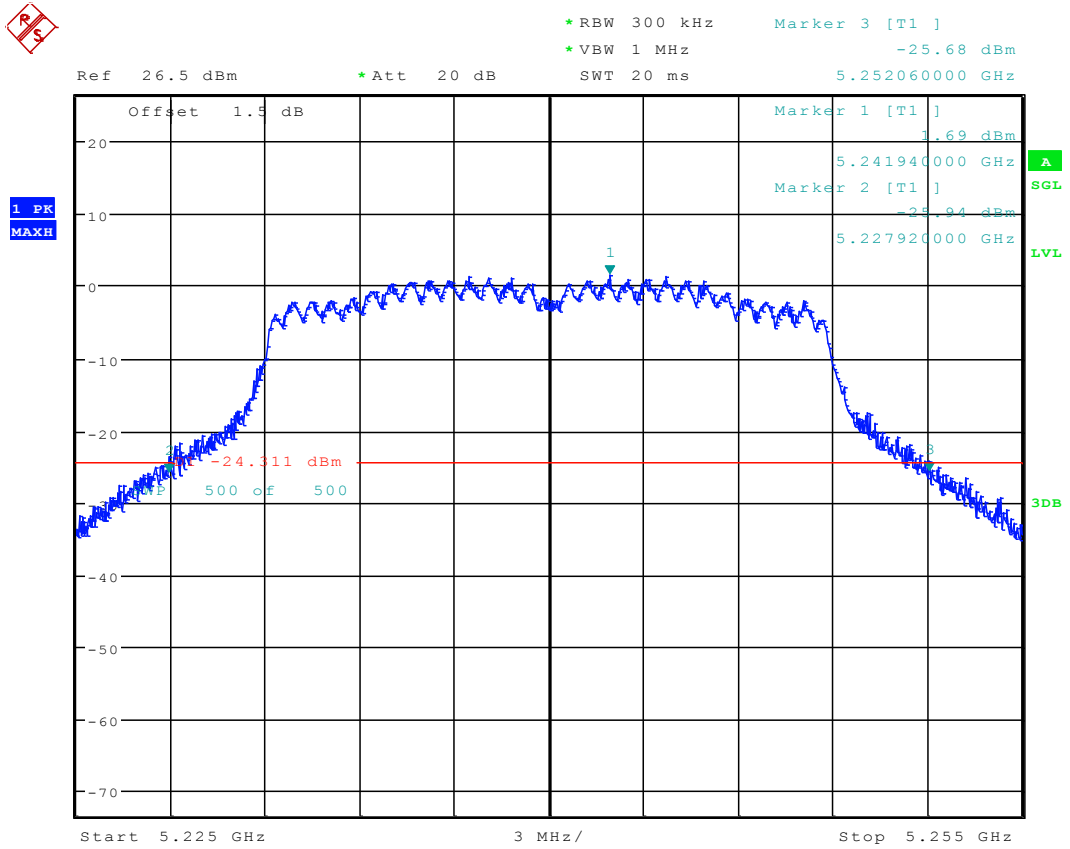


Date: 23.JAN.2018 14:44:34





### 3.32 11N20MIMO\_48 ANT 2

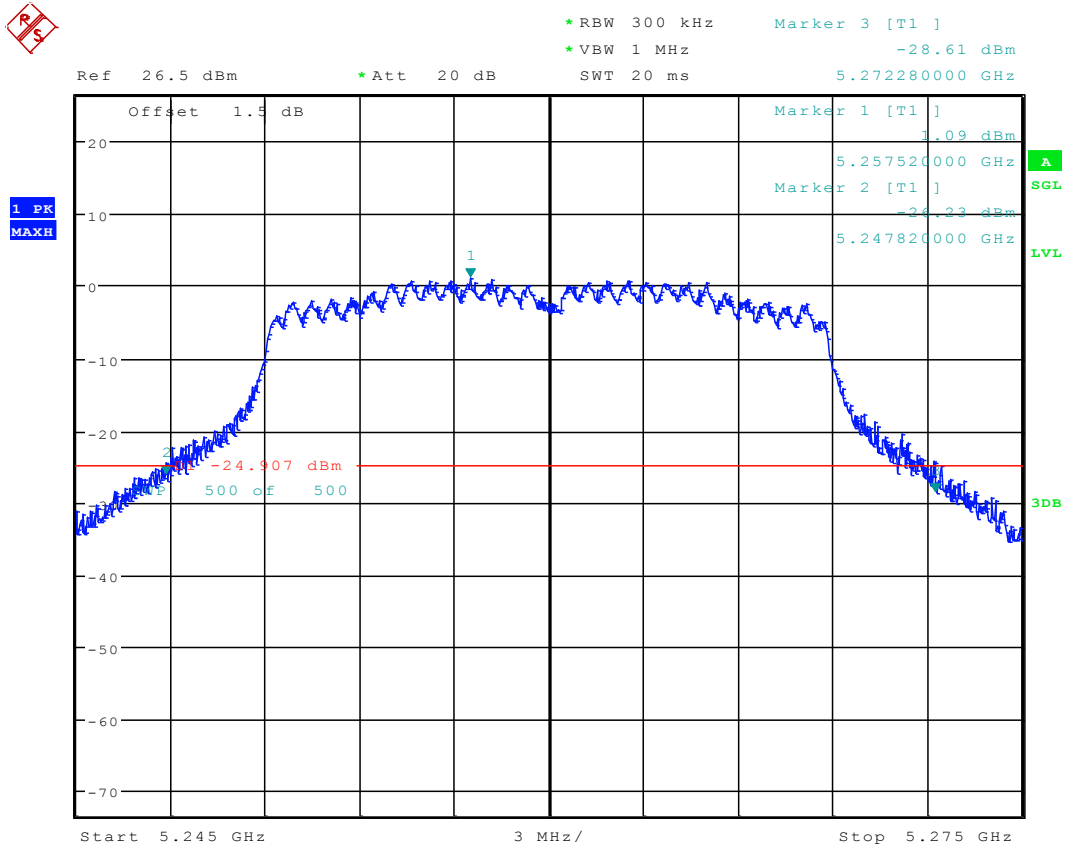


Date: 26.JAN.2018 14:15:38



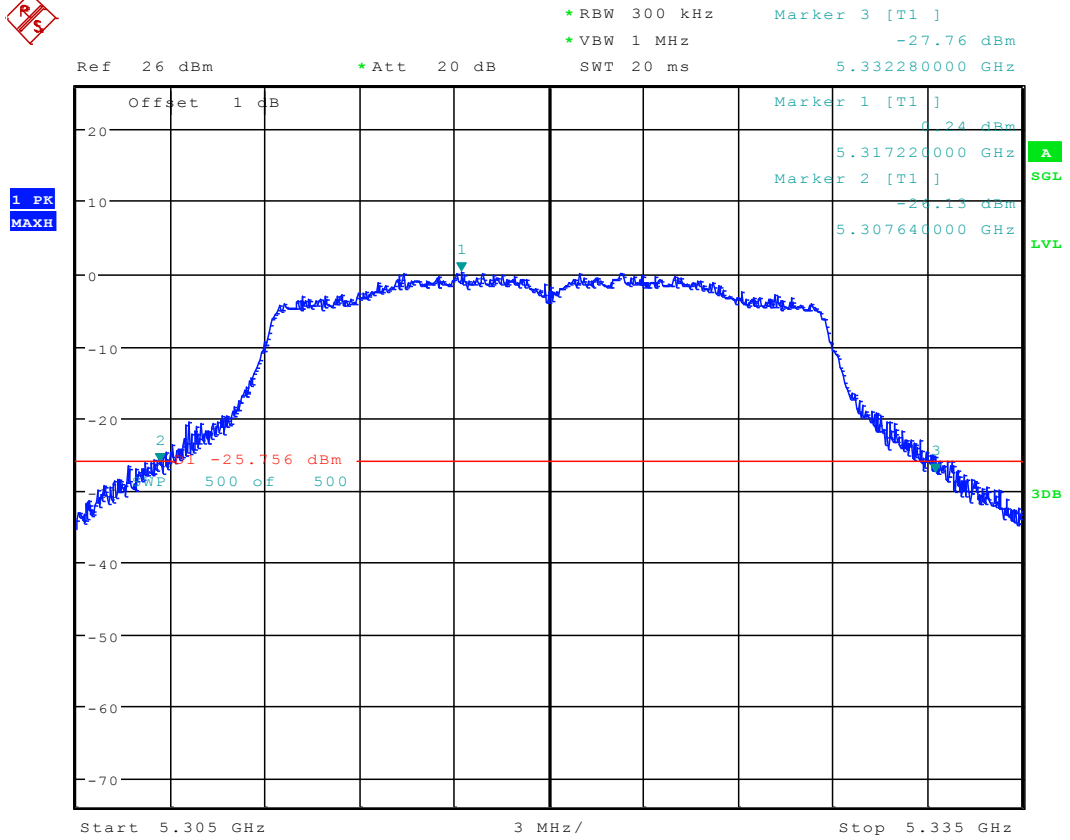


### 3.34 11N20MIMO\_52 ANT 2



Date: 26.JAN.2018 14:18:07

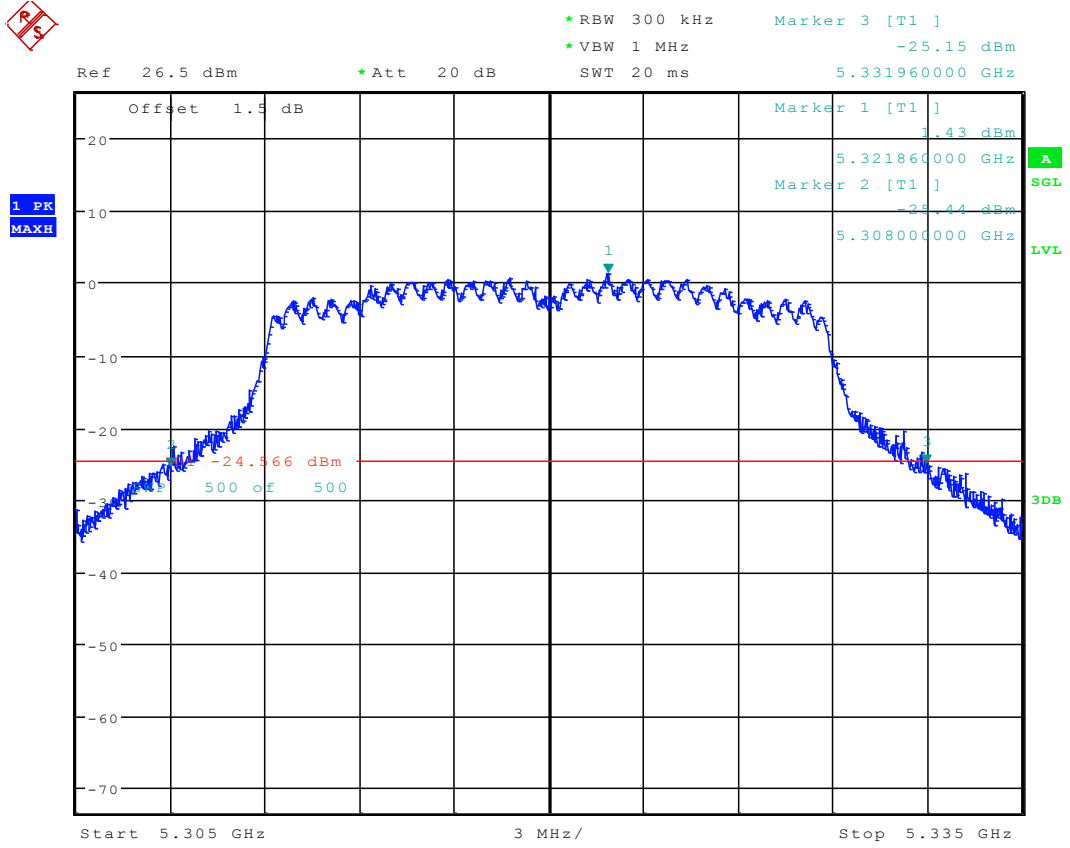
## 3.35 11N20MIMO\_64 ANT 1



Date: 23.JAN.2018 14:52:40

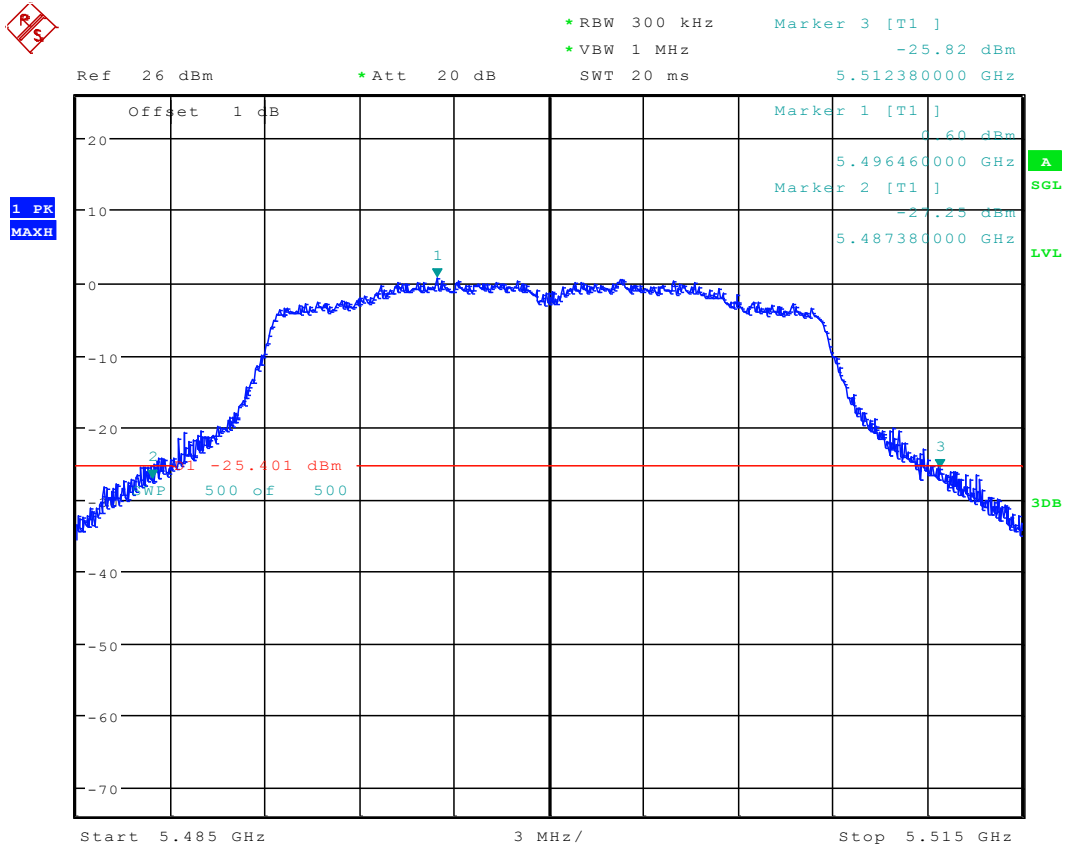


### 3.36 11N20MIMO\_64 ANT 2



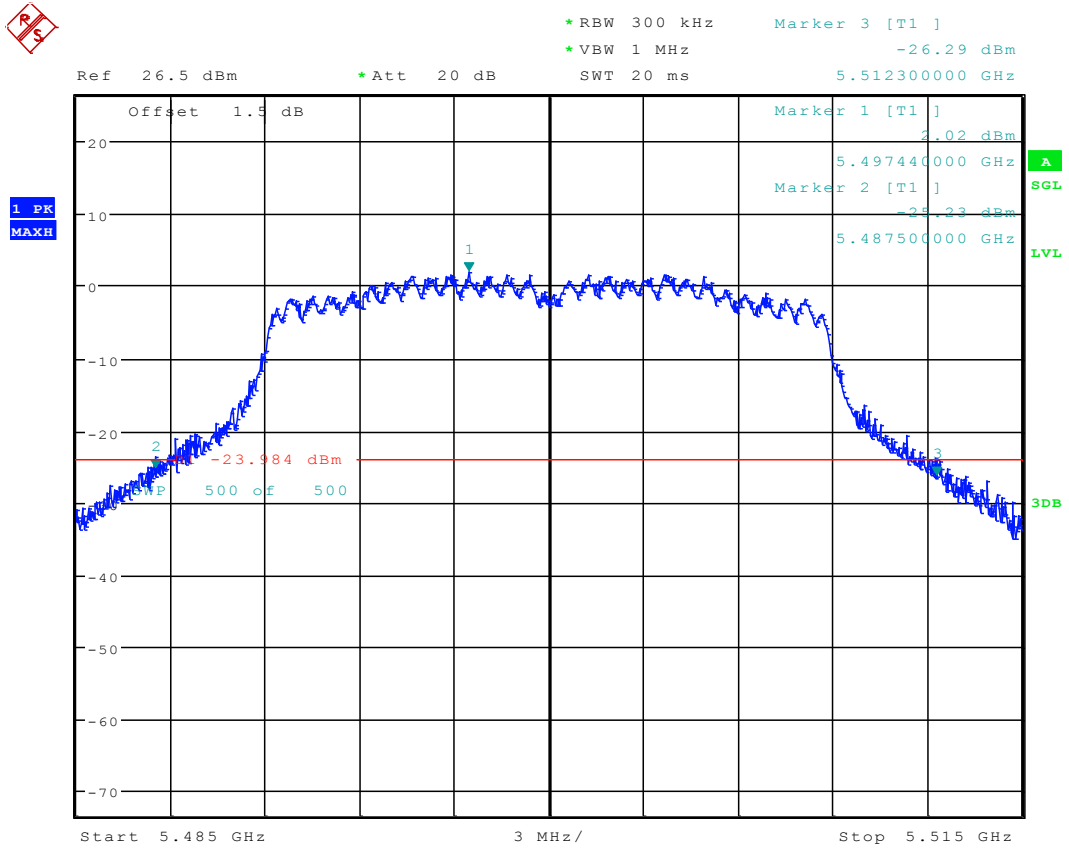
Date: 26.JAN.2018 14:21:13

### 3.37 11N20MIMO\_100 ANT 1



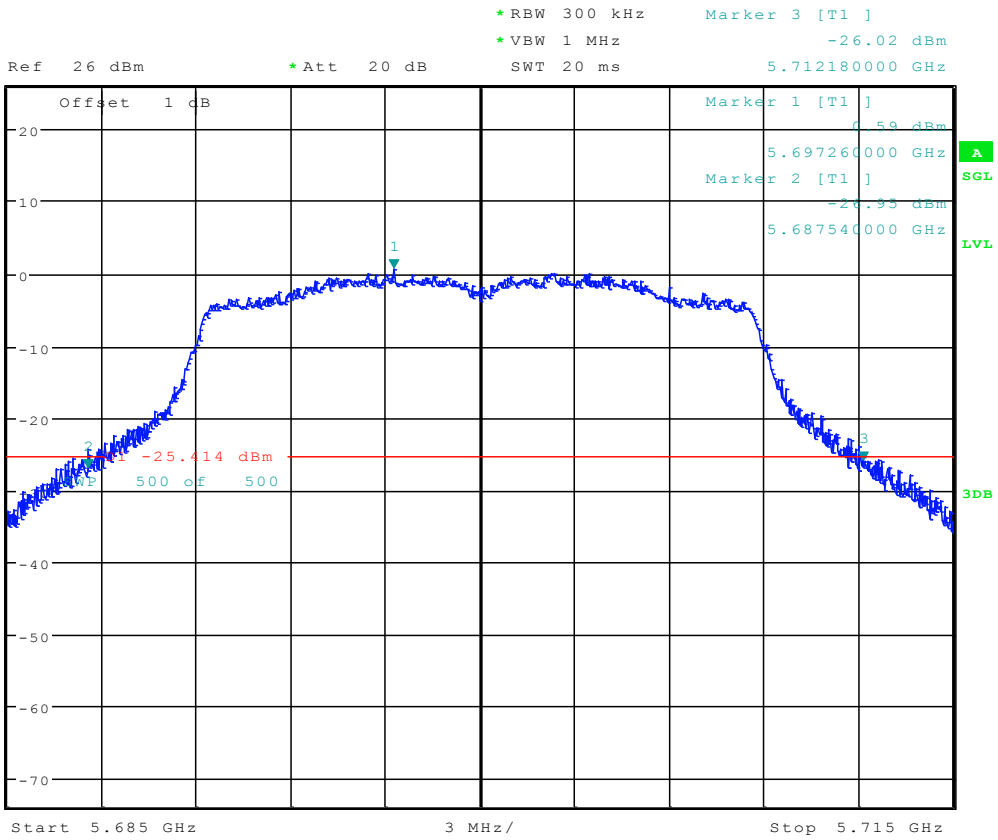
Date: 23.JAN.2018 14:55:15

### 3.38 11N20MIMO\_100 ANT 2



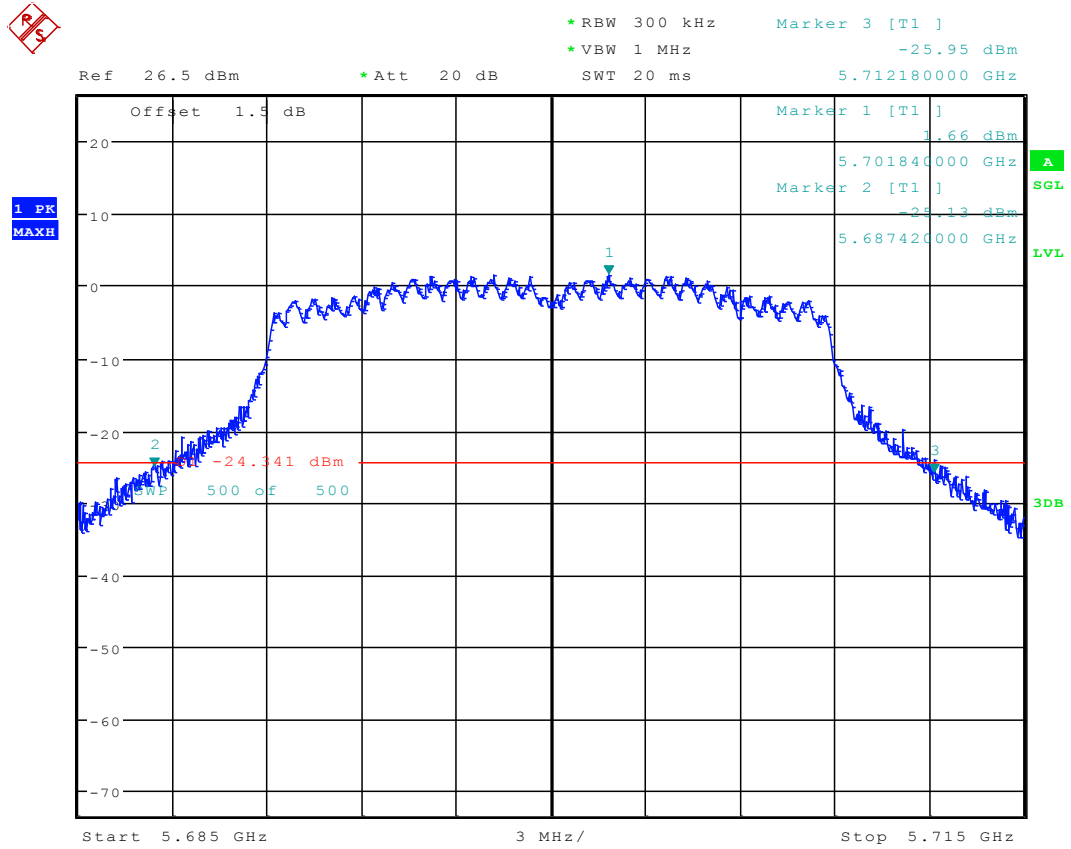
Date: 26.JAN.2018 14:32:06

### 3.39 11N20MIMO\_140 ANT 1



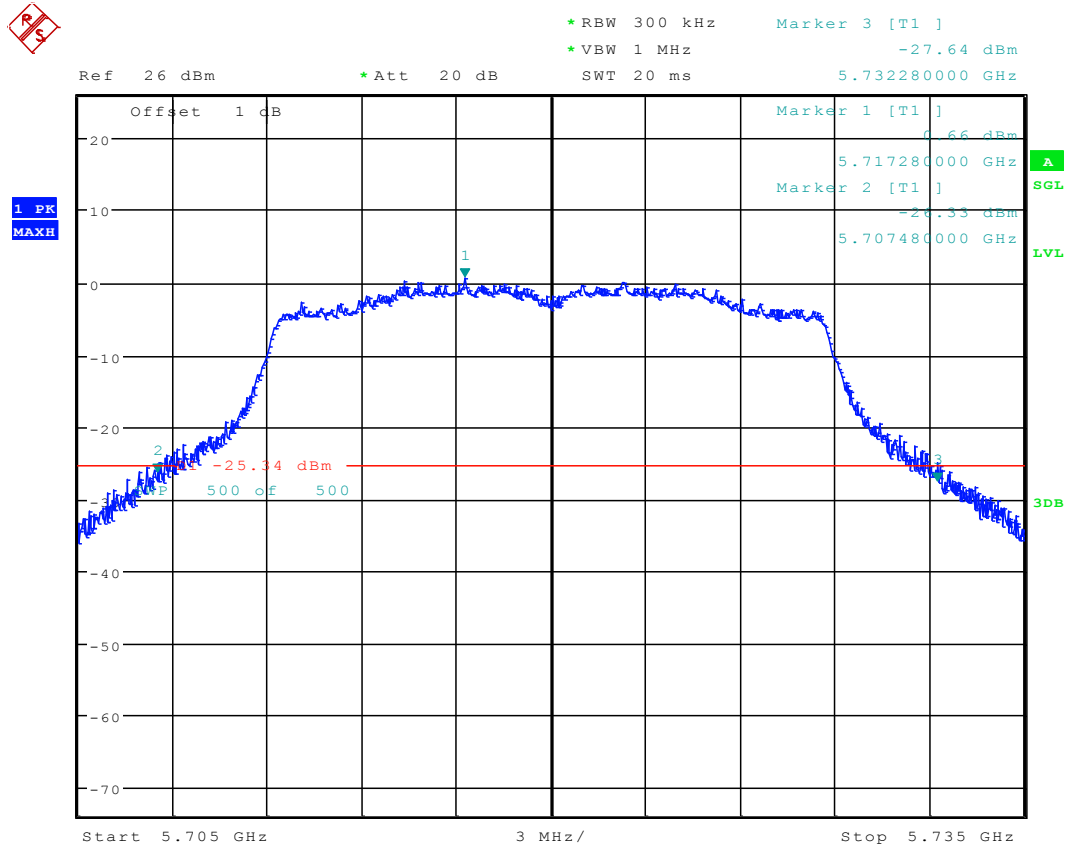
Date: 23.JAN.2018 14:57:52

## 3.40 11N20MIMO\_140 ANT 2



Date: 26.JAN.2018 14:34:40

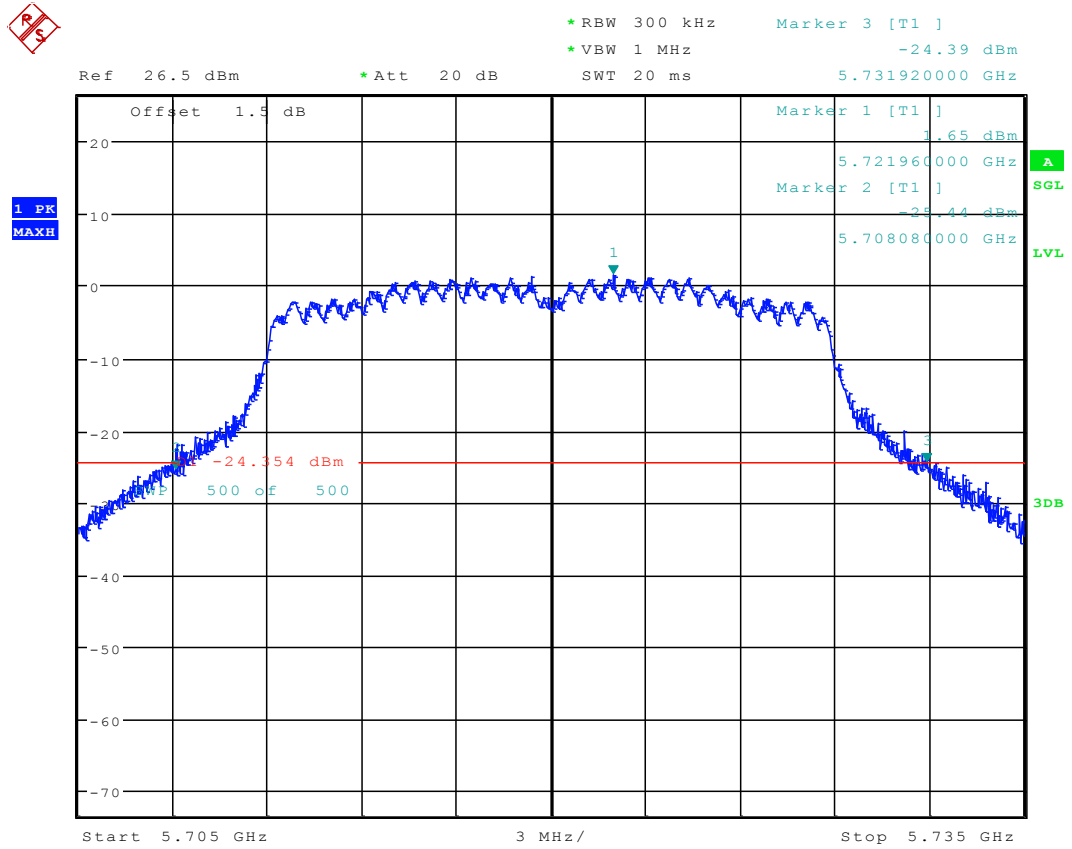
### 3.41 11N20MIMO\_144 ANT 1



Date: 23.JAN.2018 15:02:58

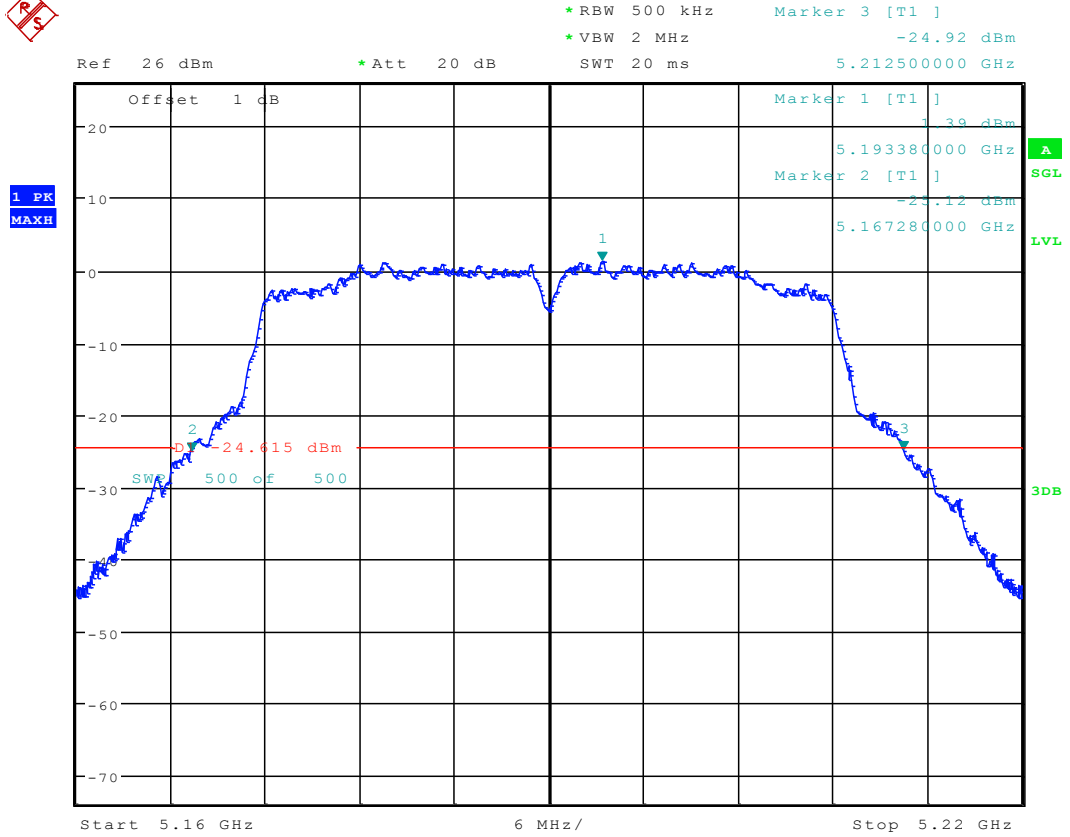


## 3.42 11N20MIMO\_144 ANT 2



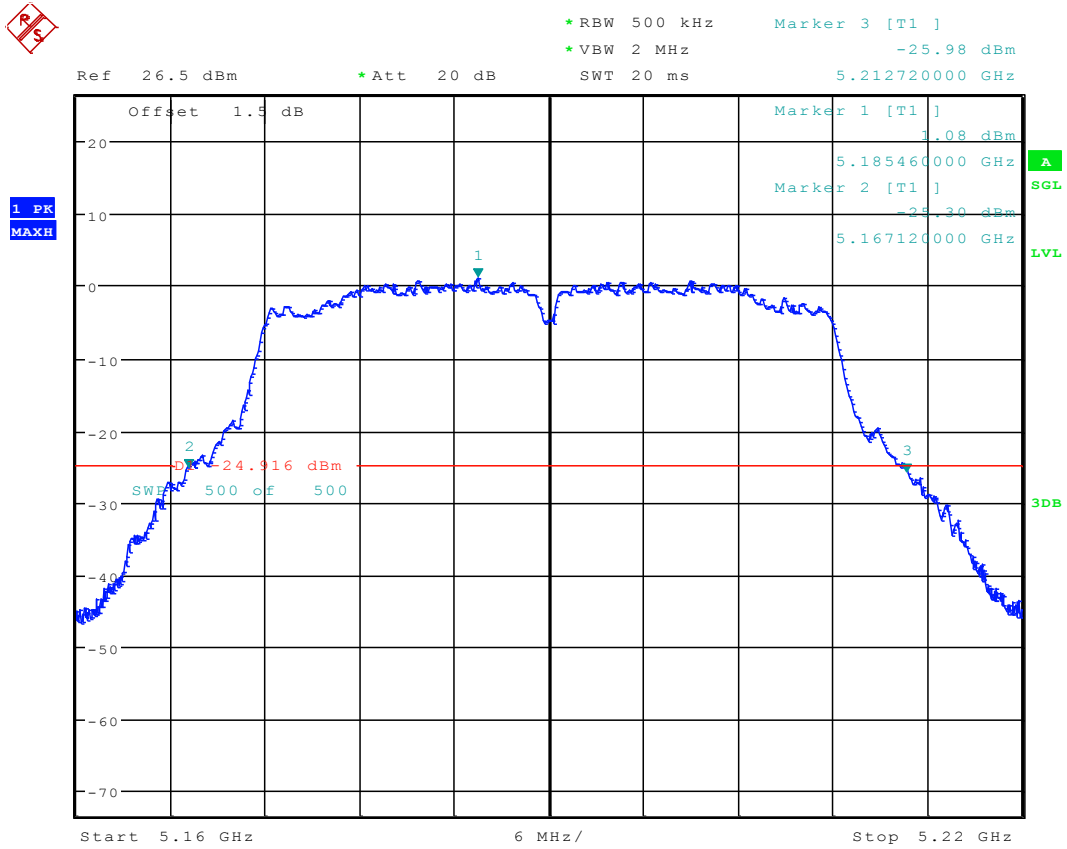
Date: 26.JAN.2018 14:37:30

### 3.43 11N40\_38 ANT 1



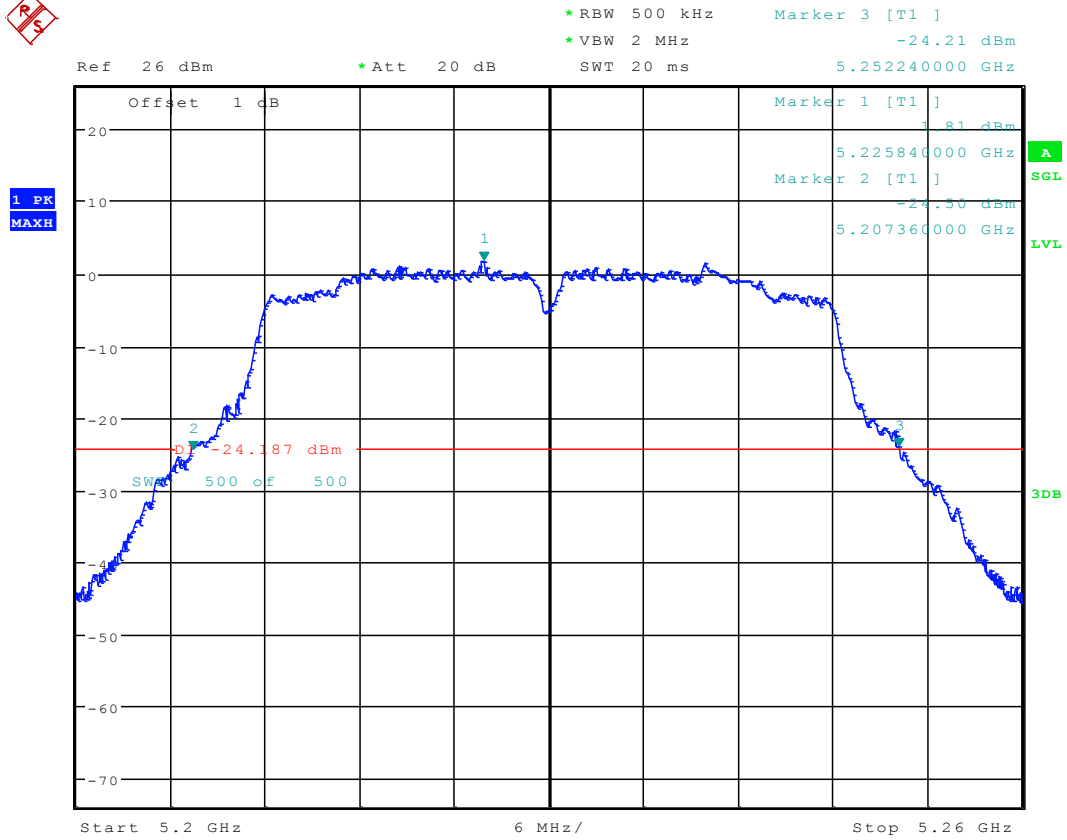
Date: 22.JAN.2018 16:04:35

### 3.44 11N40\_38 ANT 2



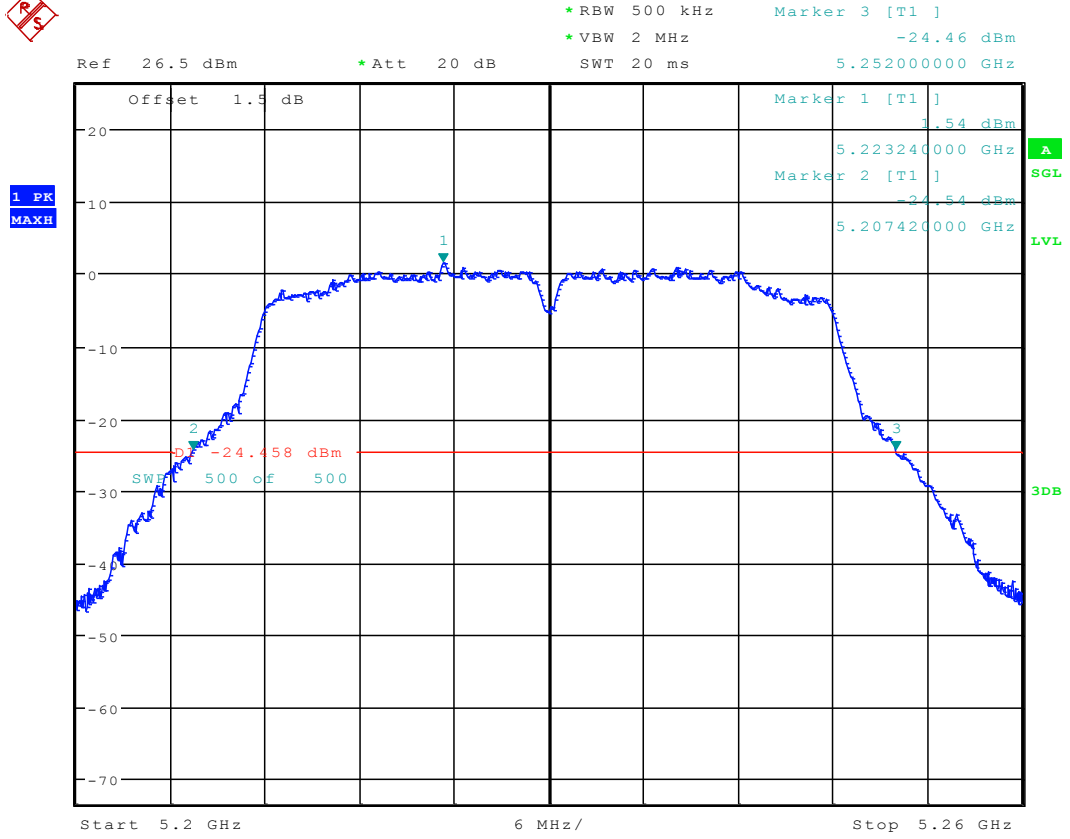
Date: 24.JAN.2018 15:08:16

### 3.45 11N40\_46 ANT 1



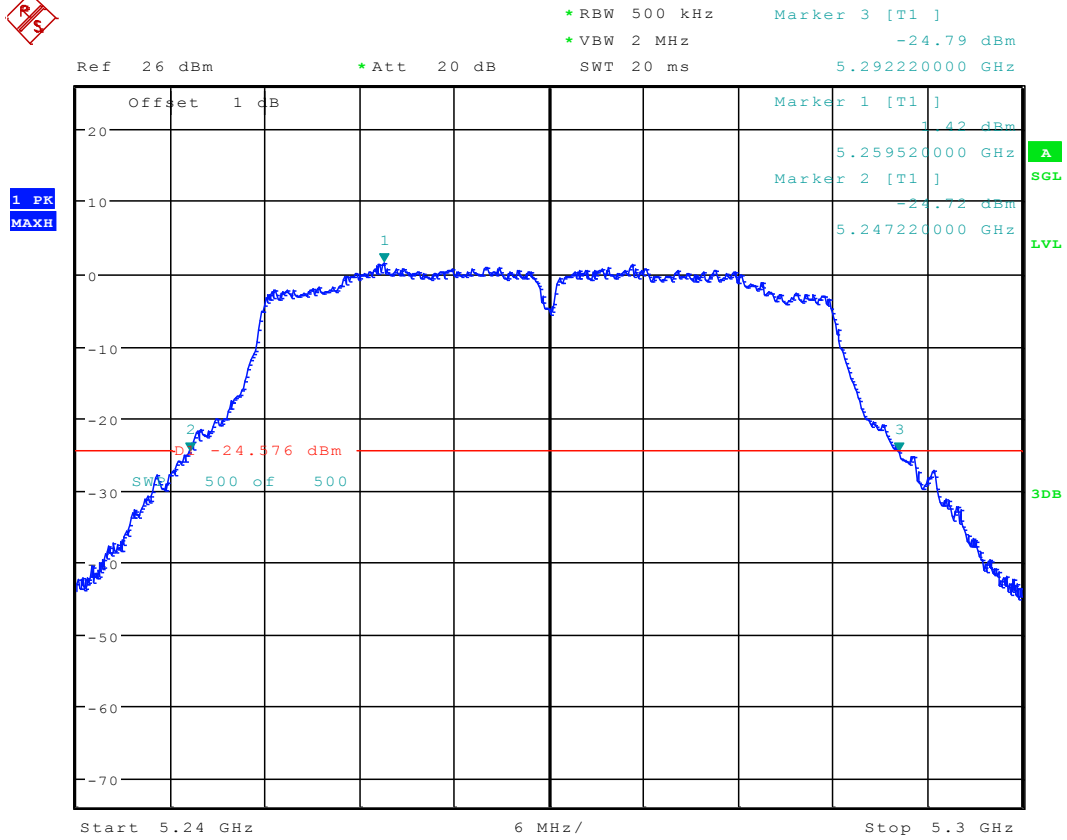
Date: 22.JAN.2018 16:07:24

### 3.46 11N40\_46 ANT 2



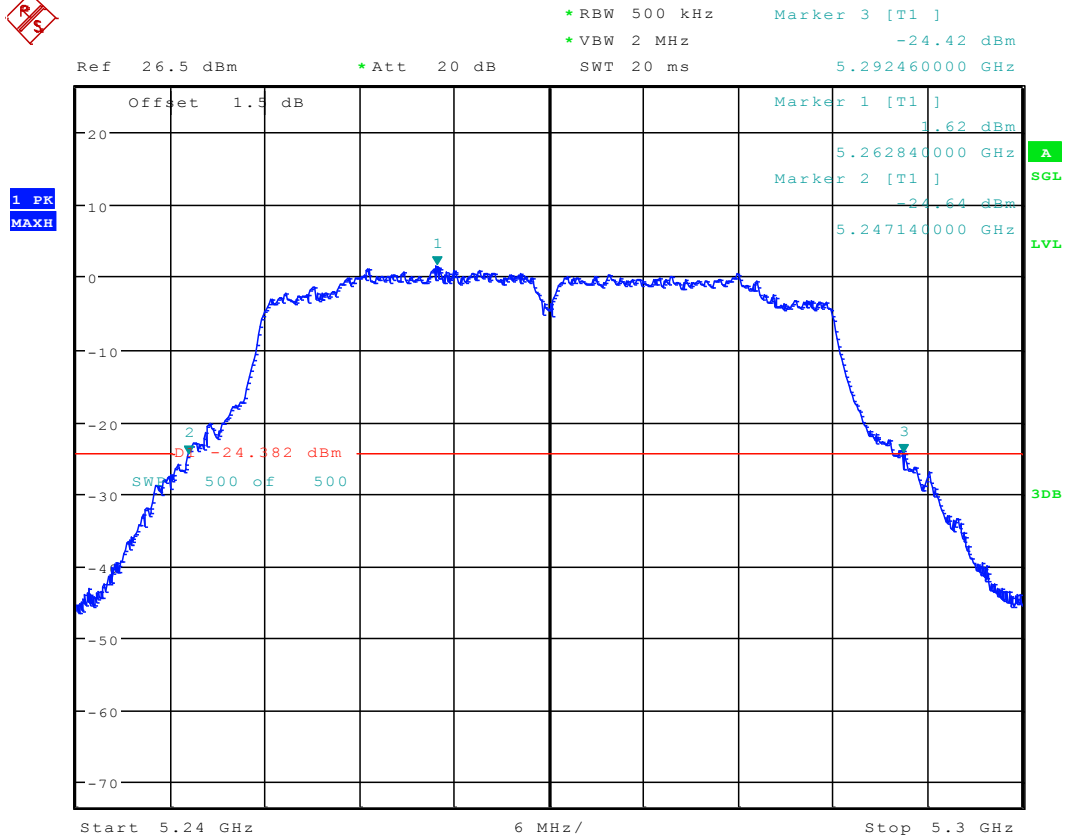
Date: 24.JAN.2018 15:11:02

### 3.47 11N40\_54 ANT 1



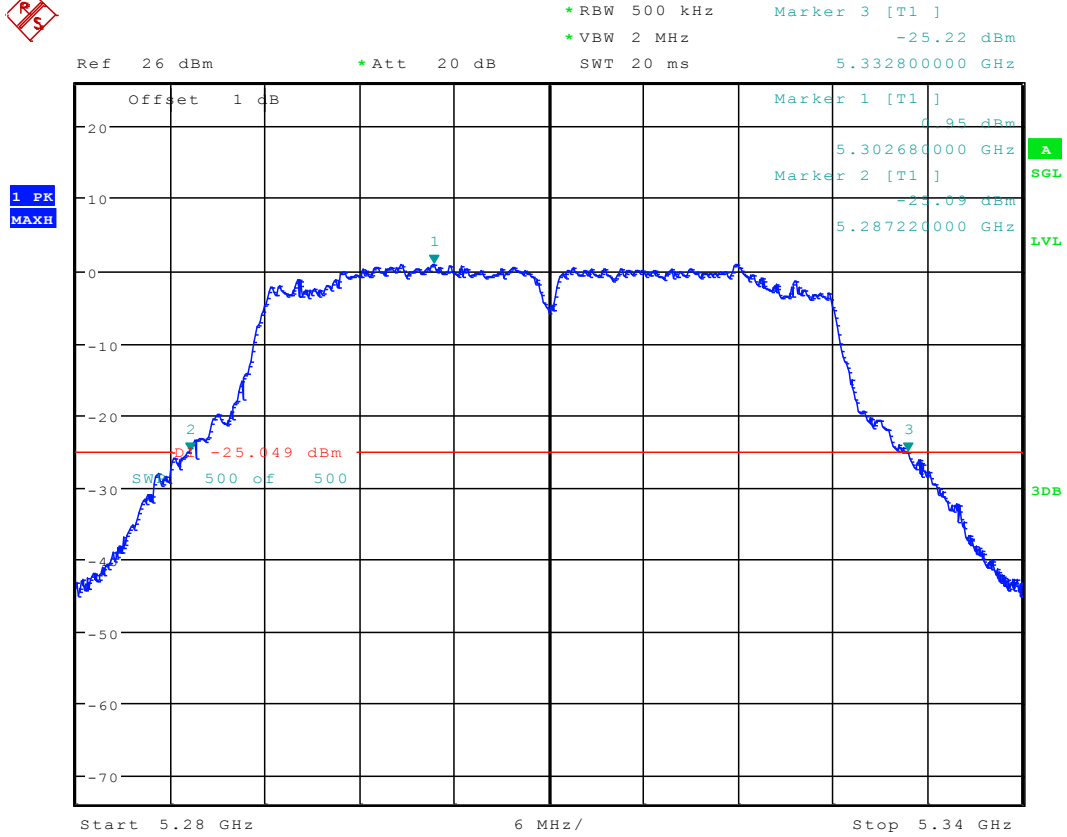
Date: 22.JAN.2018 16:10:13

### 3.48 11N40\_54 ANT 2



Date: 24.JAN.2018 15:13:46

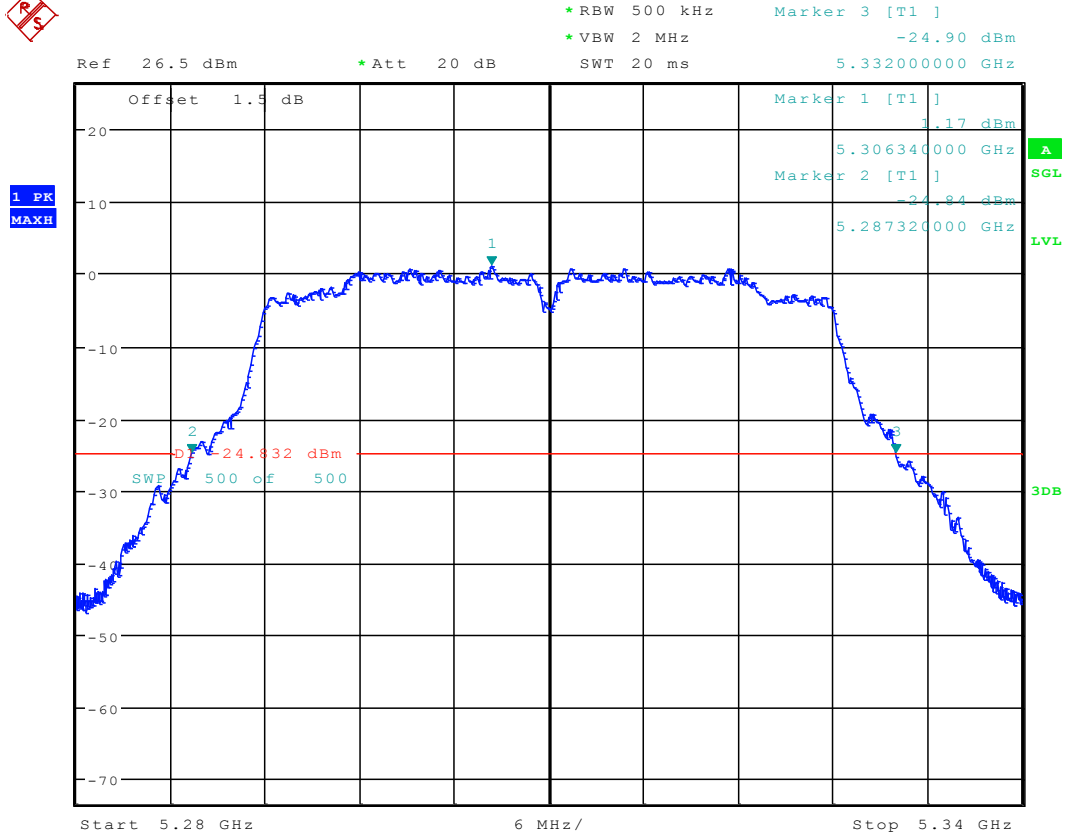
### 3.49 11N40\_62 ANT 1



Date: 22.JAN.2018 16:13:05

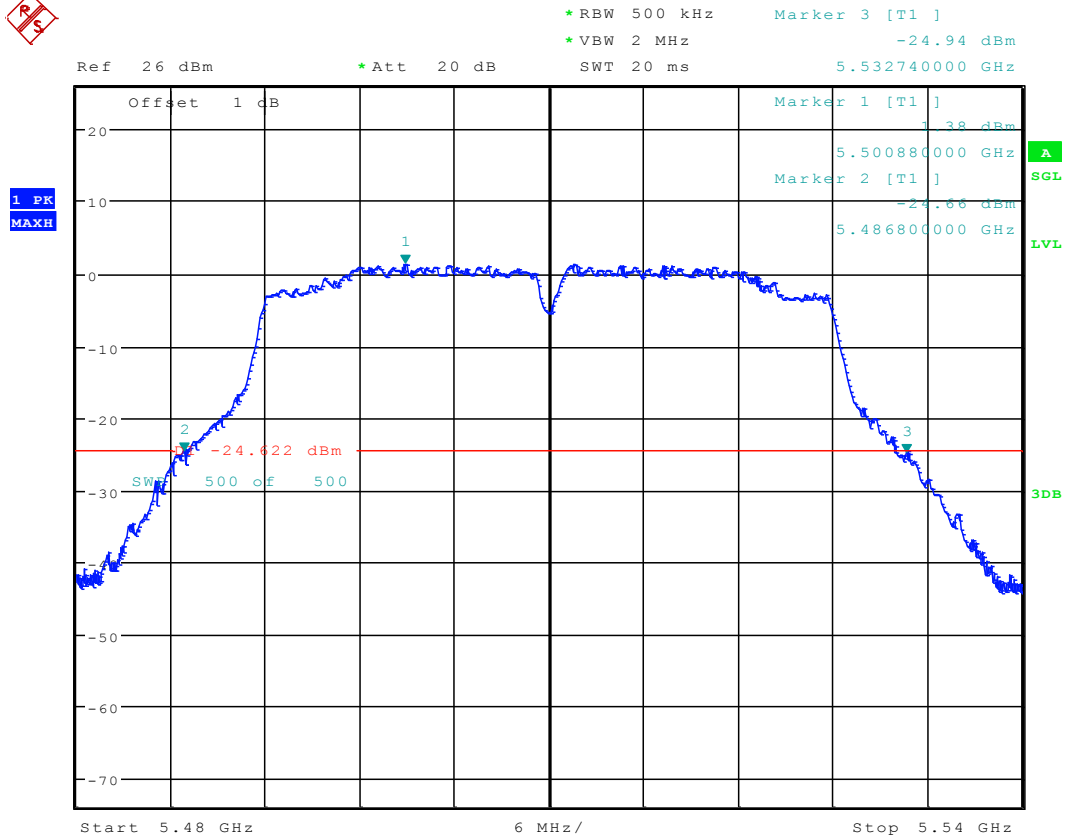


### 3.50 11N40\_62 ANT 2



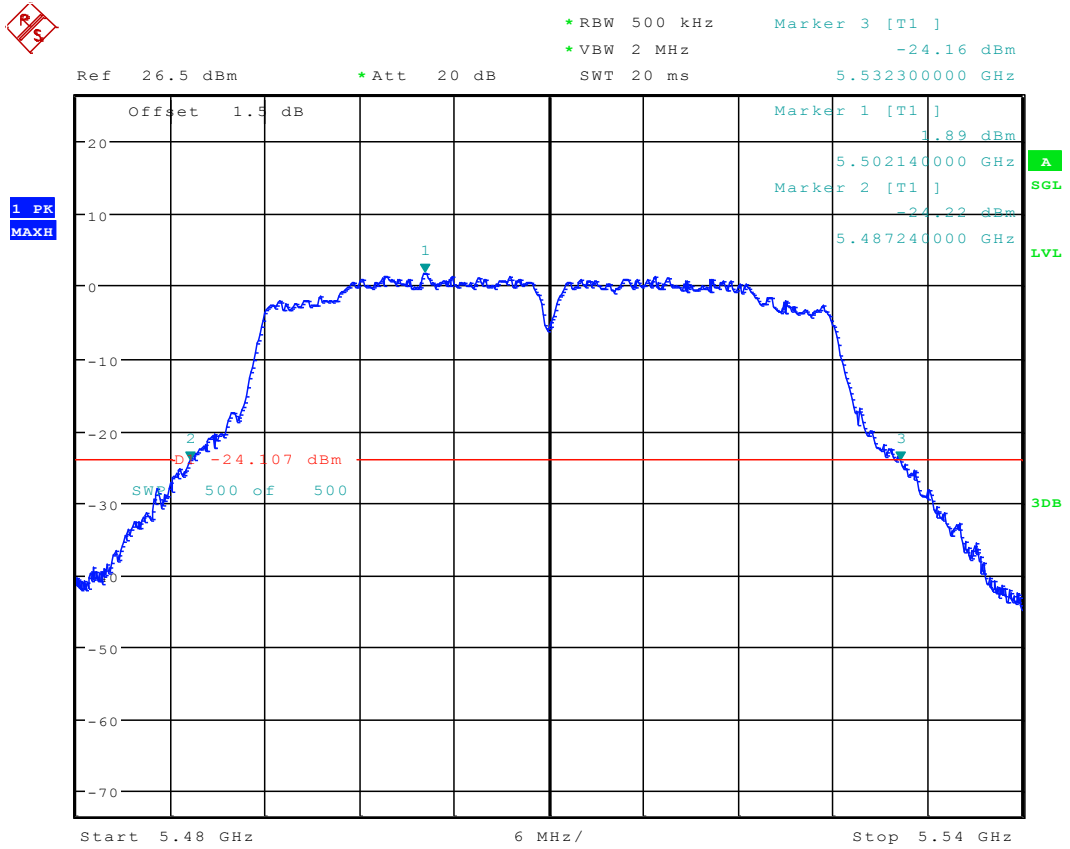
Date: 24.JAN.2018 15:16:19

### 3.51 11N40\_102 ANT 1



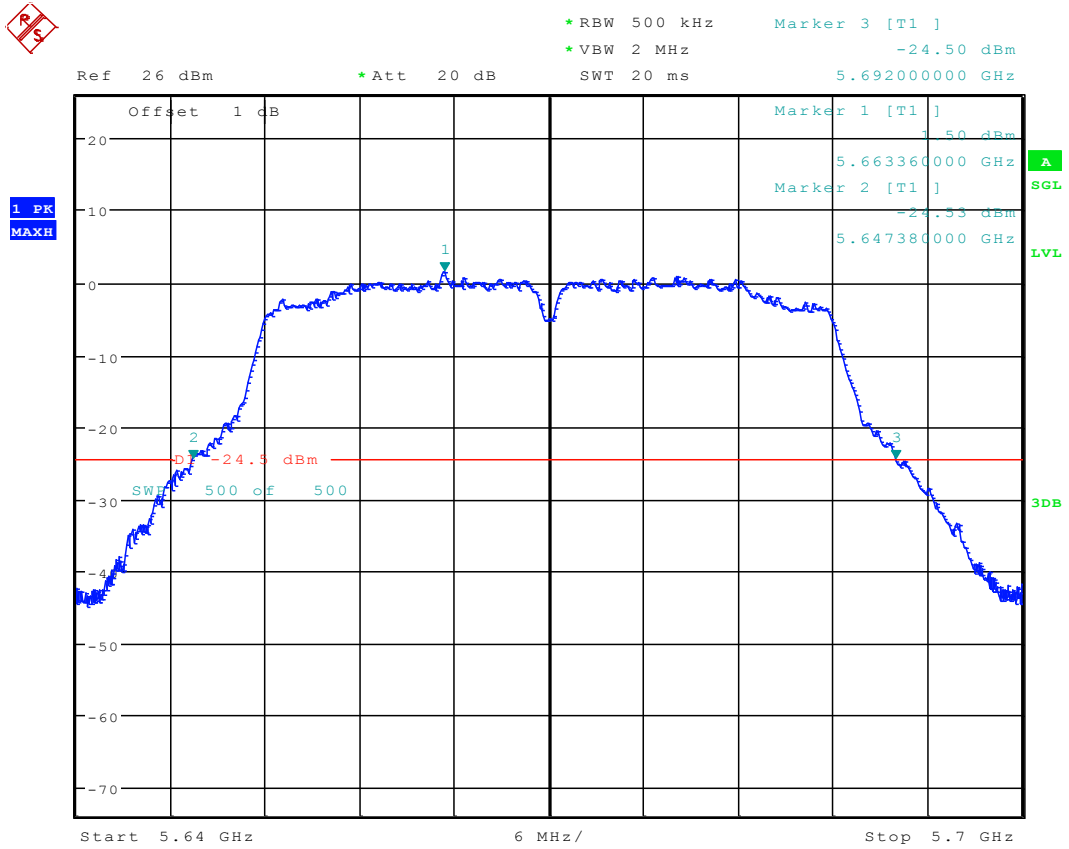
Date: 22.JAN.2018 16:15:39

### 3.52 11N40\_102 ANT 2



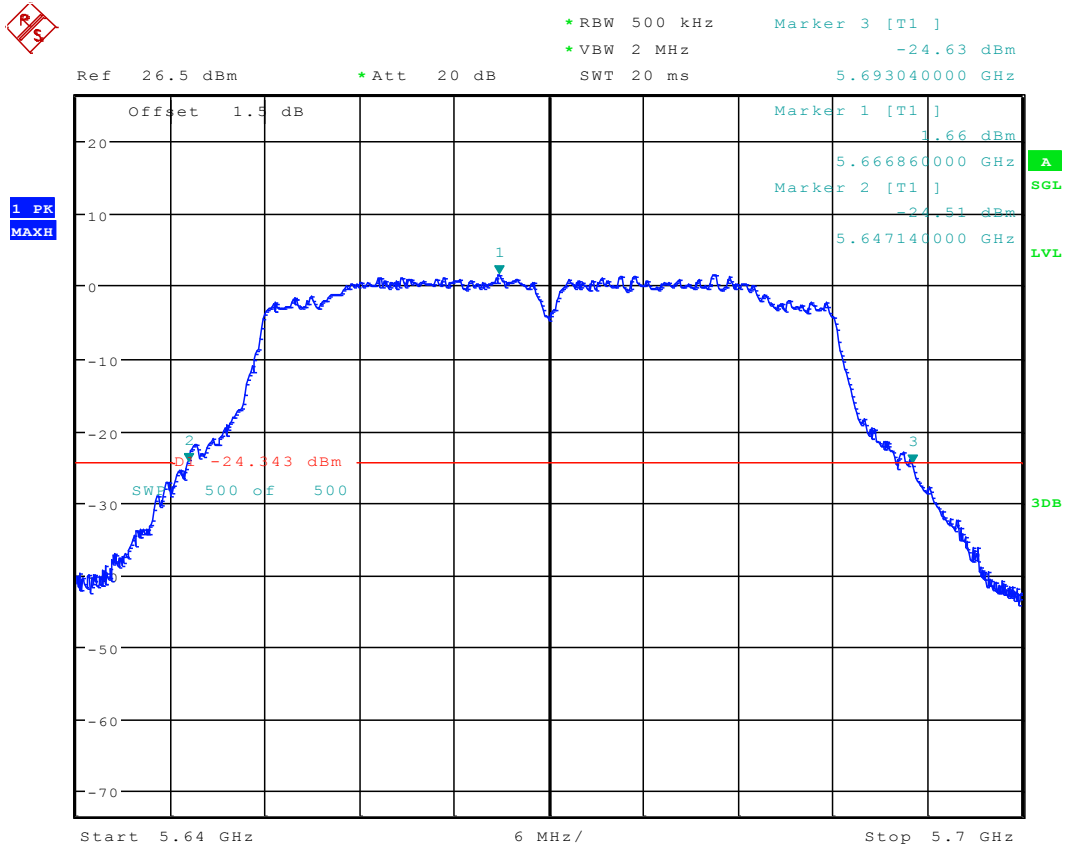
Date: 24.JAN.2018 15:18:55

## 3.53 11N40\_134 ANT 1



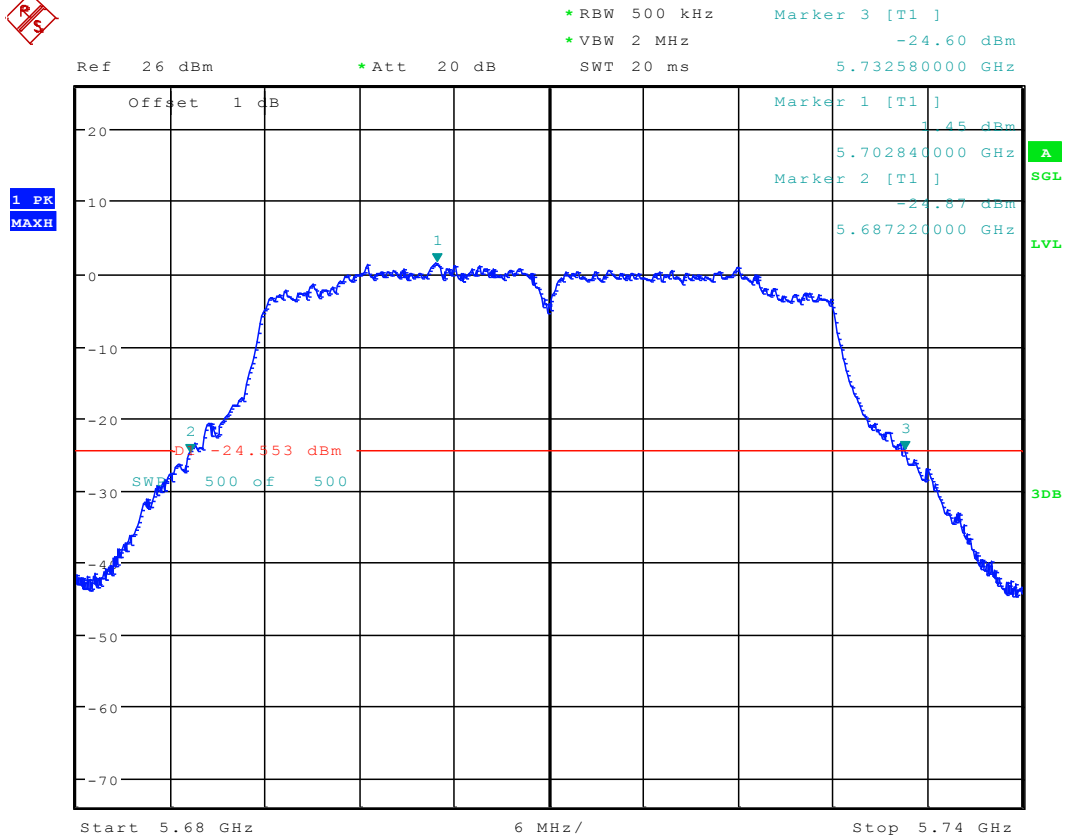
Date: 22.JAN.2018 16:18:20

### 3.54 11N40\_134 ANT 2



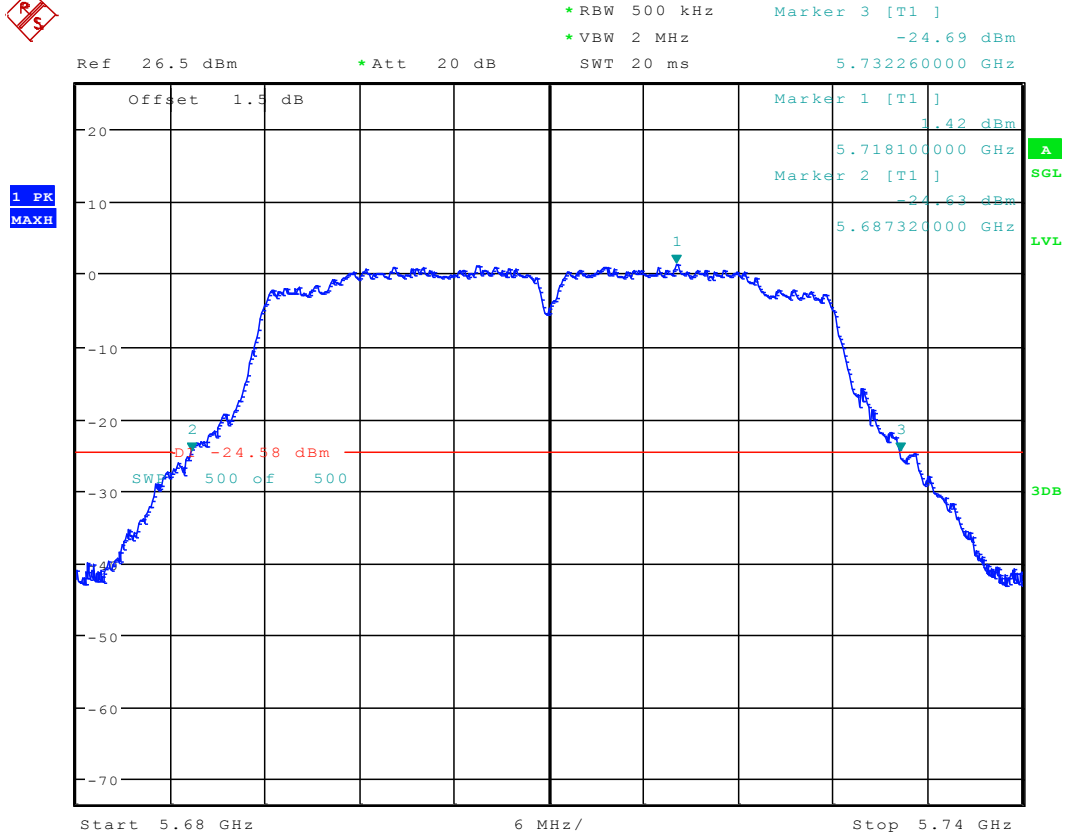
Date: 24.JAN.2018 15:32:01

### 3.55 11N40\_142 ANT 1



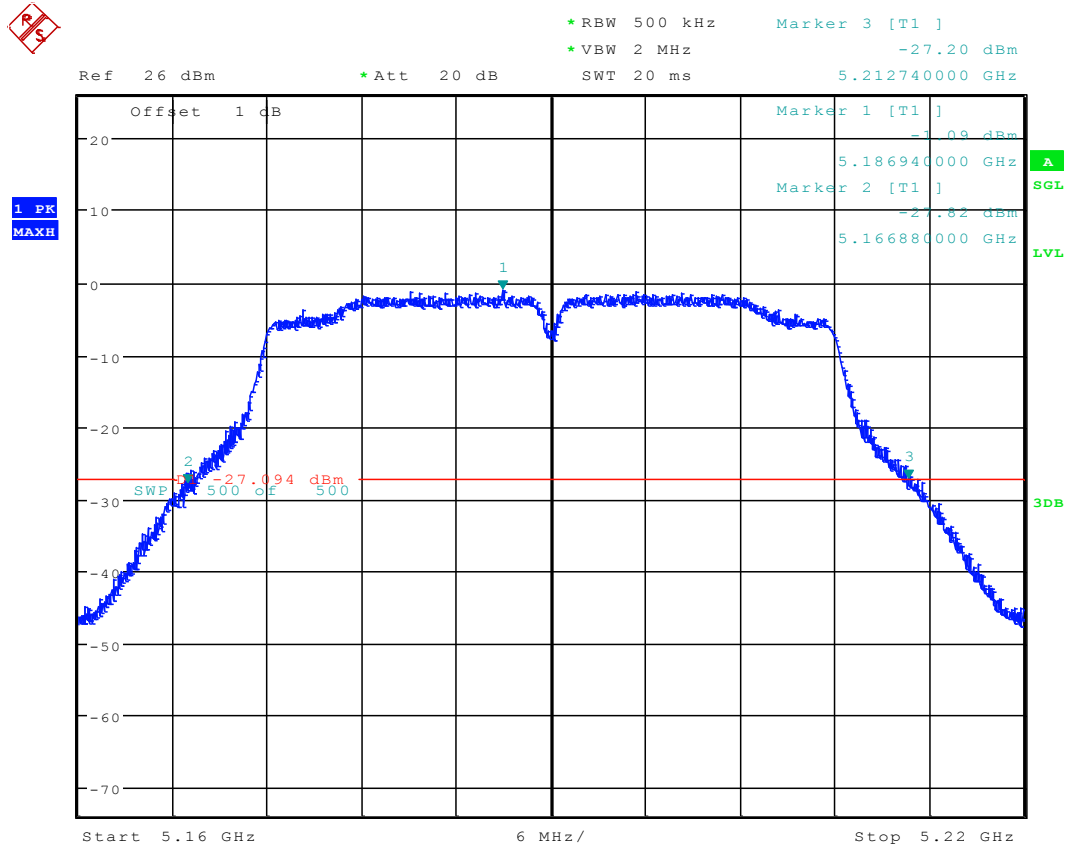
Date: 22.JAN.2018 16:26:14

### 3.56 11N40\_142 ANT 2



Date: 24.JAN.2018 15:34:27

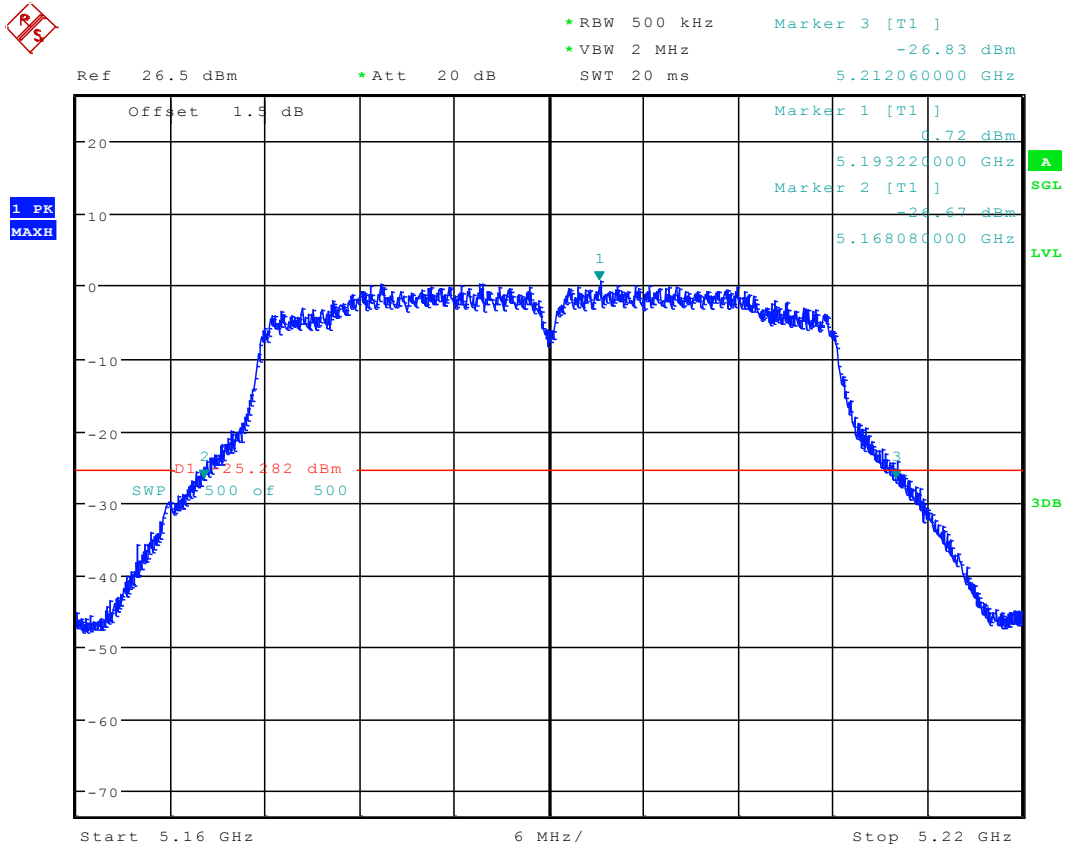
## 3.57 11N40MIMO\_38 ANT 1



Date: 23.JAN.2018 15:12:37



### 3.58 11N40MIMO\_38 ANT 2



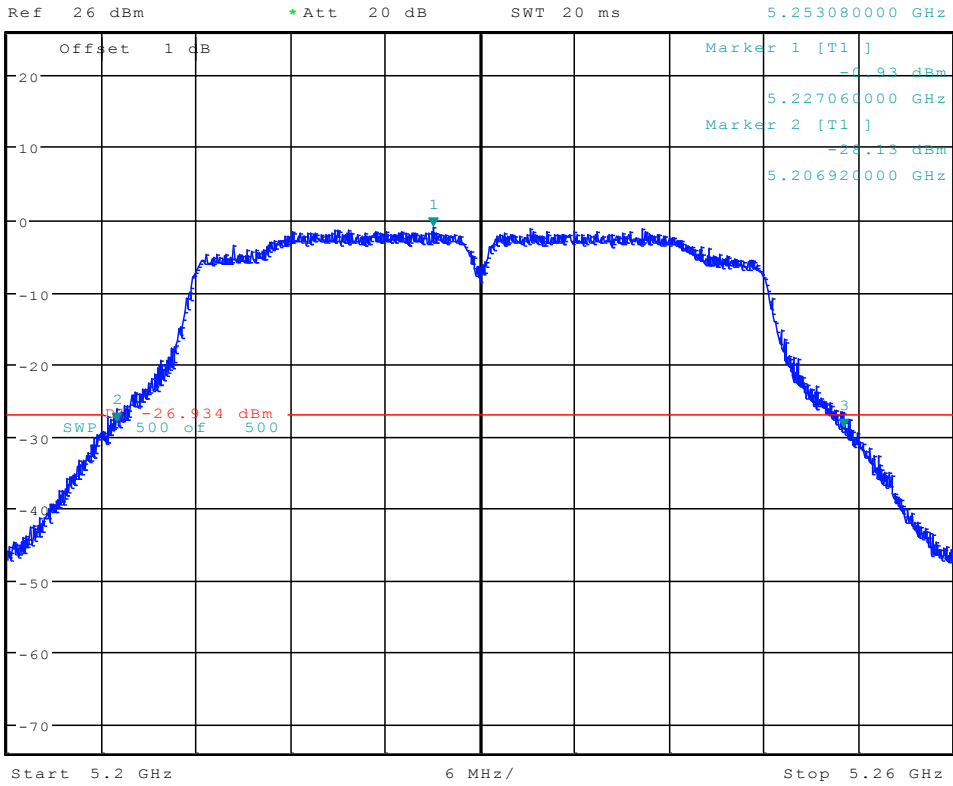
Date: 26.JAN.2018 15:27:49



### 3.59 11N40MIMO\_46 ANT 1

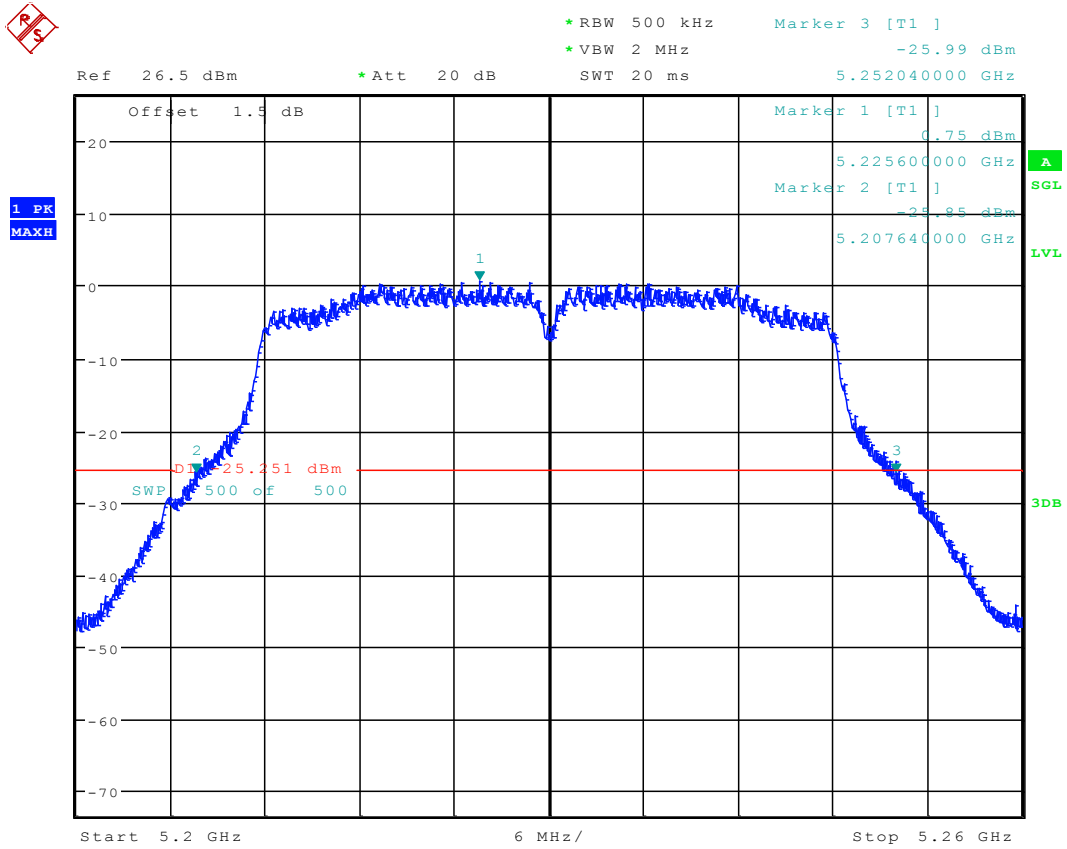


\*RBW 500 kHz      Marker 3 [T1 ]  
 \*VBW 2 MHz      -28.90 dBm  
 SWT 20 ms      5.253080000 GHz



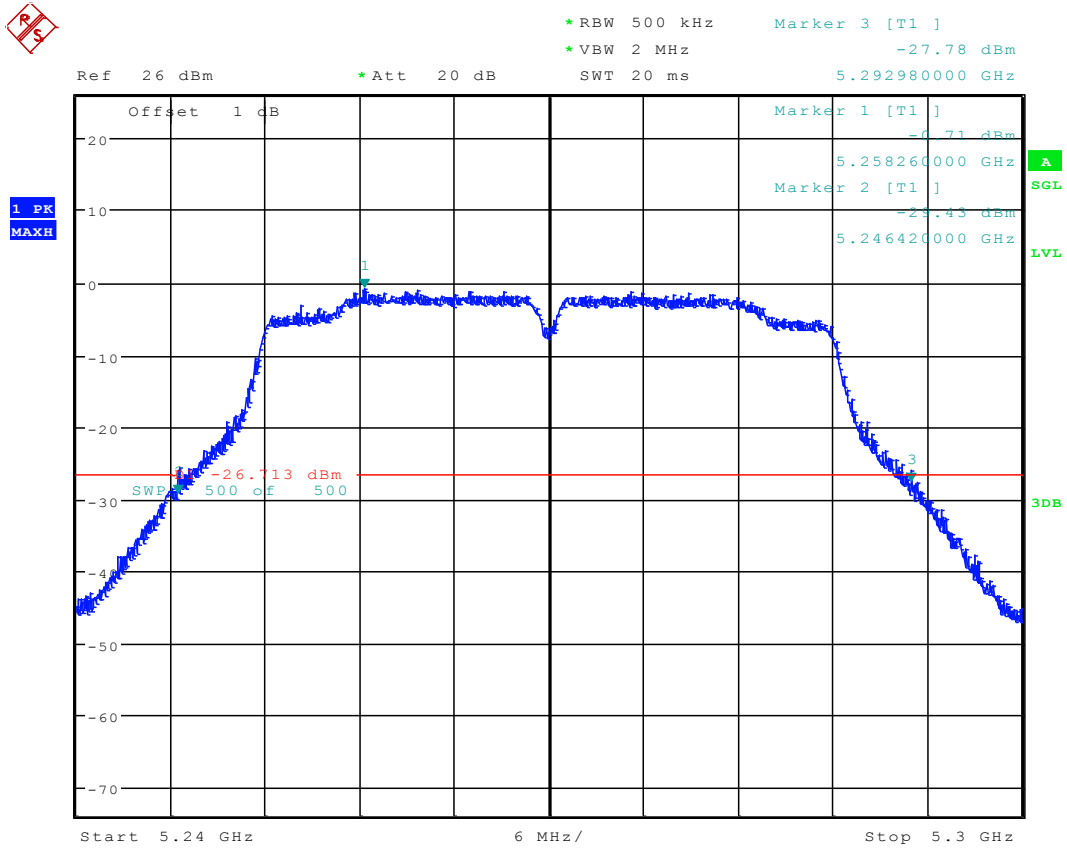
Date: 23.JAN.2018 15:15:43

### 3.60 11N40MIMO\_46 ANT 2



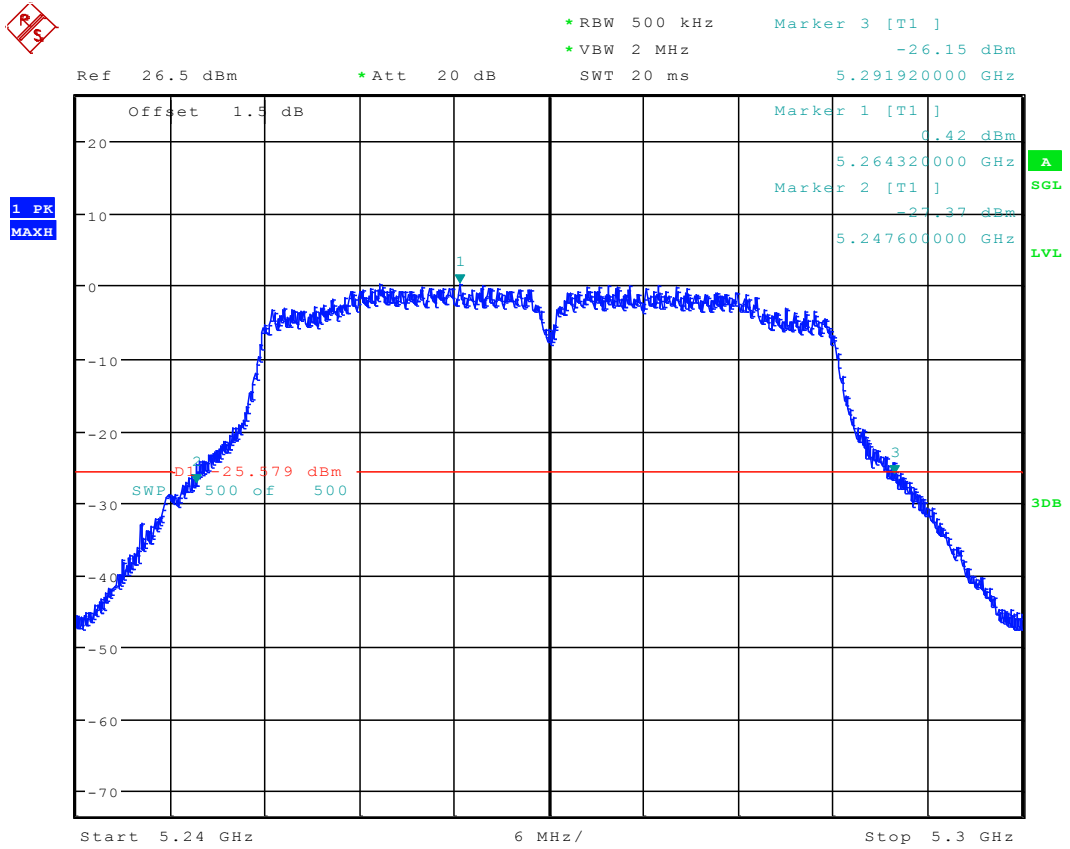
Date: 26.JAN.2018 15:30:49

### 3.61 11N40MIMO\_54 ANT 1



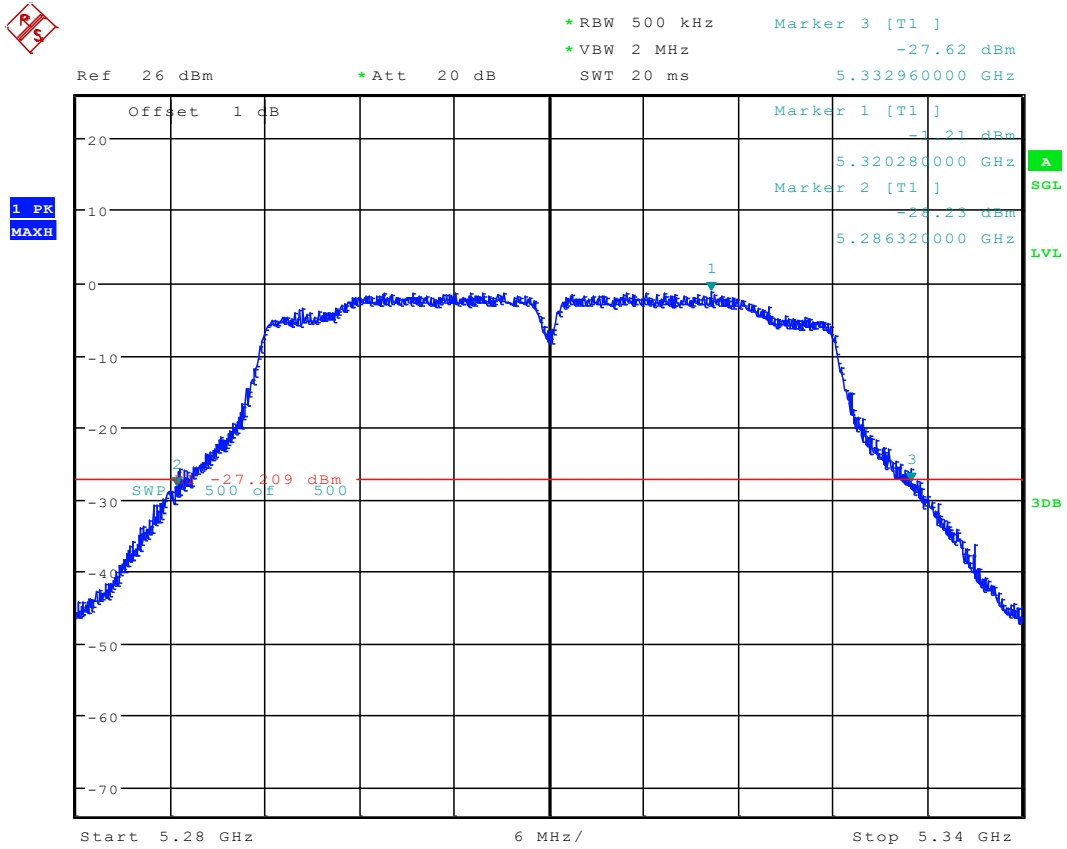
Date: 23.JAN.2018 15:18:53

### 3.62 11N40MIMO\_54 ANT 2



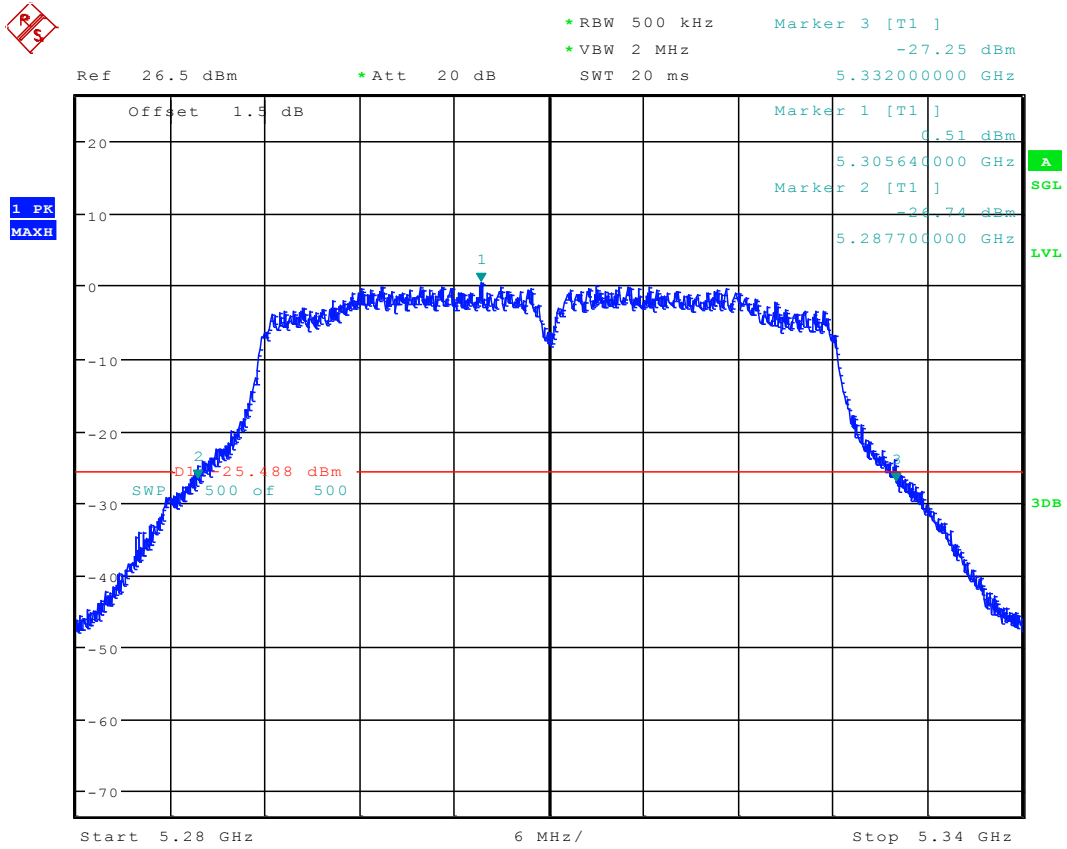
Date: 26.JAN.2018 15:33:34

### 3.63 11N40MIMO\_62 ANT 1



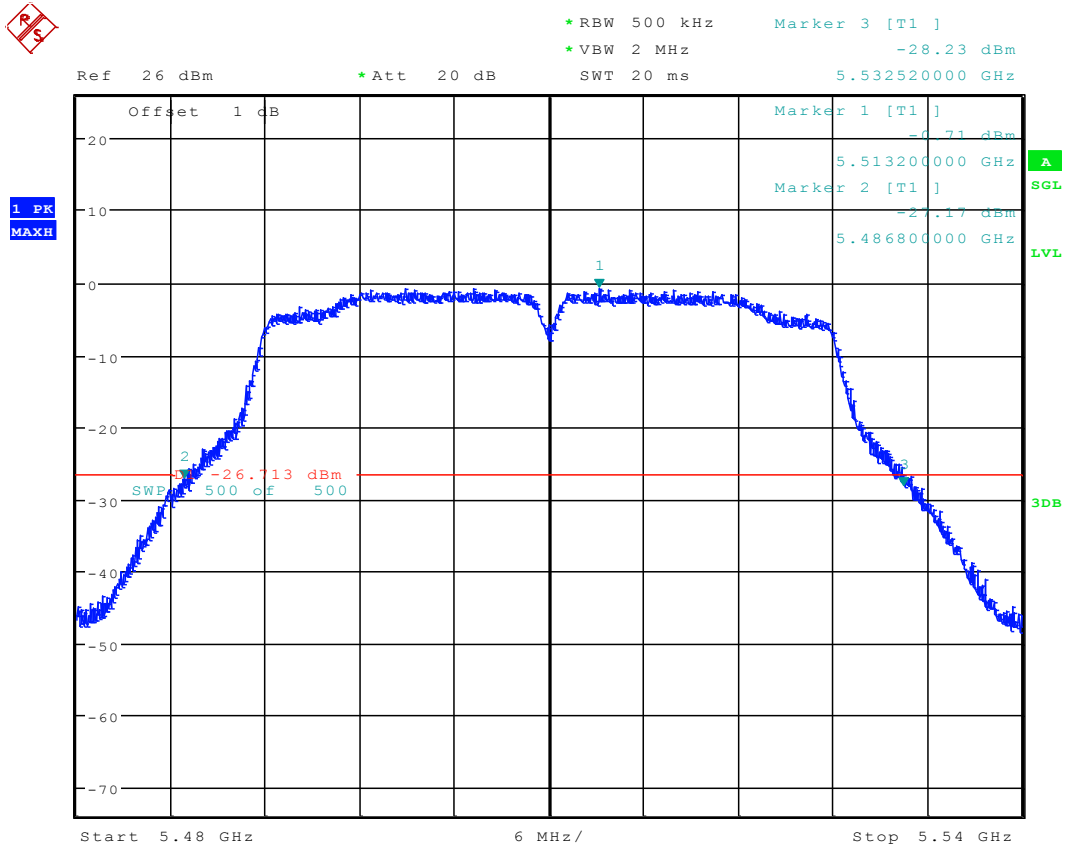
Date: 23.JAN.2018 15:21:17

### 3.64 11N40MIMO\_62 ANT 2



Date: 26.JAN.2018 15:36:18

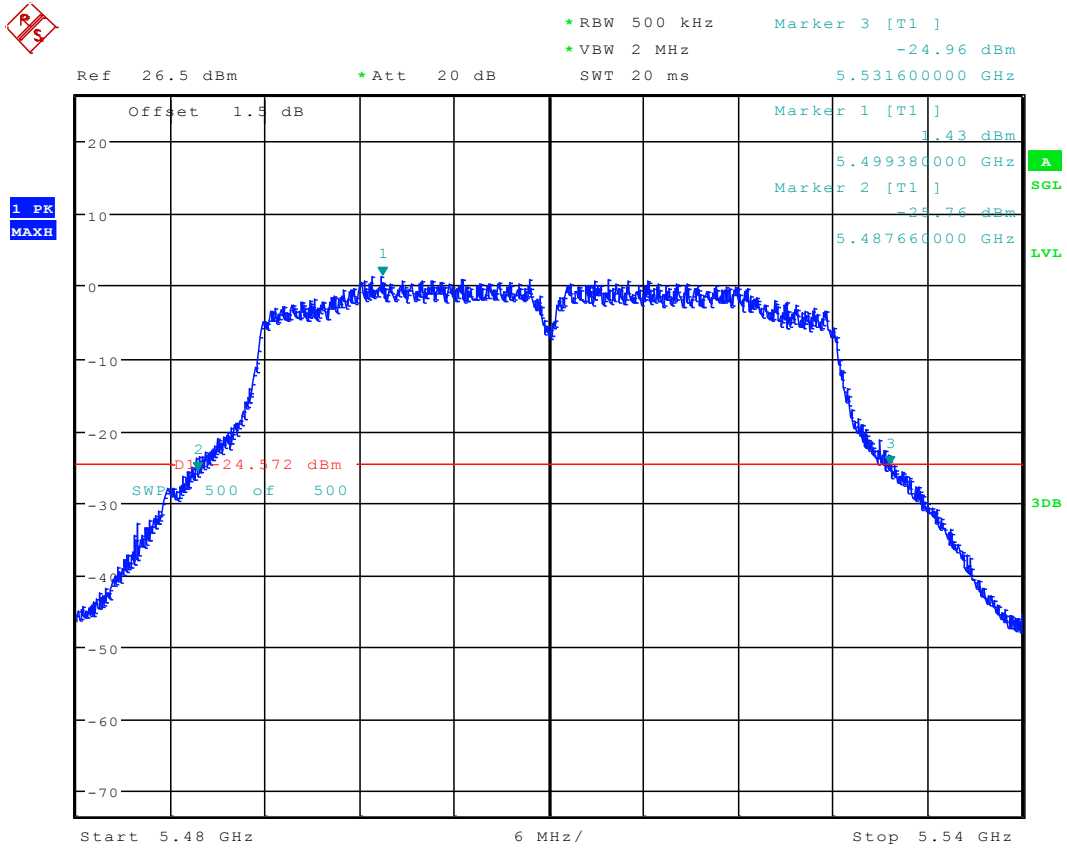
### 3.65 11N40MIMO\_102 ANT 1



Date: 23.JAN.2018 15:24:28

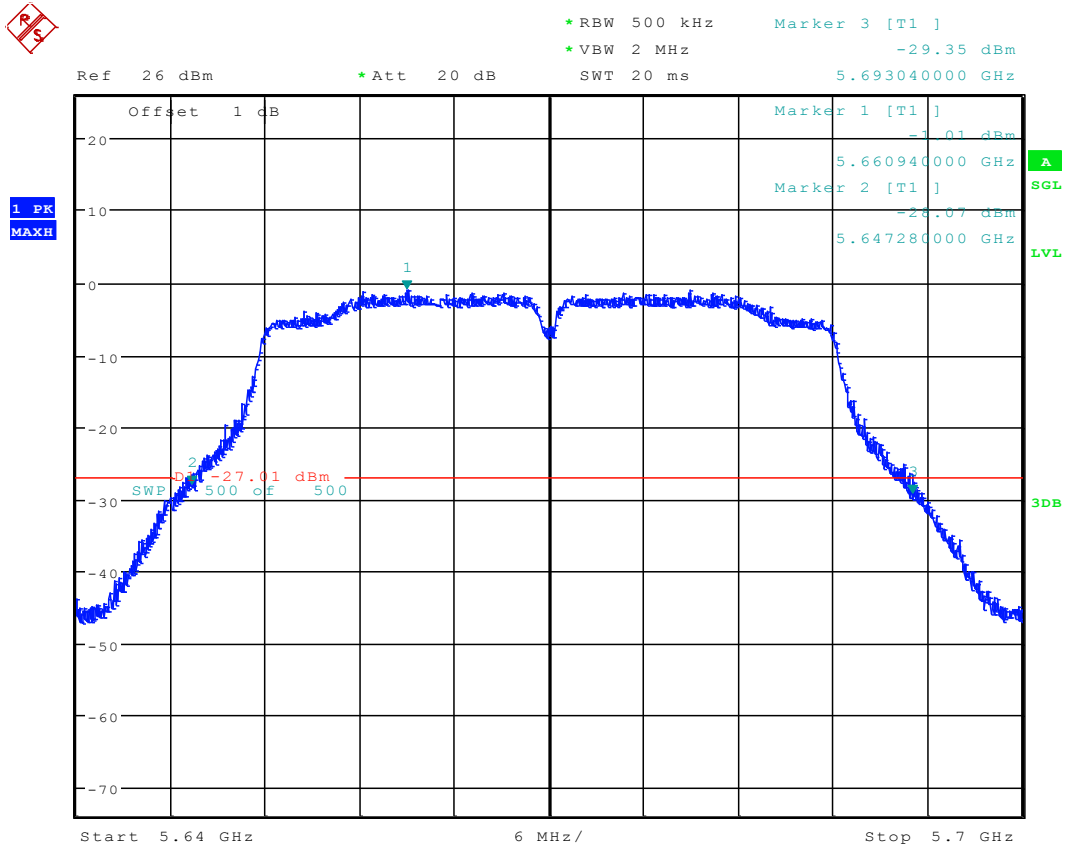


### 3.66 11N40MIMO\_102 ANT 2



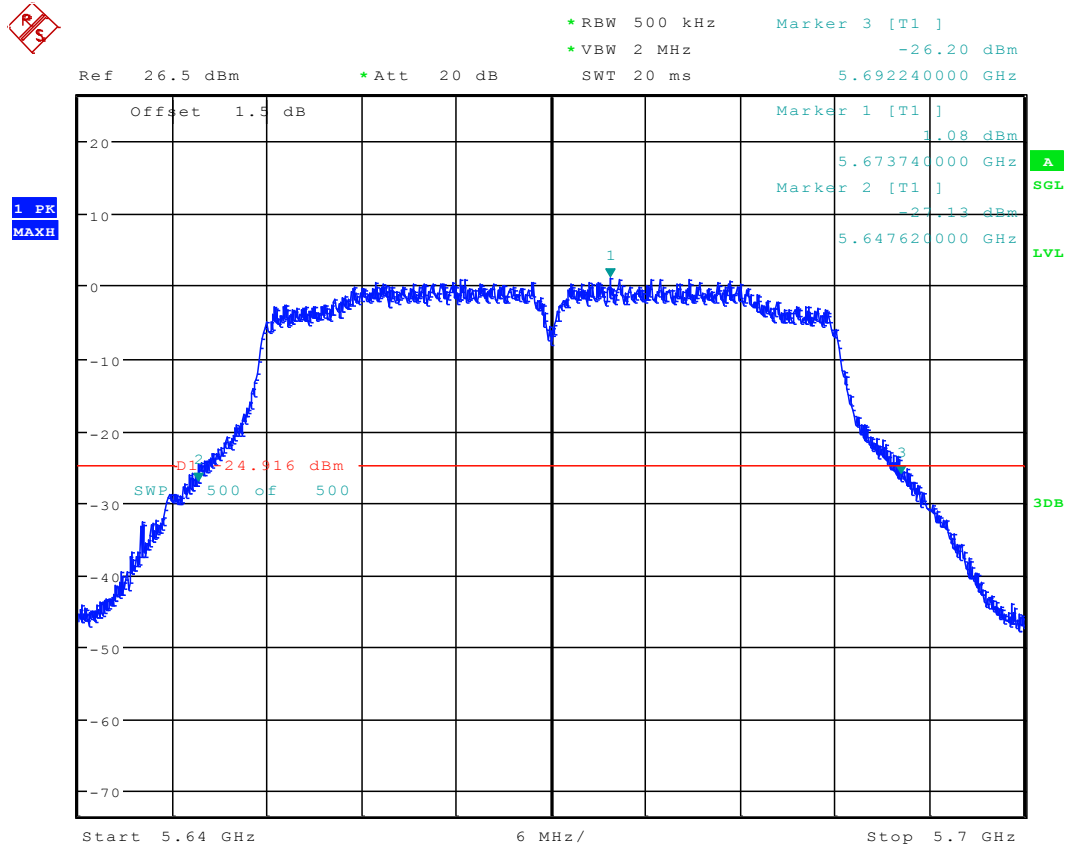
Date: 26.JAN.2018 15:38:56

### 3.67 11N40MIMO\_134 ANT 1



Date: 23.JAN.2018 15:27:01

### 3.68 11N40MIMO\_134 ANT 2



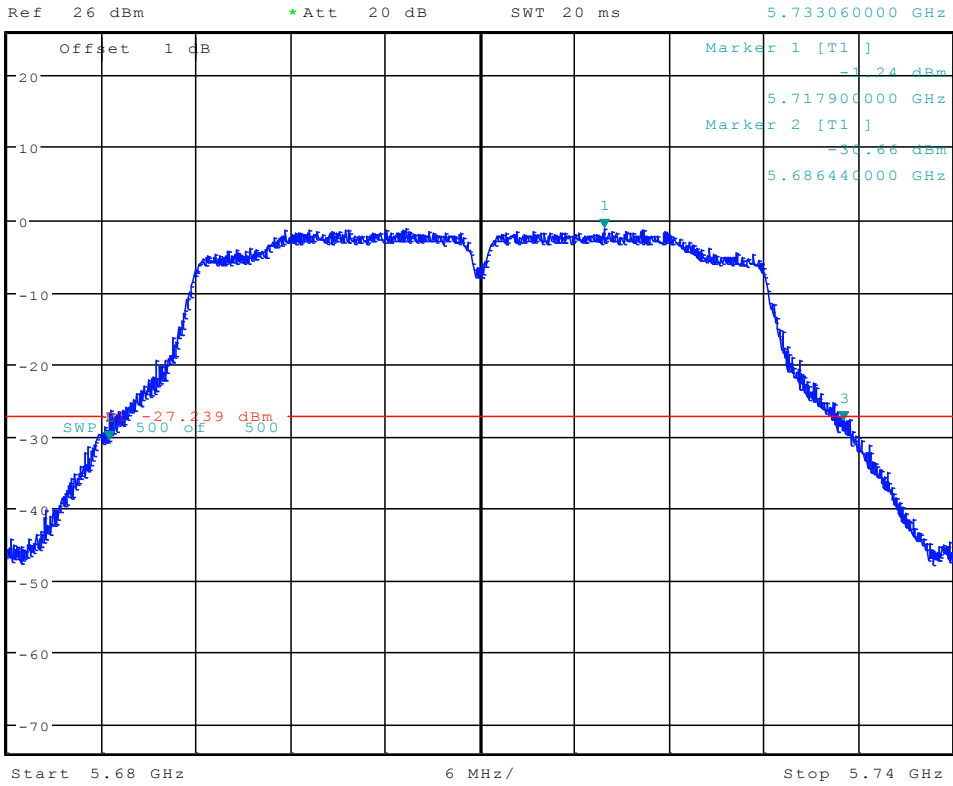
Date: 26.JAN.2018 15:41:21



### 3.69 11N40MIMO\_142 ANT 1

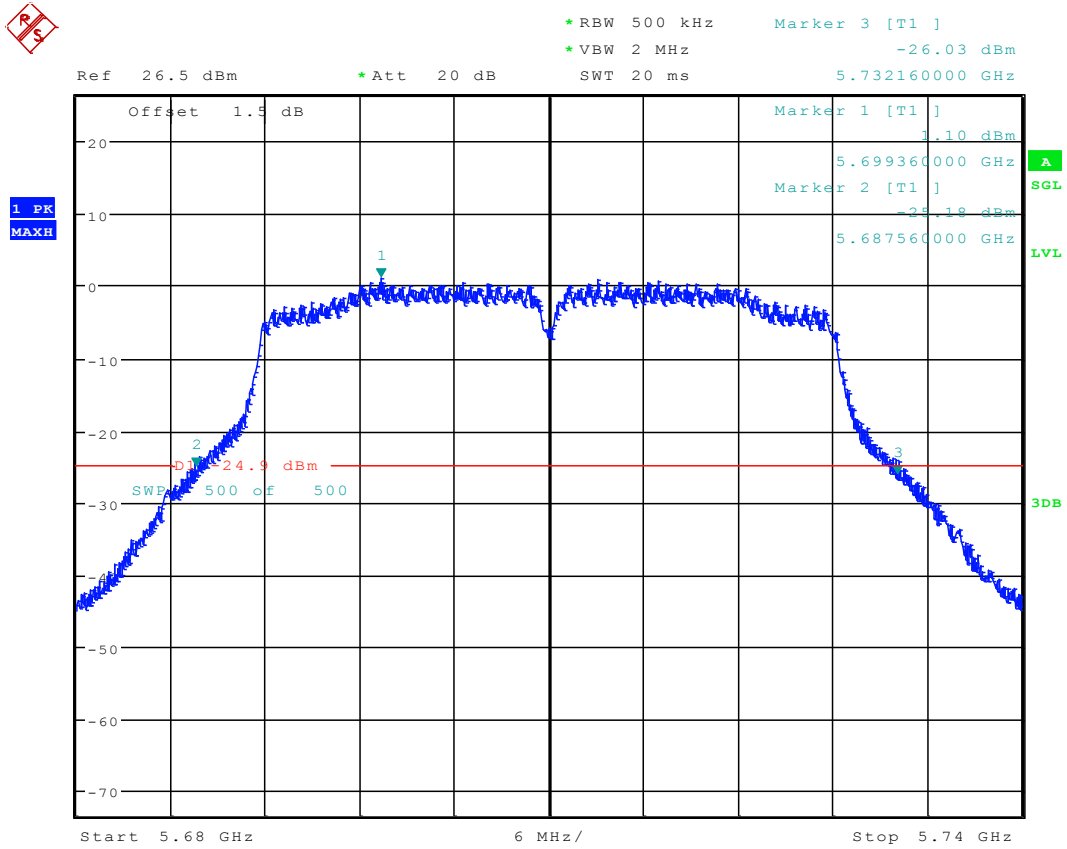


\*RBW 500 kHz      Marker 3 [T1 ]  
 \*VBW 2 MHz      -27.88 dBm  
 SWT 20 ms      5.733060000 GHz



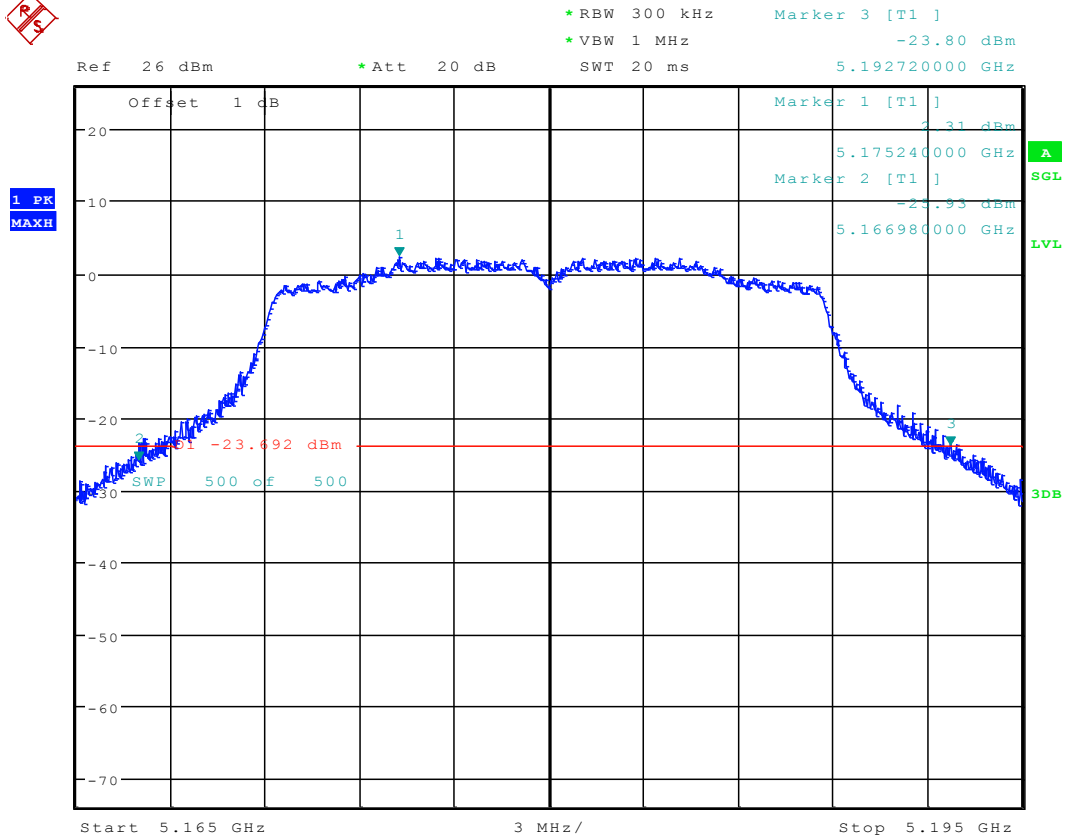
Date: 23.JAN.2018 15:29:43

### 3.70 11N40MIMO\_142 ANT 2



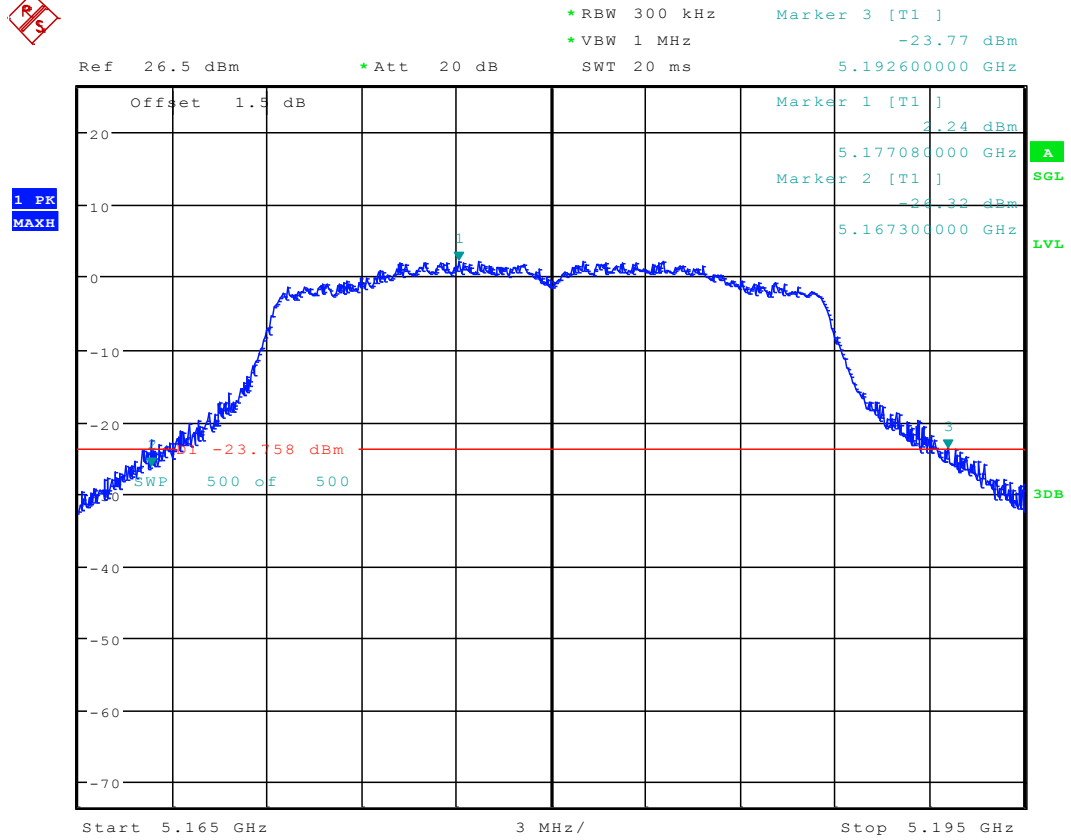
Date: 26.JAN.2018 15:43:49

### 3.71 11AC20\_36 ANT 1



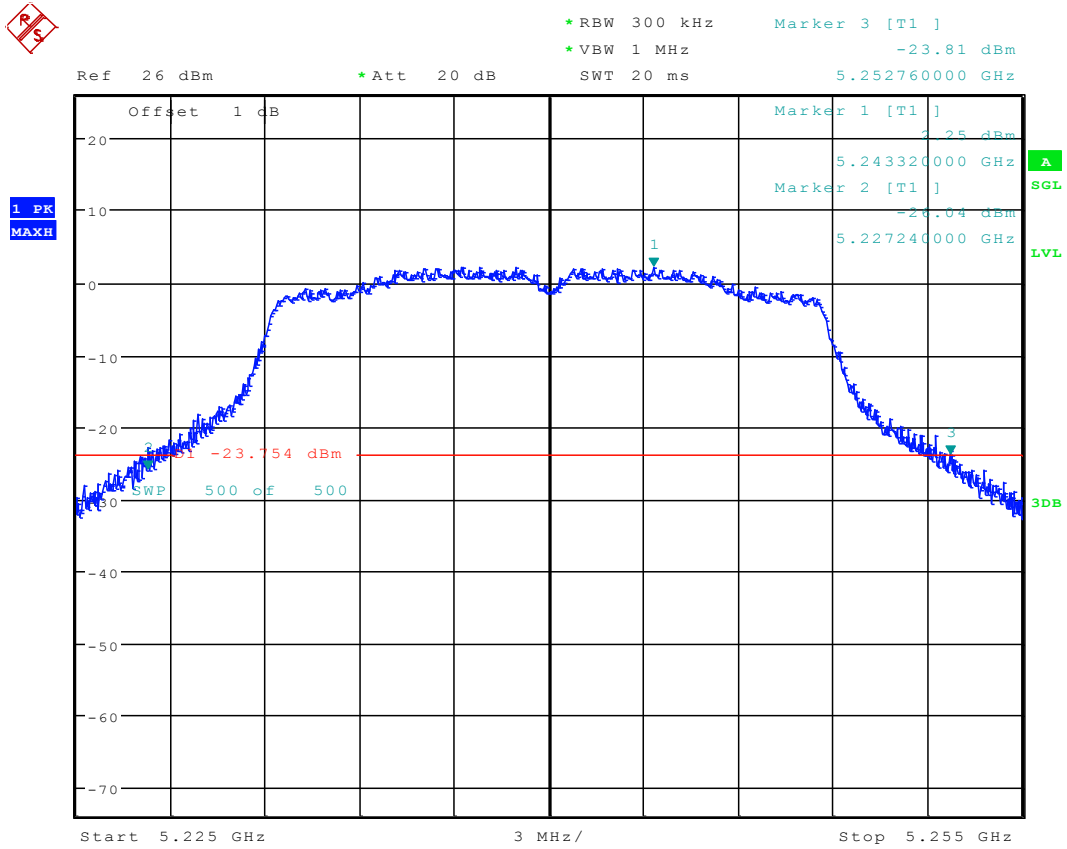
Date: 22.JAN.2018 15:24:52

## 3.72 11AC20\_36 ANT 2



Date: 24.JAN.2018 13:48:26

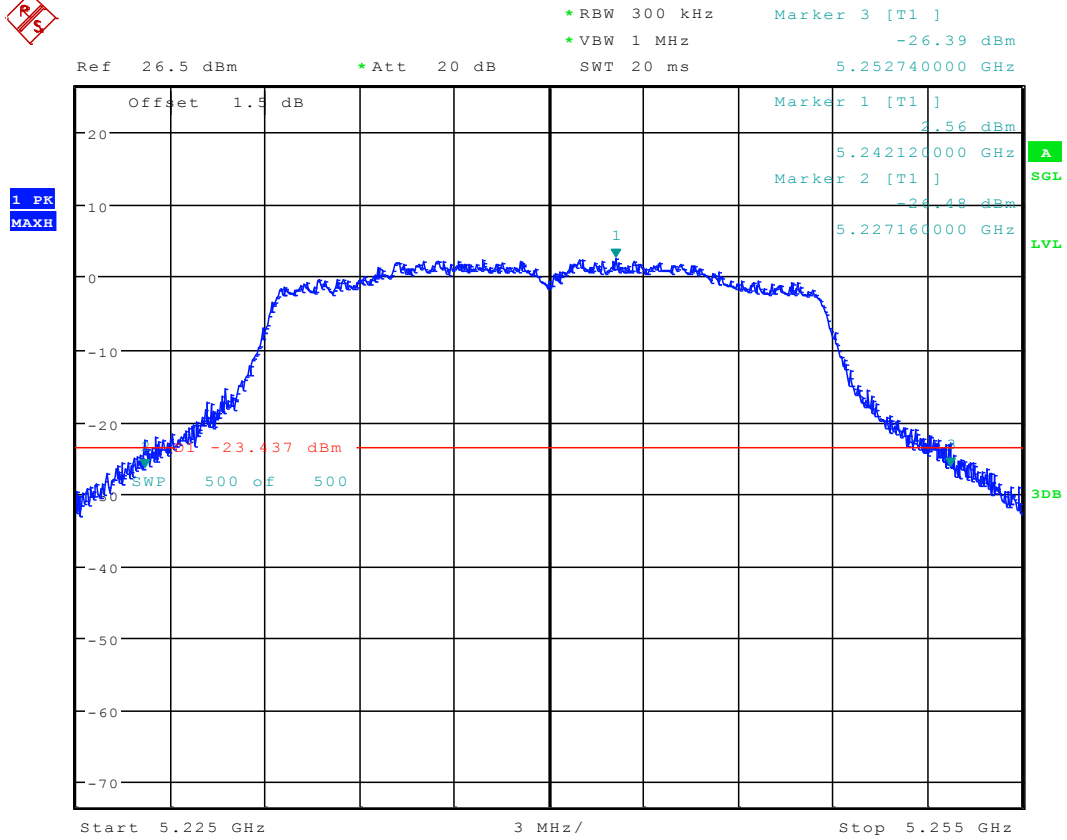
### 3.73 11AC20\_48 ANT 1



Date: 22.JAN.2018 15:28:19

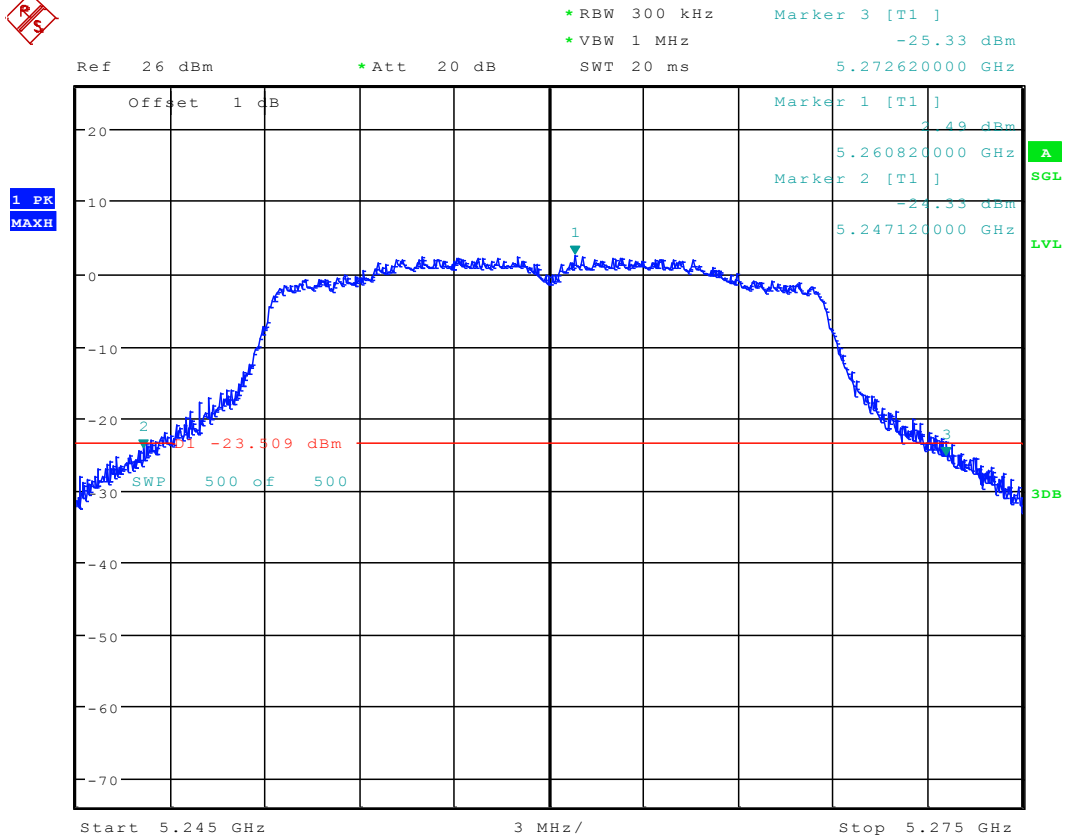


### 3.74 11AC20\_48 ANT 2



Date: 26.JAN.2018 18:19:04

### 3.75 11AC20\_52 ANT 1

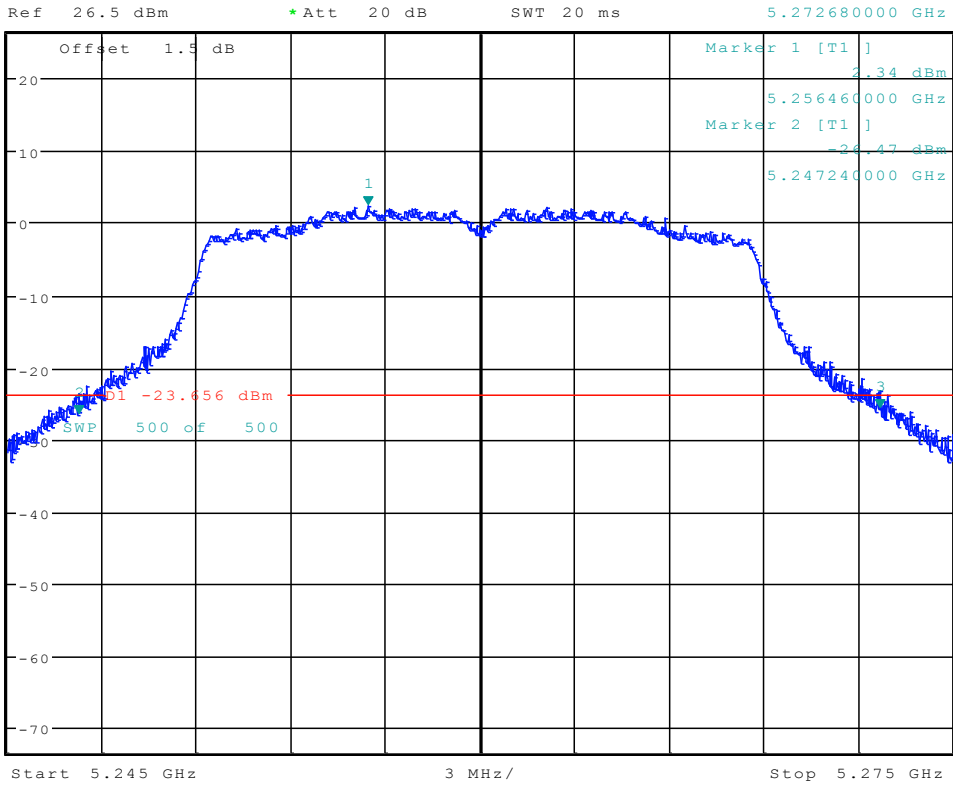


Date: 22.JAN.2018 15:31:39

### 3.76 11AC20\_52 ANT 2

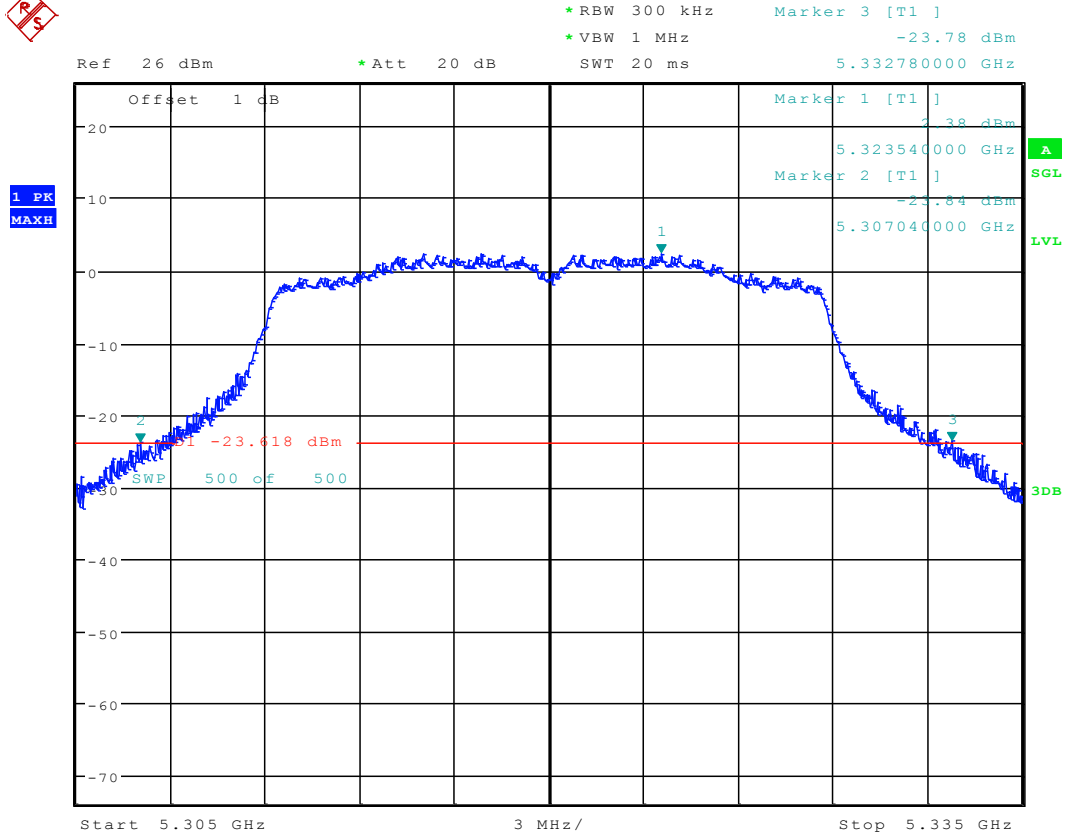


\*RBW 300 kHz      Marker 3 [T1 ]  
 \*VBW 1 MHz      -25.70 dBm  
 SWT 20 ms      5.272680000 GHz



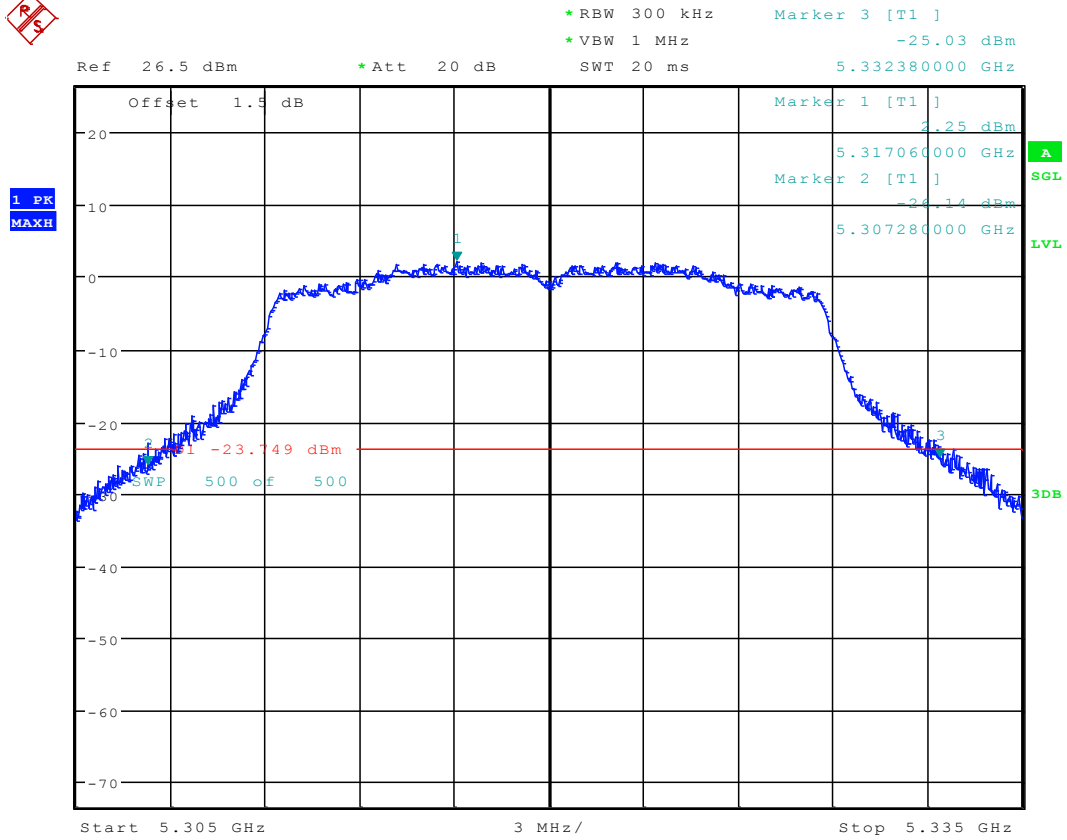
Date: 24.JAN.2018 13:54:43

### 3.77 11AC20\_64 ANT 1



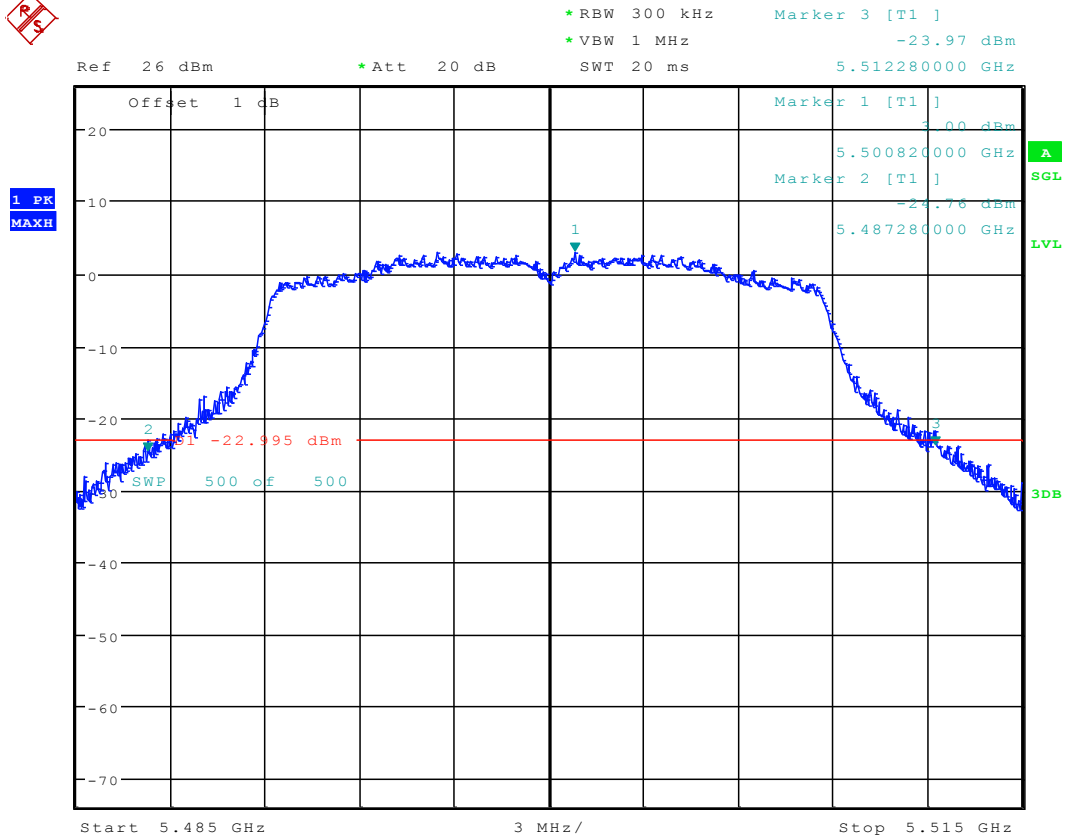
Date: 22.JAN.2018 15:38:29

### 3.78 11AC20\_64 ANT 2



Date: 24.JAN.2018 13:59:18

### 3.79 11AC20\_100 ANT 1

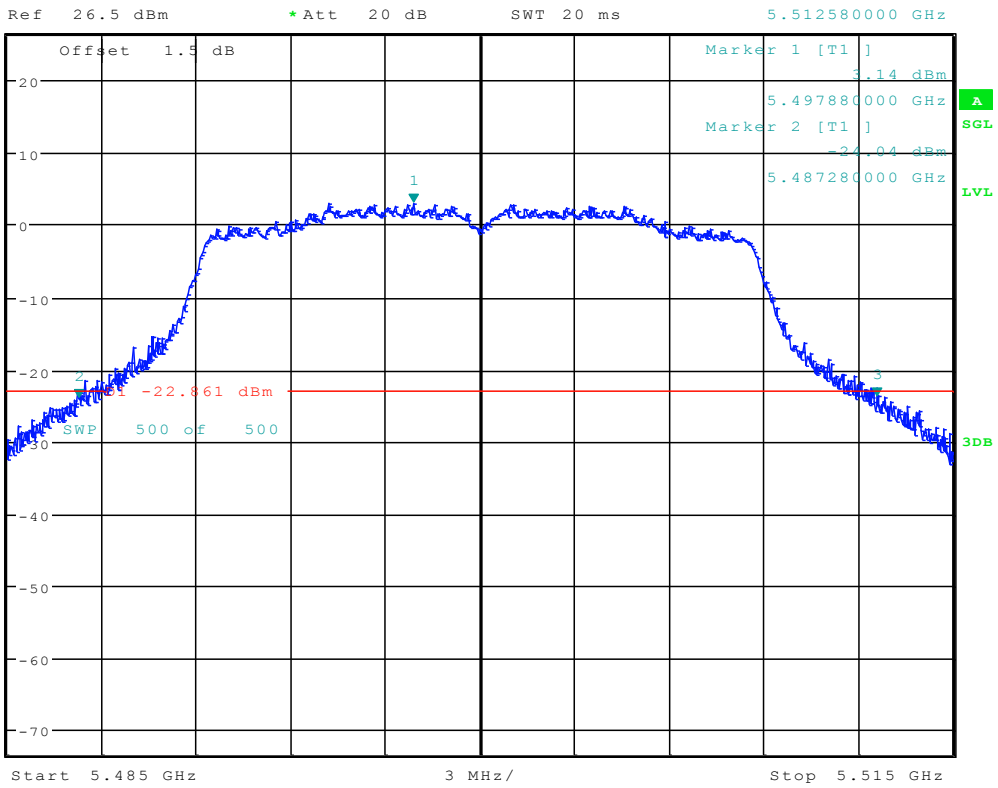


Date: 22.JAN.2018 15:43:15

### 3.80 11AC20\_100 ANT 2

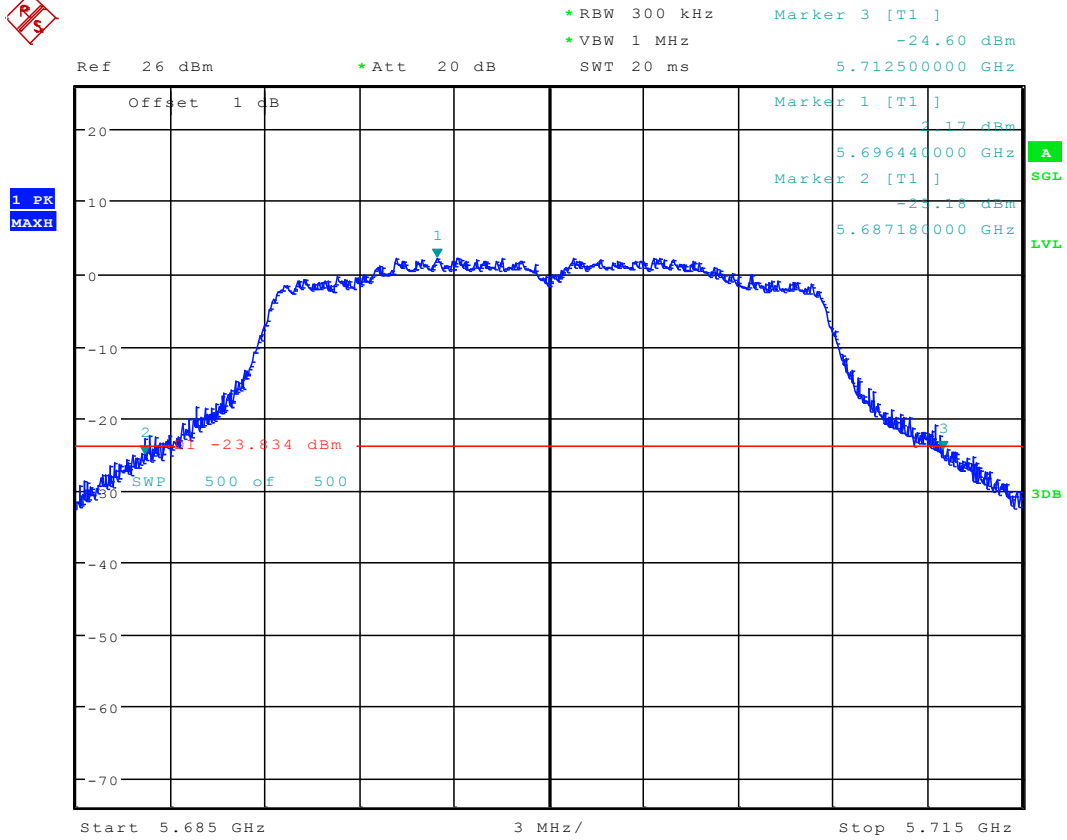


\*RBW 300 kHz     Marker 3 [T1 ]  
 \*VBW 1 MHz     -23.84 dBm  
 SWT 20 ms     5.512580000 GHz



Date: 24.JAN.2018 14:01:48

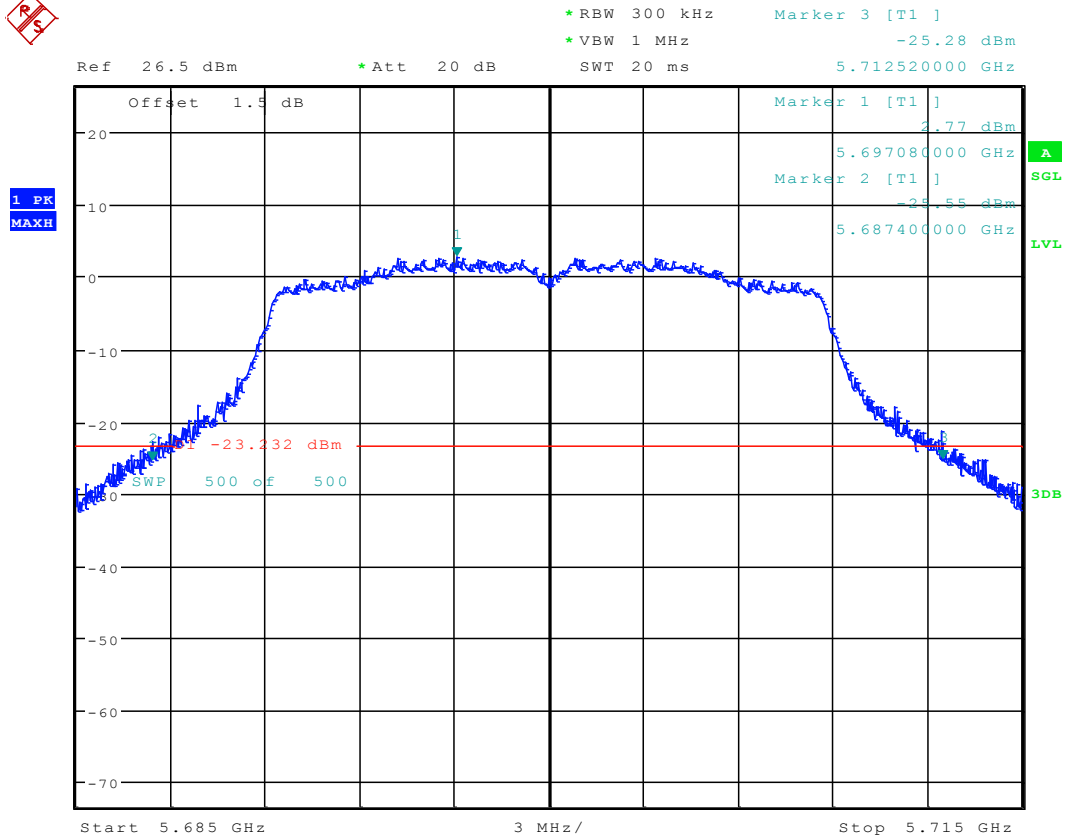
### 3.81 11AC20\_140 ANT 1



Date: 22.JAN.2018 15:45:45



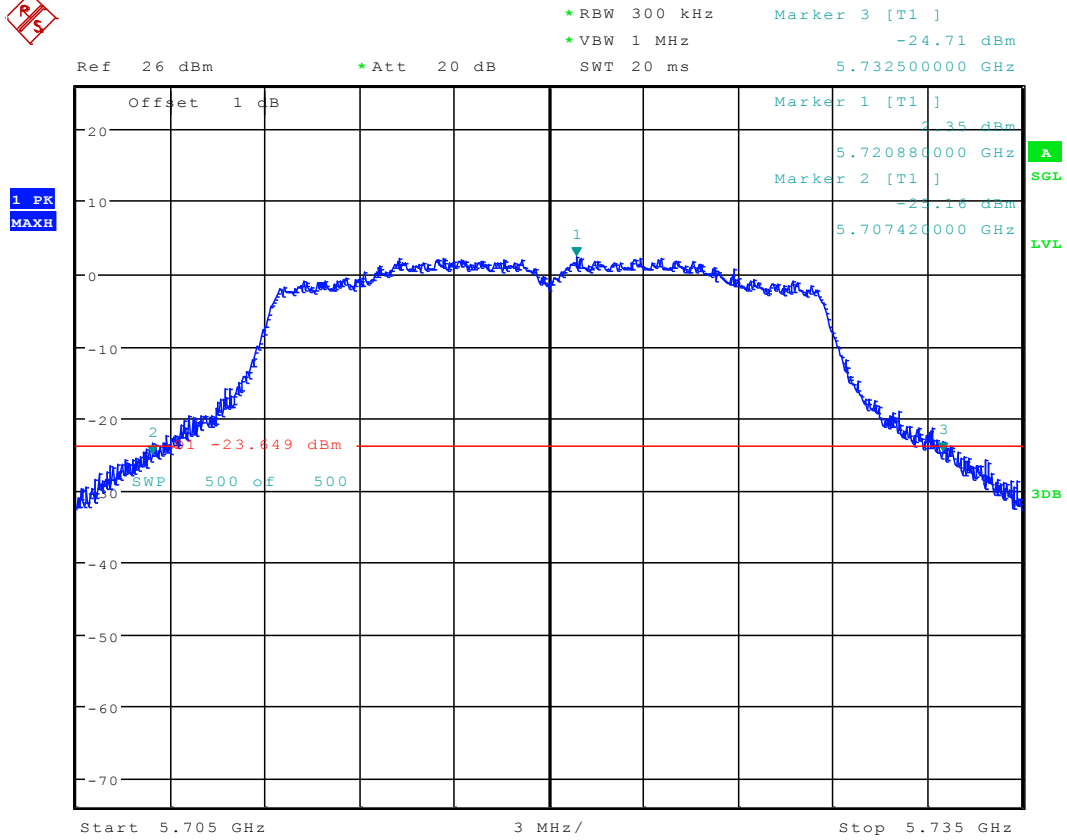
### 3.82 11AC20\_140 ANT 2



Date: 24.JAN.2018 14:04:14

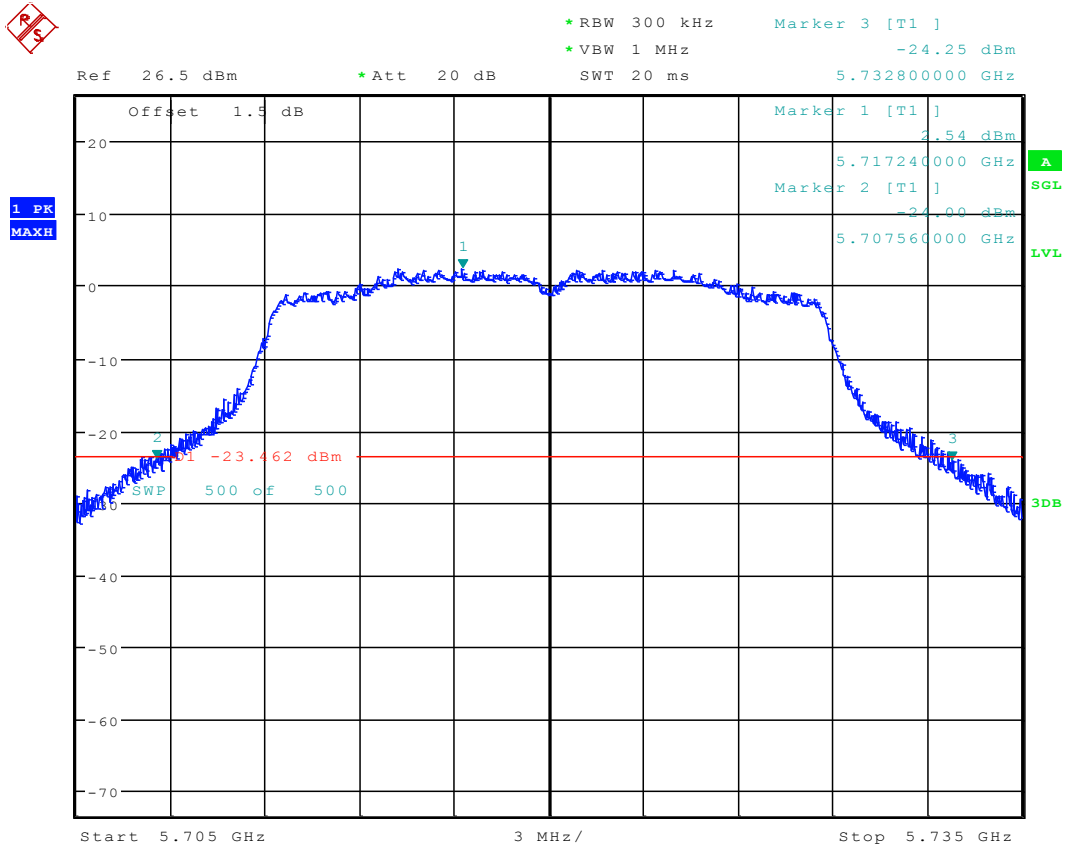


### 3.83 11AC20\_144 ANT 1



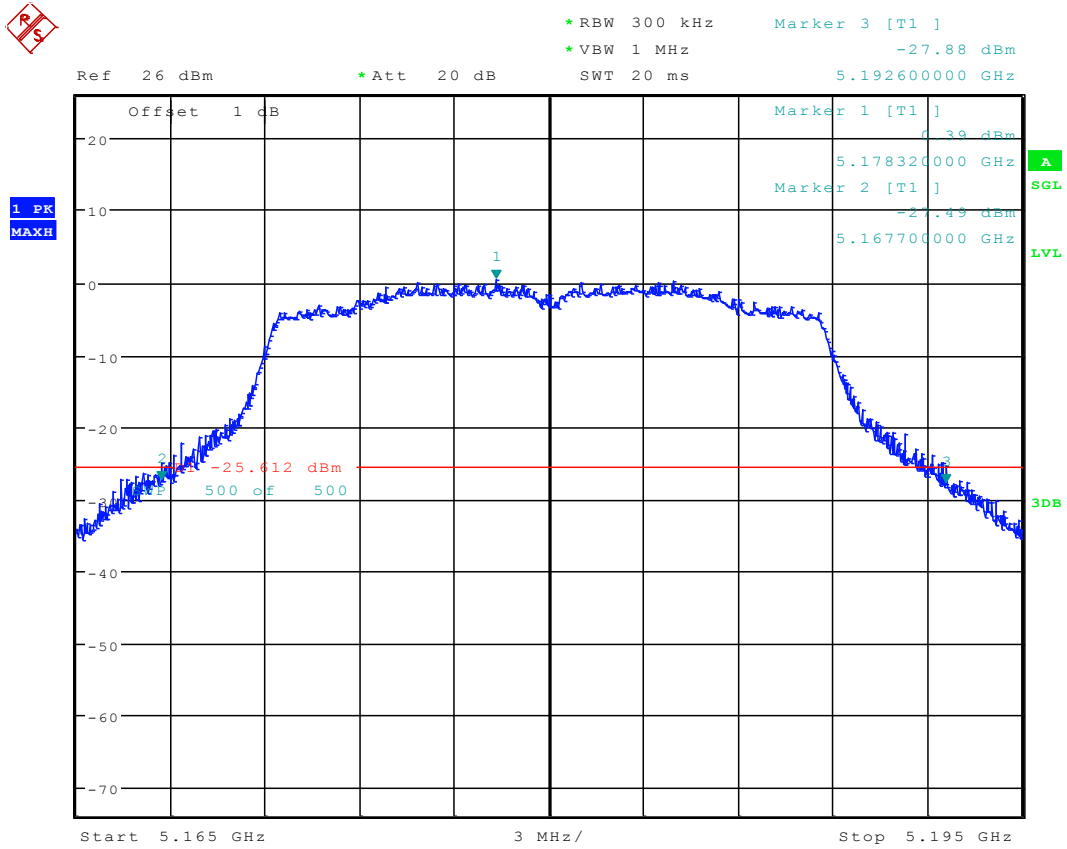
Date: 22.JAN.2018 15:50:51

### 3.84 11AC20\_144 ANT 2



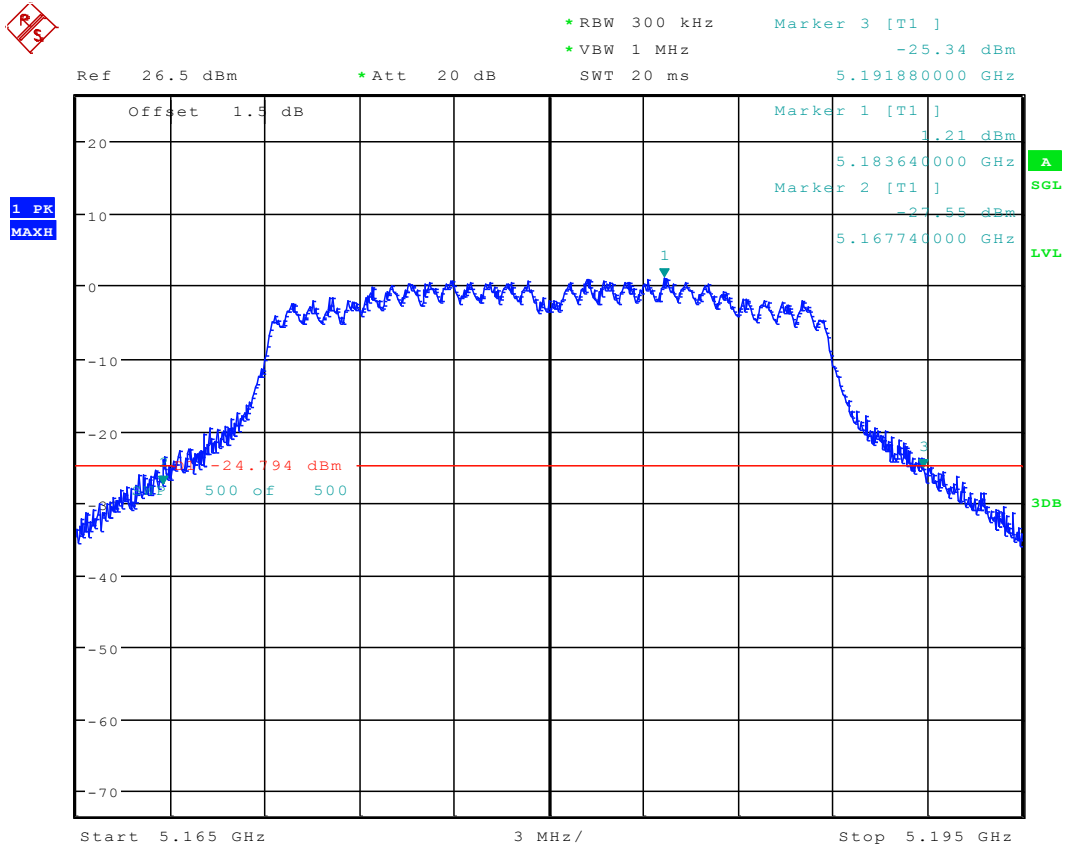
Date: 24.JAN.2018 14:06:32

### 3.85 11AC20MIMO\_36 ANT 1



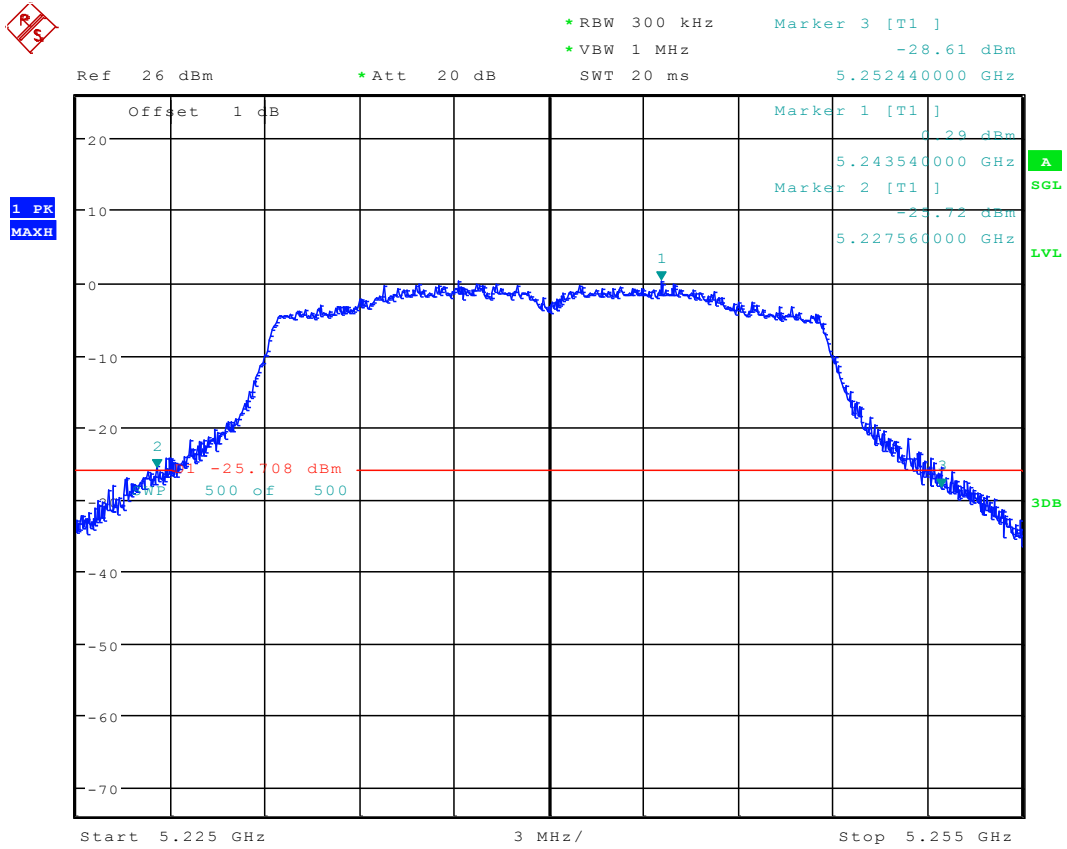
Date: 23.JAN.2018 15:40:43

### 3.86 11AC20MIMO\_36 ANT 2



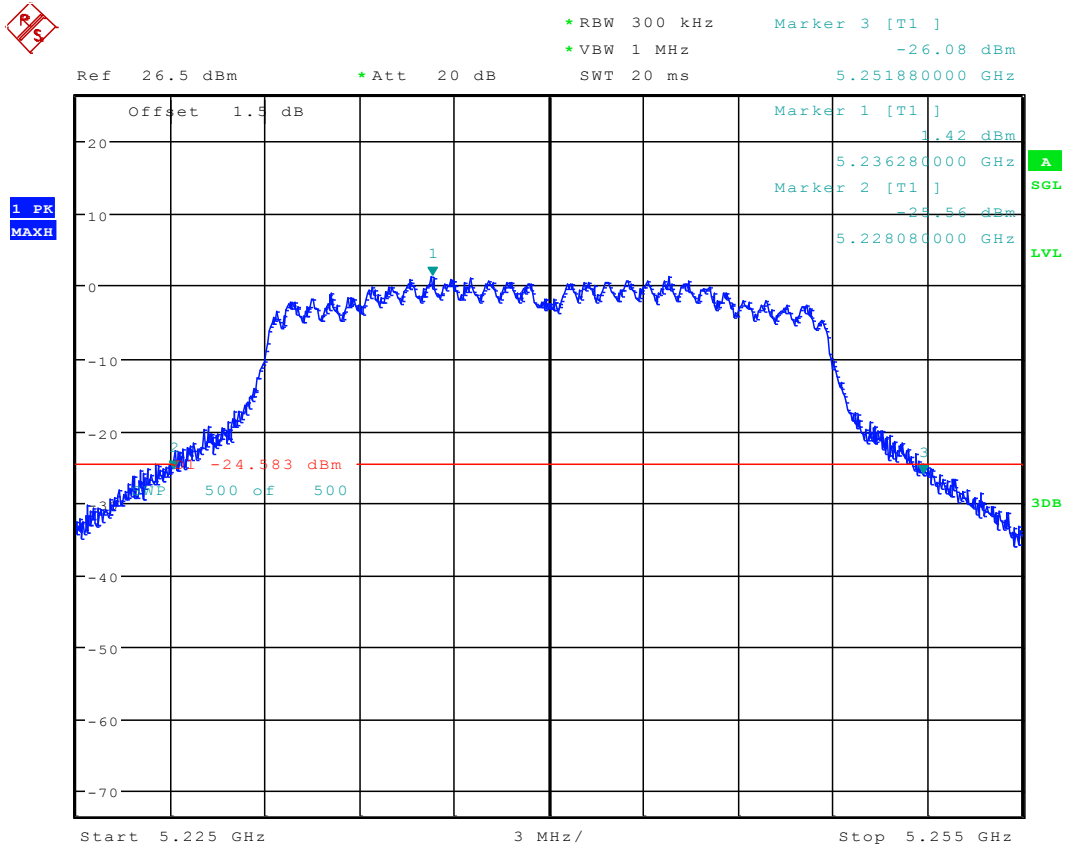
Date: 26.JAN.2018 14:57:56

### 3.87 11AC20MIMO\_48 ANT 1



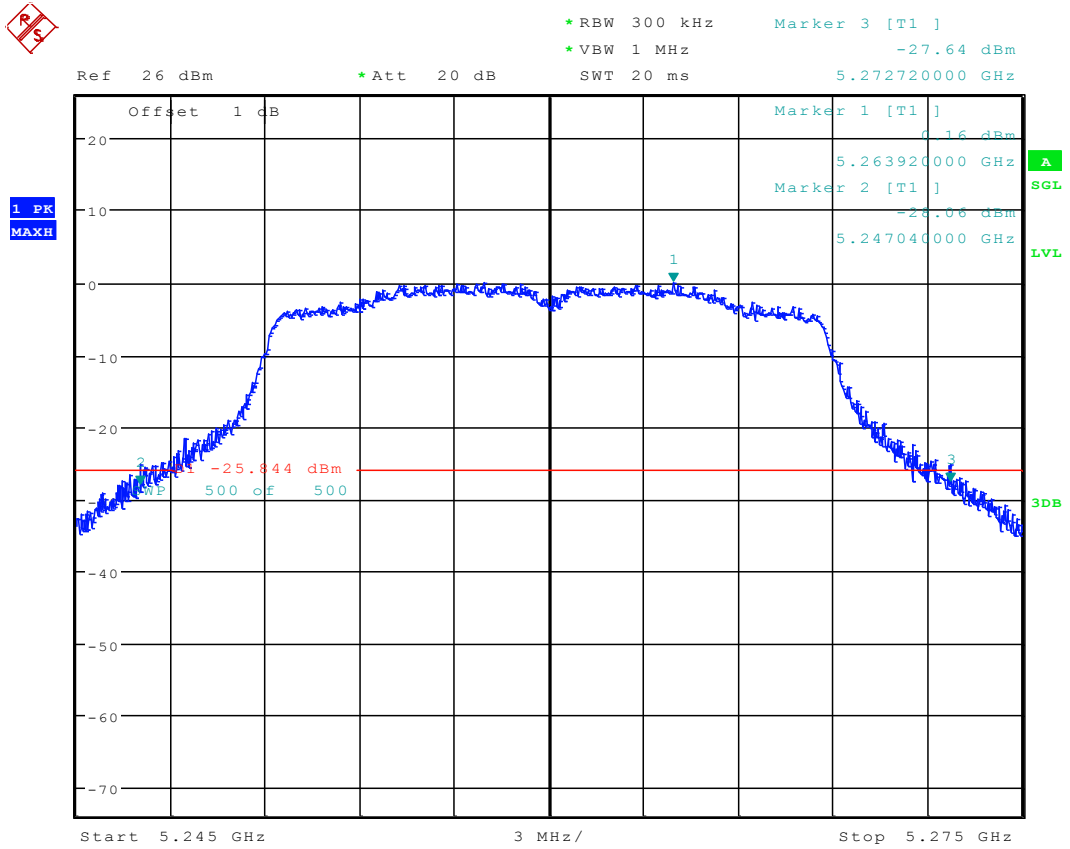
Date: 23.JAN.2018 15:43:40

### 3.88 11AC20MIMO\_48 ANT 2



Date: 26.JAN.2018 15:02:31

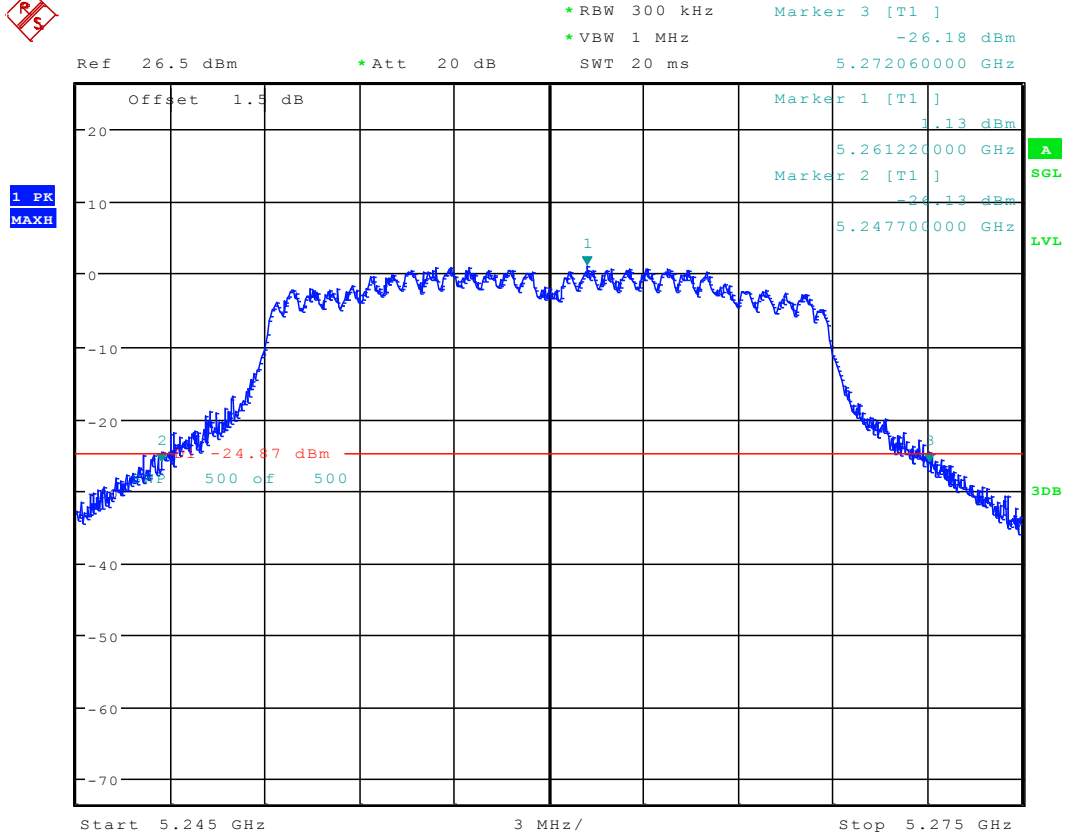
### 3.89 11AC20MIMO\_52 ANT 1



Date: 23.JAN.2018 15:46:31

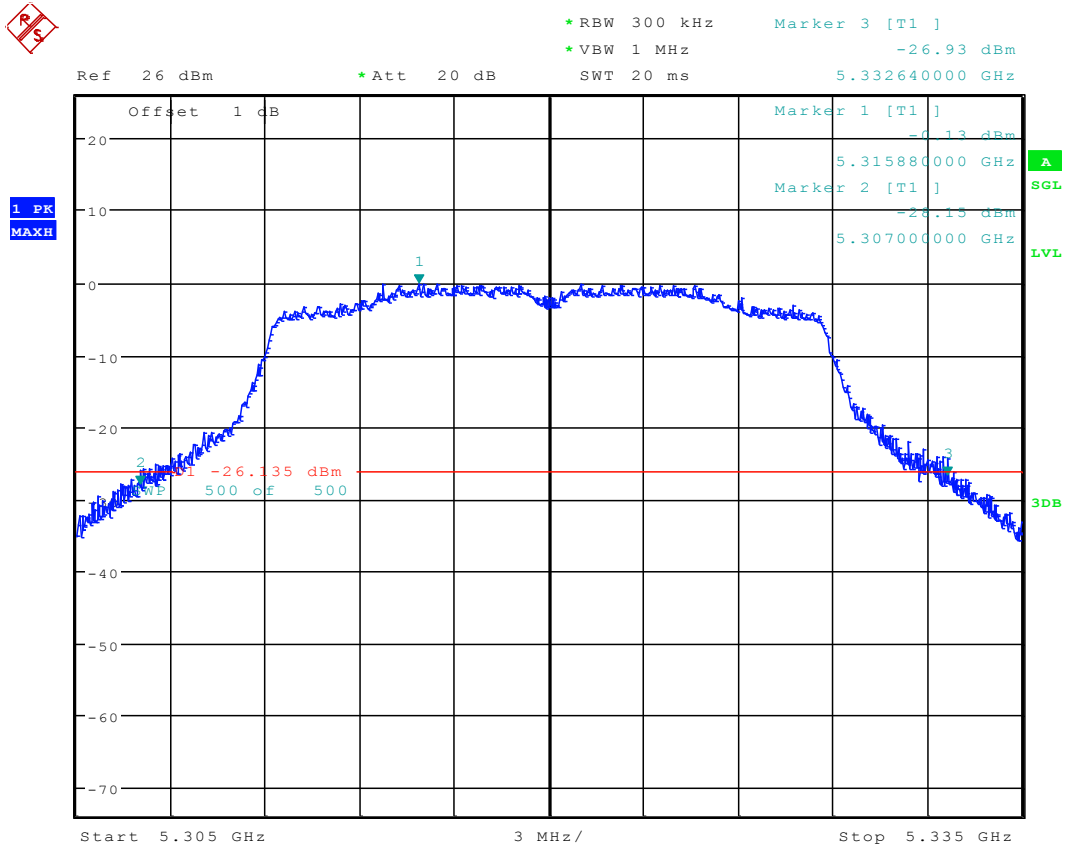


### 3.90 11AC20MIMO\_52 ANT 2



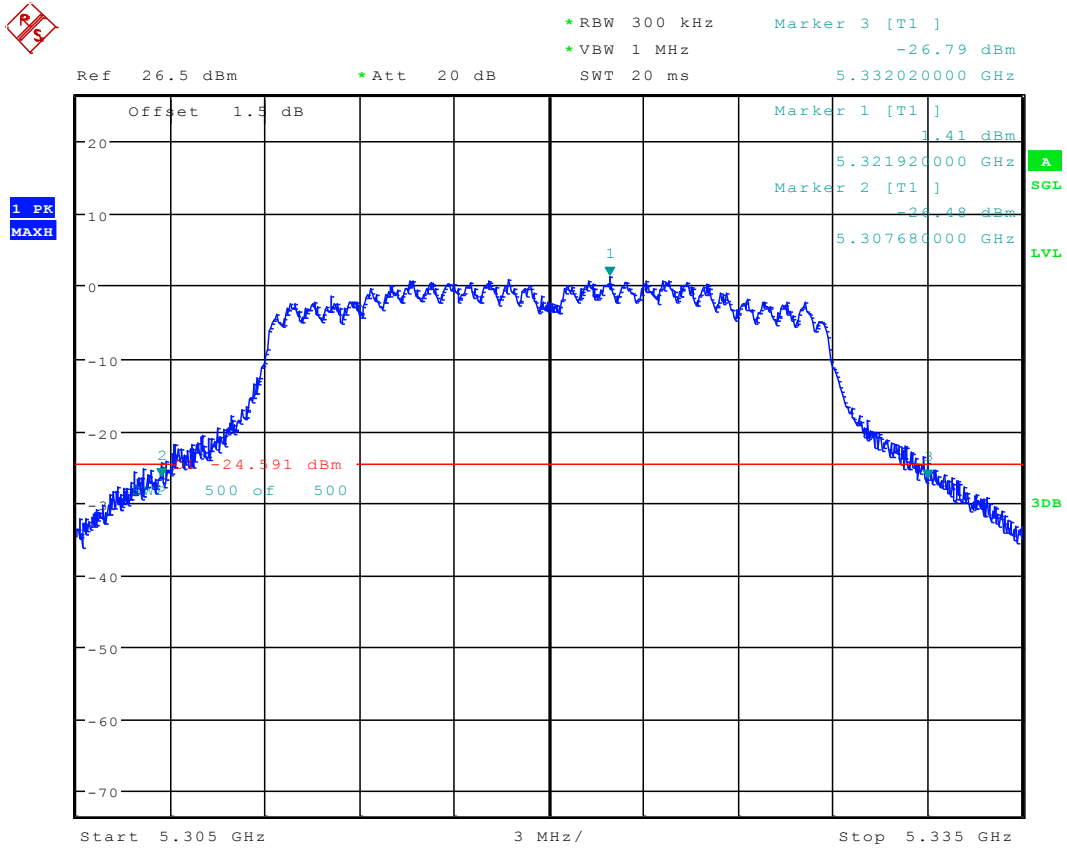
Date: 26.JAN.2018 15:05:09

## 3.91 11AC20MIMO\_64 ANT 1



Date: 23.JAN.2018 15:49:00

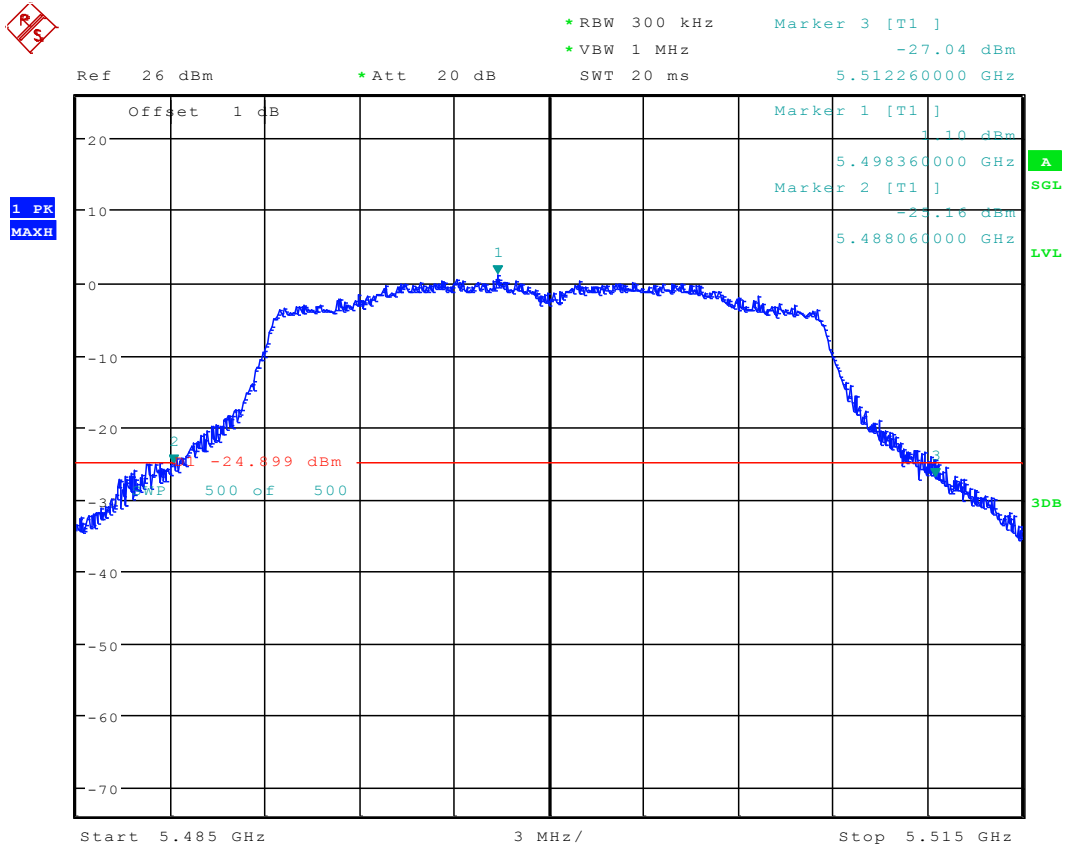
### 3.92 11AC20MIMO\_64 ANT 2



Date: 26.JAN.2018 15:09:07

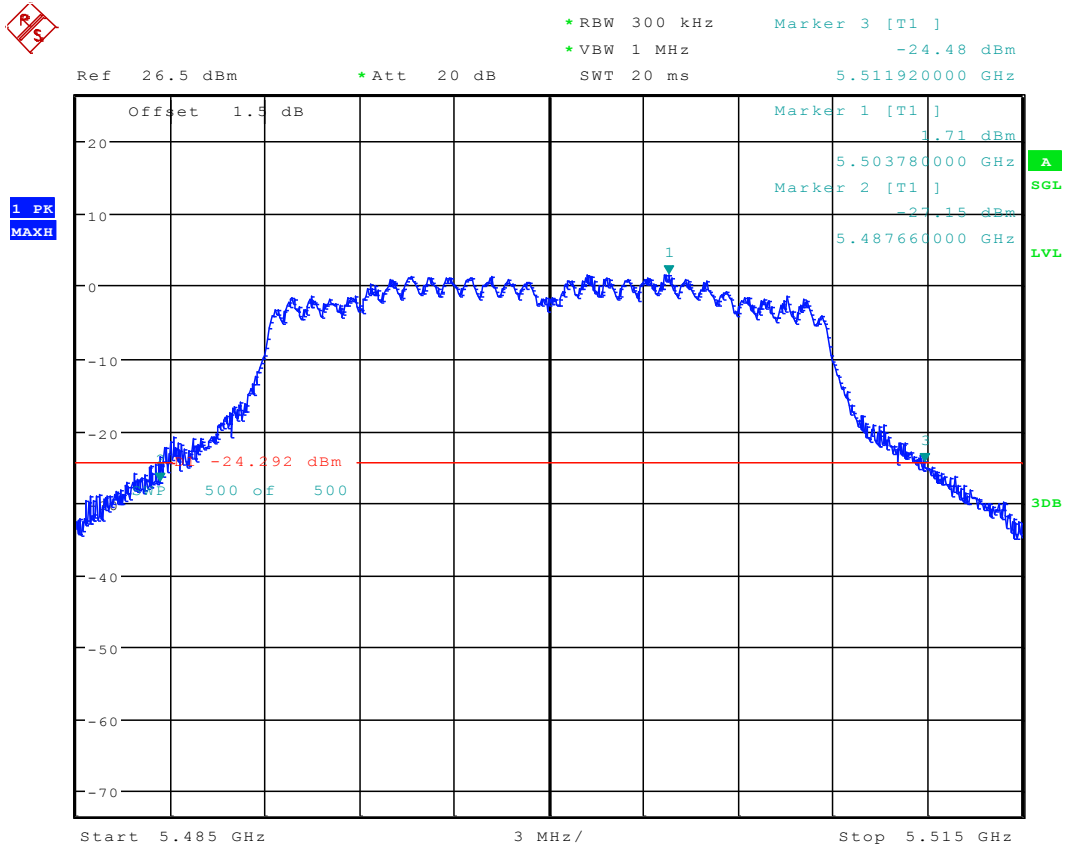


### 3.93 11AC20MIMO\_100 ANT 1



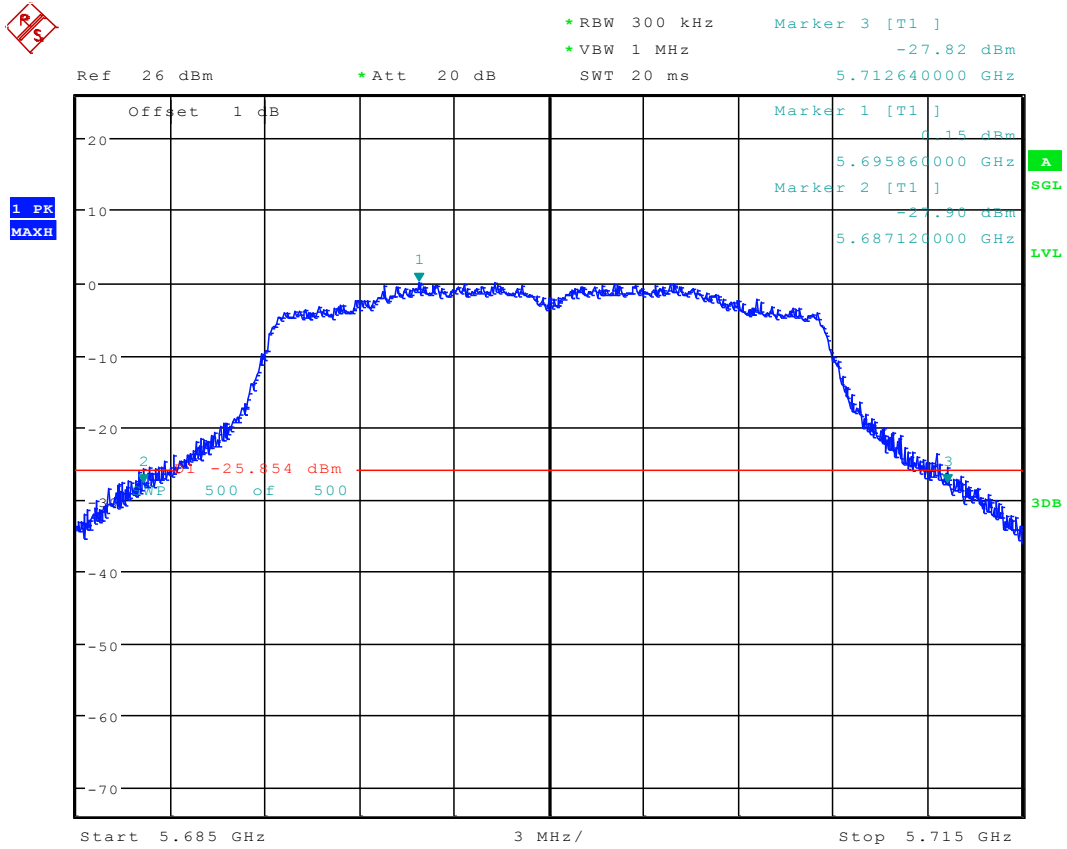
Date: 23.JAN.2018 15:51:50

### 3.94 11AC20MIMO\_100 ANT 2



Date: 26.JAN.2018 15:12:25

### 3.95 11AC20MIMO\_140 ANT 1



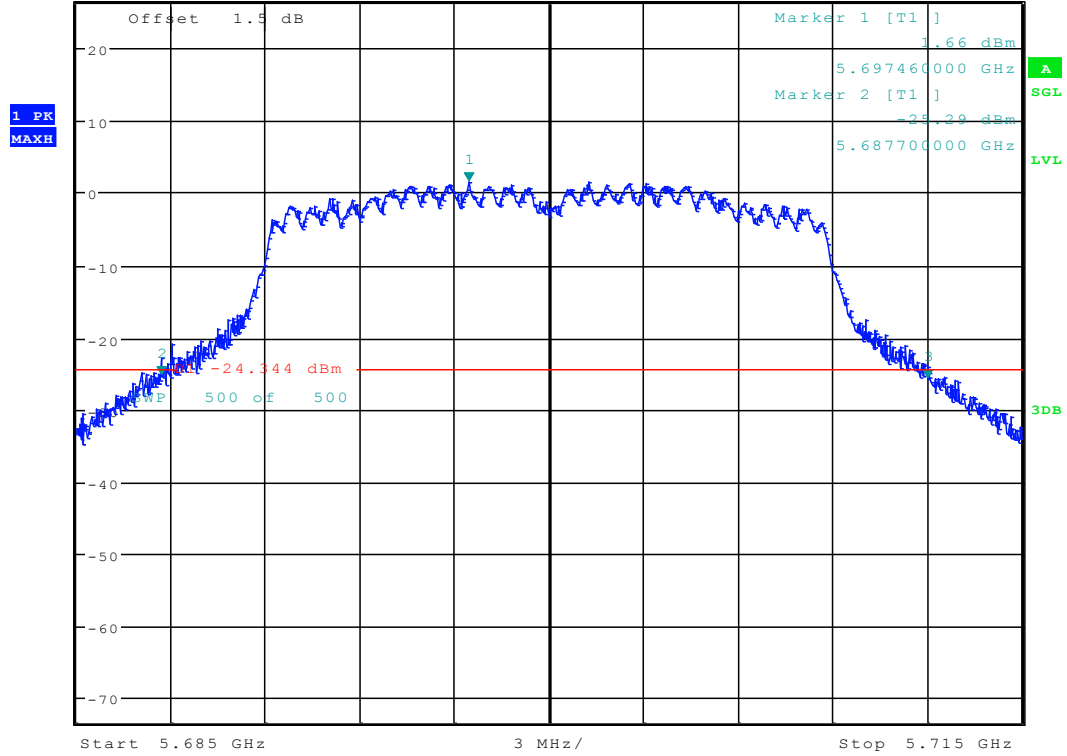
Date: 23.JAN.2018 15:54:21



### 3.96 11AC20MIMO\_140 ANT 2

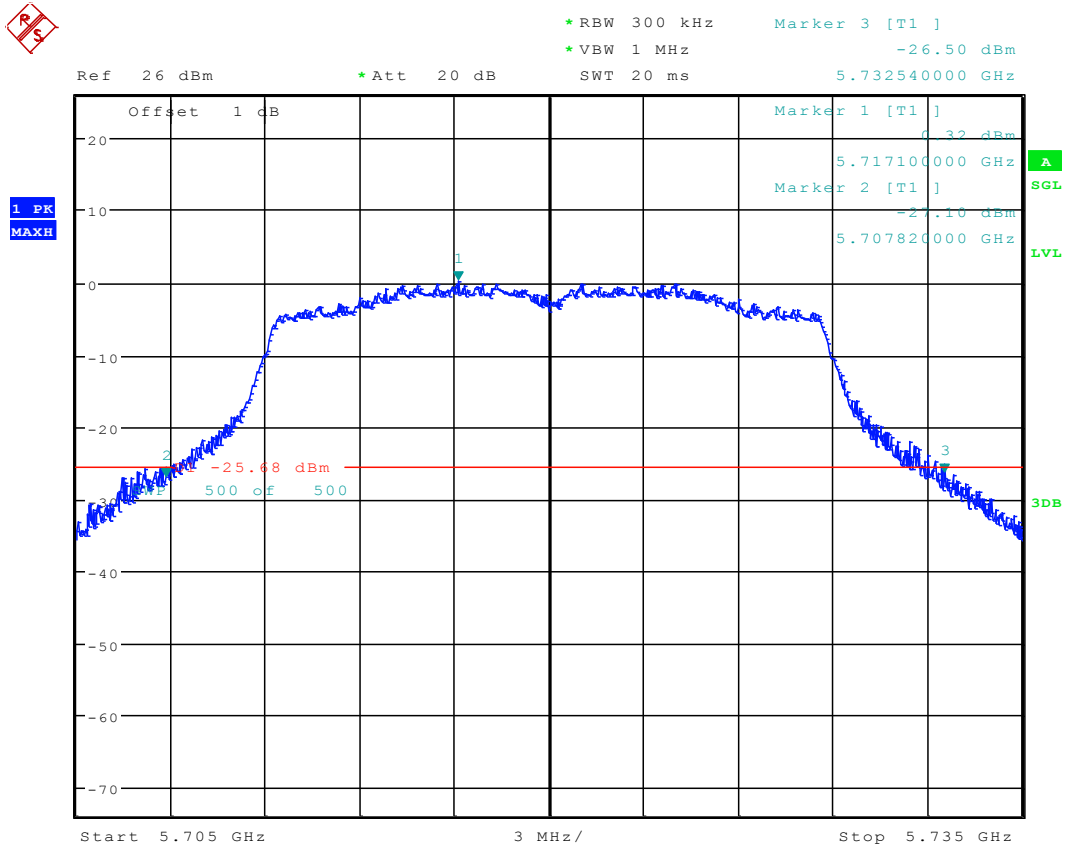


\*RBW 300 kHz      Marker 3 [T1 ]  
 \*VBW 1 MHz      -25.63 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.712000000 GHz



Date: 26.JAN.2018 15:15:07

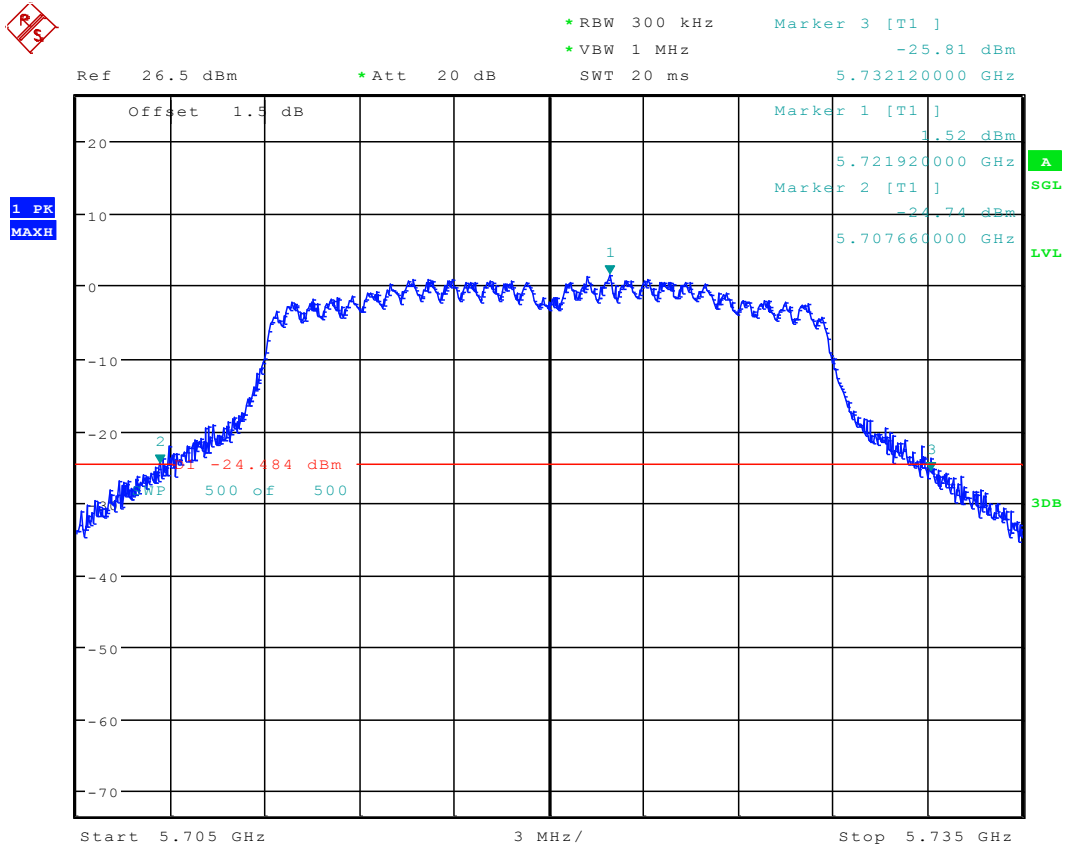
### 3.97 11AC20MIMO\_144 ANT 1



Date: 23.JAN.2018 15:56:51



### 3.98 11AC20MIMO\_144 ANT 2



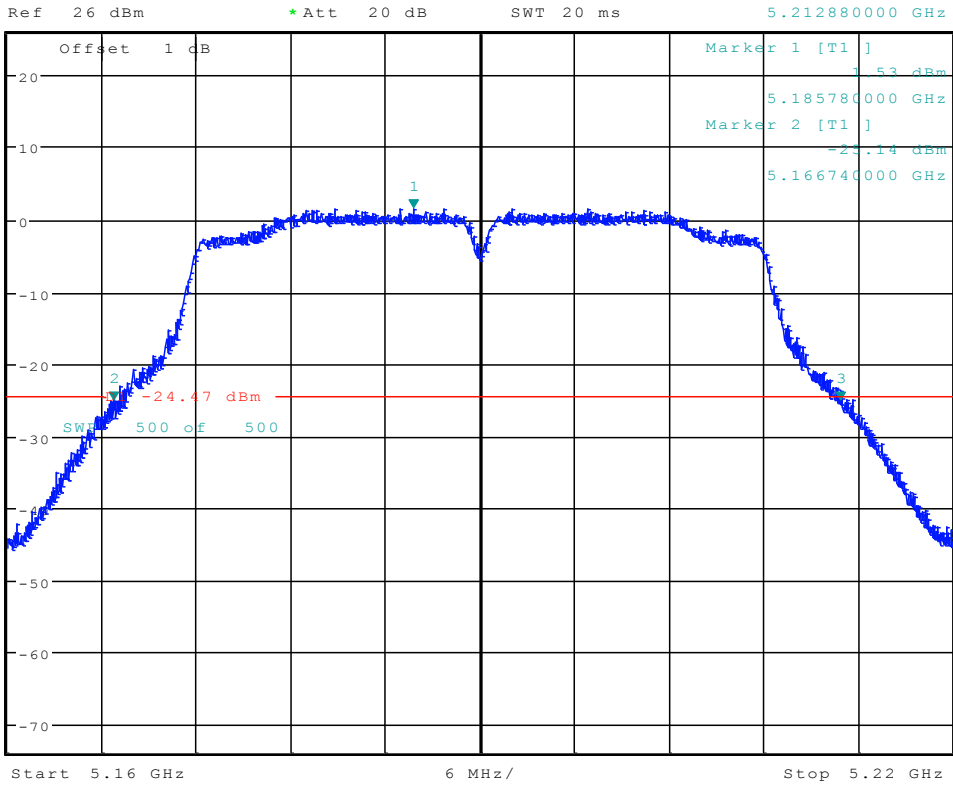
Date: 26.JAN.2018 15:18:03



### 3.99 11AC40\_38 ANT 1



\*RBW 500 kHz      Marker 3 [T1 ]  
 \*VBW 2 MHz      -25.12 dBm  
 SWT 20 ms      5.212880000 GHz



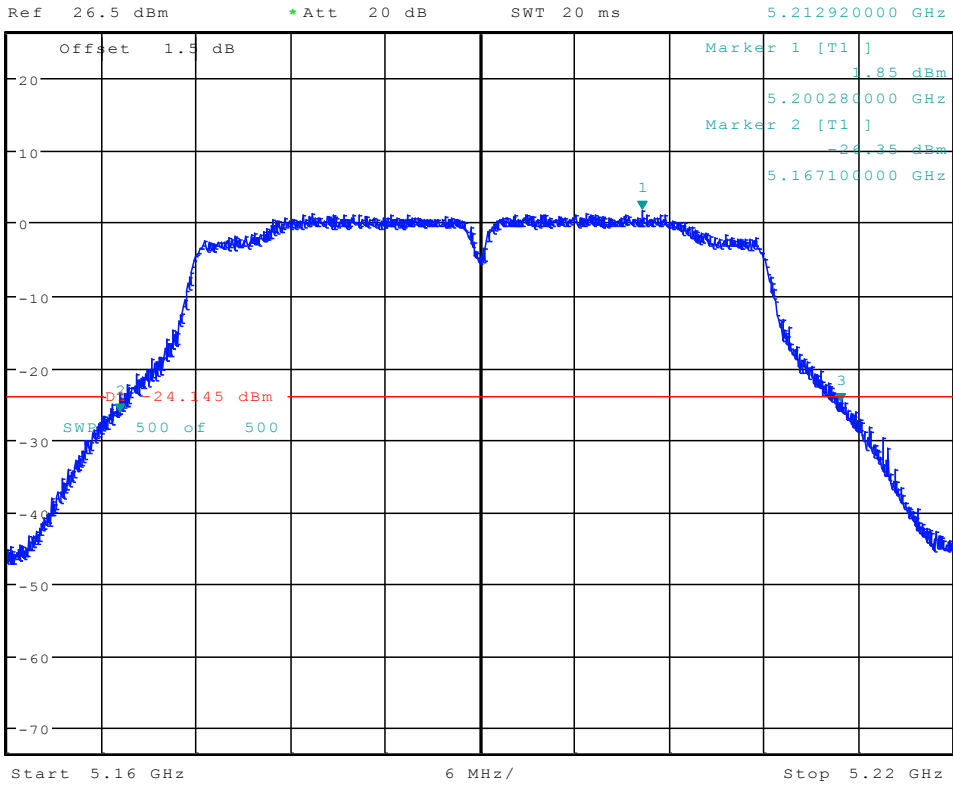
Date: 22.JAN.2018 16:43:38



### 3.100 11AC40\_38 ANT 2



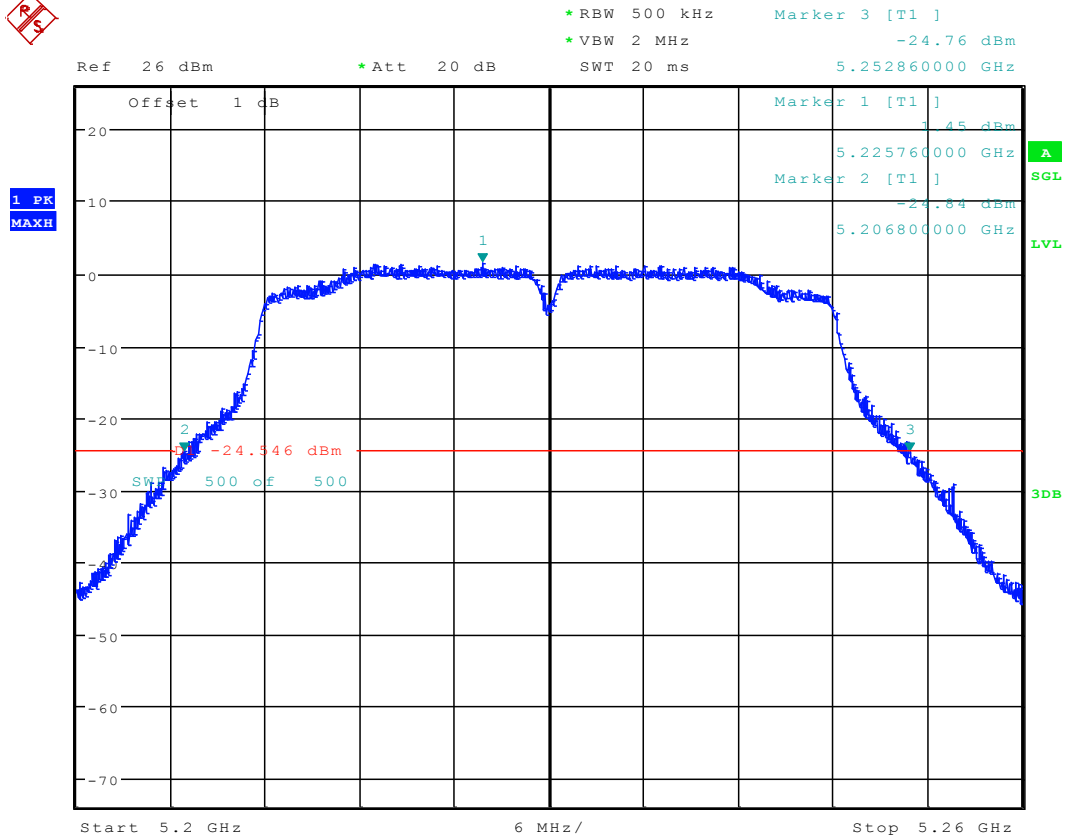
\*RBW 500 kHz      Marker 3 [T1 ]  
 \*VBW 2 MHz      -24.96 dBm  
 SWT 20 ms      5.212920000 GHz



Date: 26.JAN.2018 17:25:36

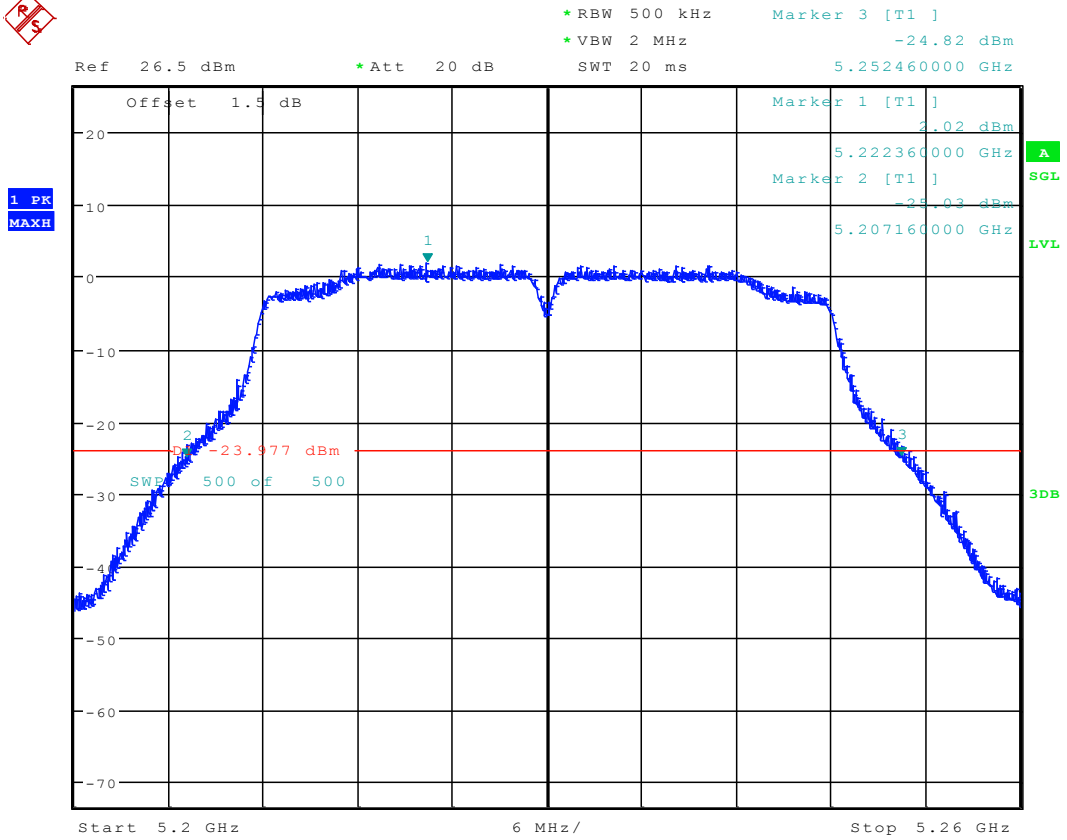


### 3.101 11AC40\_46 ANT 1



Date: 22.JAN.2018 16:46:05

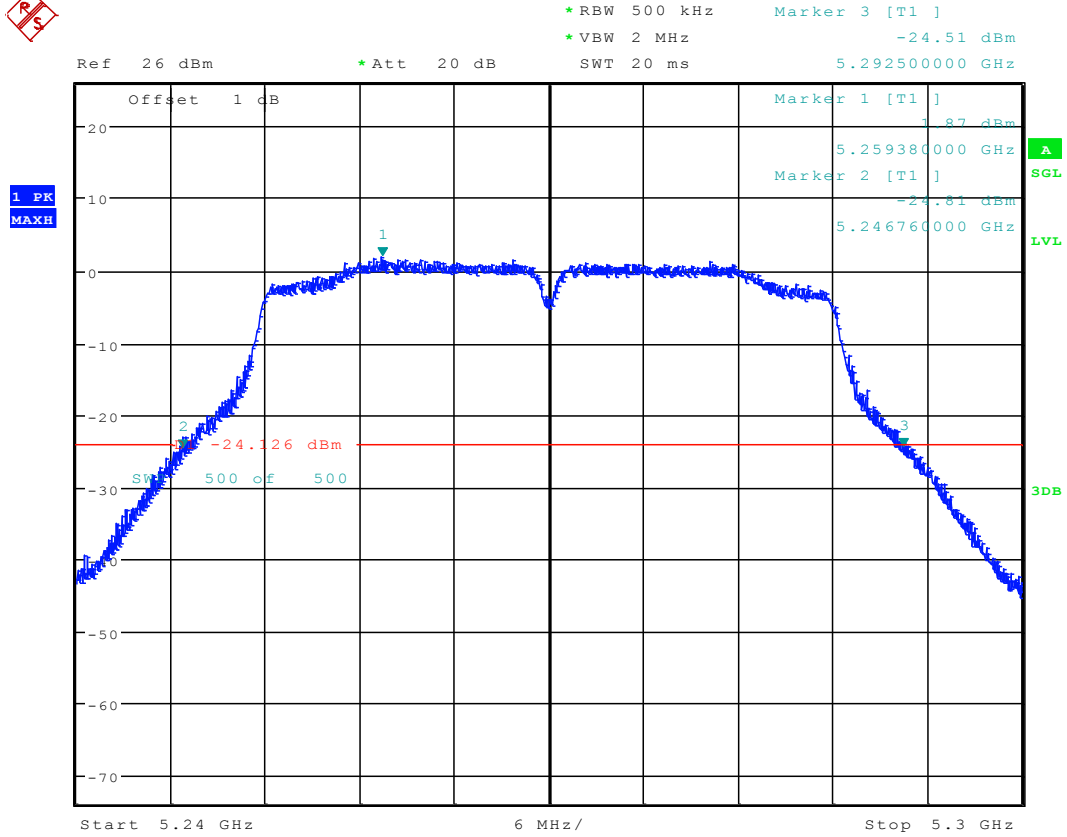
## 3.102 11AC40\_46 ANT 2



Date: 26.JAN.2018 17:28:39



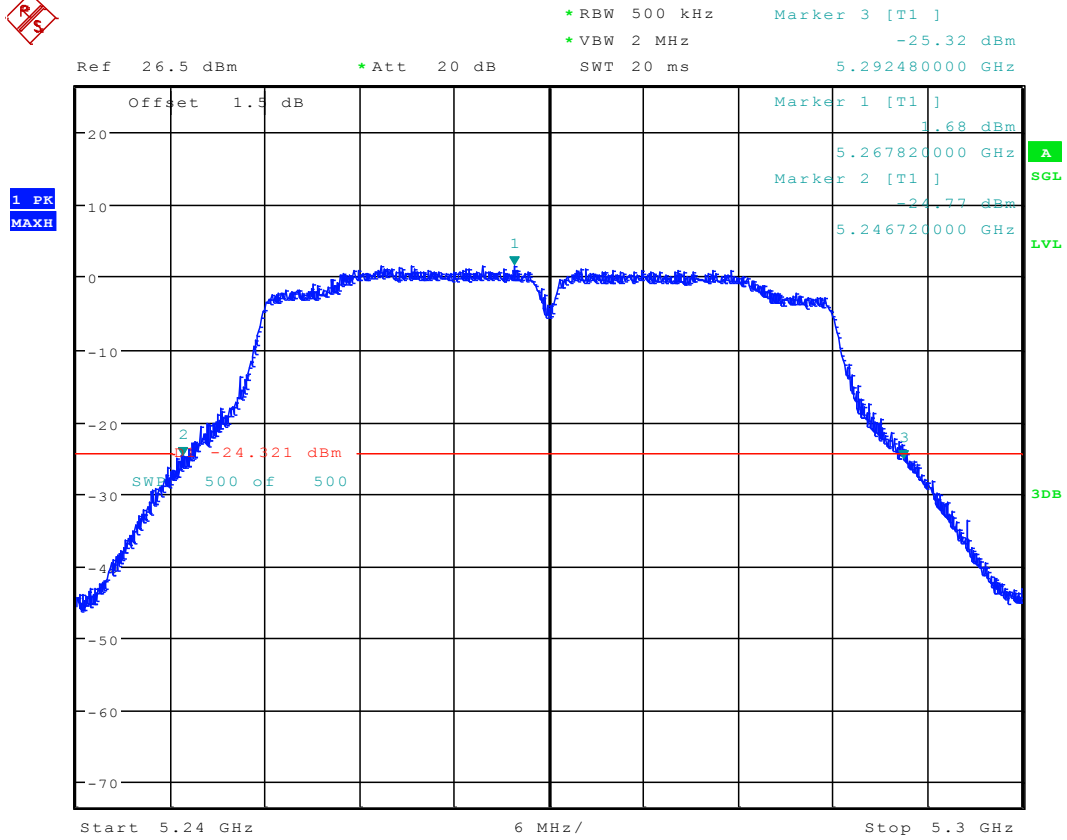
### 3.103 11AC40\_54 ANT 1



Date: 22.JAN.2018 16:49:04

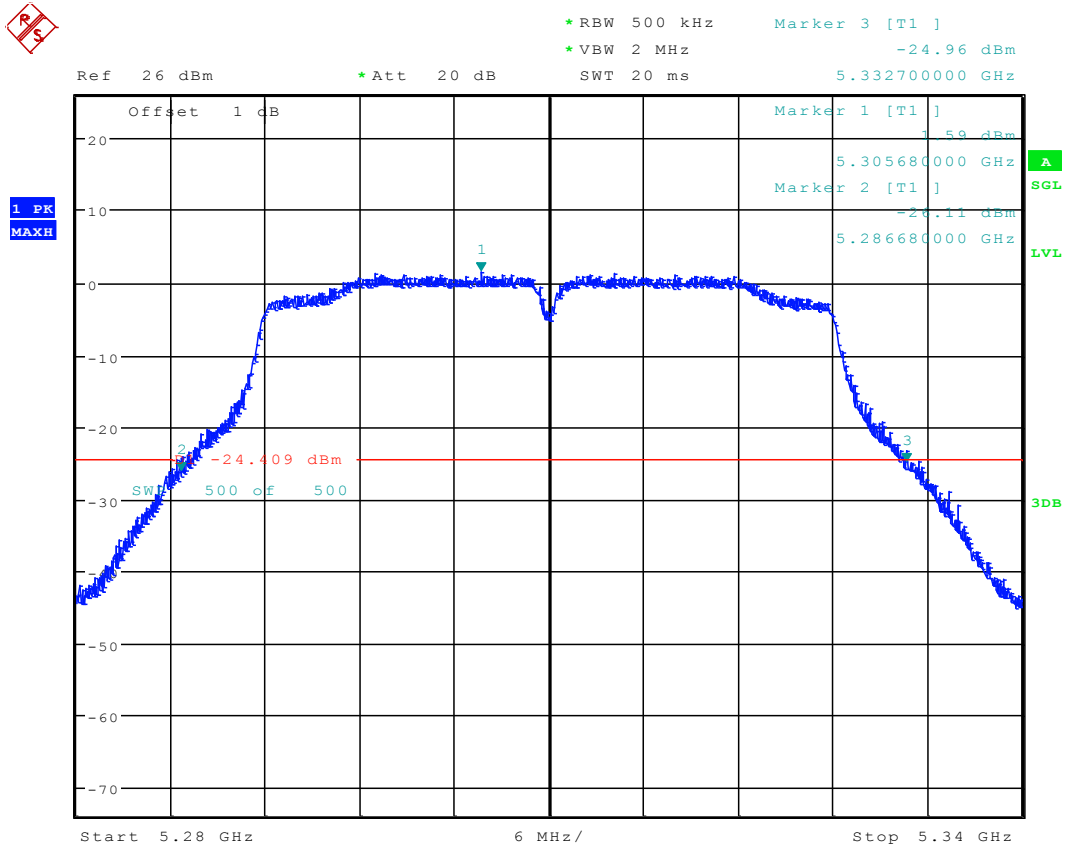


### 3.104 11AC40\_54 ANT 2



Date: 26.JAN.2018 17:32:00

### 3.105 11AC40\_62 ANT 1

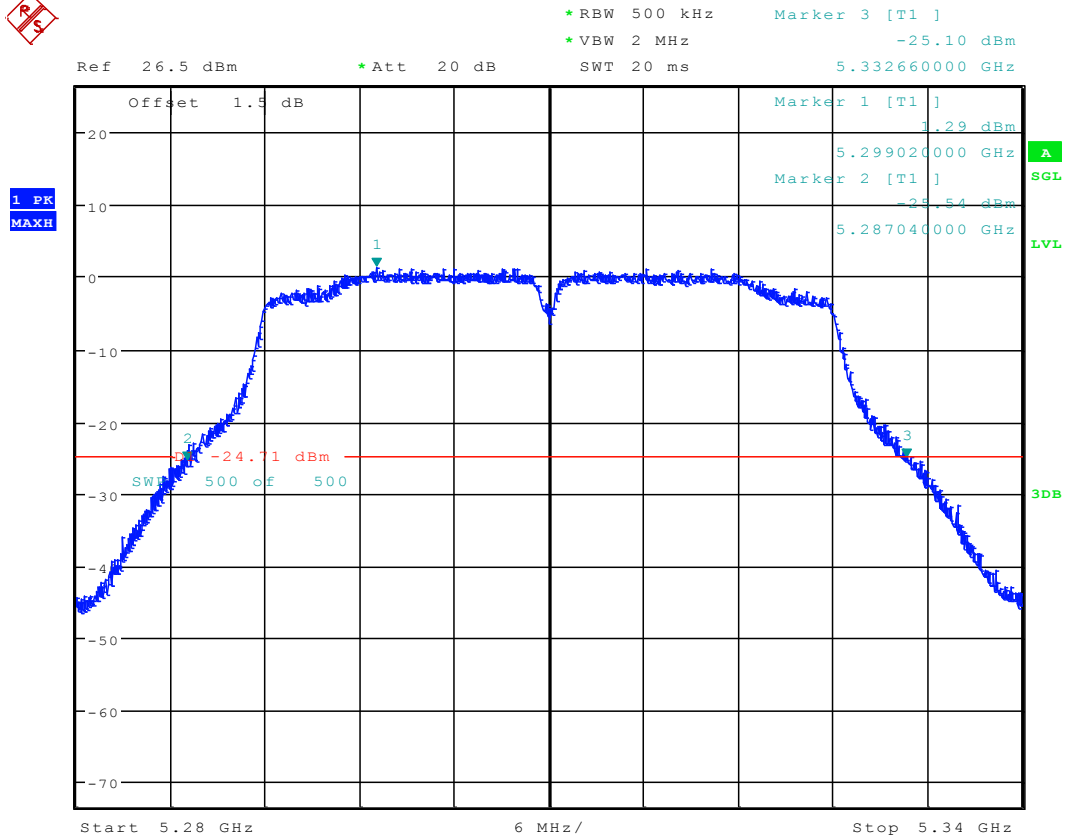


Date: 26.JAN.2018 18:30:59



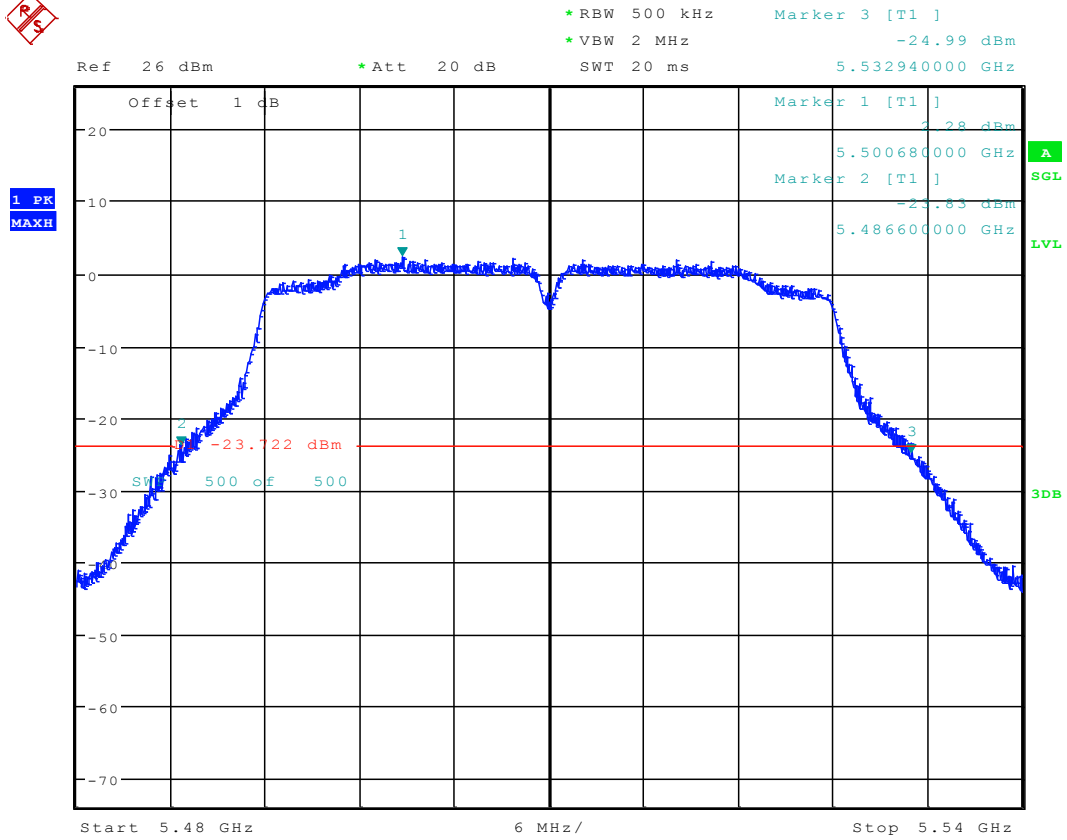


### 3.106 11AC40\_62 ANT 2



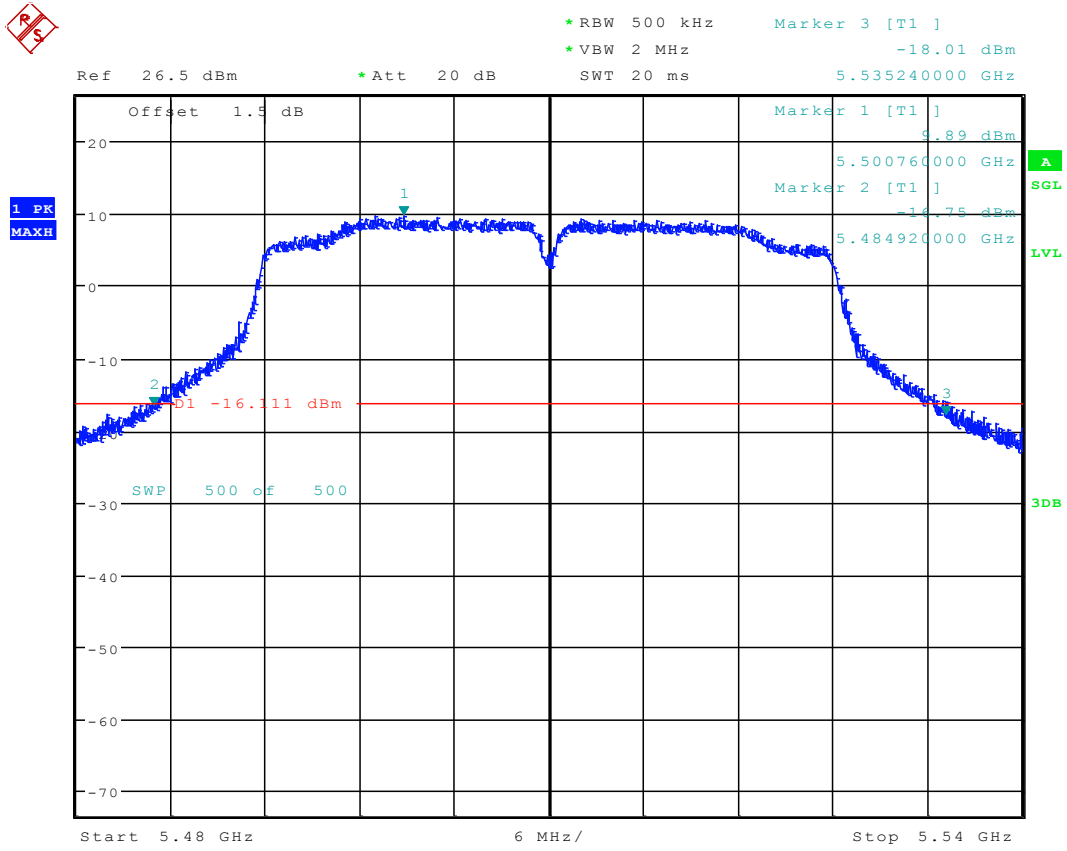
Date: 26.JAN.2018 17:34:56

### 3.107 11AC40\_102 ANT 1



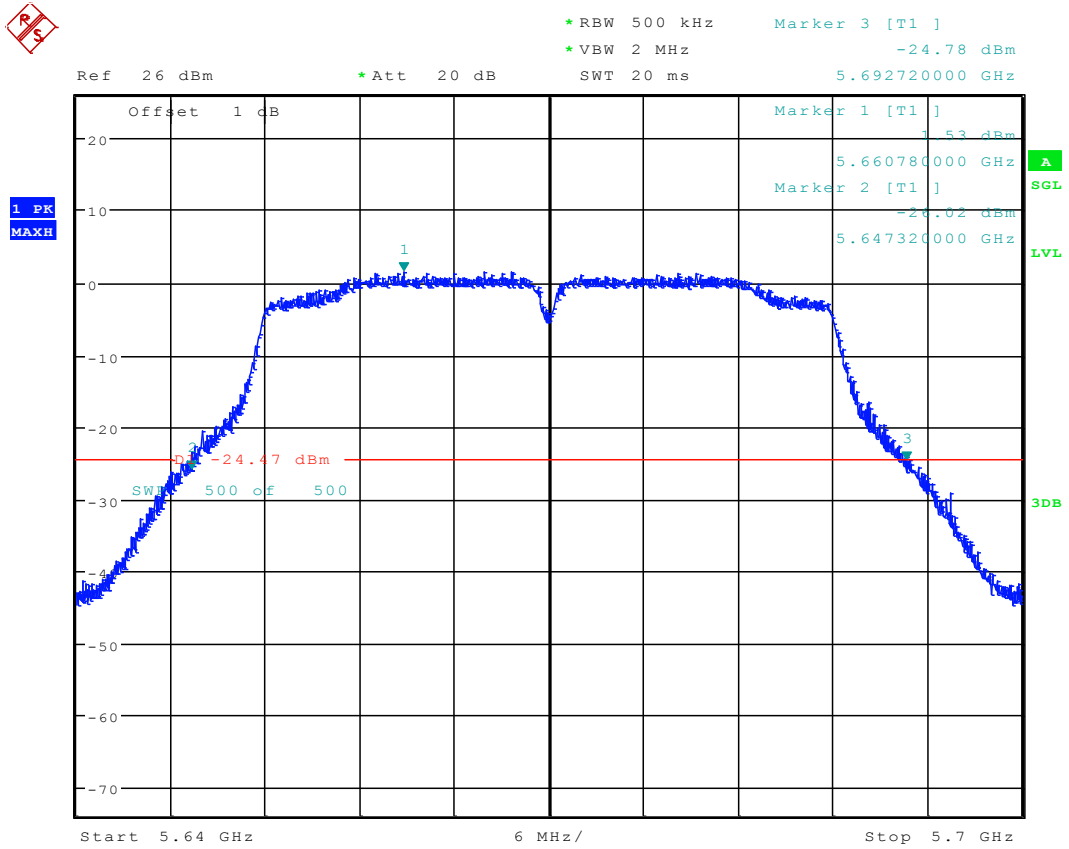
Date: 22.JAN.2018 17:10:46

### 3.108 11AC40\_102 ANT 2



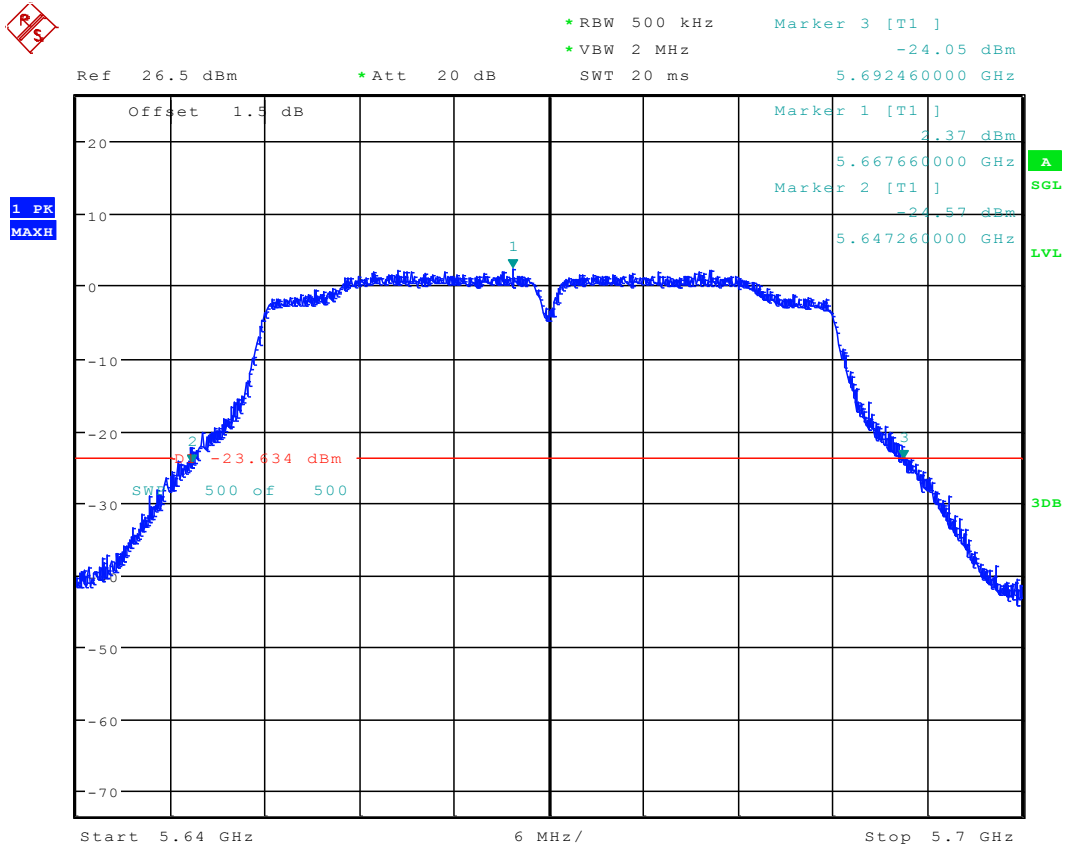
Date: 26.JAN.2018 17:37:46

## 3.109 11AC40\_134 ANT 1



Date: 22.JAN.2018 17:14:40

### 3.110 11AC40\_134 ANT 2



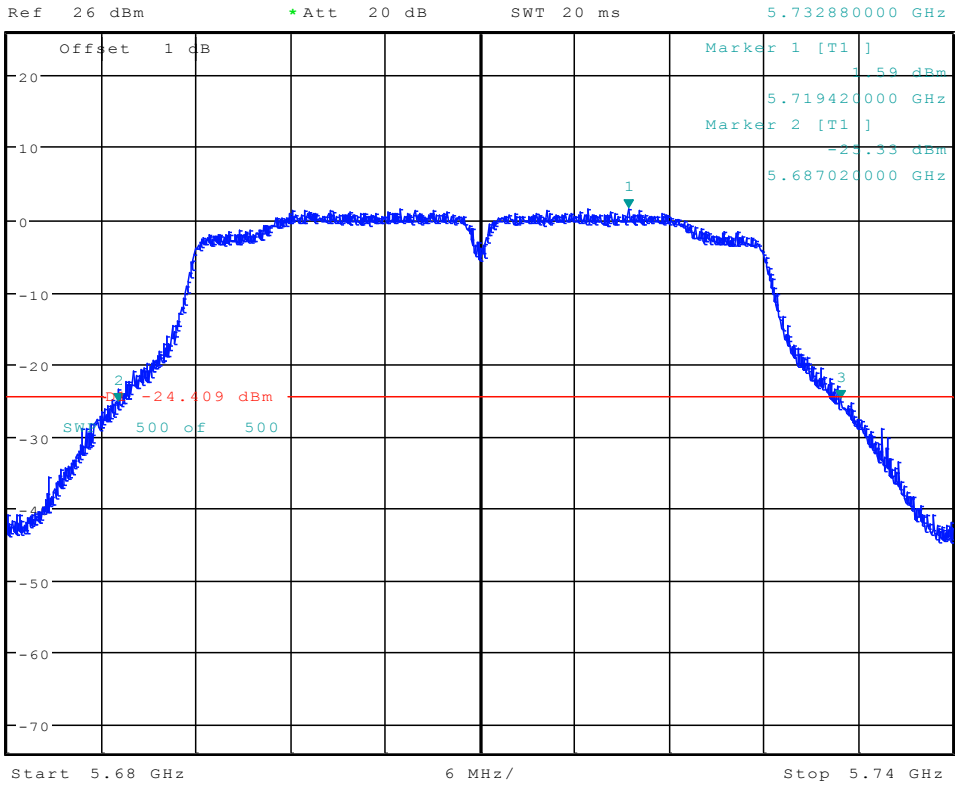
Date: 26.JAN.2018 17:40:31



### 3.111 11AC40\_142 ANT 1

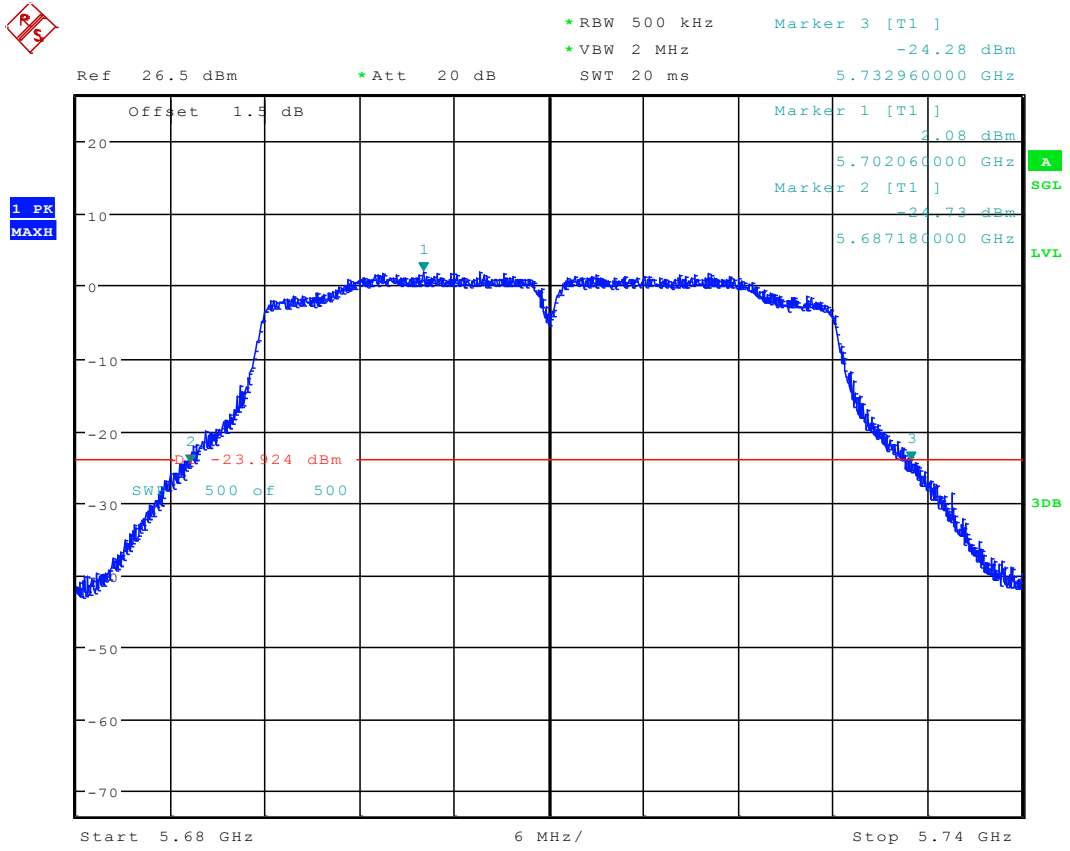


\*RBW 500 kHz      Marker 3 [T1 ]  
 \*VBW 2 MHz      -25.04 dBm  
 SWT 20 ms      5.732880000 GHz



Date: 22.JAN.2018 17:18:02

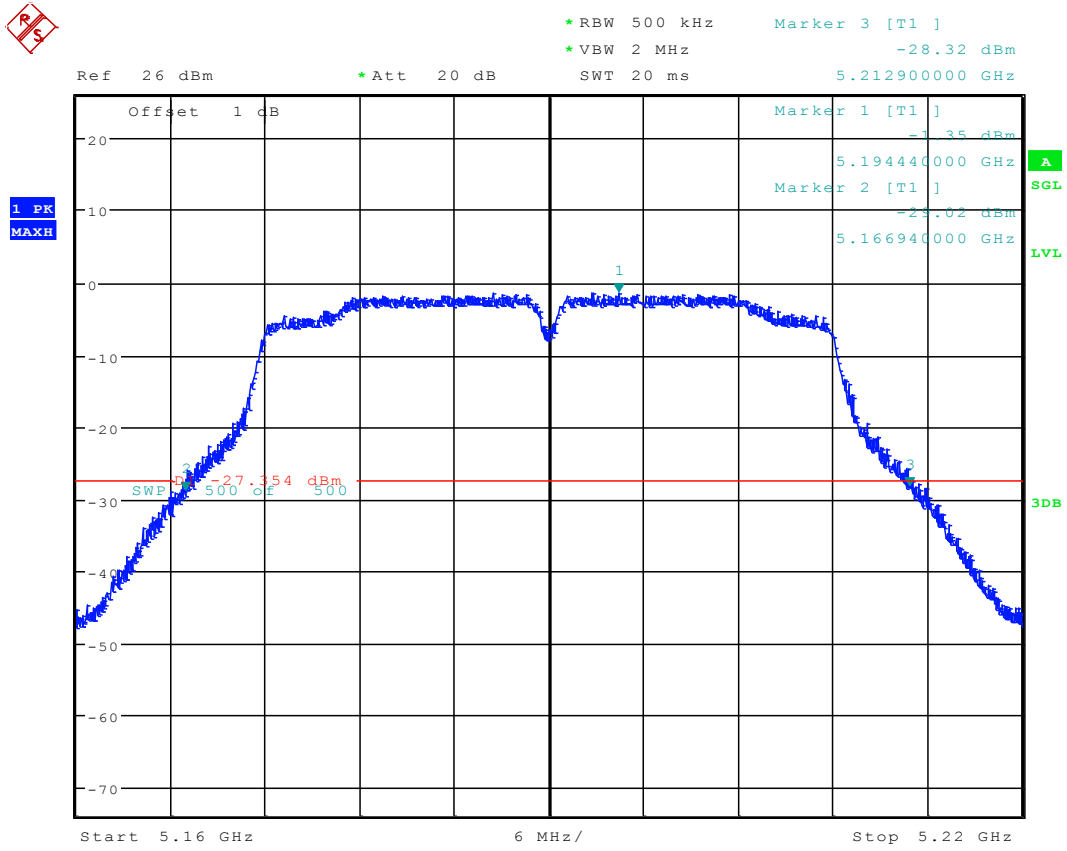
### 3.112 11AC40\_142 ANT 2



Date: 26.JAN.2018 17:43:11



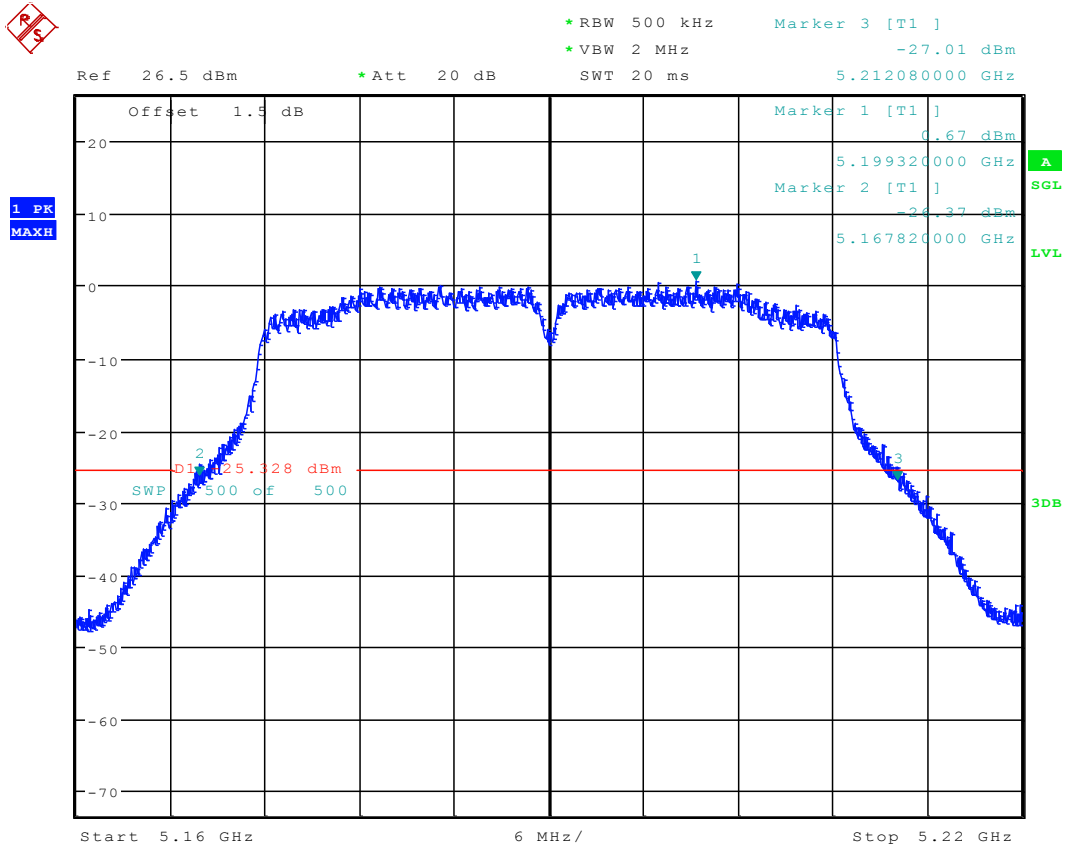
### 3.113 11AC40MIMO\_38 ANT 1



Date: 23.JAN.2018 16:06:01

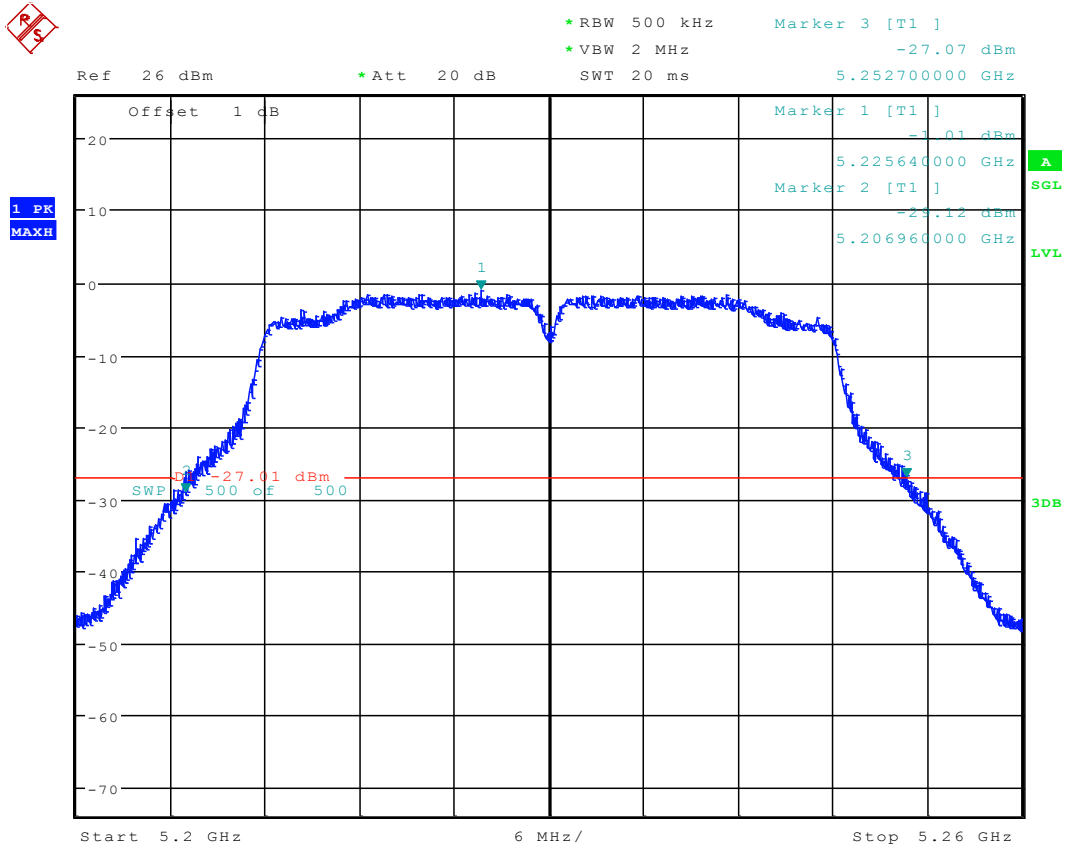


### 3.114 11AC40MIMO\_38 ANT 2



Date: 26.JAN.2018 15:55:21

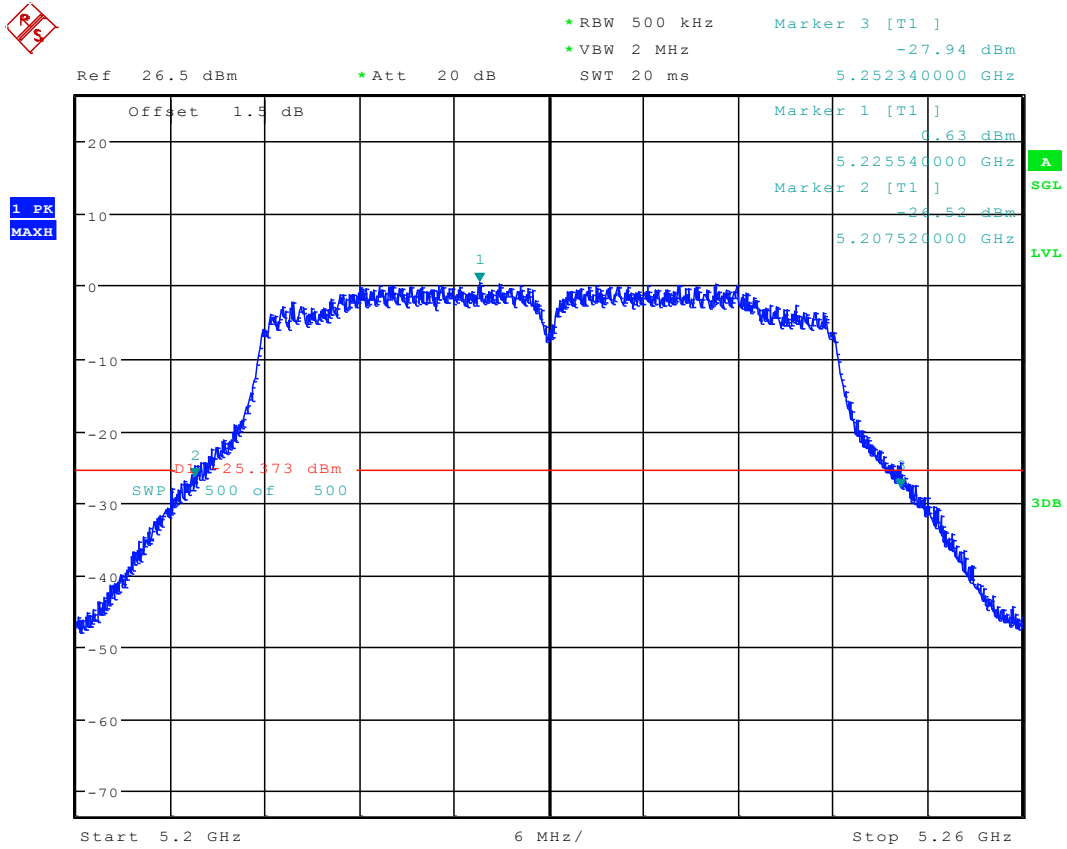
### 3.115 11AC40MIMO\_46 ANT 1



Date: 23.JAN.2018 16:08:28

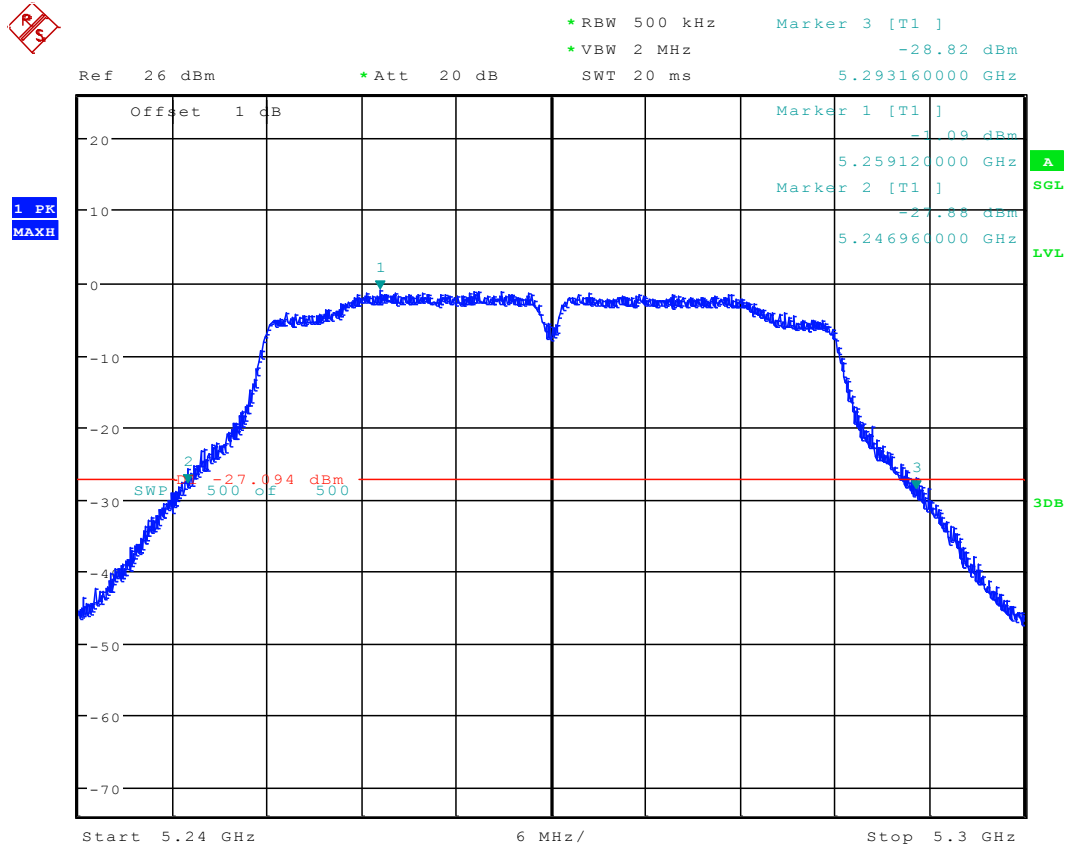


### 3.116 11AC40MIMO\_46 ANT 2



Date: 26.JAN.2018 15:57:52

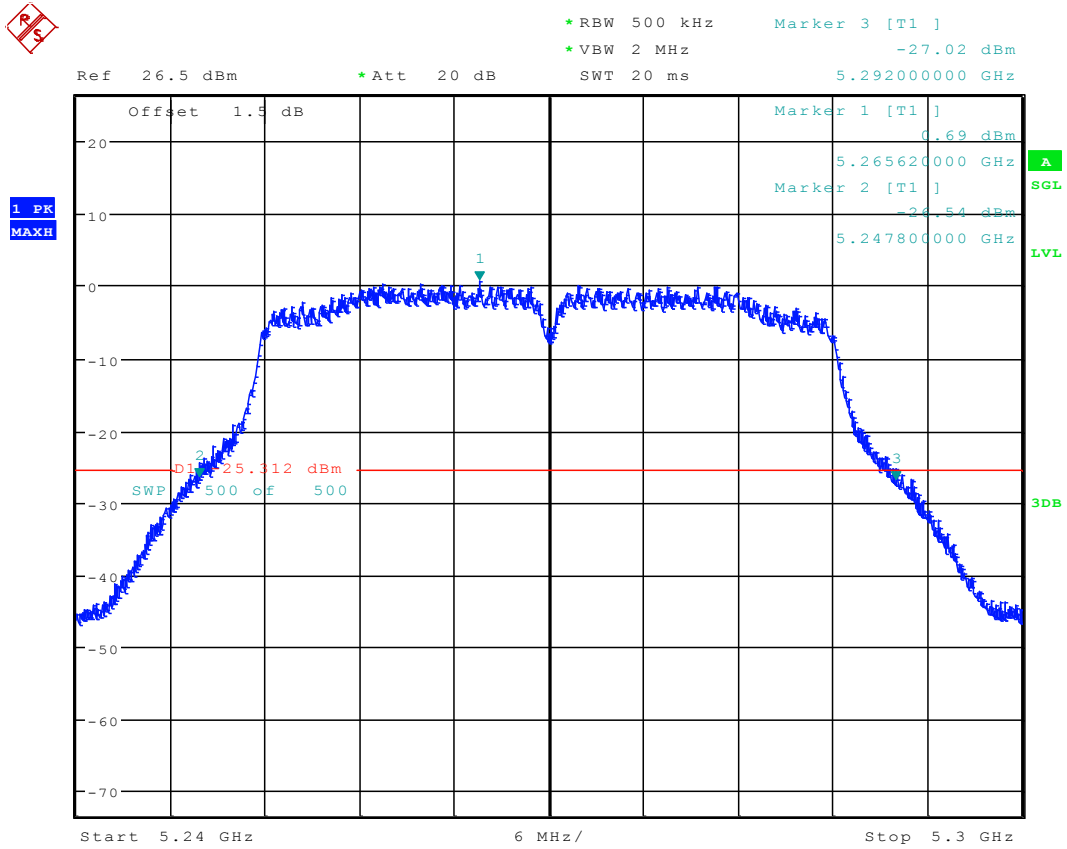
## 3.117 11AC40MIMO\_54 ANT 1



Date: 23.JAN.2018 16:11:25

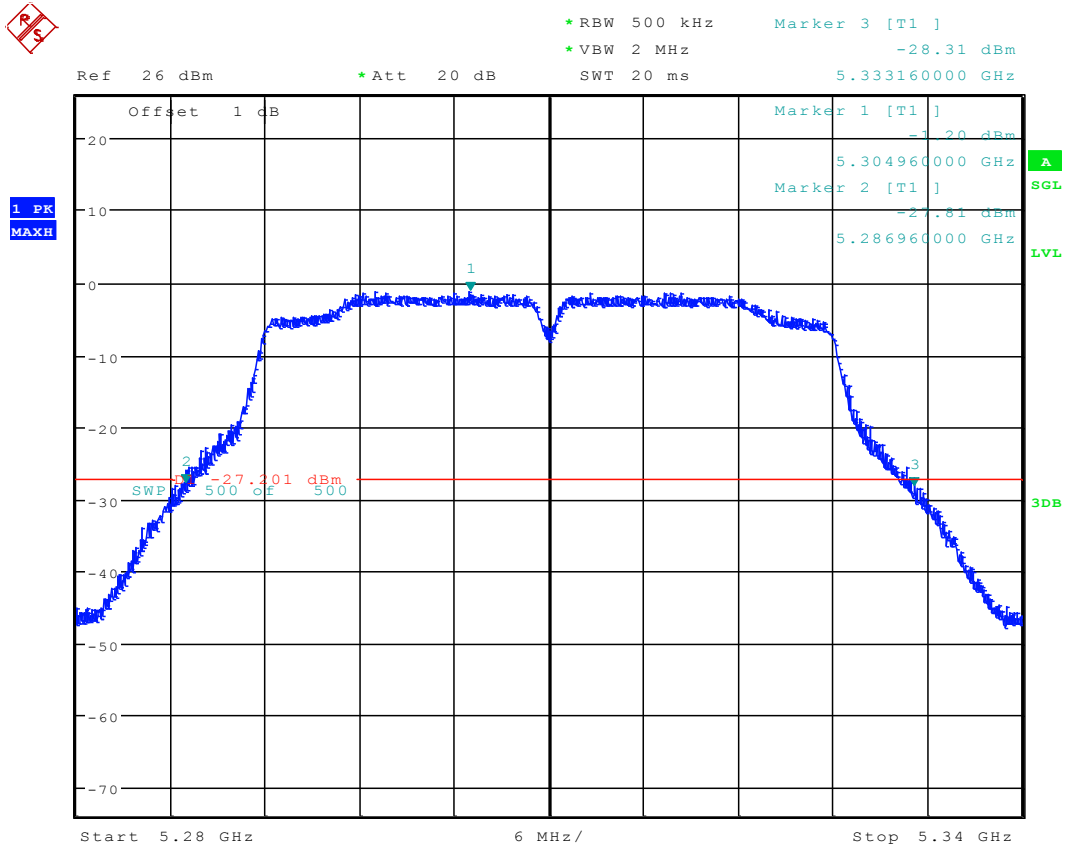


### 3.118 11AC40MIMO\_54 ANT 2



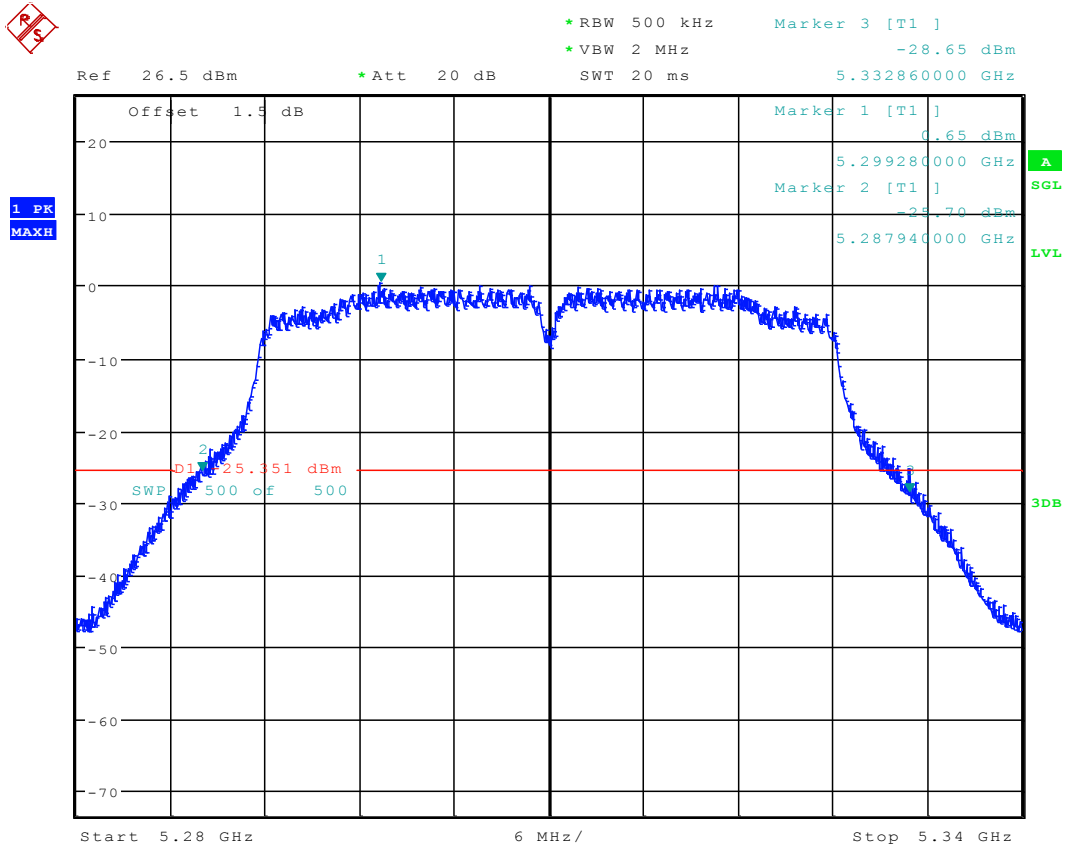
Date: 26.JAN.2018 16:03:11

### 3.119 11AC40MIMO\_62 ANT 1



Date: 23.JAN.2018 16:13:56

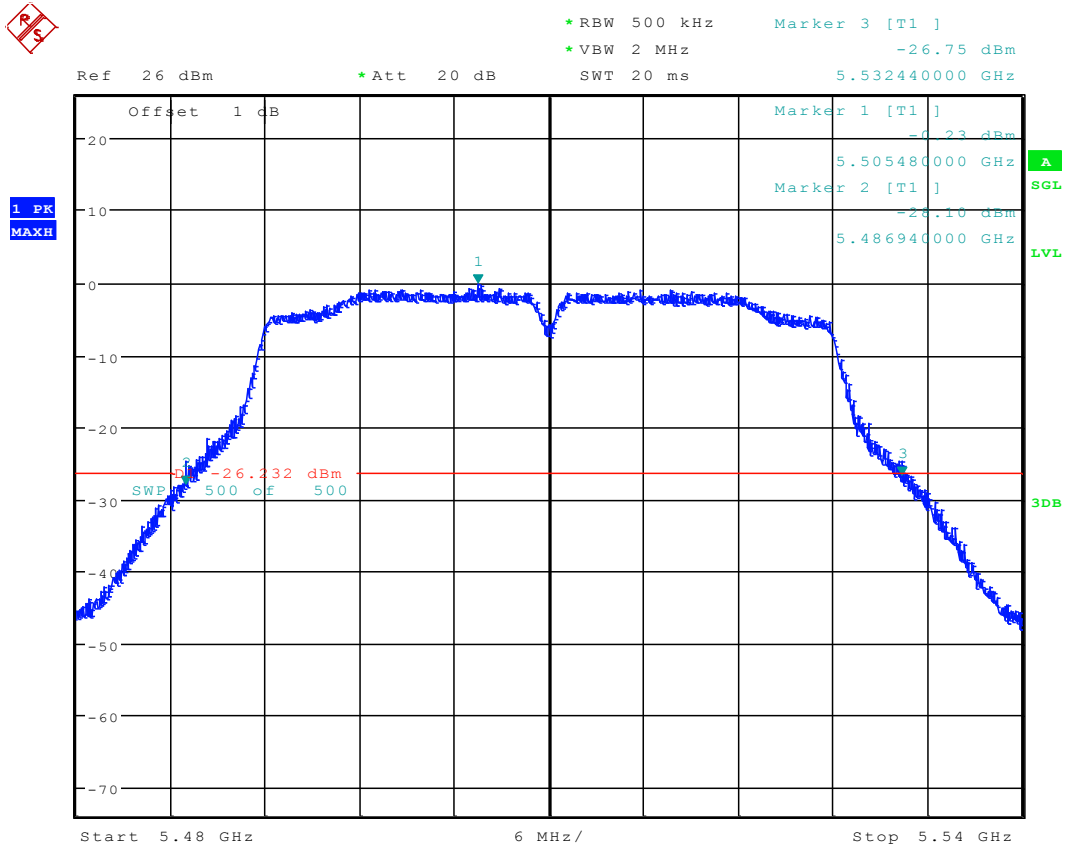
### 3.120 11AC40MIMO\_62 ANT 2



Date: 26.JAN.2018 16:05:46



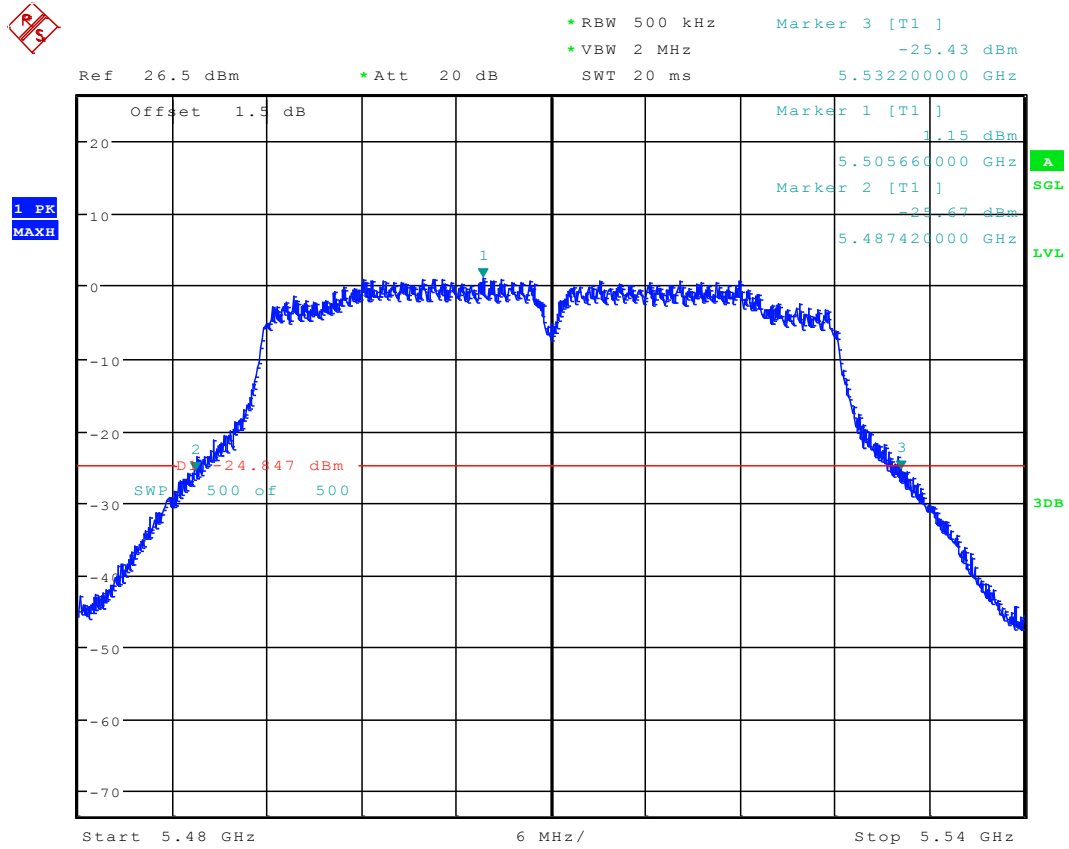
### 3.121 11AC40MIMO\_102 ANT 1



Date: 23.JAN.2018 16:16:36

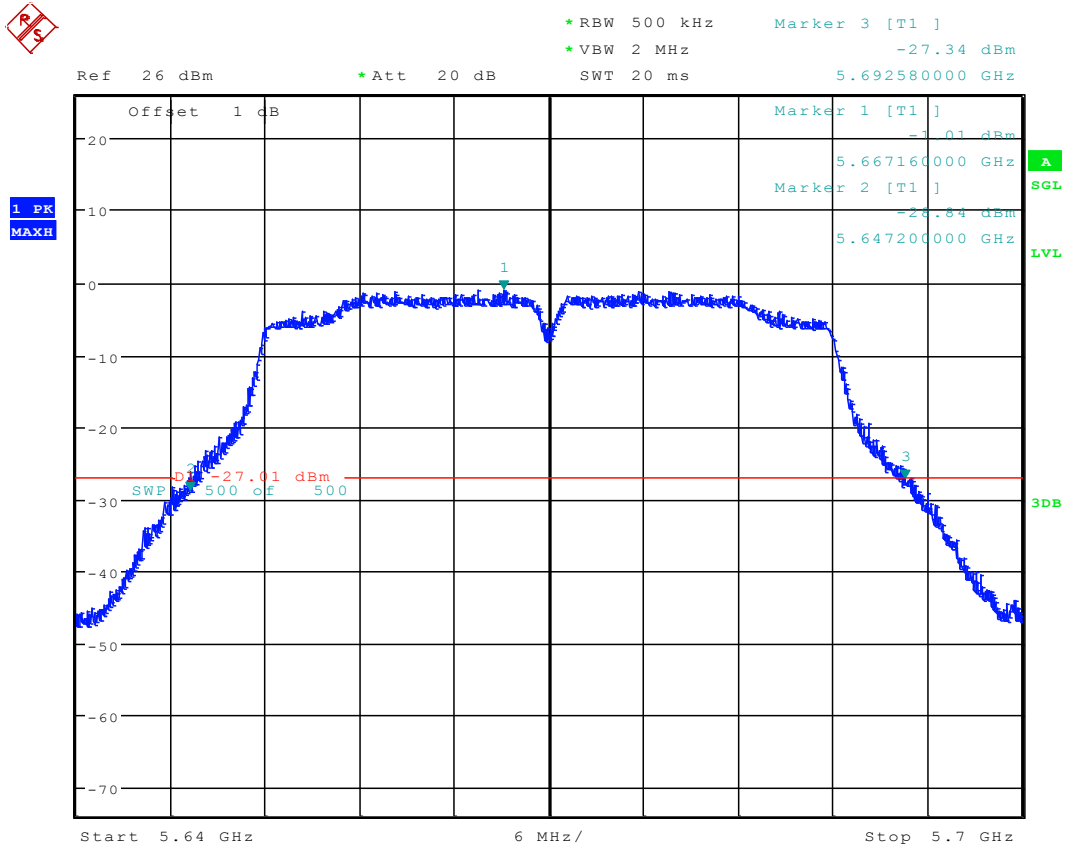


### 3.122 11AC40MIMO\_102 ANT 2



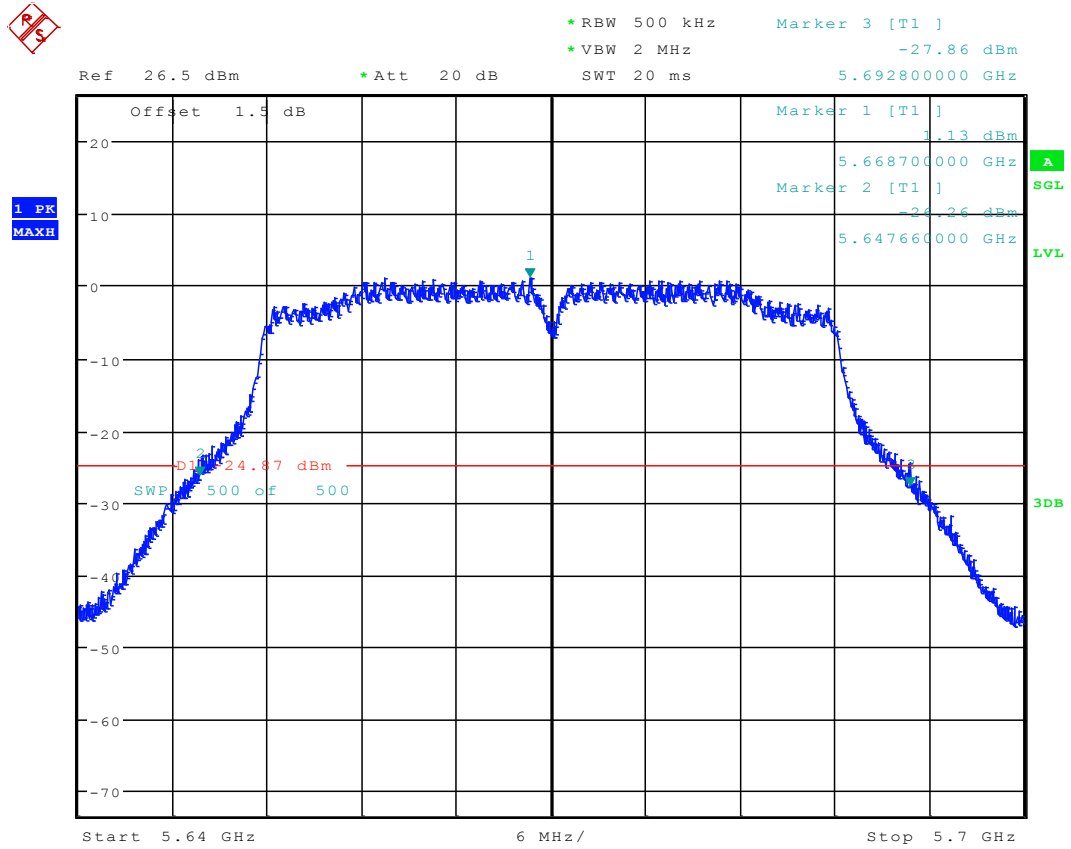
Date: 26.JAN.2018 16:08:30

### 3.123 11AC40MIMO\_134 ANT 1



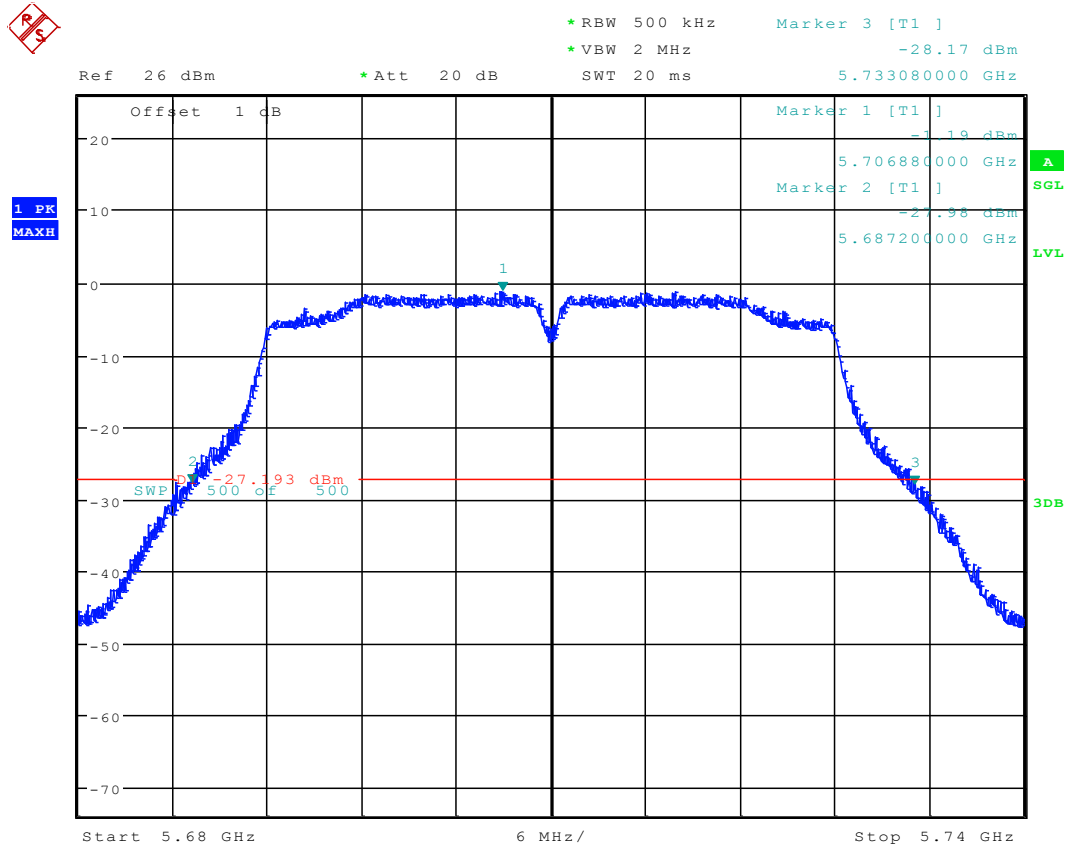
Date: 23.JAN.2018 16:18:57

## 3.124 11AC40MIMO\_134 ANT 2



Date: 26.JAN.2018 16:10:53

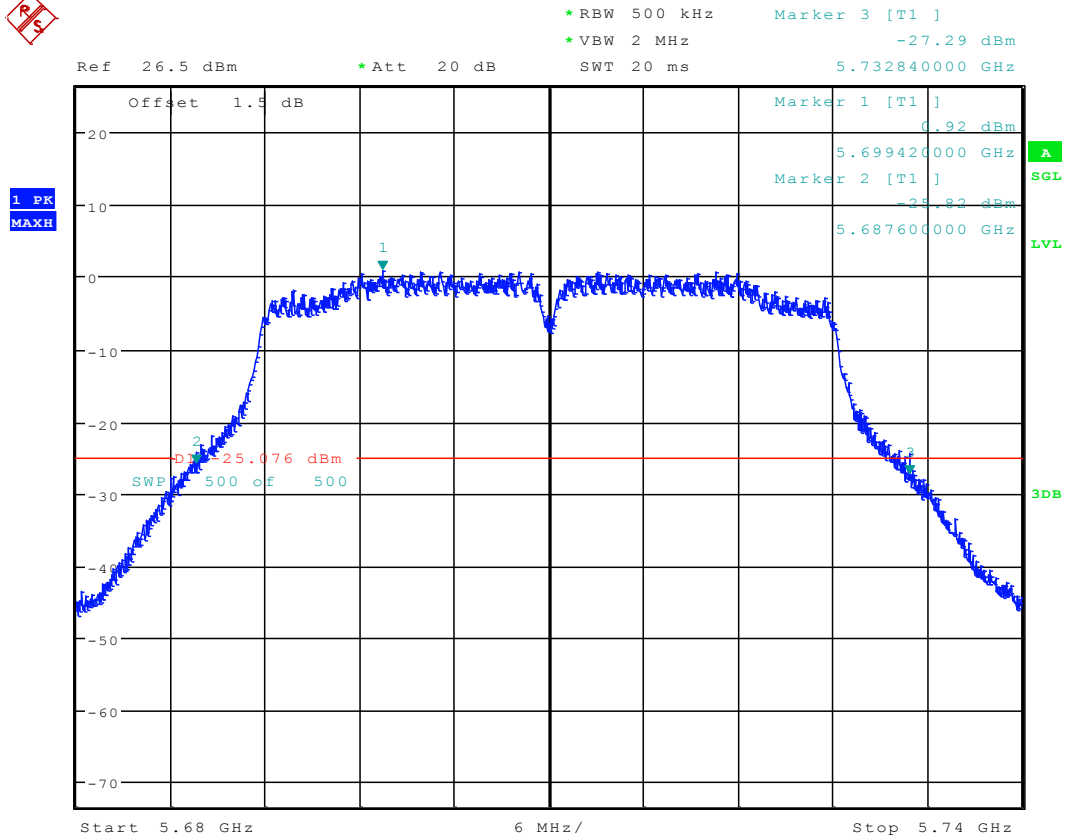
## 3.125 11AC40MIMO\_142 ANT 1



Date: 23.JAN.2018 16:21:25

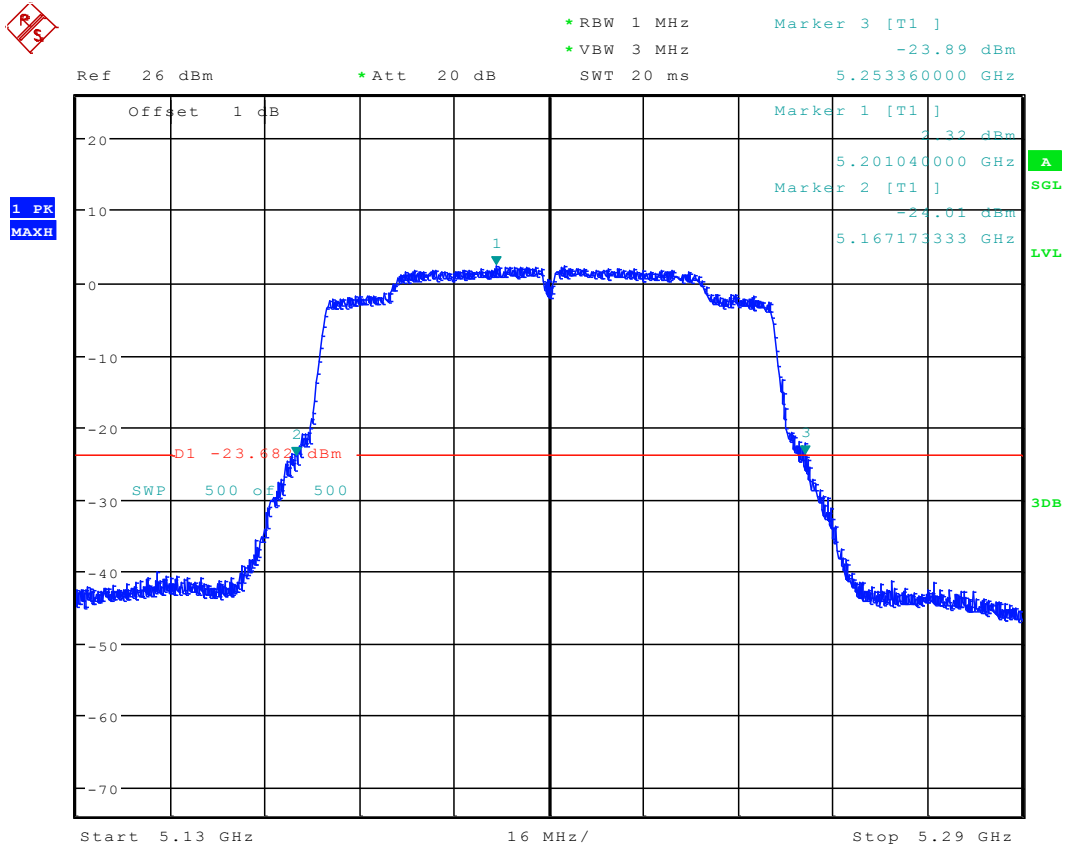


### 3.126 11AC40MIMO\_142 ANT 2



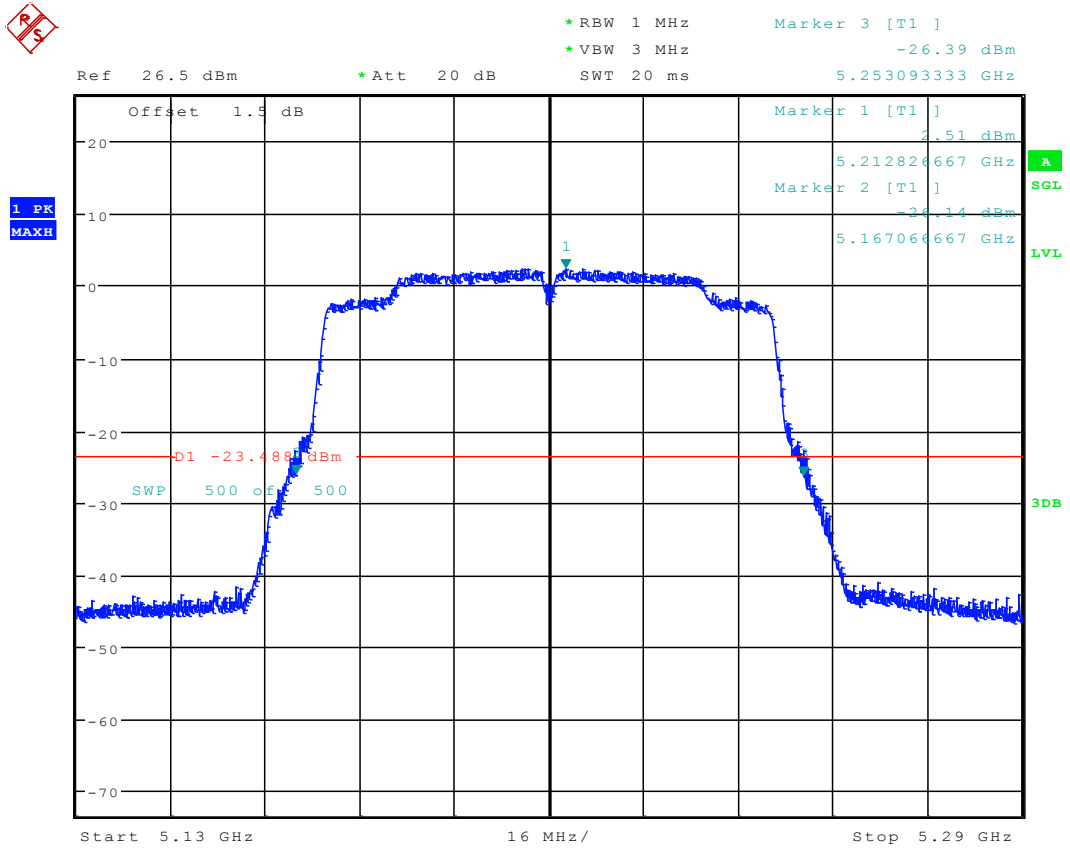
Date: 26.JAN.2018 16:13:10

### 3.127 11AC80\_42 ANT 1



Date: 22.JAN.2018 17:28:24

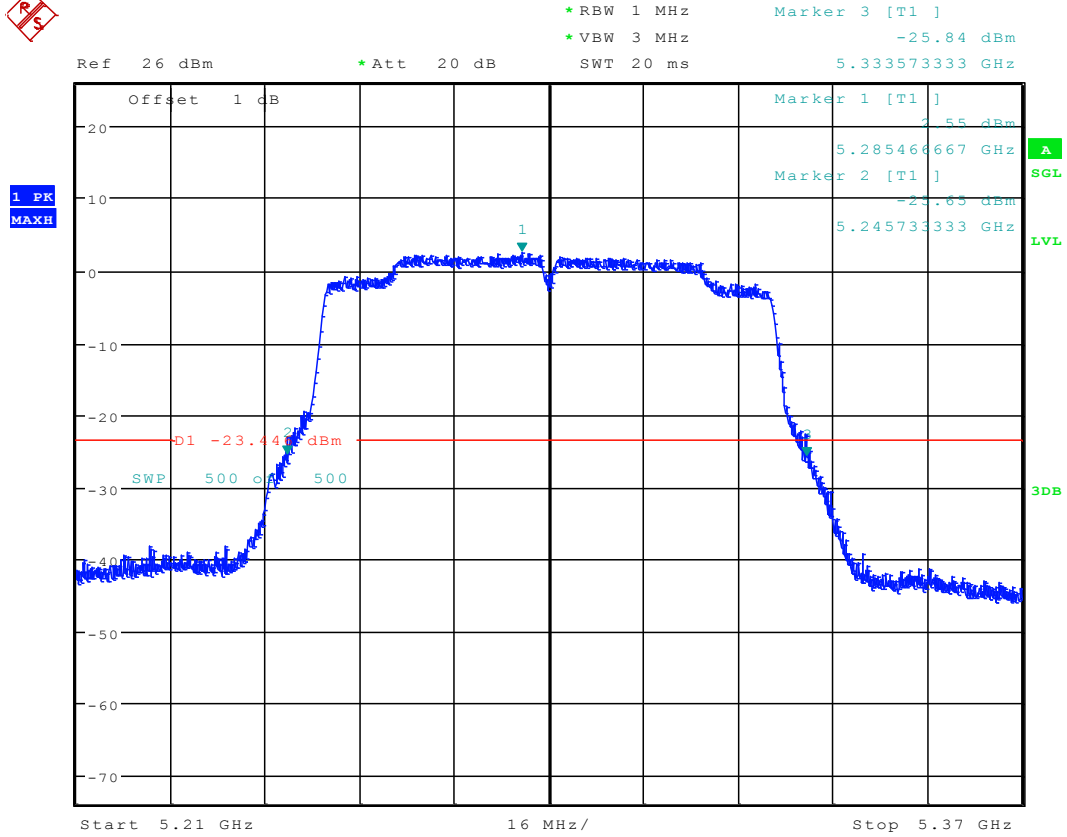
### 3.128 11AC80\_42 ANT 2



Date: 26.JAN.2018 17:54:27



### 3.129 11AC80\_58 ANT 1



Date: 22.JAN.2018 17:33:54

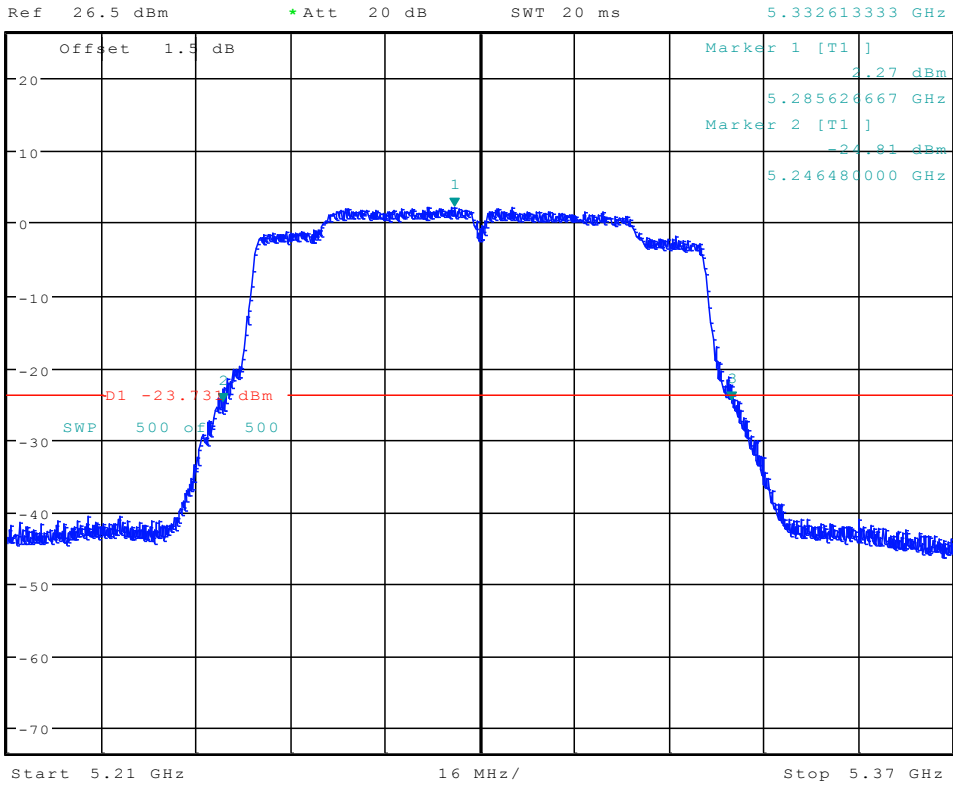




### 3.130 11AC80\_58 ANT 2

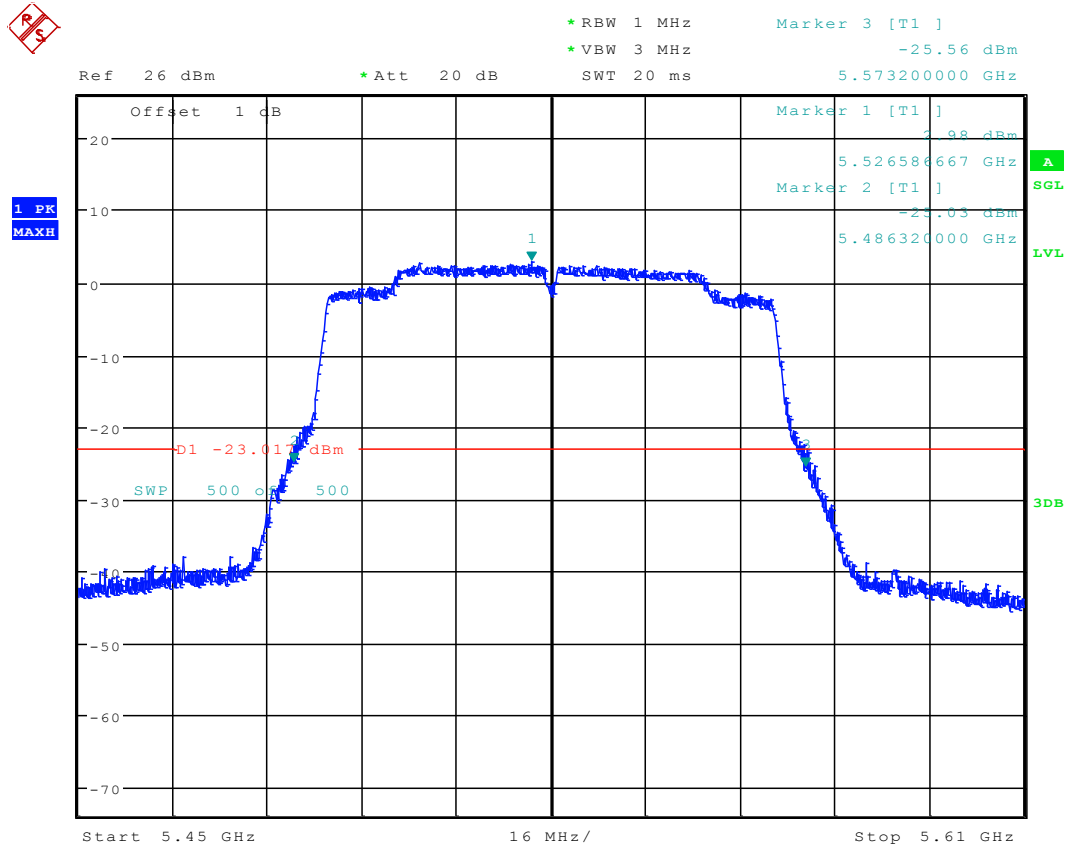


\*RBW 1 MHz      Marker 3 [T1 ]  
 \*VBW 3 MHz      -24.64 dBm  
 SWT 20 ms      5.332613333 GHz



Date: 26.JAN.2018 17:58:27

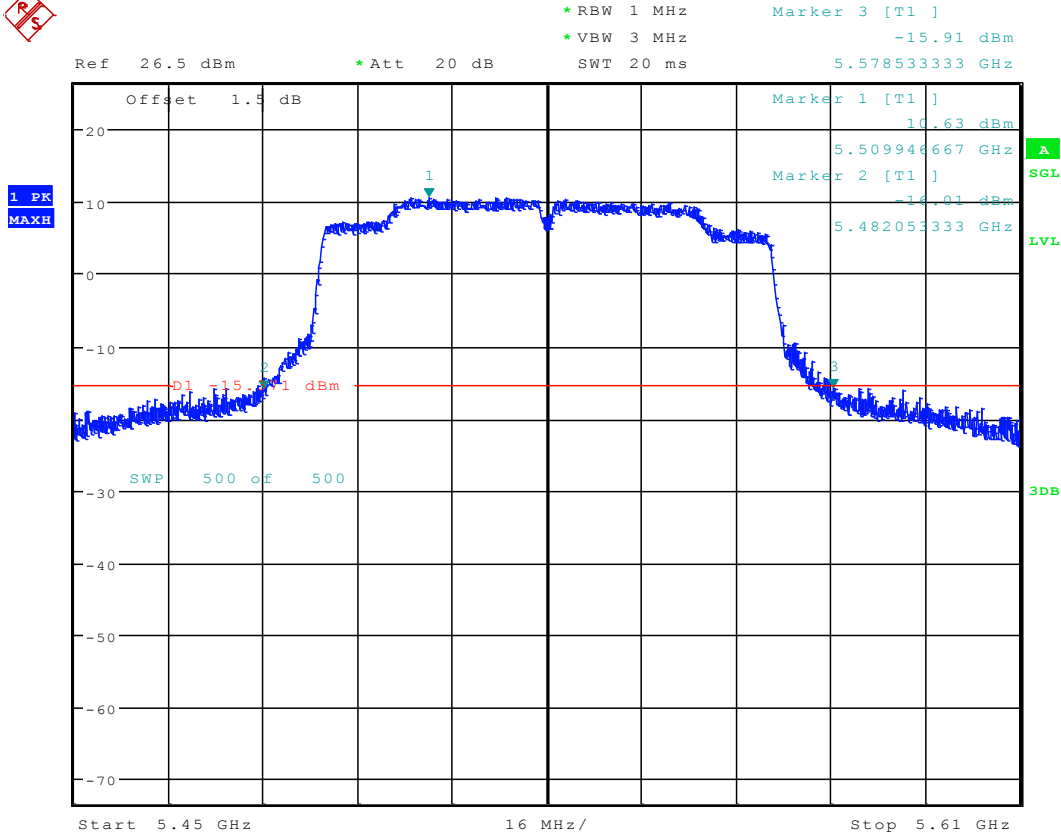
## 3.131 11AC80\_106 ANT 1



Date: 22.JAN.2018 17:38:10

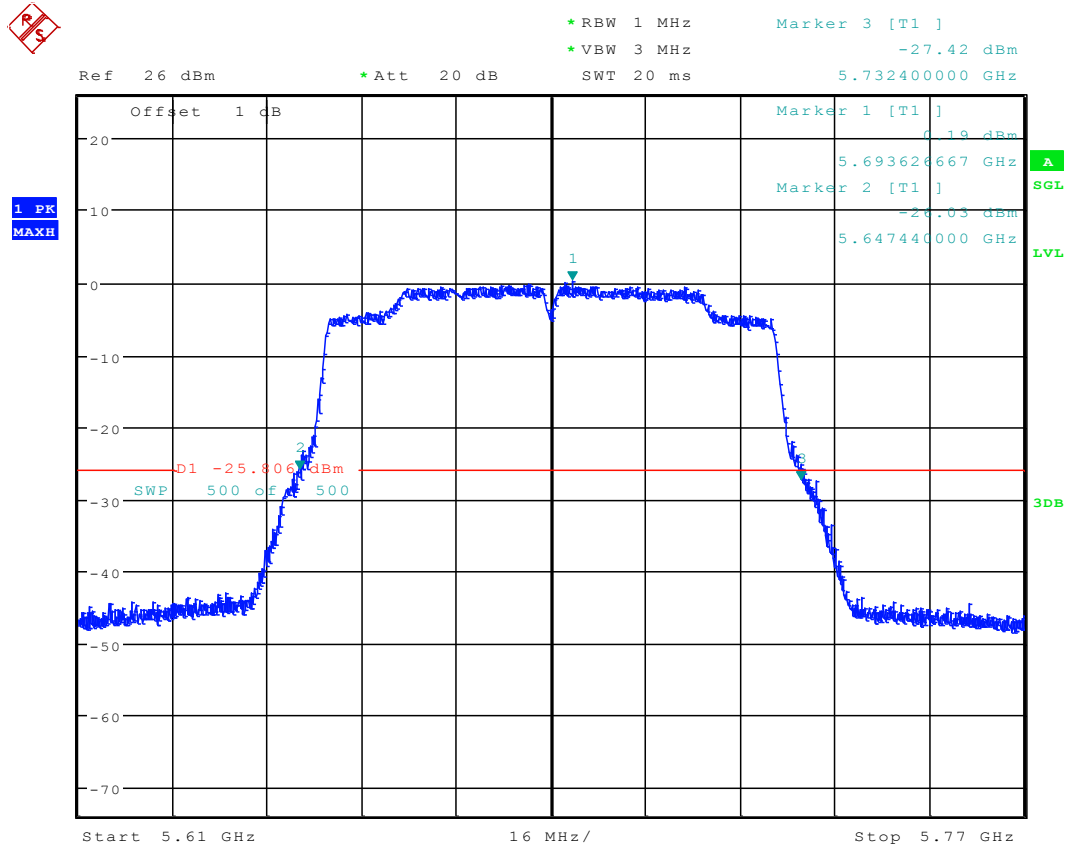


### 3.132 11AC80\_106 ANT 2



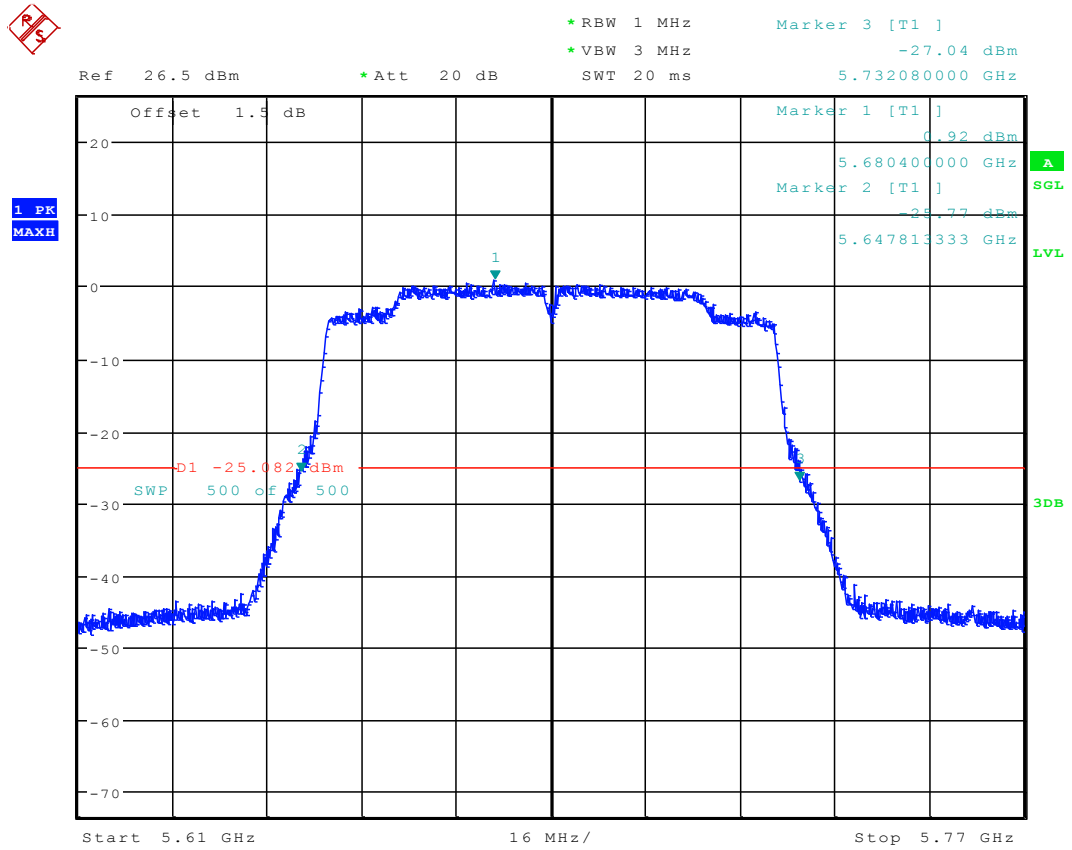
Date: 26.JAN.2018 18:02:31

### 3.133 11AC80\_138 ANT 1



Date: 23.JAN.2018 17:00:34

## 3.134 11AC80\_138 ANT 2



Date: 26.JAN.2018 16:55:43

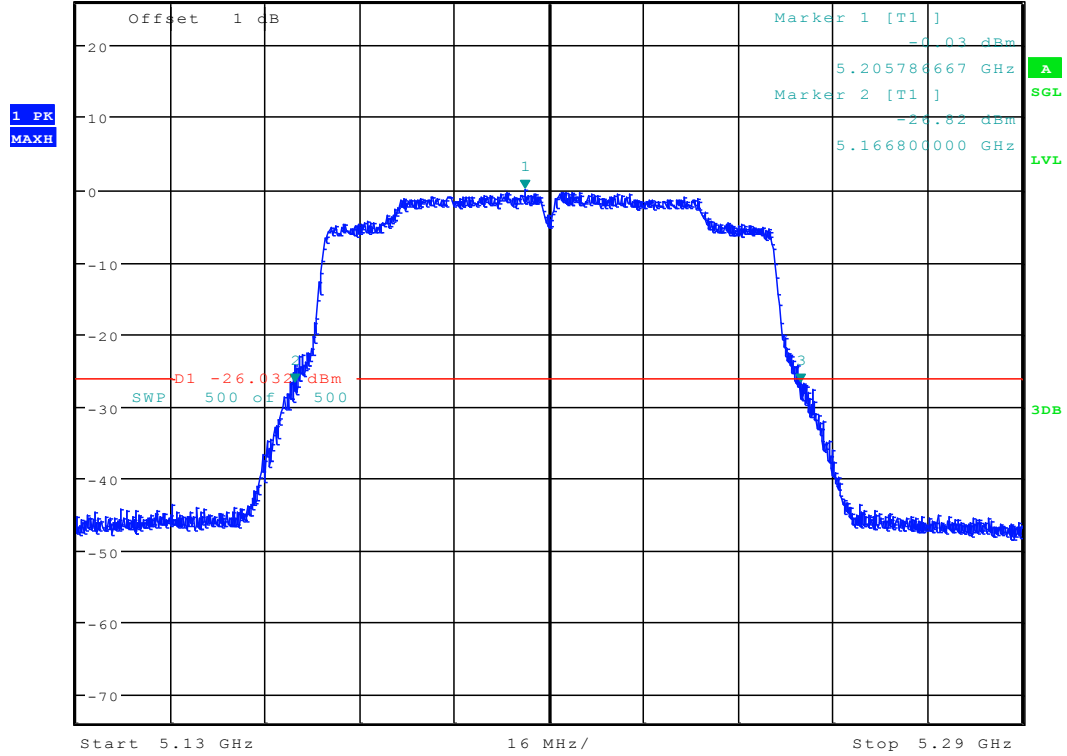
### 3.135 11AC80MIMO\_42 ANT 1



\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

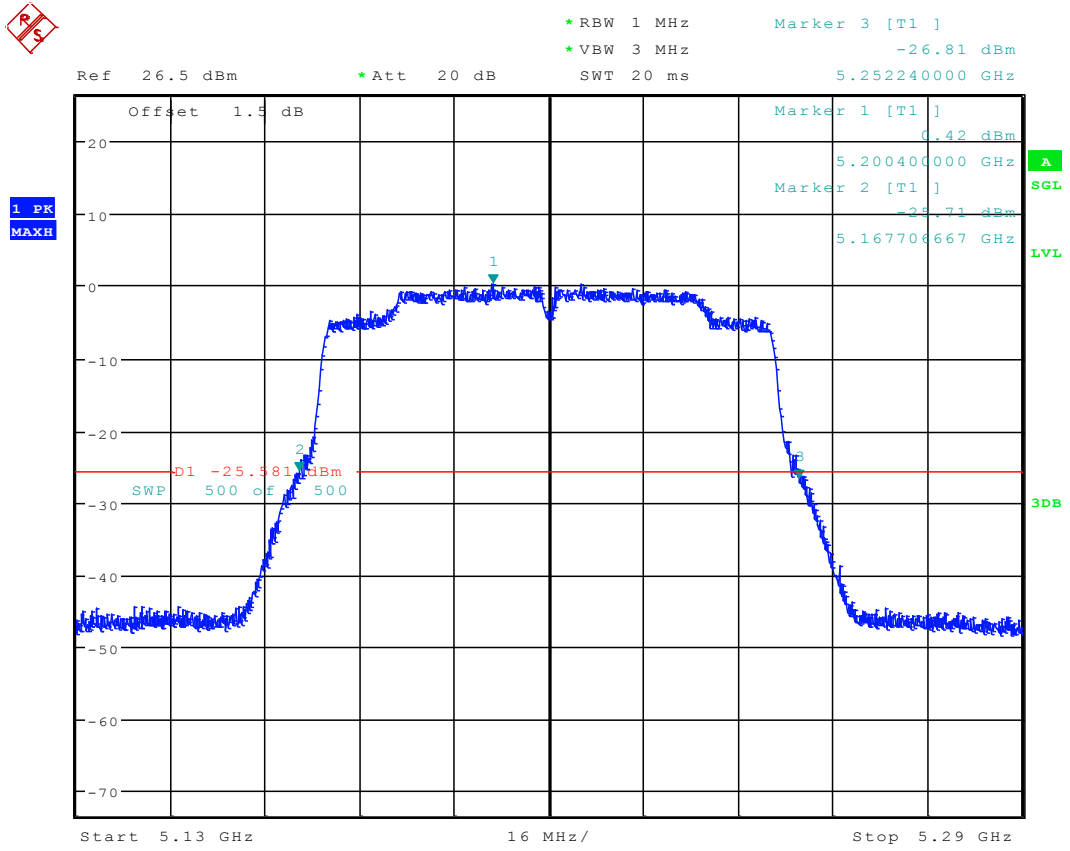
Marker 3 [T1 ]  
 -26.75 dBm  
 5.252453333 GHz

Ref 26 dBm \*Att 20 dB



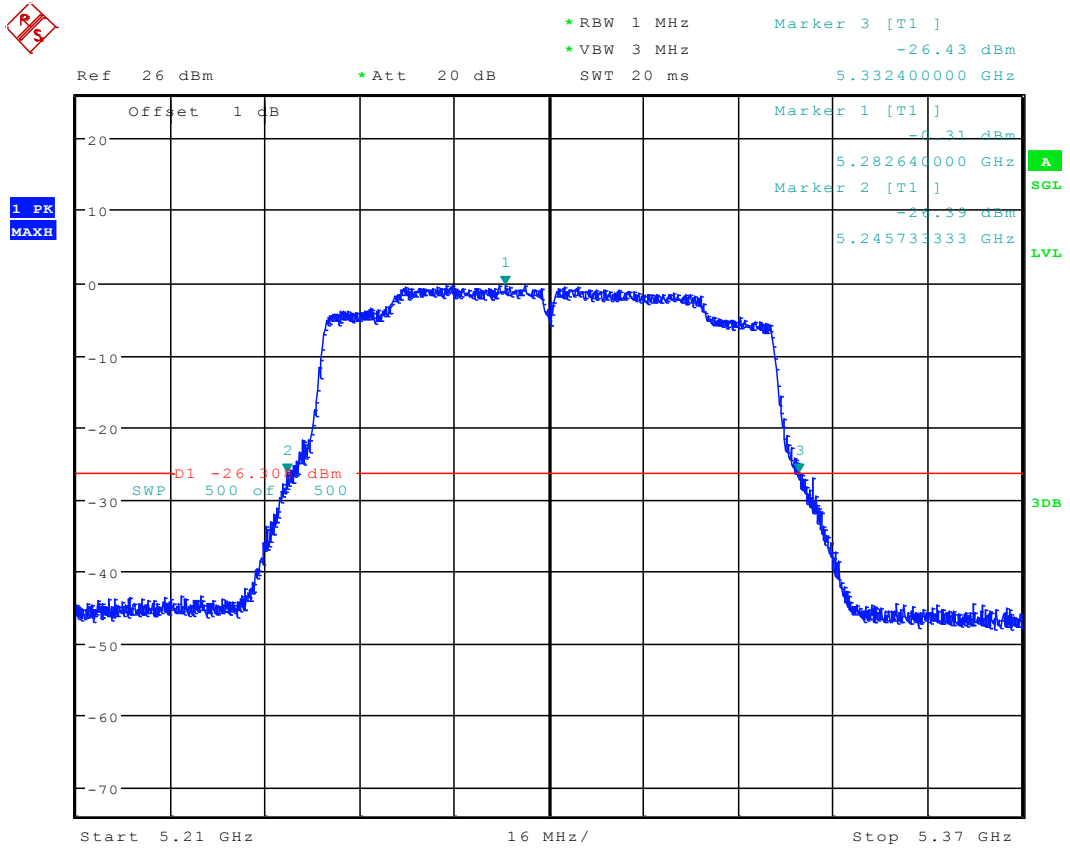
Date: 23.JAN.2018 16:42:20

### 3.136 11AC80MIMO\_42 ANT 2



Date: 26.JAN.2018 16:29:27

### 3.137 11AC80MIMO\_58 ANT 1



Date: 23.JAN.2018 16:46:54





### 3.138 11AC80MIMO\_58 ANT 2

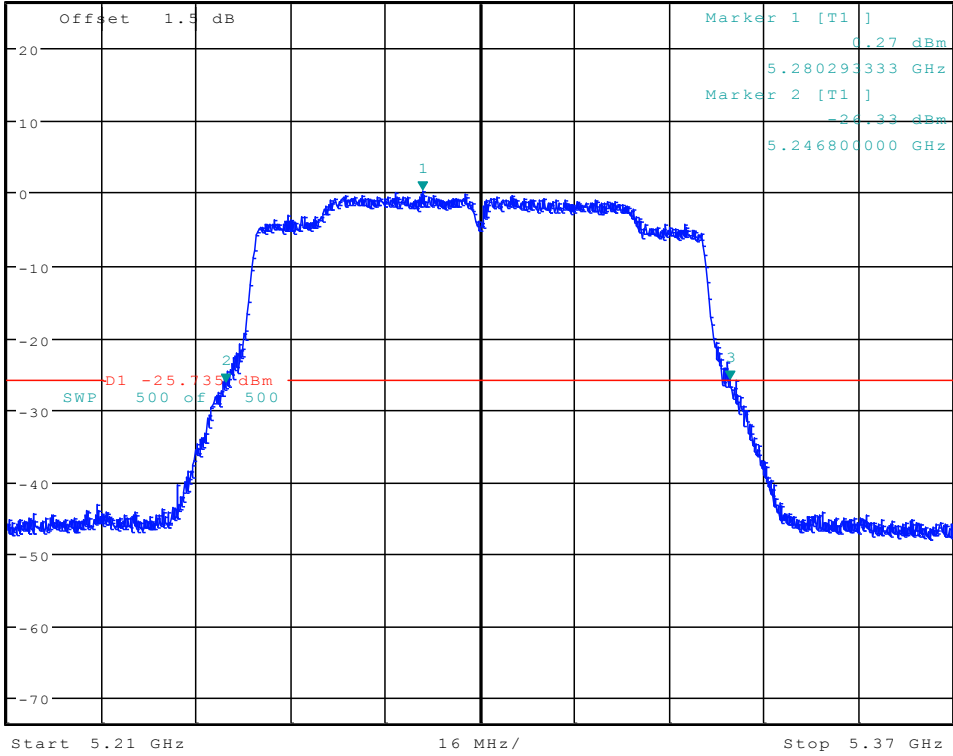


\*RBW 1 MHz  
 \*VBW 3 MHz  
 SWT 20 ms

Marker 3 [T1 ]  
 -26.00 dBm  
 5.332293333 GHz

Ref 26.5 dBm \*Att 20 dB

1 PK  
 MAXH



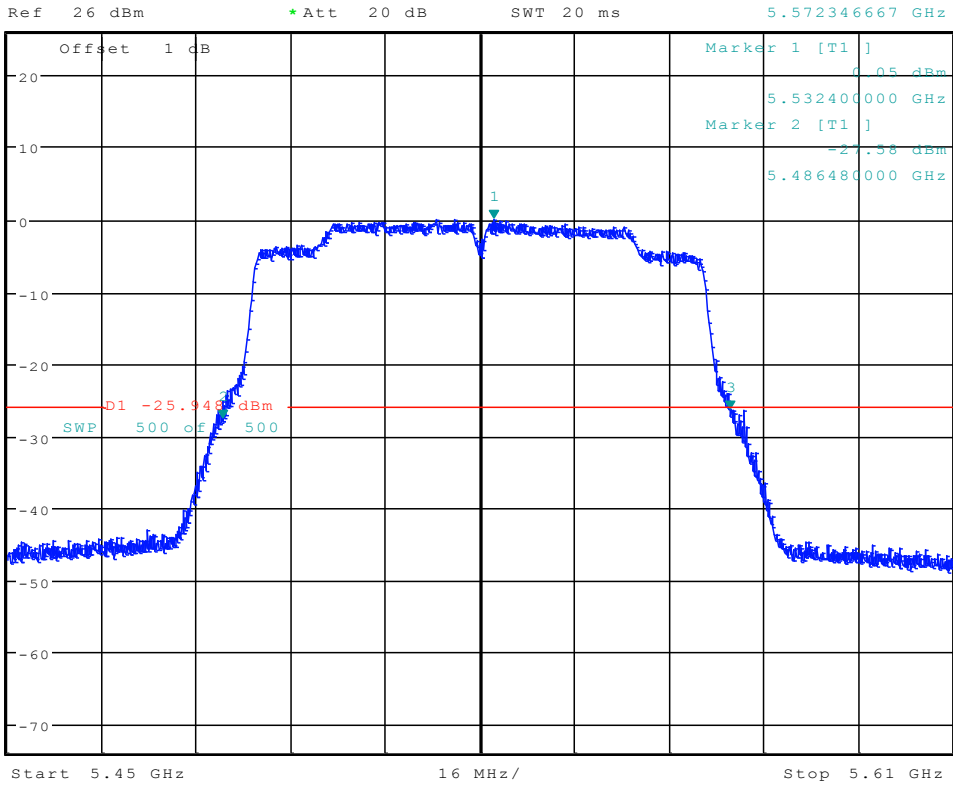
Date: 26.JAN.2018 16:47:19



### 3.139 11AC80MIMO\_106 ANT 1

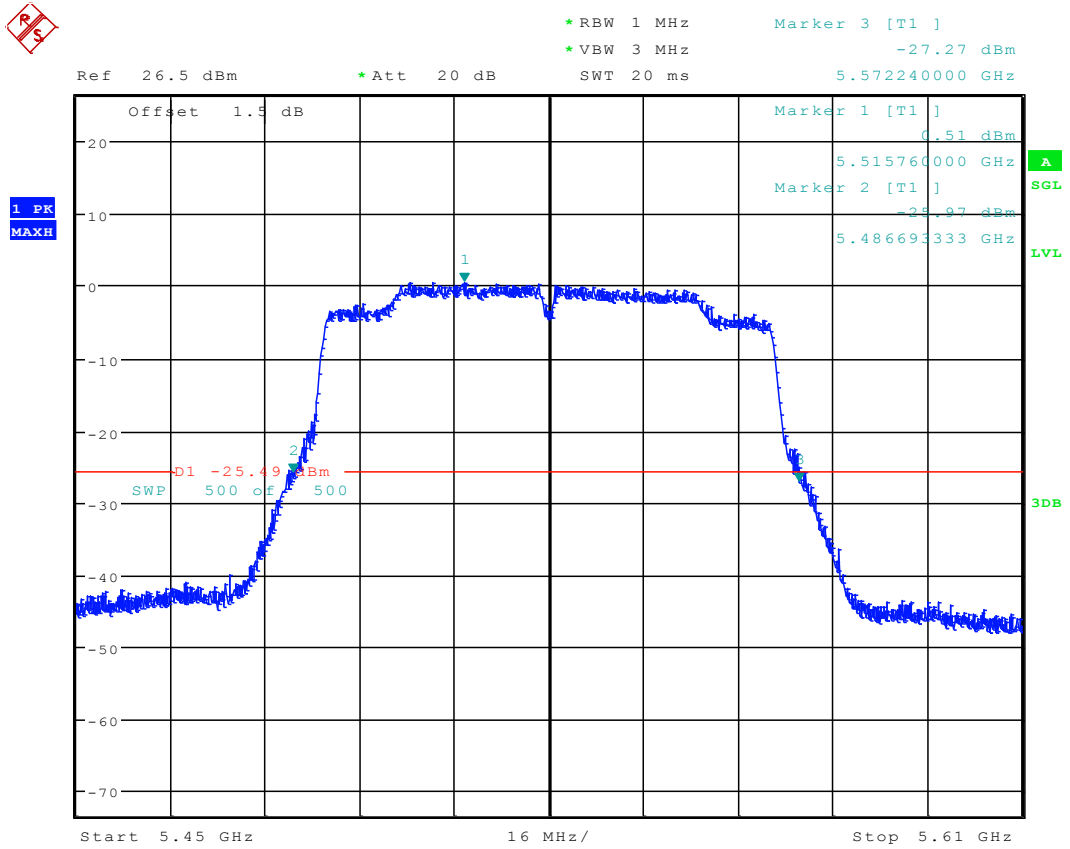


\*RBW 1 MHz      Marker 3 [T1 ]  
 \*VBW 3 MHz      -26.39 dBm  
 SWT 20 ms      5.572346667 GHz



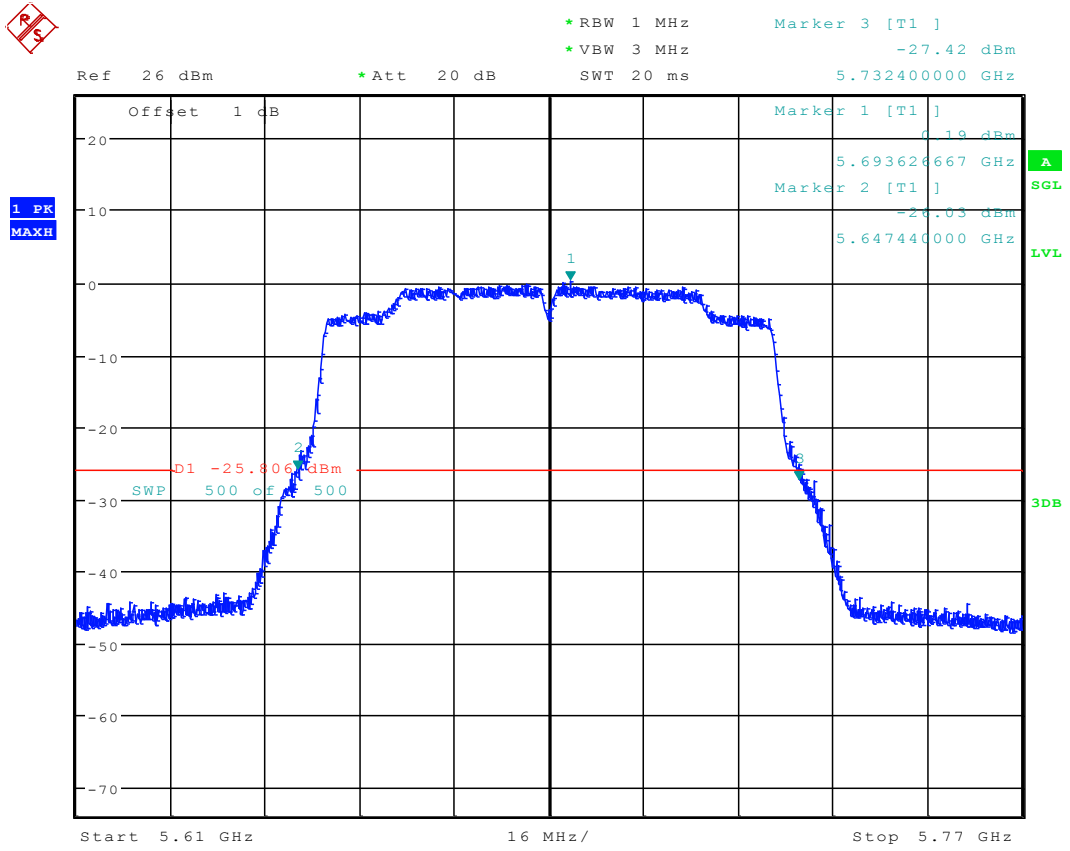
Date: 23.JAN.2018 16:52:13

### 3.140 11AC80MIMO\_106 ANT 2



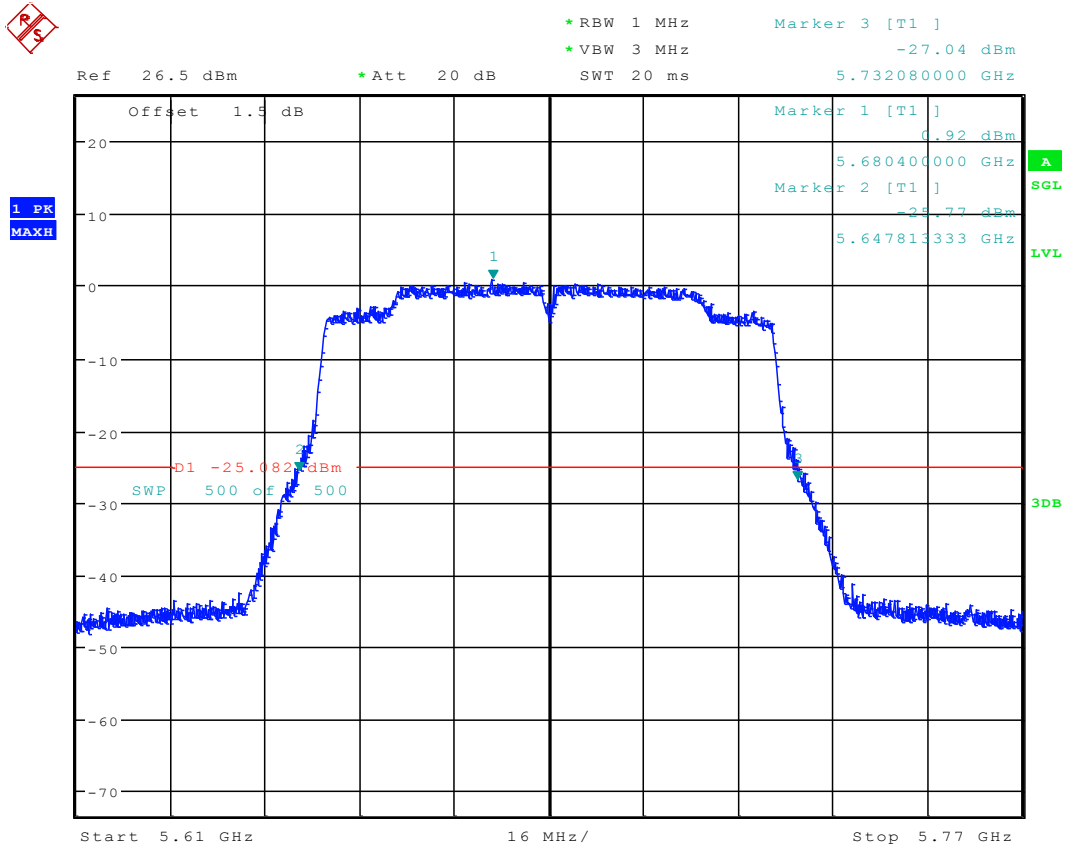
Date: 26.JAN.2018 16:51:21

### 3.141 11AC80MIMO\_138 ANT 1



Date: 23.JAN.2018 17:00:34

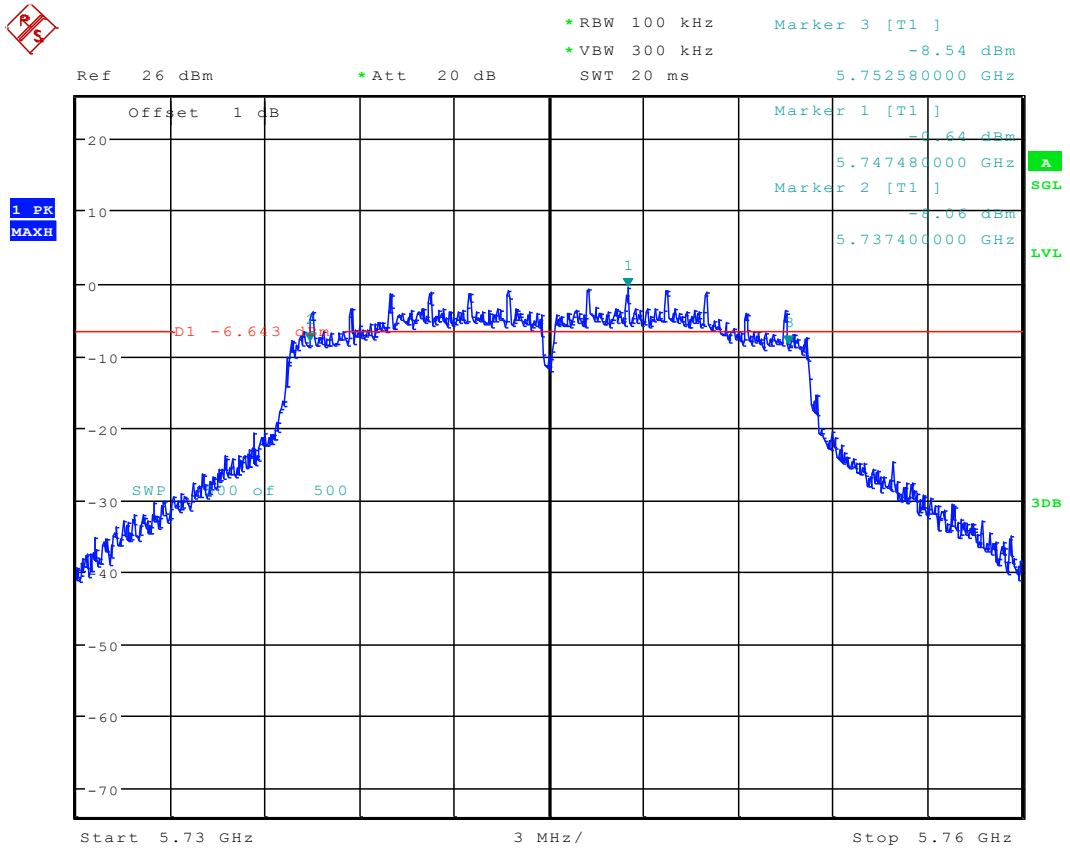
### 3.142 11AC80MIMO\_138 ANT 2



Date: 26.JAN.2018 16:55:43

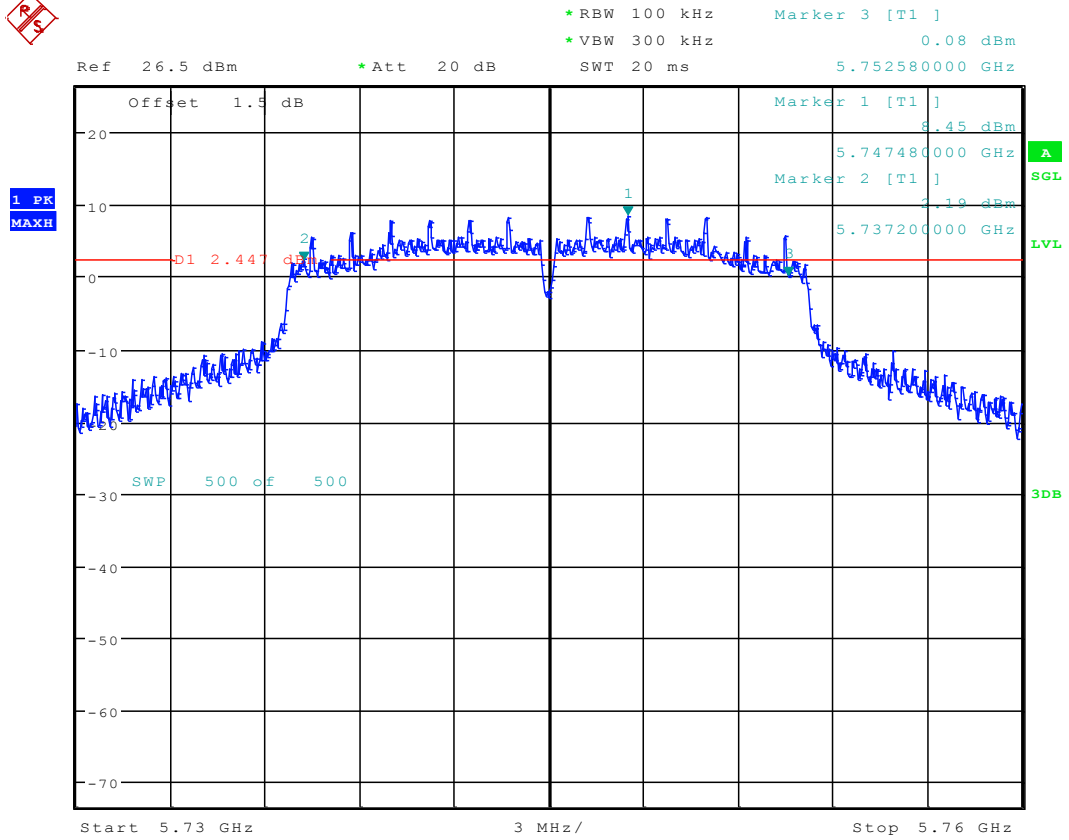
#### 4 Test Plot for 6dB Emission Bandwidth

##### 4.1 11A20\_149 ANT 1



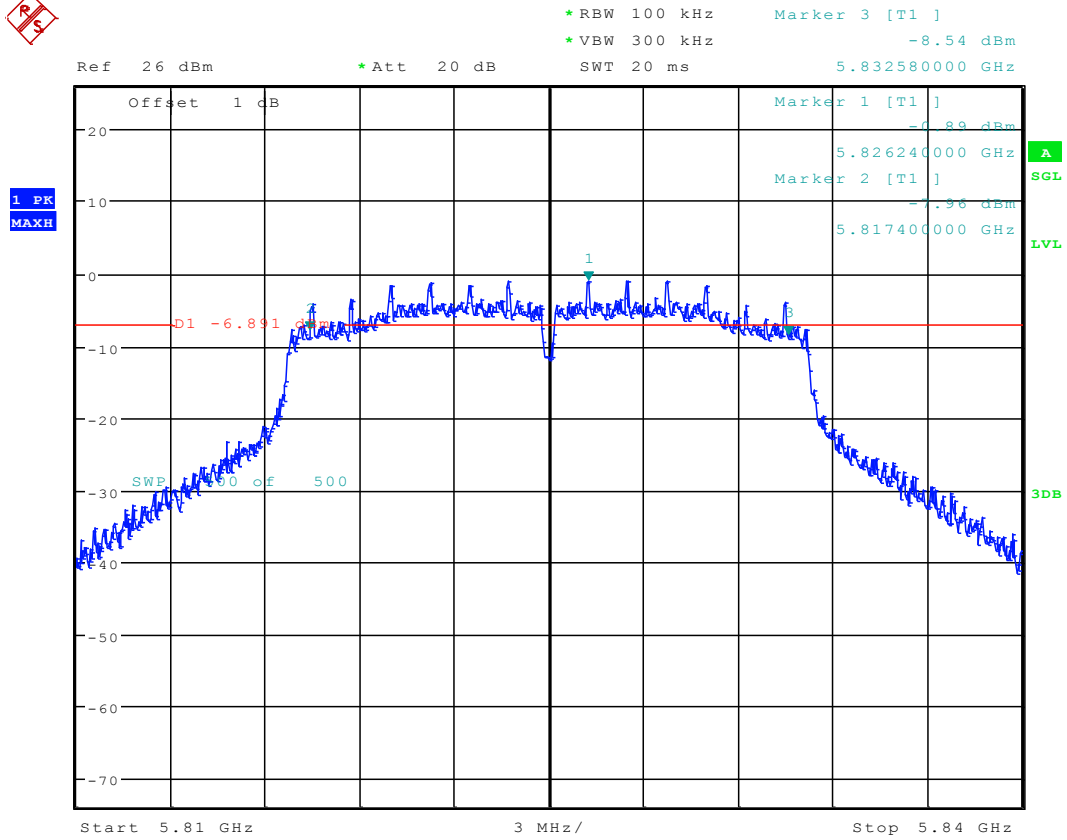
Date: 26.JAN.2018 18:27:14

### 4.2 11A20\_149 ANT 2



Date: 24.JAN.2018 11:30:07

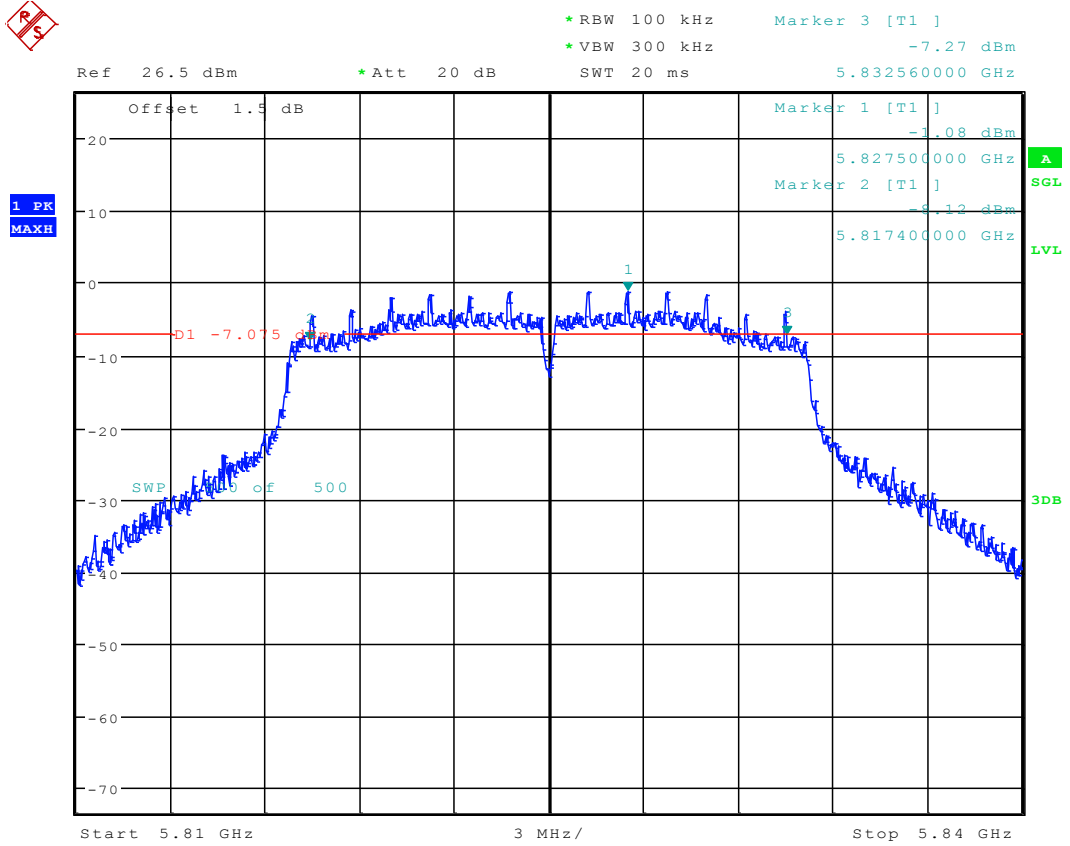
### 4.3 11A20\_165 ANT 1



Date: 22.JAN.2018 14:46:57

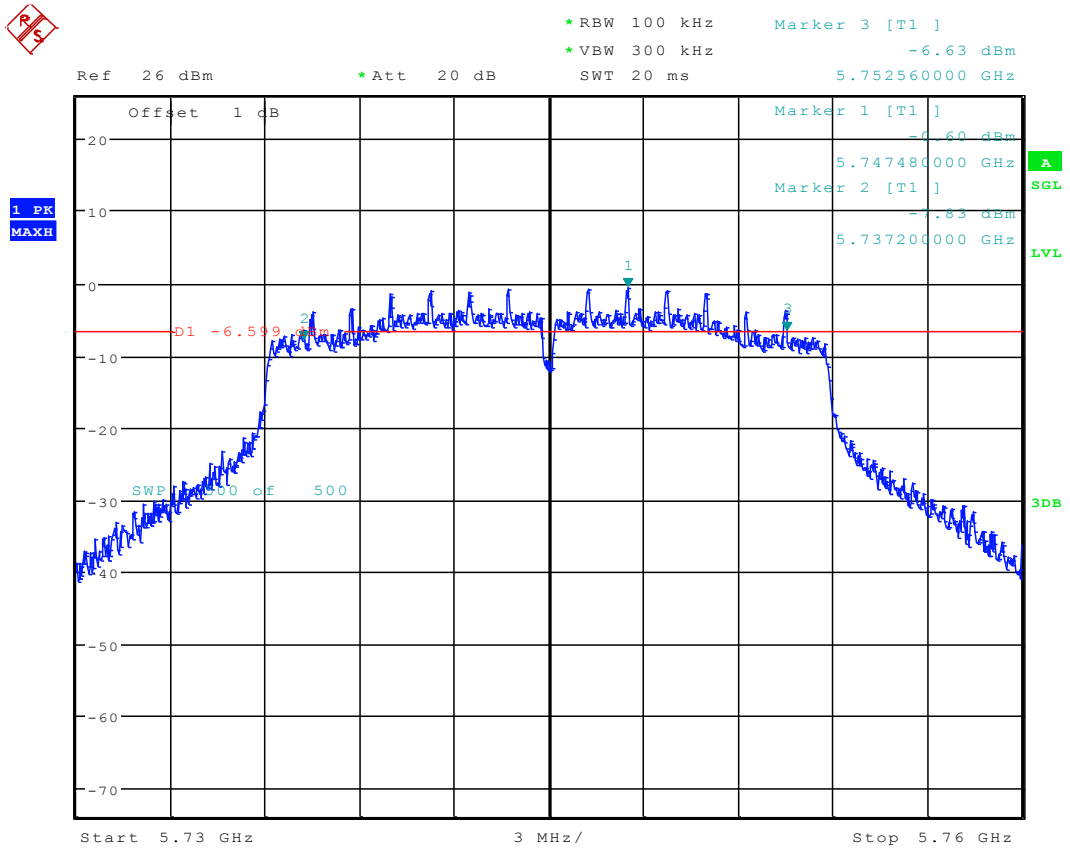


### 4.4 11A20\_165 ANT 2



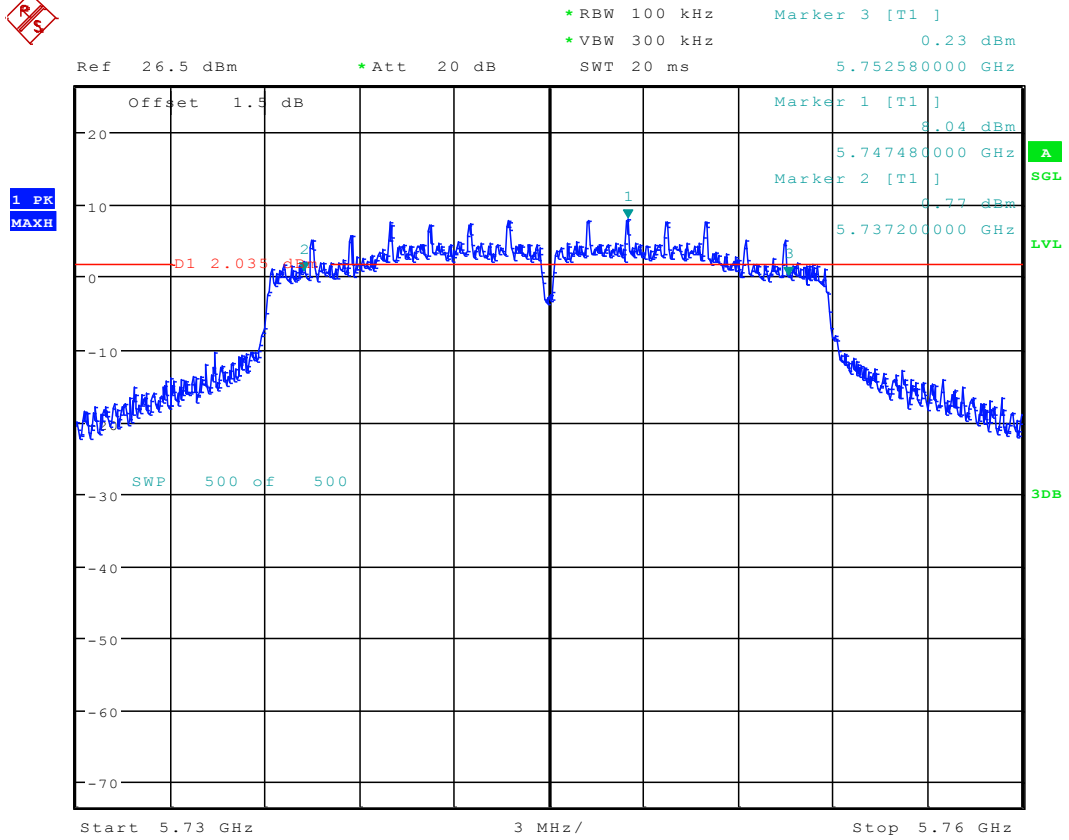
Date: 24.JAN.2018 11:35:43

### 4.5 11N20\_149 ANT 1



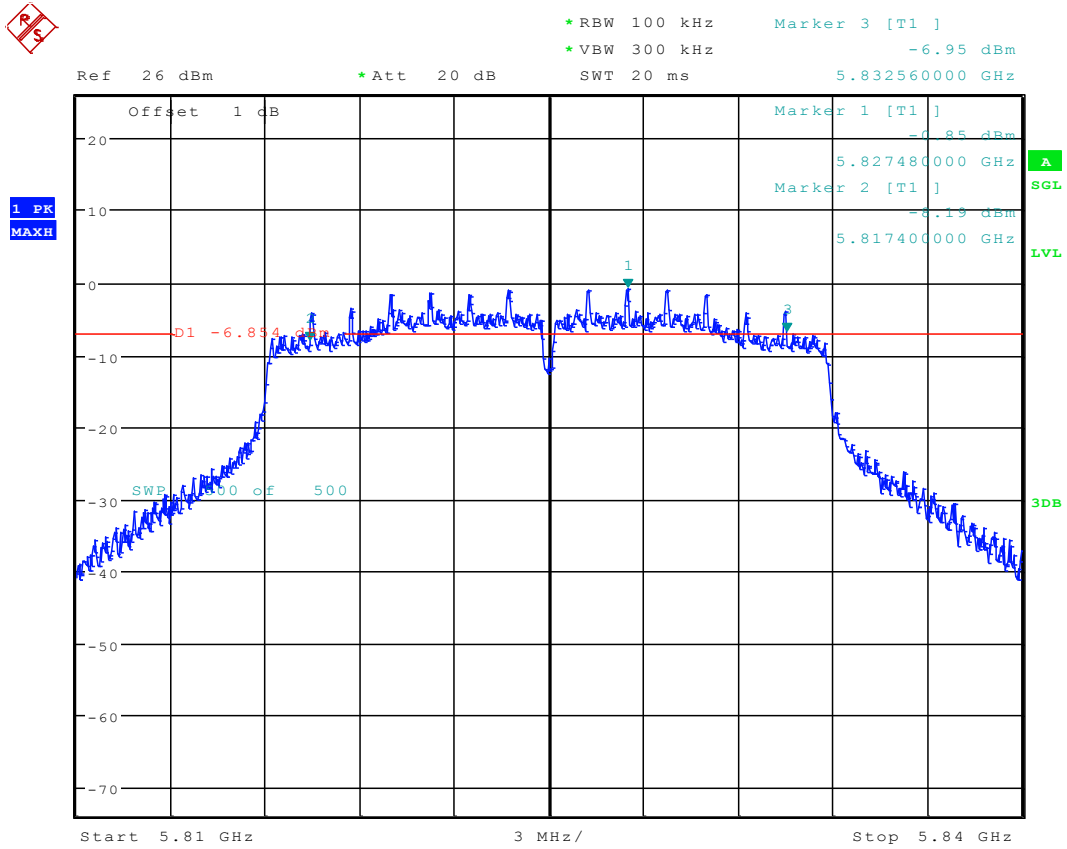
Date: 22.JAN.2018 15:15:00

## 4.6 11N20\_149 ANT 2



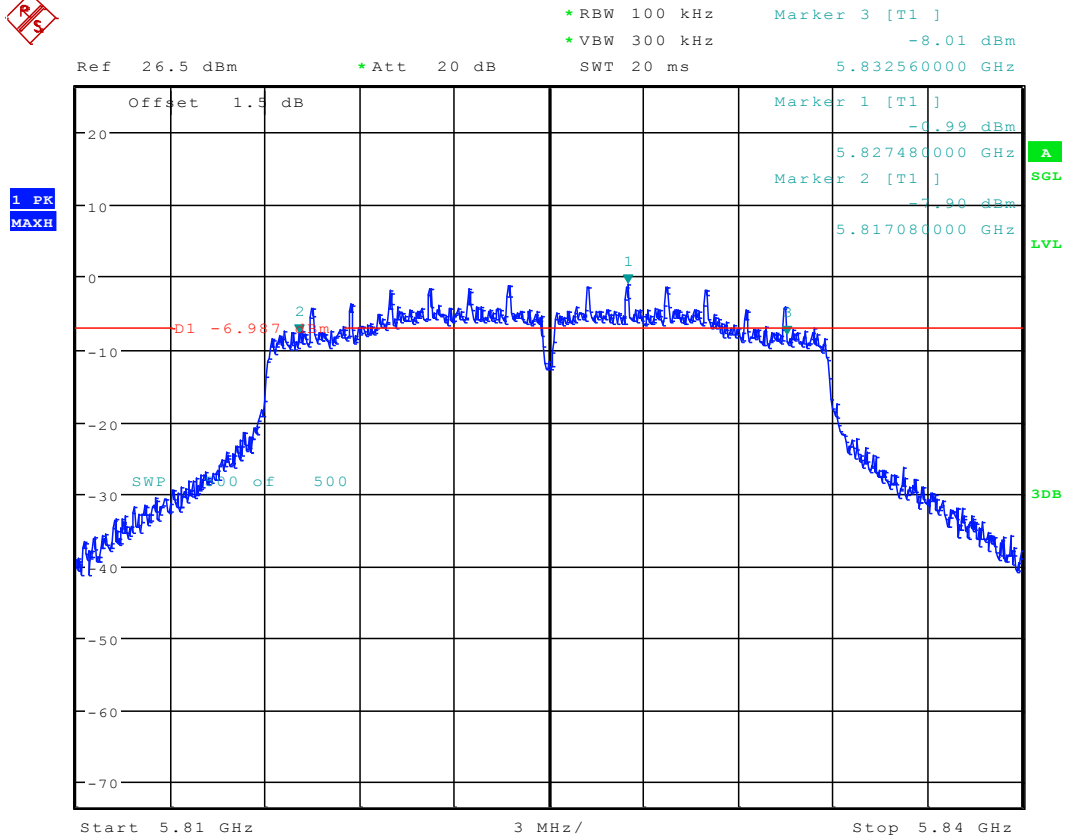
Date: 24.JAN.2018 13:40:40

### 4.7 11N20\_165 ANT 1



Date: 22.JAN.2018 15:18:59

## 4.8 11N20\_165 ANT 2

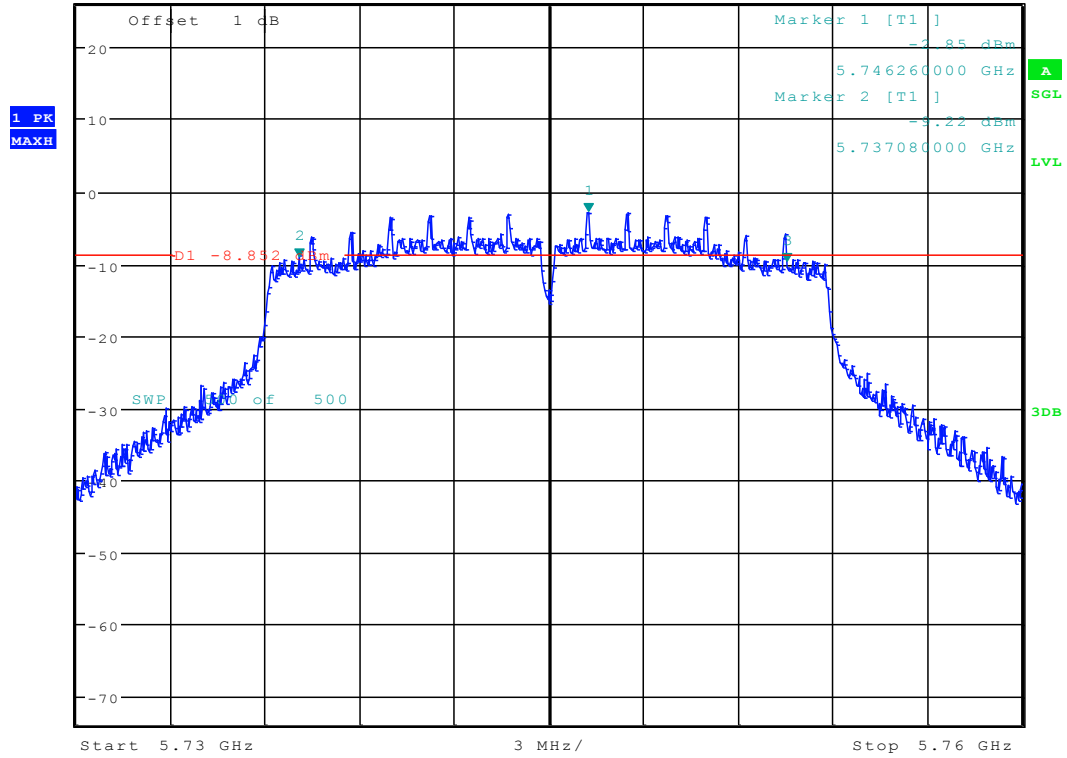


Date: 24.JAN.2018 13:43:58

### 4.9 11N20MIMO\_149 ANT 1

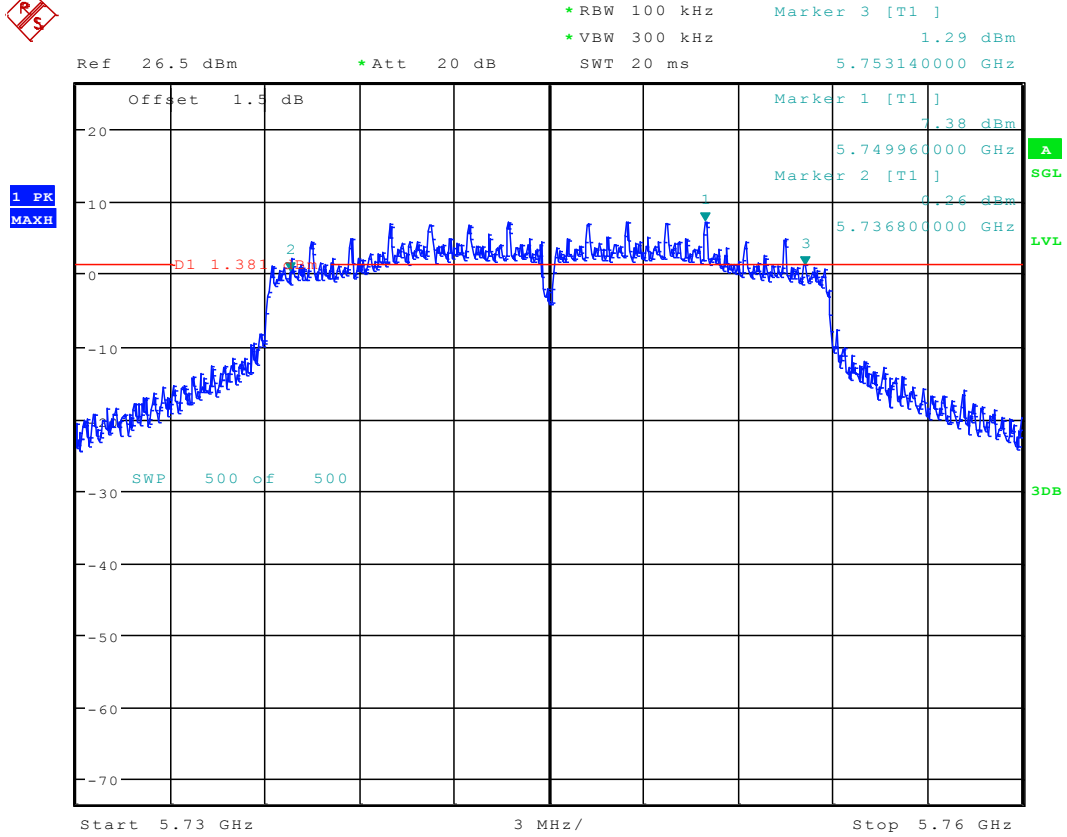


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -9.82 dBm  
 Ref 26 dBm      \*Att 20 dB      SWT 20 ms      5.752560000 GHz



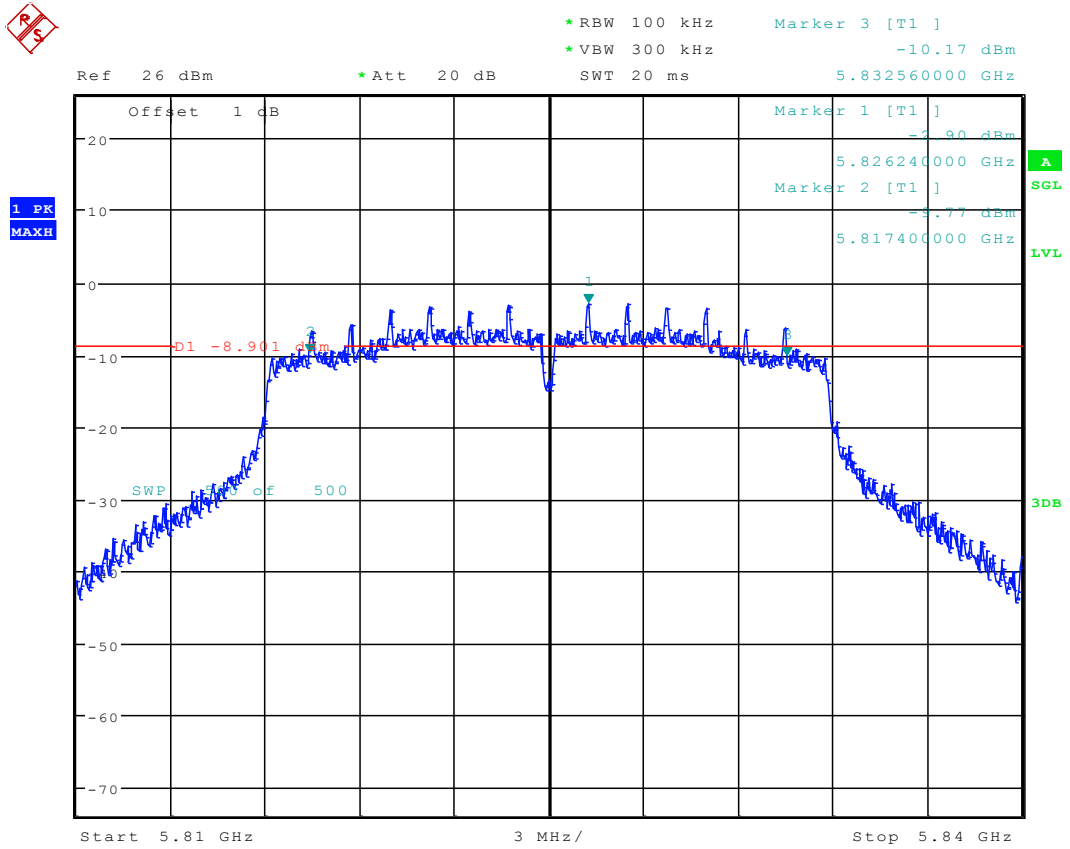
Date: 23.JAN.2018 15:05:39

### 4.10 11N20MIMO\_149 ANT 2



Date: 26.JAN.2018 14:40:16

### 4.11 11N20MIMO\_165 ANT 1



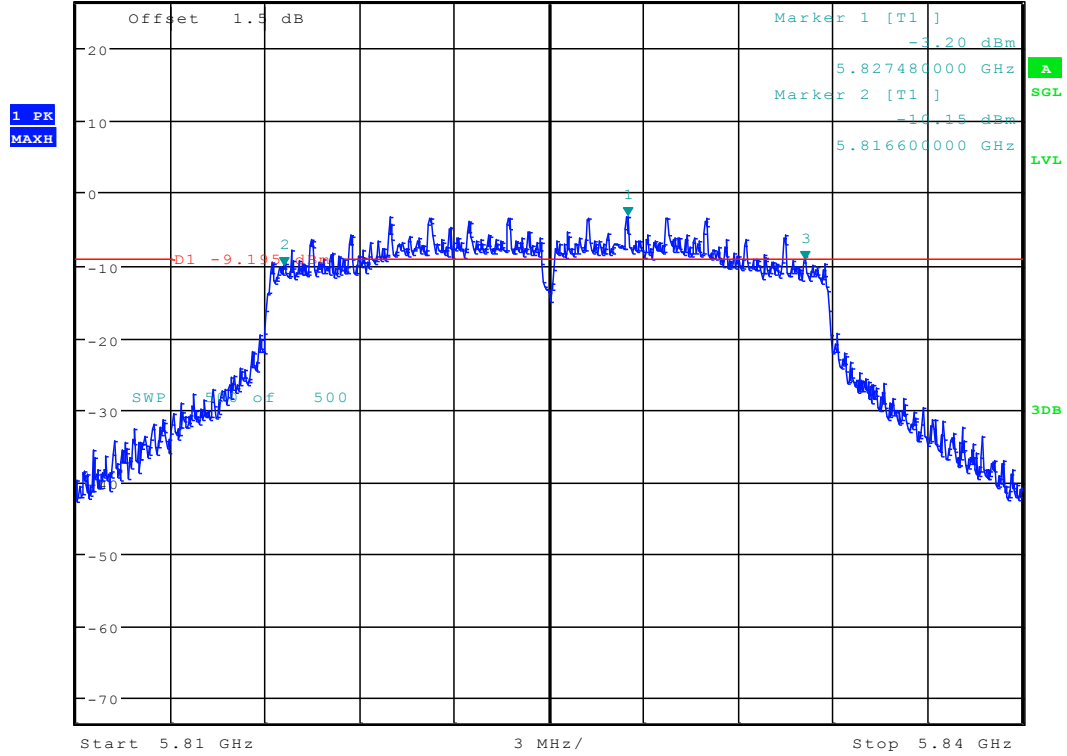
Date: 23.JAN.2018 15:08:43



### 4.12 11N20MIMO\_165 ANT 2

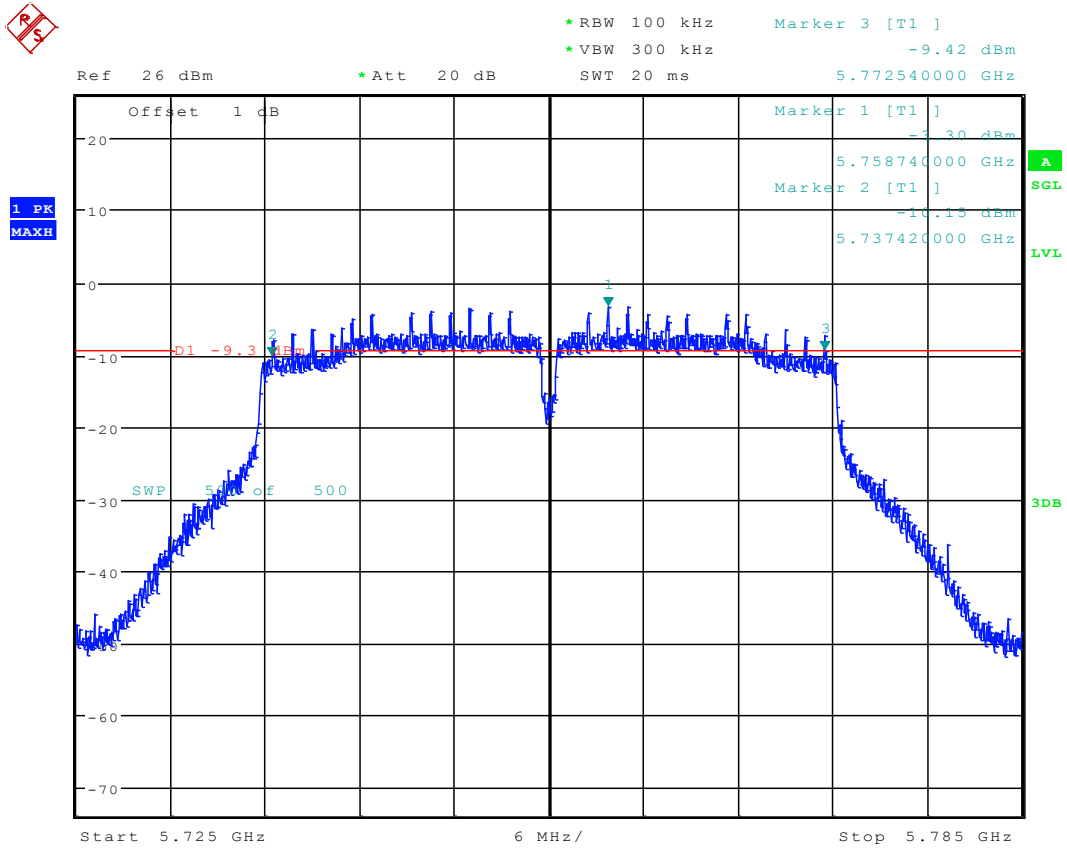


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -9.36 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.833140000 GHz



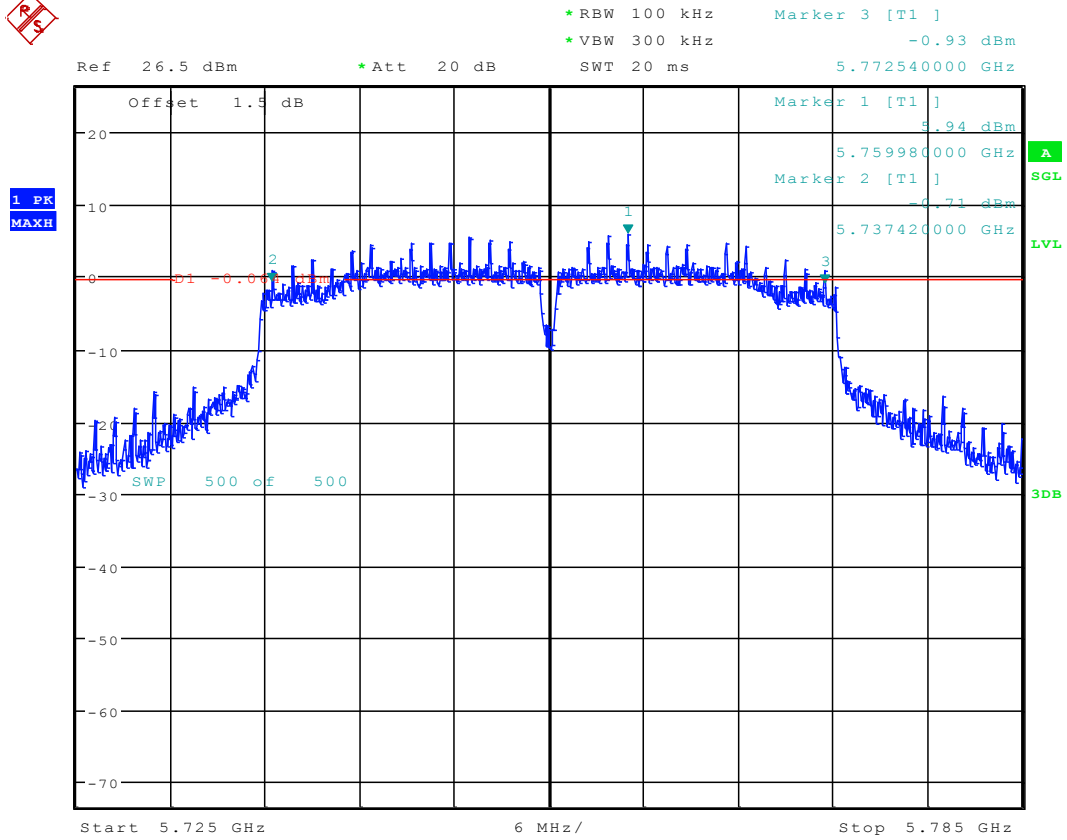
Date: 26.JAN.2018 14:43:09

### 4.13 11N40\_151 ANT 1



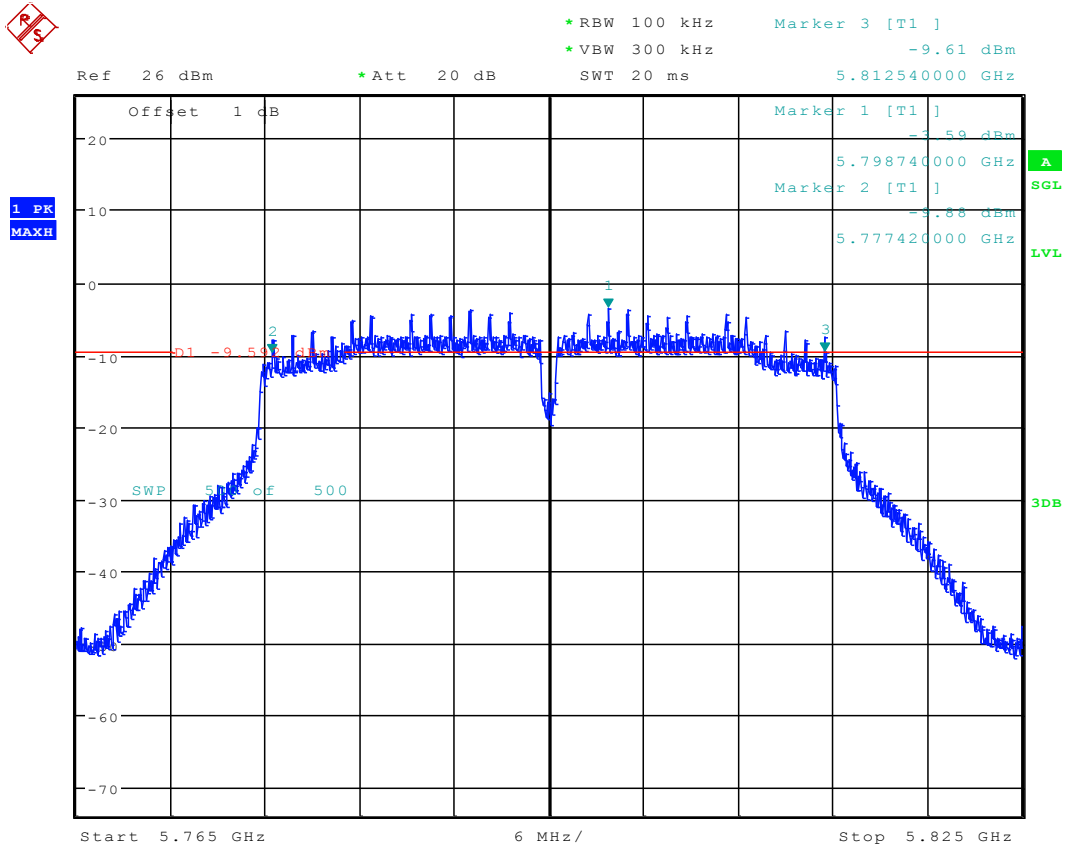
Date: 22.JAN.2018 16:29:46

### 4.14 11N40\_151 ANT 2



Date: 24.JAN.2018 15:37:16

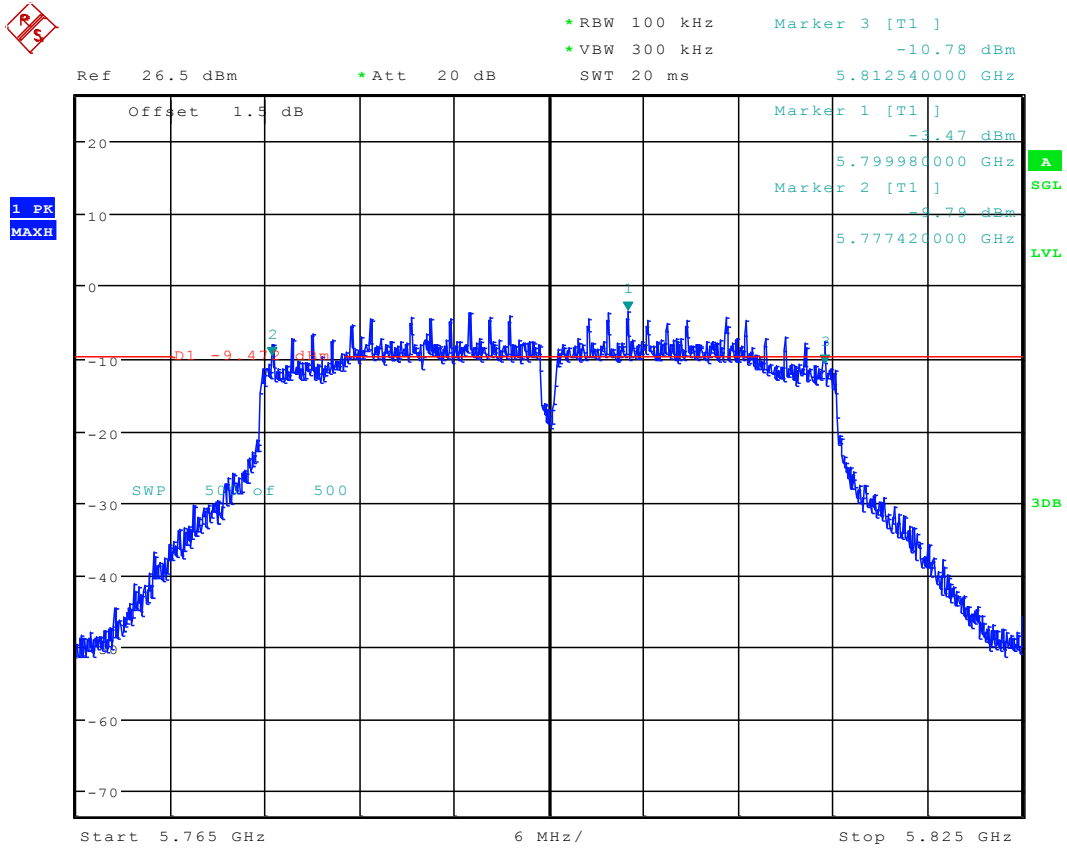
### 4.15 11N40\_159 ANT 1



Date: 22.JAN.2018 16:39:01



### 4.16 11N40\_159 ANT 2

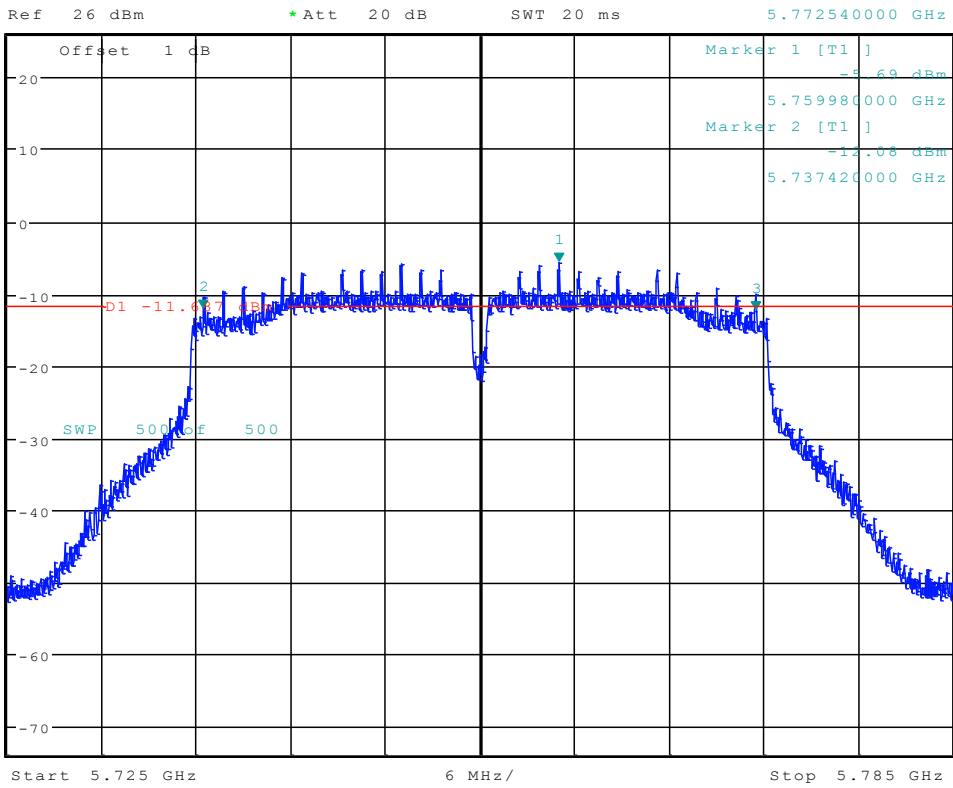


Date: 24.JAN.2018 15:40:12

### 4.17 11N40MIMO\_151 ANT 1

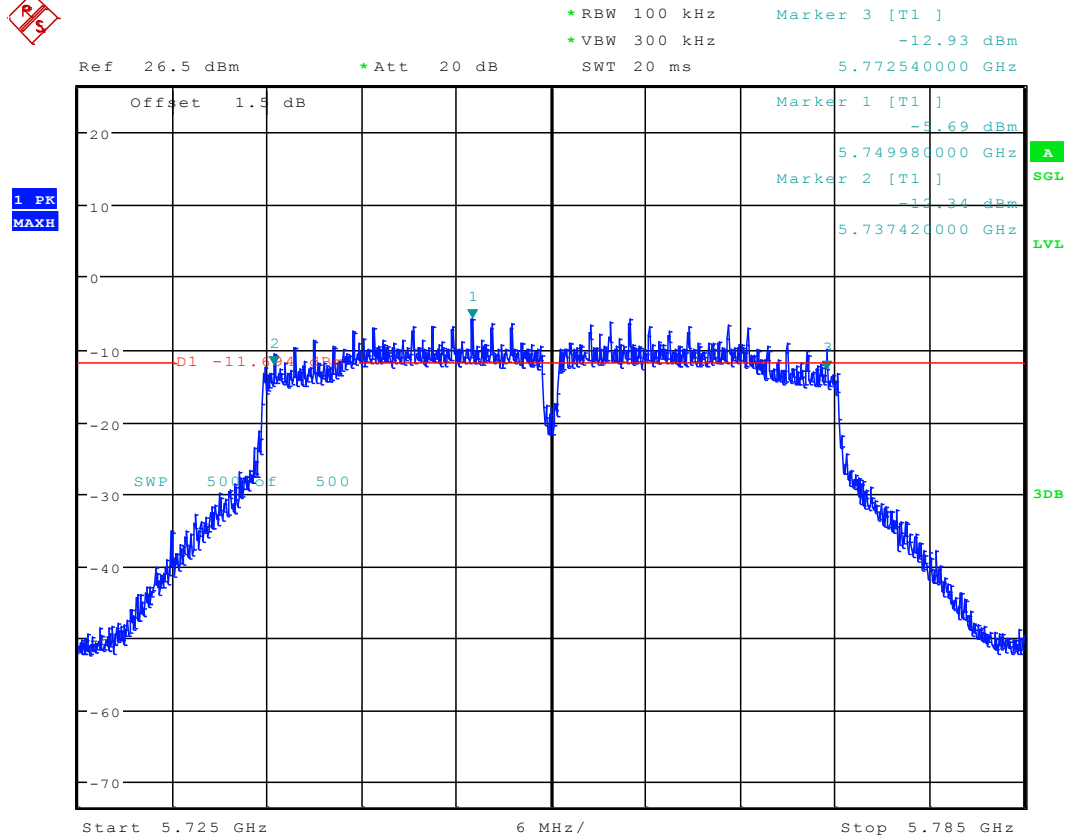


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -12.38 dBm  
 SWT 20 ms      5.772540000 GHz



Date: 23.JAN.2018 15:32:25

## 4.18 11N40MIMO\_151 ANT 2



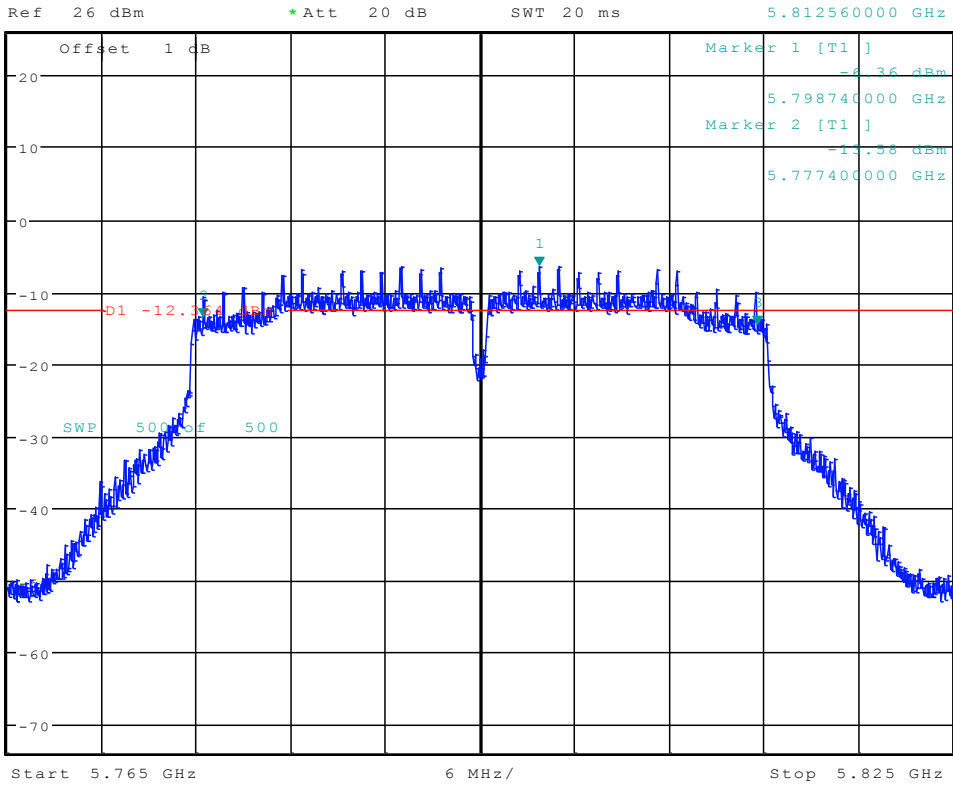
Date: 26.JAN.2018 15:47:07



### 4.19 11N40MIMO\_159 ANT 1



\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -14.66 dBm  
 SWT 20 ms      5.812560000 GHz



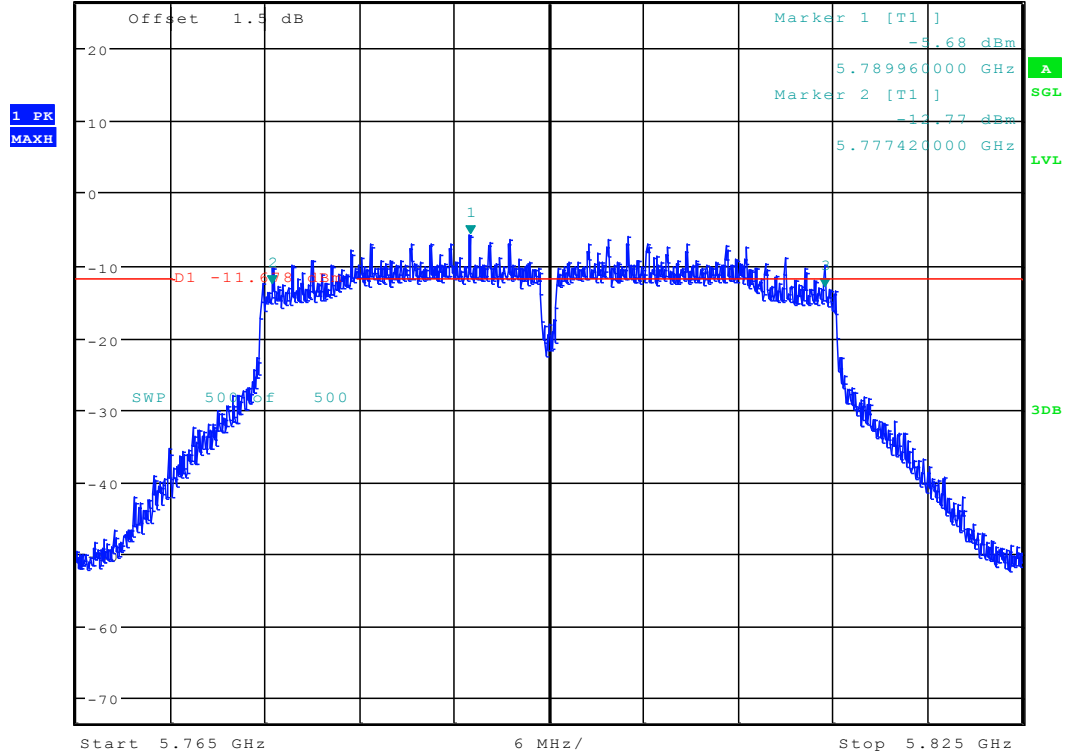
Date: 23.JAN.2018 15:35:39



### 4.20 11N40MIMO\_159 ANT 2

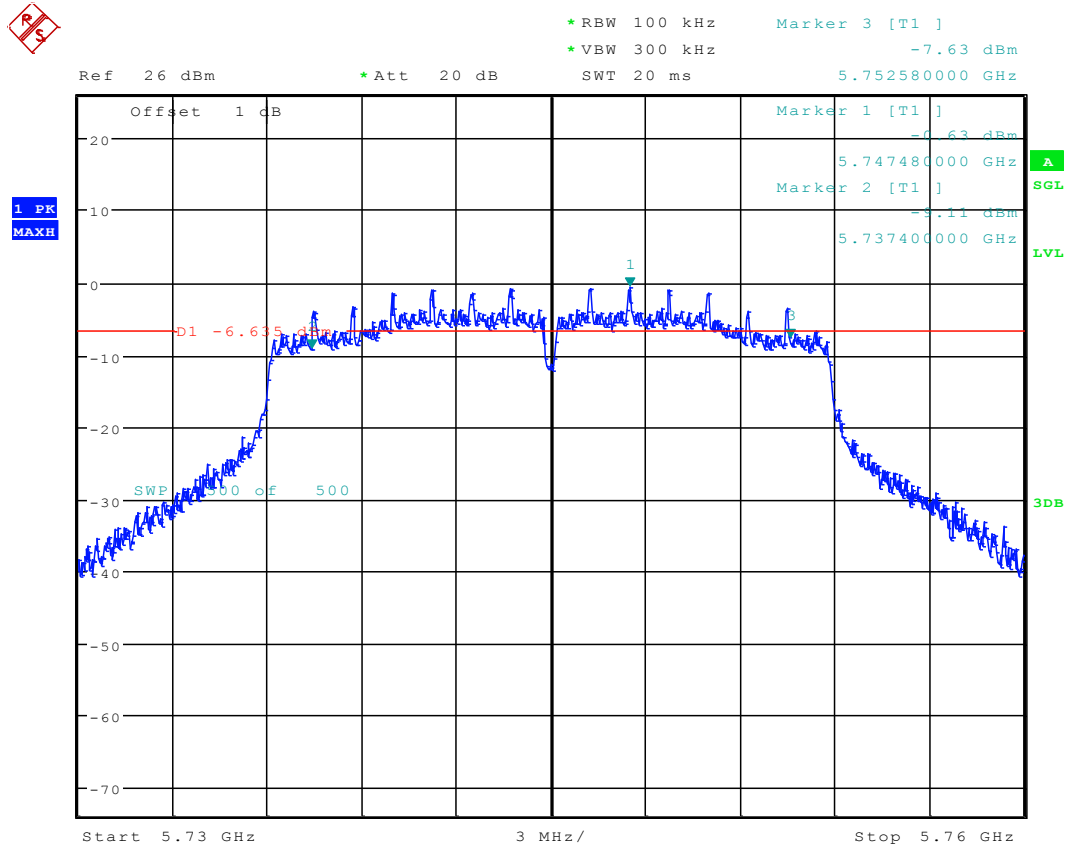


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -13.03 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.812540000 GHz



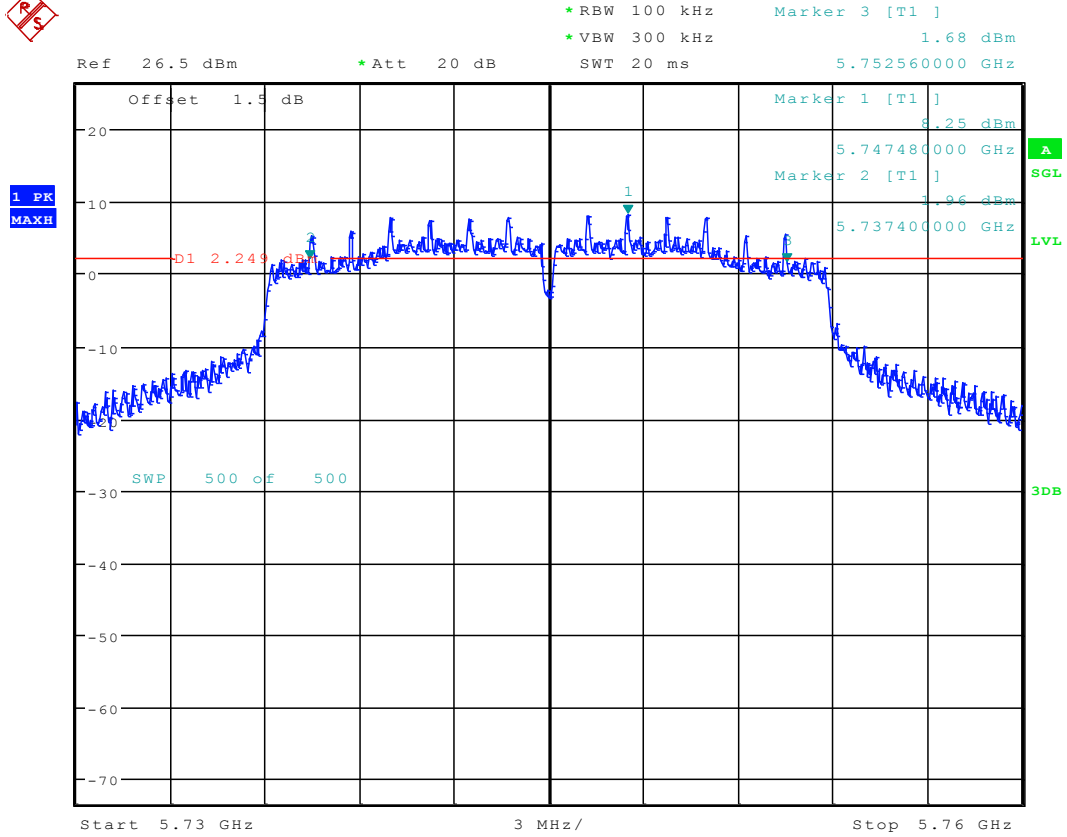
Date: 26.JAN.2018 15:50:59

## 4.21 11AC20\_149 ANT 1



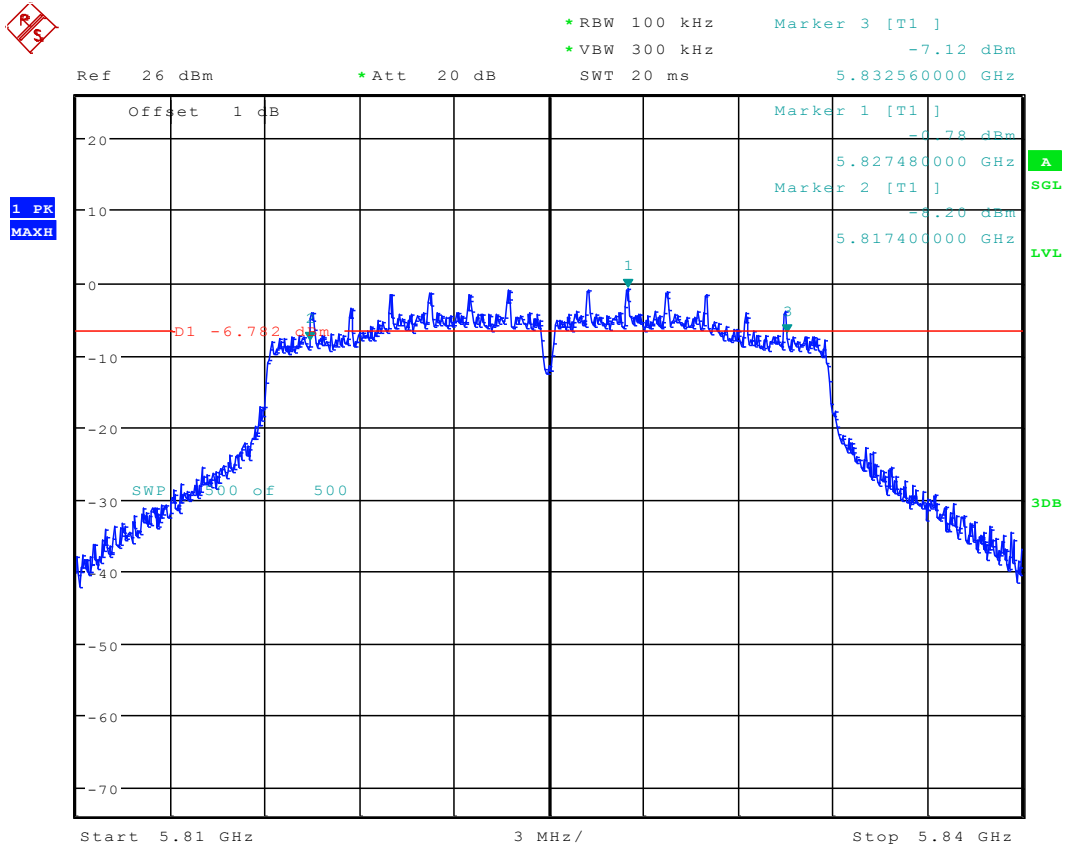
Date: 22.JAN.2018 15:56:34

### 4.22 11AC20\_149 ANT 2



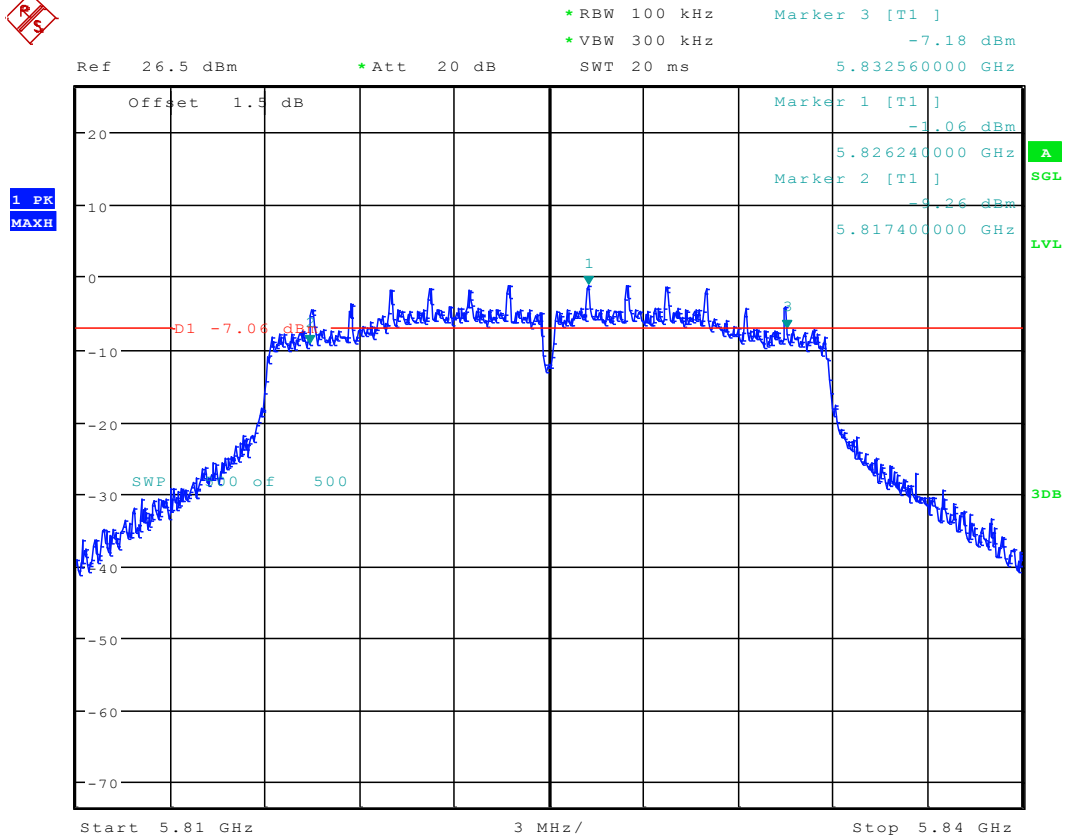
Date: 24.JAN.2018 14:59:37

## 4.23 11AC20\_165 ANT 1



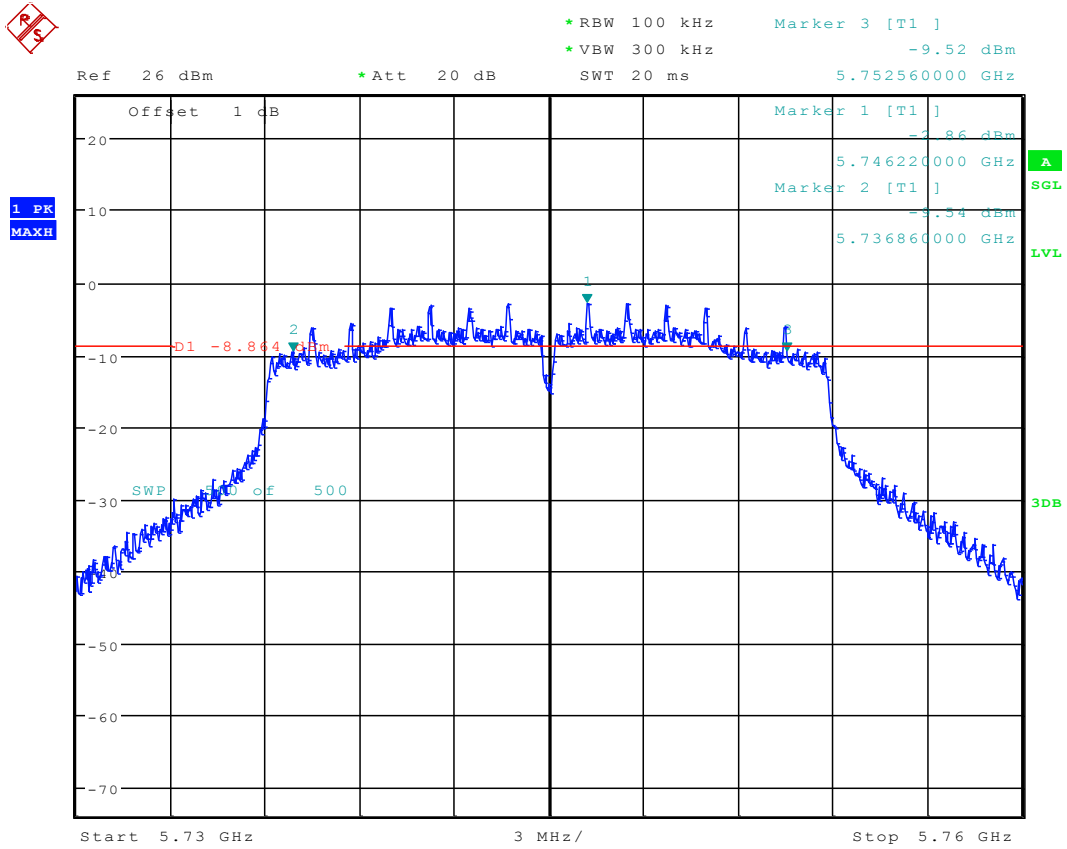
Date: 22.JAN.2018 16:00:48

### 4.24 11AC20\_165 ANT 2



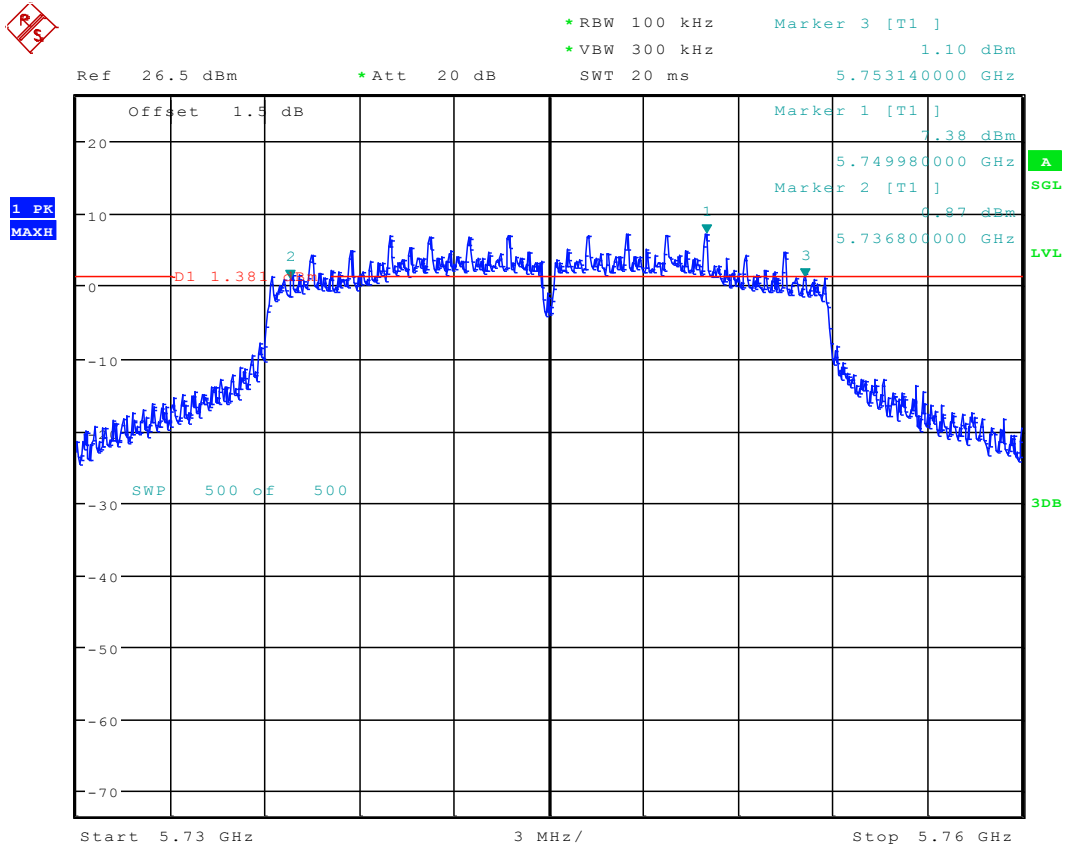
Date: 24.JAN.2018 15:02:47

### 4.25 11AC20MIMO\_149 ANT 1



Date: 23.JAN.2018 15:59:32

## 4.26 11AC20MIMO\_149 ANT 2

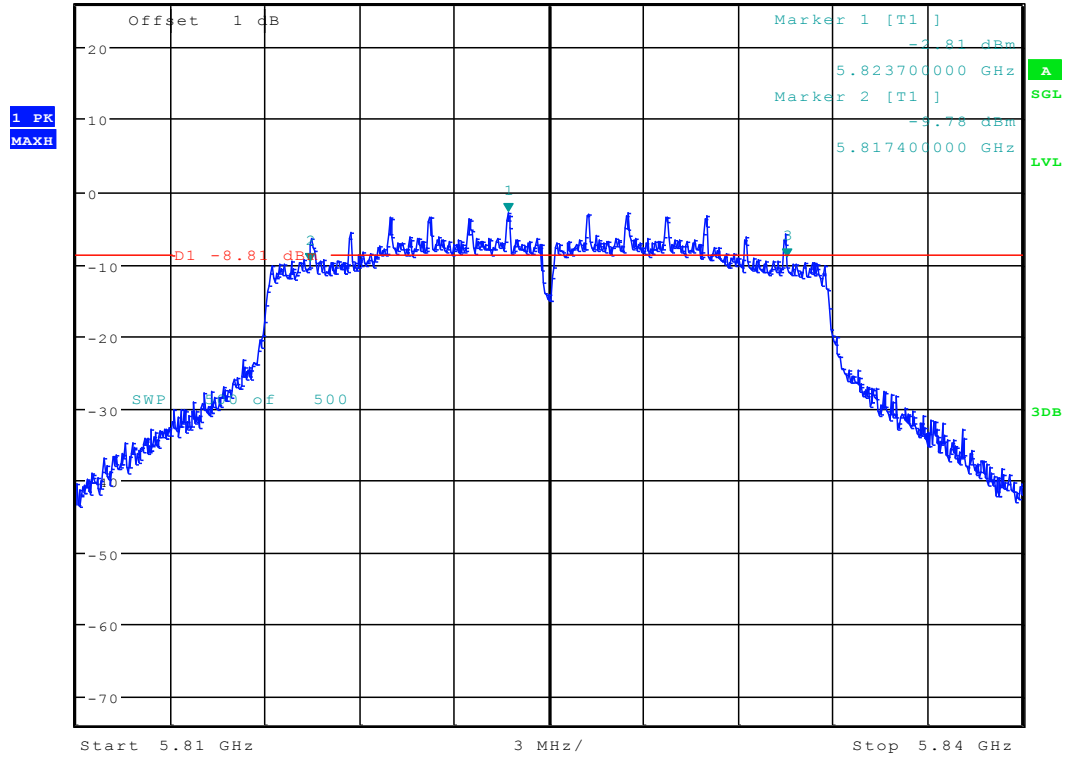


Date: 26.JAN.2018 15:20:52

### 4.27 11AC20MIMO\_165 ANT 1



\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -9.13 dBm  
 Ref 26 dBm      \*Att 20 dB      SWT 20 ms      5.832560000 GHz



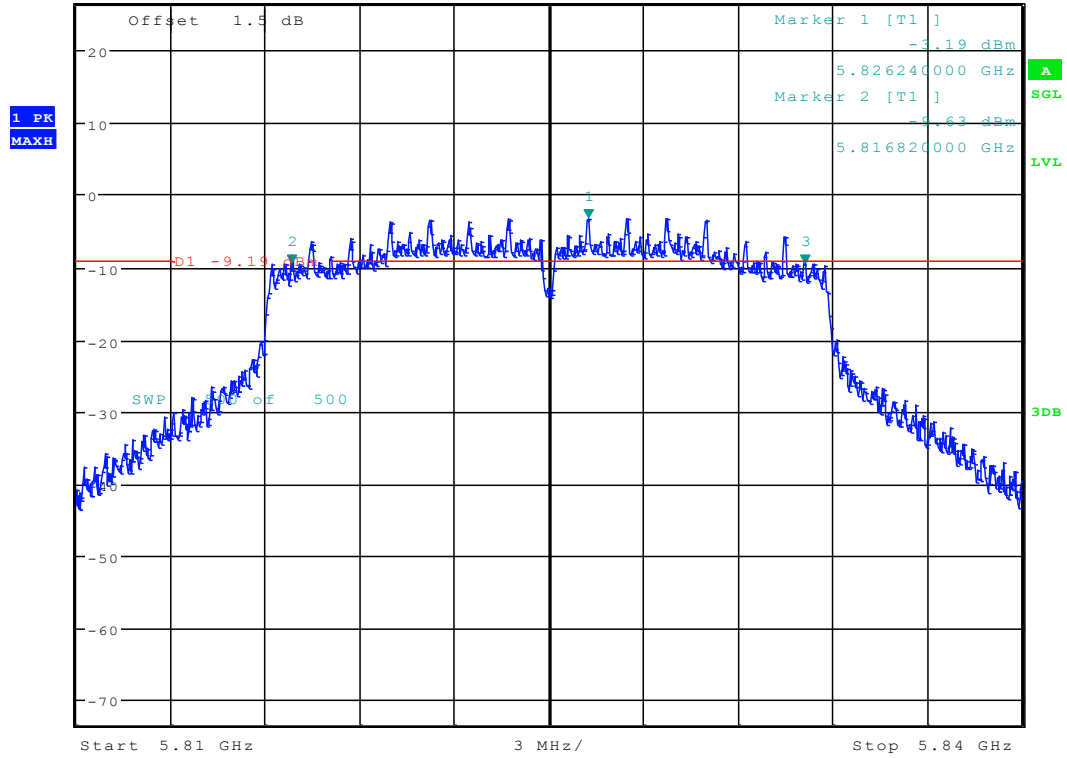
Date: 23.JAN.2018 16:02:30



### 4.28 11AC20MIMO\_165 ANT 2

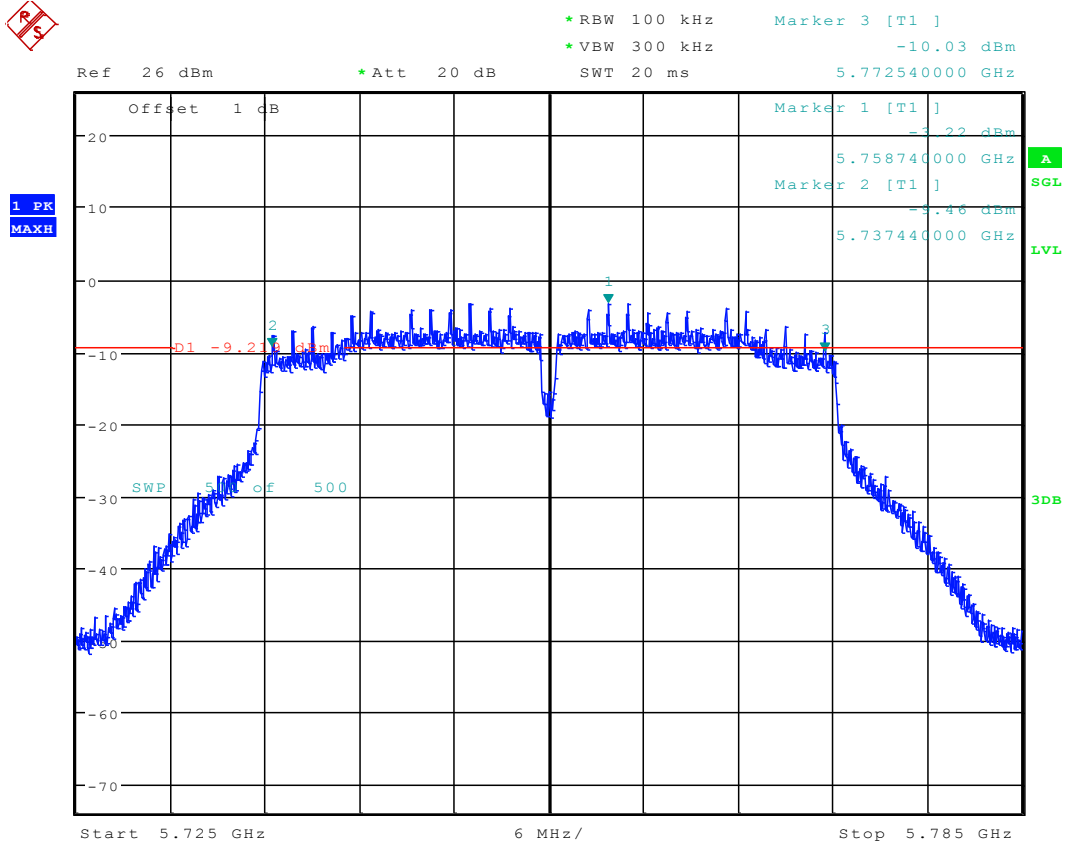


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -9.52 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.833140000 GHz



Date: 26.JAN.2018 15:23:48

### 4.29 11AC40\_151 ANT 1



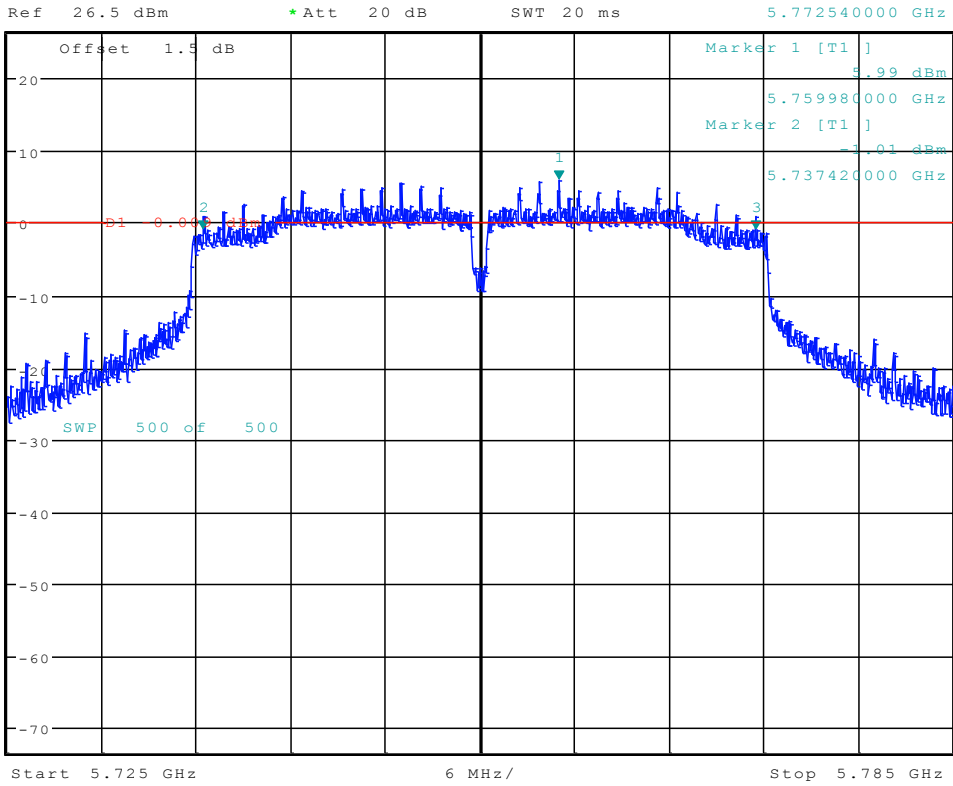
Date: 22.JAN.2018 17:20:48



### 4.30 11AC40\_151 ANT 2

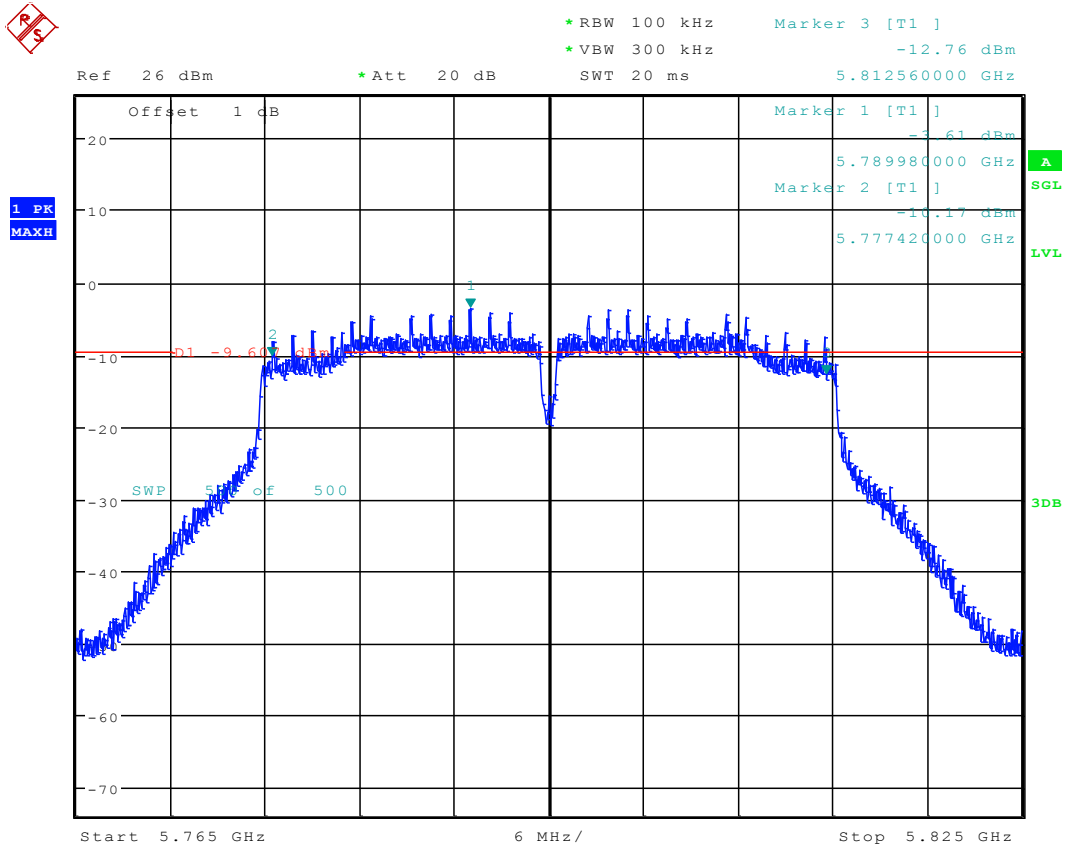


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -1.01 dBm  
 SWT 20 ms      5.772540000 GHz



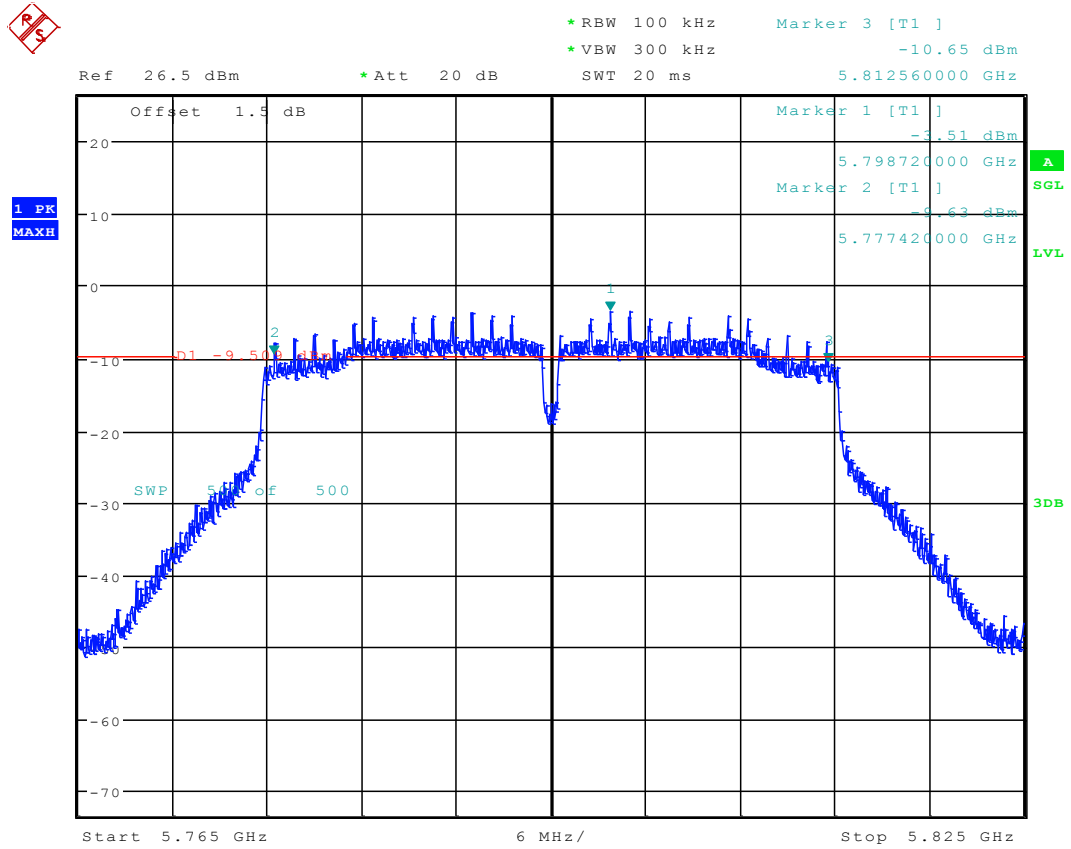
Date: 26.JAN.2018 17:45:56

### 4.31 11AC40\_159 ANT 1



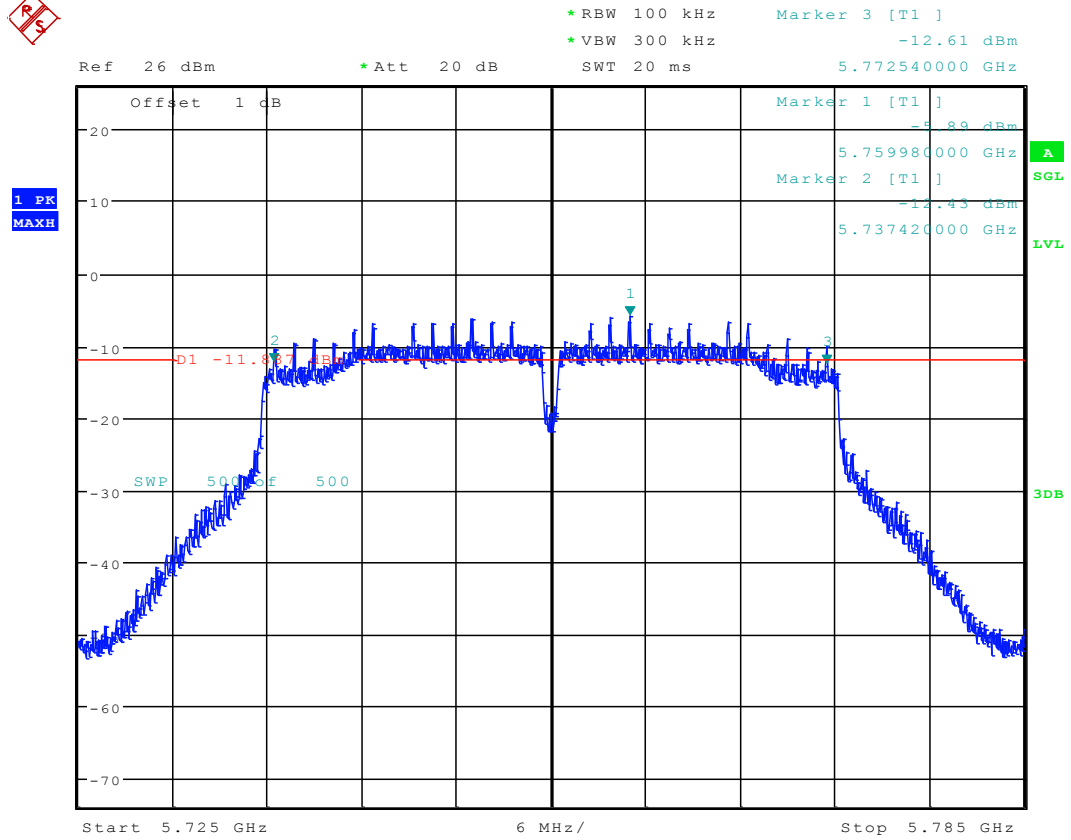
Date: 22.JAN.2018 17:23:57

## 4.32 11AC40\_159 ANT 2



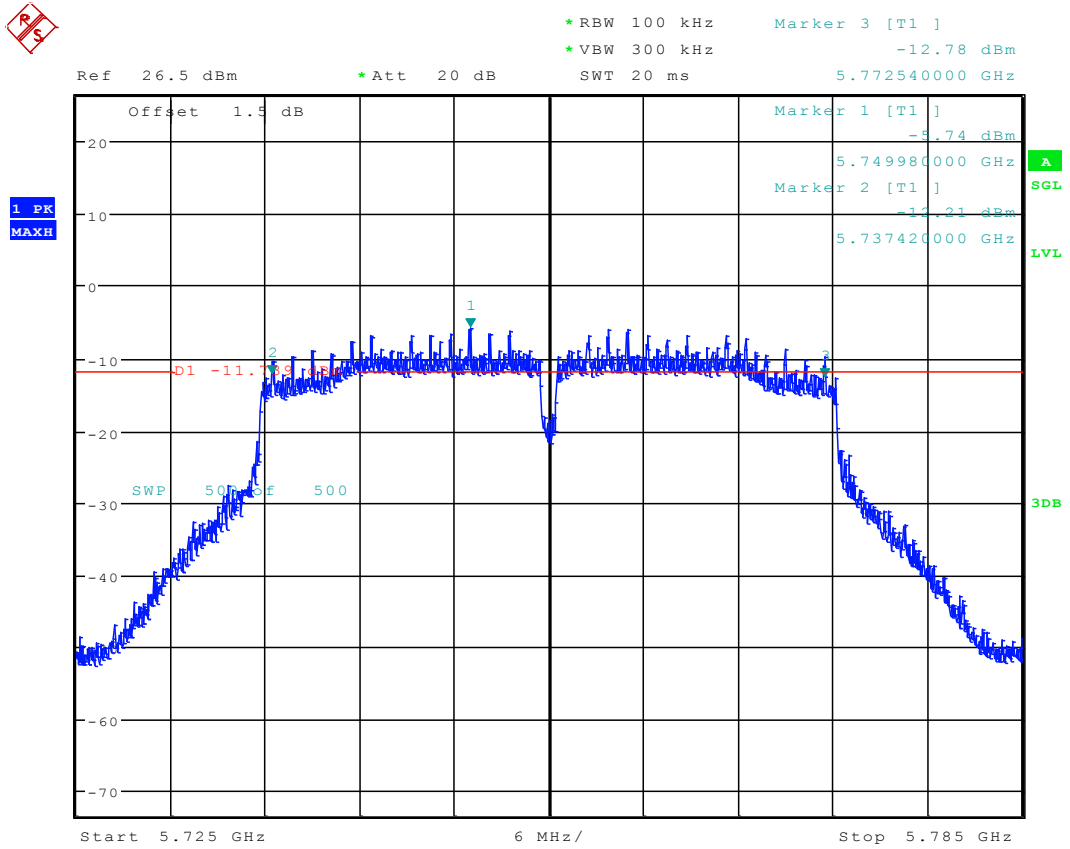
Date: 26.JAN.2018 17:50:23

### 4.33 11AC40MIMO\_151 ANT 1



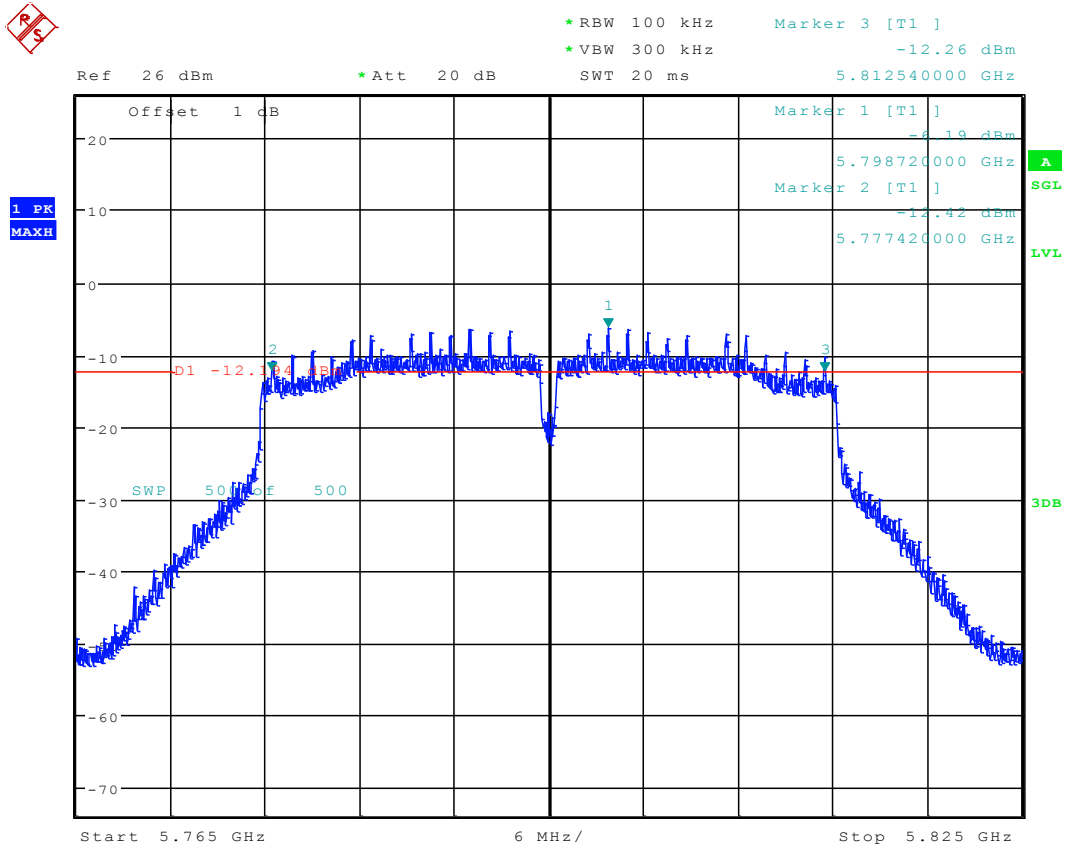
Date: 23.JAN.2018 16:24:19

### 4.34 11AC40MIMO\_151 ANT 2



Date: 26.JAN.2018 16:15:47

### 4.35 11AC40MIMO\_159 ANT 1



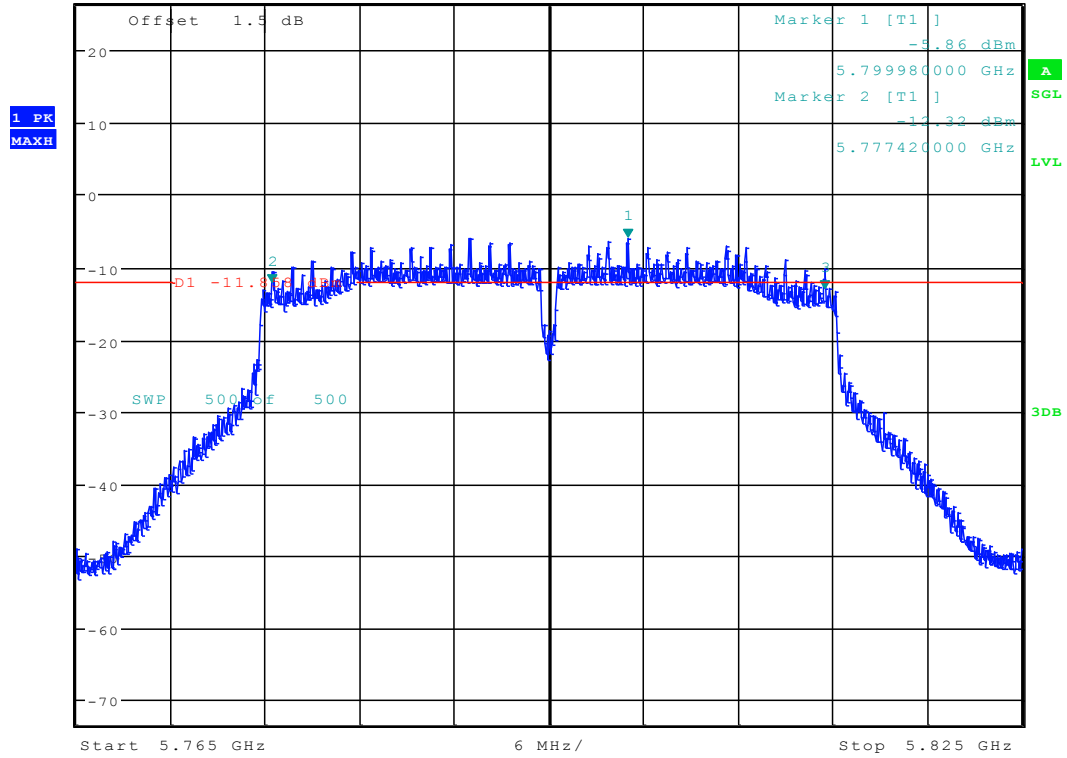
Date: 23.JAN.2018 16:37:41



### 4.36 11AC40MIMO\_159 ANT 2



\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -13.11 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.812540000 GHz



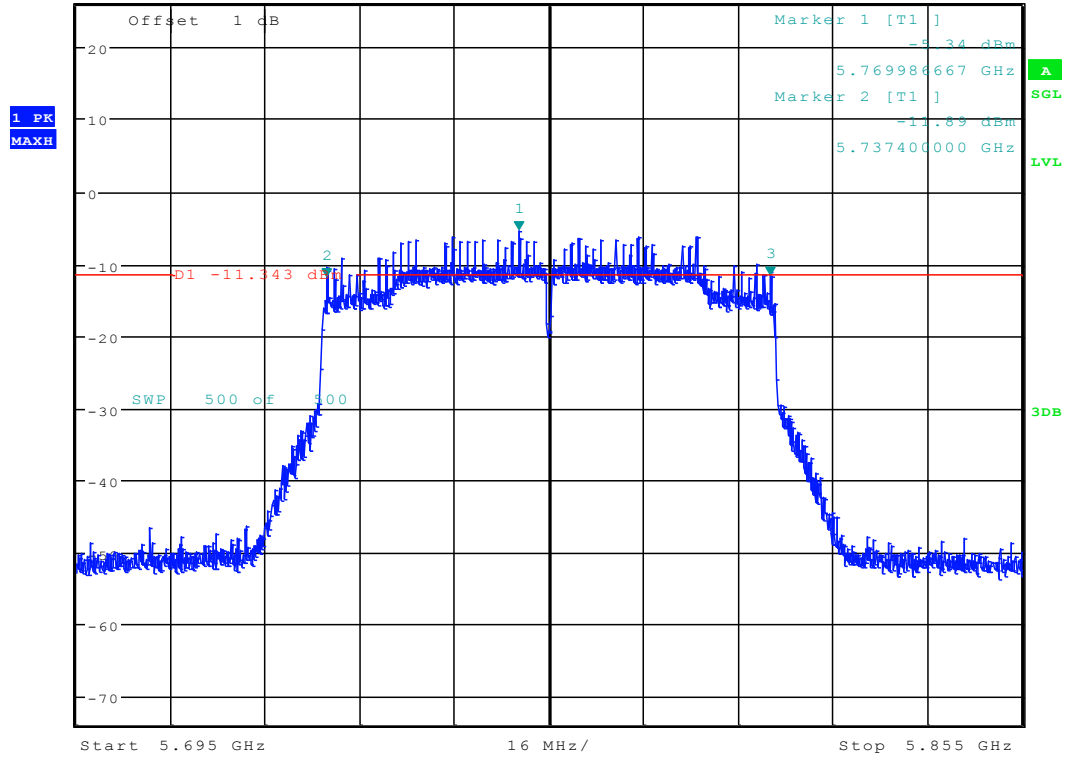
Date: 26.JAN.2018 16:25:13



### 4.37 11AC80\_155 ANT 1



\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -11.67 dBm  
 Ref 26 dBm      \*Att 20 dB      SWT 20 ms      5.812546667 GHz

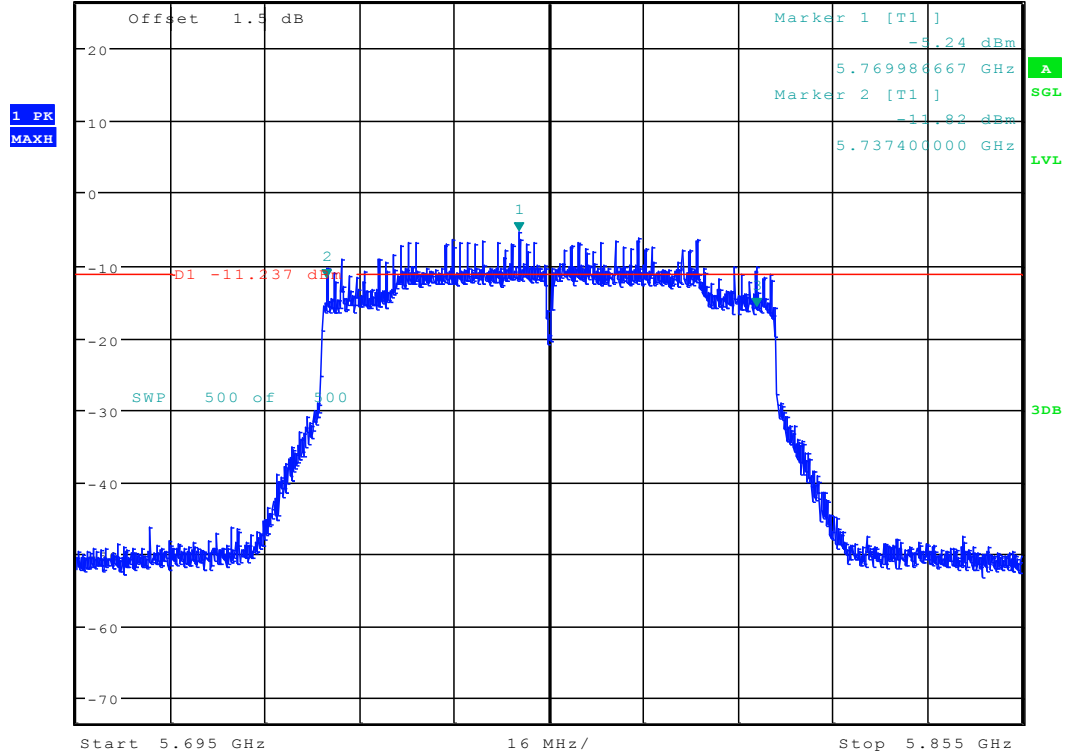


Date: 22.JAN.2018 17:50:01

### 4.38 11AC80\_155 ANT 2

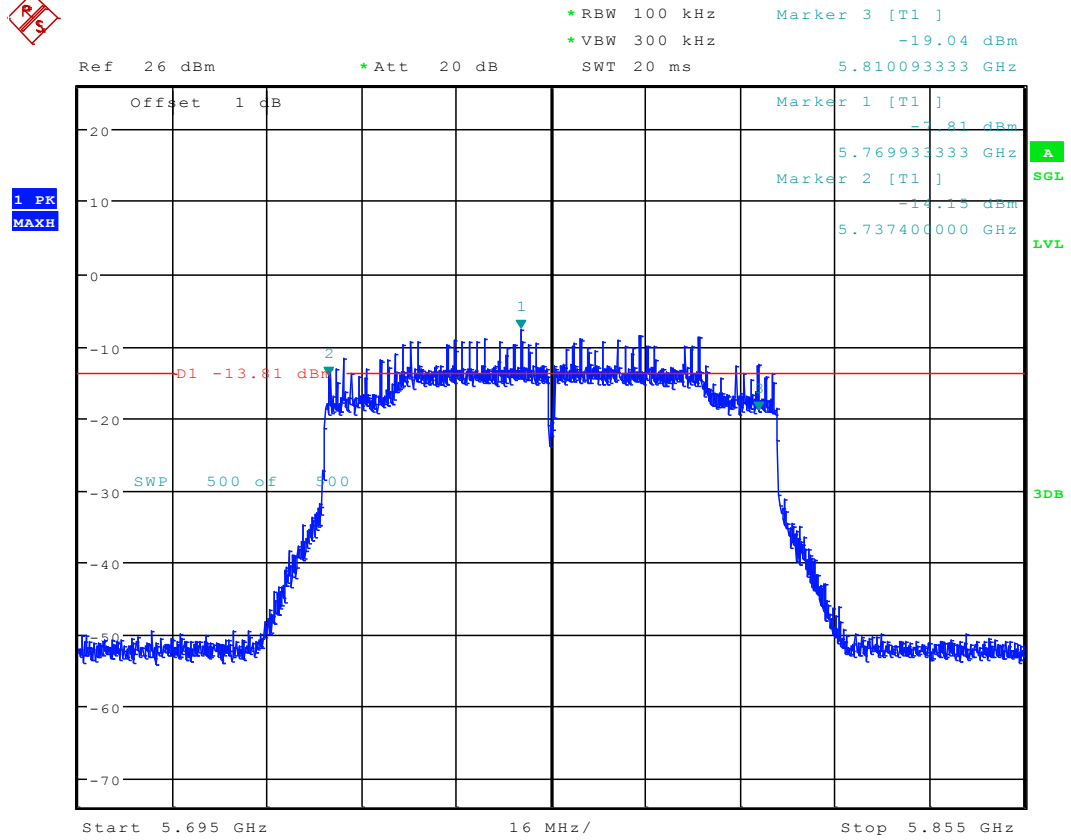


\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -15.78 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.810093333 GHz



Date: 26.JAN.2018 18:10:33

## 4.39 11AC80MIMO\_155 ANT 1

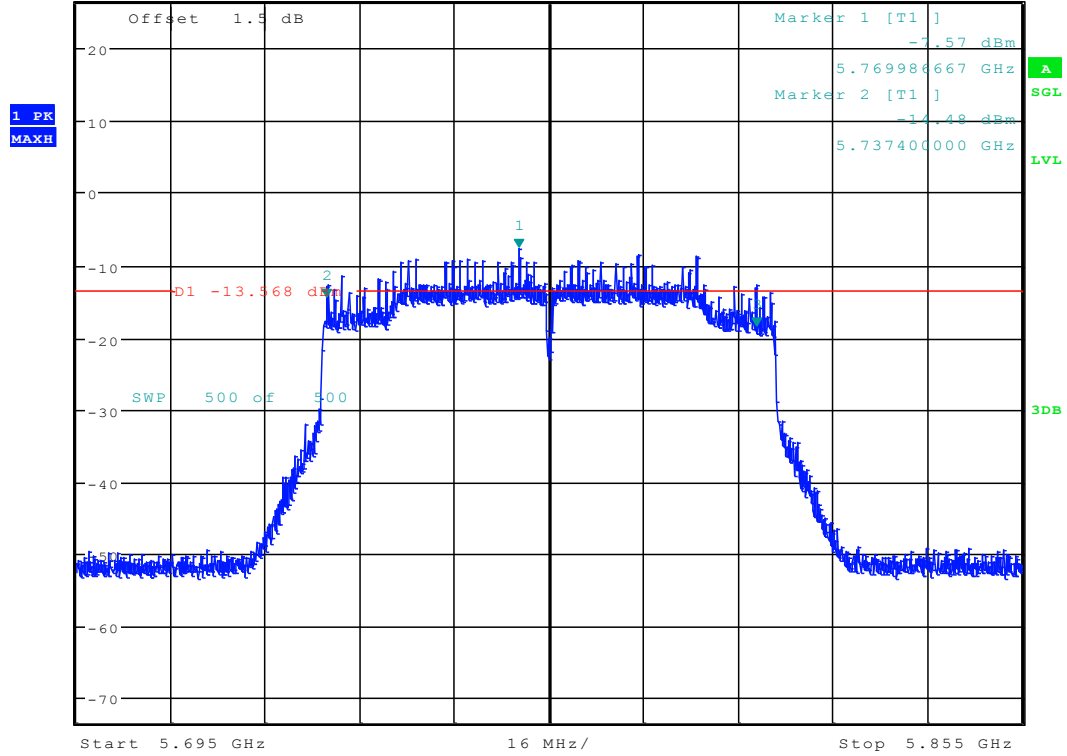


Date: 23.JAN.2018 17:04:44

### 4.40 11AC80MIMO\_155 ANT 2



\*RBW 100 kHz      Marker 3 [T1 ]  
 \*VBW 300 kHz      -18.51 dBm  
 Ref 26.5 dBm      \*Att 20 dB      SWT 20 ms      5.810093333 GHz



Date: 26.JAN.2018 16:59:51



# 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	16.88	PASS
	36	5180	ANT 2	16.88	PASS
	48	5240	ANT 1	16.86	PASS
	48	5240	ANT 2	16.86	PASS
	52	5260	ANT 1	16.86	PASS
	52	5260	ANT 2	16.86	PASS
	64	5320	ANT 1	16.88	PASS
	64	5320	ANT 2	16.86	PASS
	100	5500	ANT 1	16.86	PASS
	100	5500	ANT 2	16.86	PASS
	140	5700	ANT 1	16.82	PASS
	140	5700	ANT 2	16.84	PASS
	144	5720	ANT 1	16.86	PASS
	144	5720	ANT 2	16.84	PASS
	149	5745	ANT 1	16.84	PASS
	149	5745	ANT 2	18.68	PASS
	165	5825	ANT 1	16.84	PASS
	165	5825	ANT 2	16.86	PASS
11N20	36	5180	ANT 1	17.96	PASS
	36	5180	ANT 2	17.96	PASS
	48	5240	ANT 1	17.94	PASS
	48	5240	ANT 2	17.92	PASS
	52	5260	ANT 1	17.92	PASS
	52	5260	ANT 2	17.94	PASS
	64	5320	ANT 1	17.96	PASS
	64	5320	ANT 2	17.96	PASS
	100	5500	ANT 1	17.94	PASS
	100	5500	ANT 2	17.96	PASS
	140	5700	ANT 1	17.94	PASS
	140	5700	ANT 2	17.94	PASS
	144	5720	ANT 1	17.92	PASS
	144	5720	ANT 2	17.94	PASS
	149	5745	ANT 1	17.92	PASS



	149	5745	ANT 2	18.78	PASS	
	165	5825	ANT 1	17.94	PASS	
	165	5825	ANT 2	17.94	PASS	
11N20MIMO	36	5180	ANT 1	17.96	PASS	
	36	5180	ANT 2	17.78	PASS	
	48	5240	ANT 1	17.94	PASS	
	48	5240	ANT 2	17.78	PASS	
	52	5260	ANT 1	17.96	PASS	
	52	5260	ANT 2	17.78	PASS	
	64	5320	ANT 1	17.96	PASS	
	64	5320	ANT 2	17.78	PASS	
	100	5500	ANT 1	17.94	PASS	
	100	5500	ANT 2	17.78	PASS	
	140	5700	ANT 1	17.98	PASS	
	140	5700	ANT 2	17.8	PASS	
	144	5720	ANT 1	17.96	PASS	
	144	5720	ANT 2	17.78	PASS	
	149	5745	ANT 1	17.98	PASS	
	149	5745	ANT 2	18.26	PASS	
	165	5825	ANT 1	17.96	PASS	
	165	5825	ANT 2	17.78	PASS	
	11N40	38	5190	ANT 1	36.22	PASS
		38	5190	ANT 2	36.22	PASS
46		5230	ANT 1	36.28	PASS	
46		5230	ANT 2	36.32	PASS	
54		5270	ANT 1	36.28	PASS	
54		5270	ANT 2	36.2	PASS	
62		5310	ANT 1	36.28	PASS	
62		5310	ANT 2	36.3	PASS	
102		5510	ANT 1	36.12	PASS	
102		5510	ANT 2	36.48	PASS	
134		5670	ANT 1	36.32	PASS	
134		5670	ANT 2	36.28	PASS	
142		5710	ANT 1	36.18	PASS	
142		5710	ANT 2	36.3	PASS	
151		5755	ANT 1	36.28	PASS	
151		5755	ANT 2	36.25	PASS	
159		5795	ANT 1	36.28	PASS	
159		5795	ANT 2	36.22	PASS	
11N40MIMO	38	5190	ANT 1	36.32	PASS	
	38	5190	ANT 2	36.14	PASS	





	46	5230	ANT 1	36.32	PASS
	46	5230	ANT 2	36.16	PASS
	54	5270	ANT 1	36.34	PASS
	54	5270	ANT 2	36.16	PASS
	62	5310	ANT 1	36.34	PASS
	62	5310	ANT 2	36.18	PASS
	102	5510	ANT 1	36.3	PASS
	102	5510	ANT 2	36.16	PASS
	134	5670	ANT 1	36.3	PASS
	134	5670	ANT 2	36.14	PASS
	142	5710	ANT 1	36.3	PASS
	142	5710	ANT 2	36.16	PASS
	151	5755	ANT 1	36.3	PASS
	151	5755	ANT 2	36.36	PASS
	159	5795	ANT 1	36.32	PASS
	159	5795	ANT 2	36.18	PASS
11AC20	36	5180	ANT 1	17.98	PASS
	36	5180	ANT 2	17.94	PASS
	48	5240	ANT 1	17.94	PASS
	48	5240	ANT 2	17.92	PASS
	52	5260	ANT 1	17.94	PASS
	52	5260	ANT 2	17.92	PASS
	64	5320	ANT 1	17.96	PASS
	64	5320	ANT 2	17.96	PASS
	100	5500	ANT 1	17.92	PASS
	100	5500	ANT 2	17.96	PASS
	140	5700	ANT 1	17.96	PASS
	140	5700	ANT 2	17.96	PASS
	144	5720	ANT 1	17.94	PASS
	144	5720	ANT 2	17.96	PASS
	149	5745	ANT 1	17.92	PASS
	149	5745	ANT 2	18.94	PASS
165	5825	ANT 1	17.94	PASS	
165	5825	ANT 2	17.94	PASS	
11AC20MIMO	36	5180	ANT 1	17.96	PASS
	36	5180	ANT 2	17.76	PASS
	48	5240	ANT 1	17.96	PASS
	48	5240	ANT 2	17.76	PASS
	52	5260	ANT 1	17.96	PASS
	52	5260	ANT 2	17.76	PASS
	64	5320	ANT 1	17.96	PASS



	64	5320	ANT 2	17.76	PASS
	100	5500	ANT 1	17.94	PASS
	100	5500	ANT 2	17.76	PASS
	140	5700	ANT 1	17.96	PASS
	140	5700	ANT 2	17.76	PASS
	144	5720	ANT 1	17.96	PASS
	144	5720	ANT 2	17.78	PASS
	149	5745	ANT 1	17.96	PASS
	149	5745	ANT 2	17.76	PASS
	165	5825	ANT 1	18	PASS
	165	5825	ANT 2	17.76	PASS
11AC40	38	5190	ANT 1	36.3	PASS
	38	5190	ANT 2	36.28	PASS
	46	5230	ANT 1	36.28	PASS
	46	5230	ANT 2	36.24	PASS
	54	5270	ANT 1	36.3	PASS
	54	5270	ANT 2	36.26	PASS
	62	5310	ANT 1	36.32	PASS
	62	5310	ANT 2	36.3	PASS
	102	5510	ANT 1	36.32	PASS
	102	5510	ANT 2	36.64	PASS
	134	5670	ANT 1	36.28	PASS
	134	5670	ANT 2	36.28	PASS
	142	5710	ANT 1	36.28	PASS
	142	5710	ANT 2	36.28	PASS
	151	5755	ANT 1	36.26	PASS
	151	5755	ANT 2	36.84	PASS
159	5795	ANT 1	36.3	PASS	
159	5795	ANT 2	36.32	PASS	
11AC40MIMO	38	5190	ANT 1	36.28	PASS
	38	5190	ANT 2	36.12	PASS
	46	5230	ANT 1	36.28	PASS
	46	5230	ANT 2	36.14	PASS
	54	5270	ANT 1	36.32	PASS
	54	5270	ANT 2	36.12	PASS
	62	5310	ANT 1	36.32	PASS
	62	5310	ANT 2	36.16	PASS
	102	5510	ANT 1	36.32	PASS
	102	5510	ANT 2	36.14	PASS
	134	5670	ANT 1	36.3	PASS
	134	5670	ANT 2	36.12	PASS

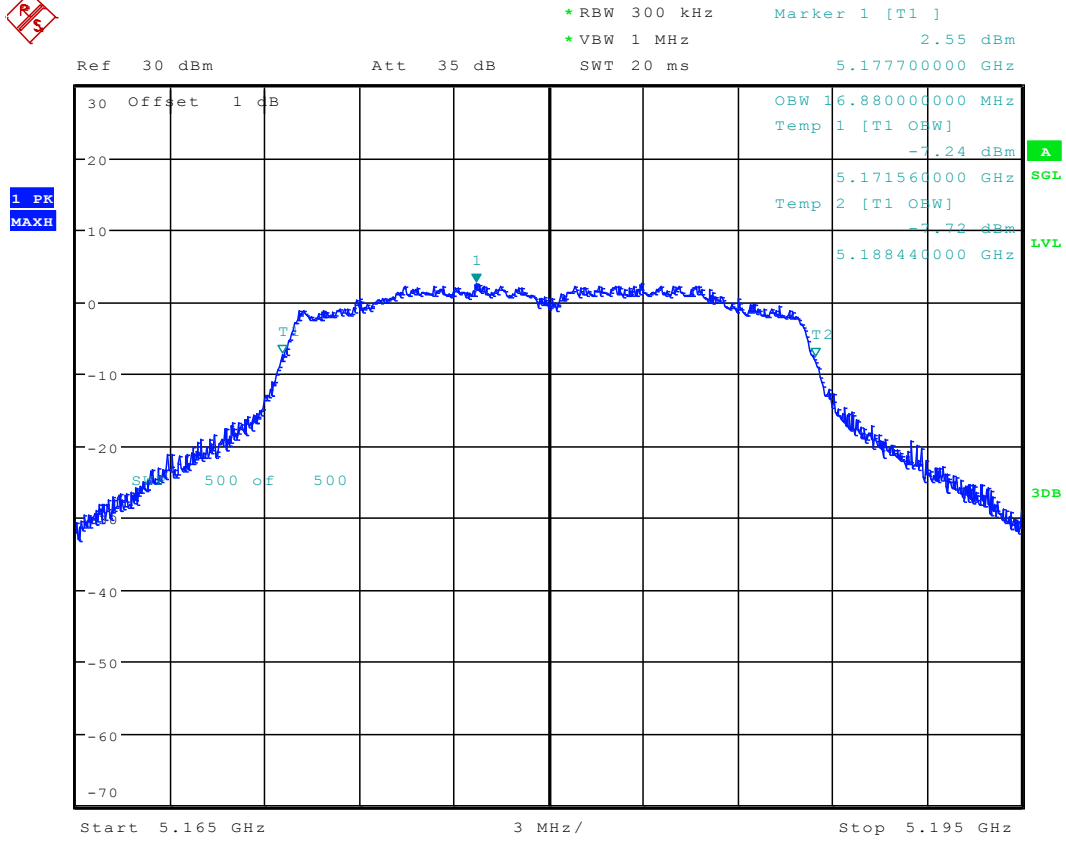


	142	5710	ANT 1	36.3	PASS
	142	5710	ANT 2	36.14	PASS
	151	5755	ANT 1	36.32	PASS
	151	5755	ANT 2	36.16	PASS
	159	5795	ANT 1	36.32	PASS
	159	5795	ANT 2	36.16	PASS
11AC80	42	5210	ANT 1	74.88	PASS
	42	5210	ANT 2	74.84	PASS
	58	5290	ANT 1	75	PASS
	58	5290	ANT 2	75.04	PASS
	106	5530	ANT 1	75	PASS
	106	5530	ANT 2	75.36	PASS
	138	5690	ANT 1	74.92	PASS
	138	5690	ANT 2	74.92	PASS
	155	5775	ANT 1	75	PASS
	155	5775	ANT 2	75	PASS
11AC80MIMO	42	5210	ANT 1	74.92	PASS
	42	5210	ANT 2	74.88	PASS
	58	5290	ANT 1	75.04	PASS
	58	5290	ANT 2	75	PASS
	106	5530	ANT 1	75.04	PASS
	106	5530	ANT 2	75	PASS
	138	5690	ANT 1	74.92	PASS
	138	5690	ANT 2	74.88	PASS
	155	5775	ANT 1	74.96	PASS
	155	5775	ANT 2	74.92	PASS



### 6 Test Plot

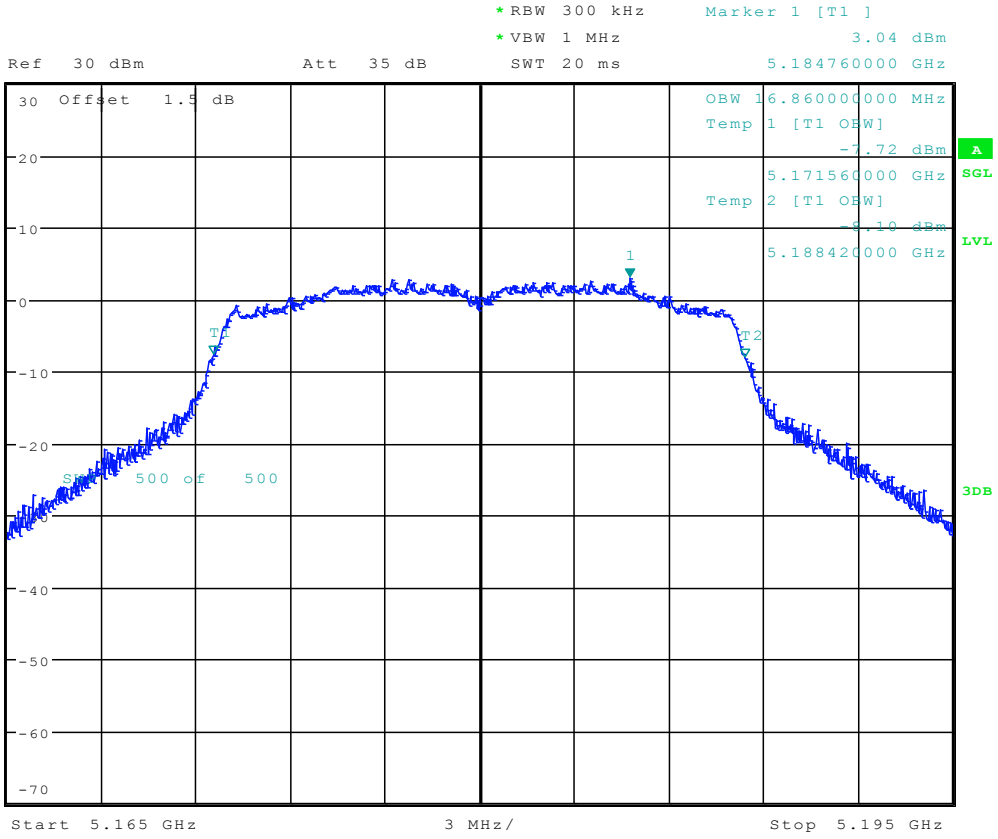
#### 6.1 11A20\_36 ANT 1



Date: 26.JAN.2018 18:23:56

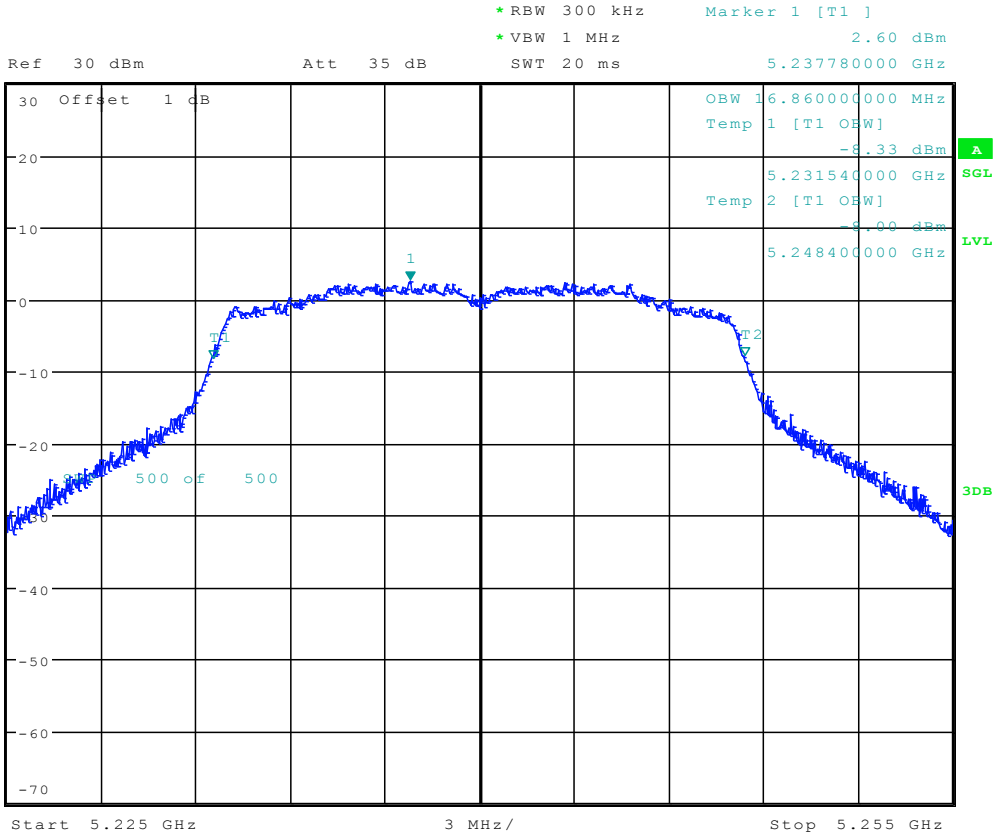


6.2 11A20\_36 ANT 2



Date: 24.JAN.2018 11:07:35

### 6.3 11A20\_48 ANT 1



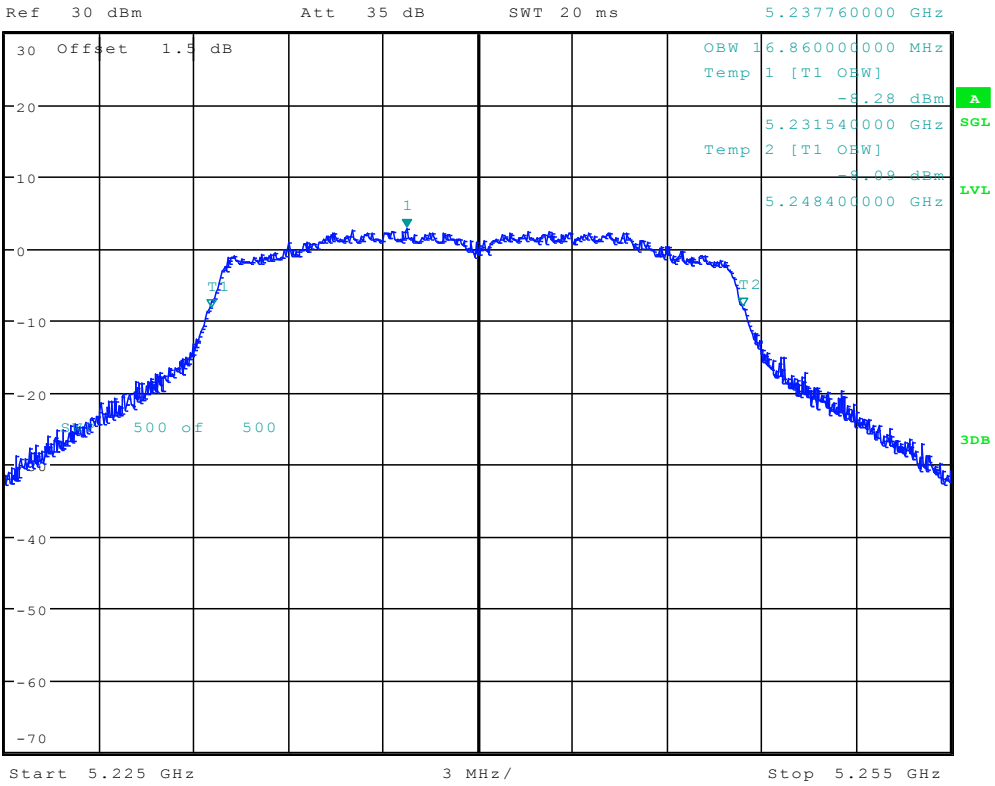
Date: 22.JAN.2018 14:21:04



6.4 11A20\_48 ANT 2



\* RBW 300 kHz Marker 1 [T1 ]
\* VBW 1 MHz 2.70 dBm
SWT 20 ms 5.237760000 GHz



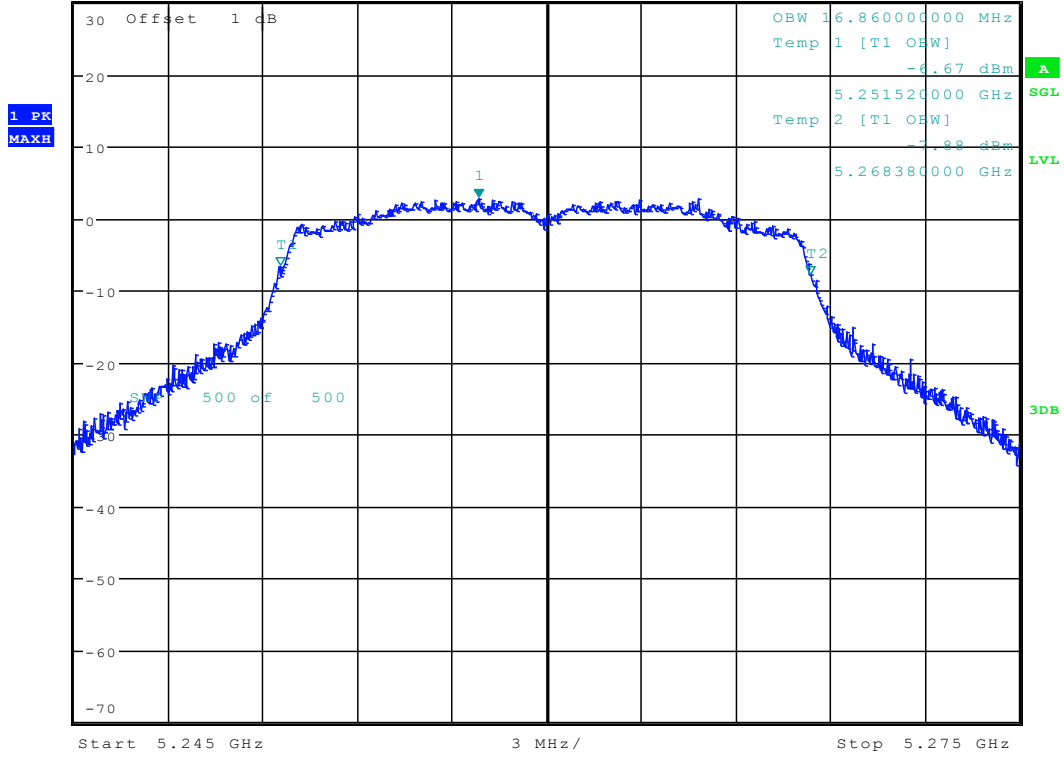
Date: 24.JAN.2018 11:10:12



### 6.5 11A20\_52 ANT 1



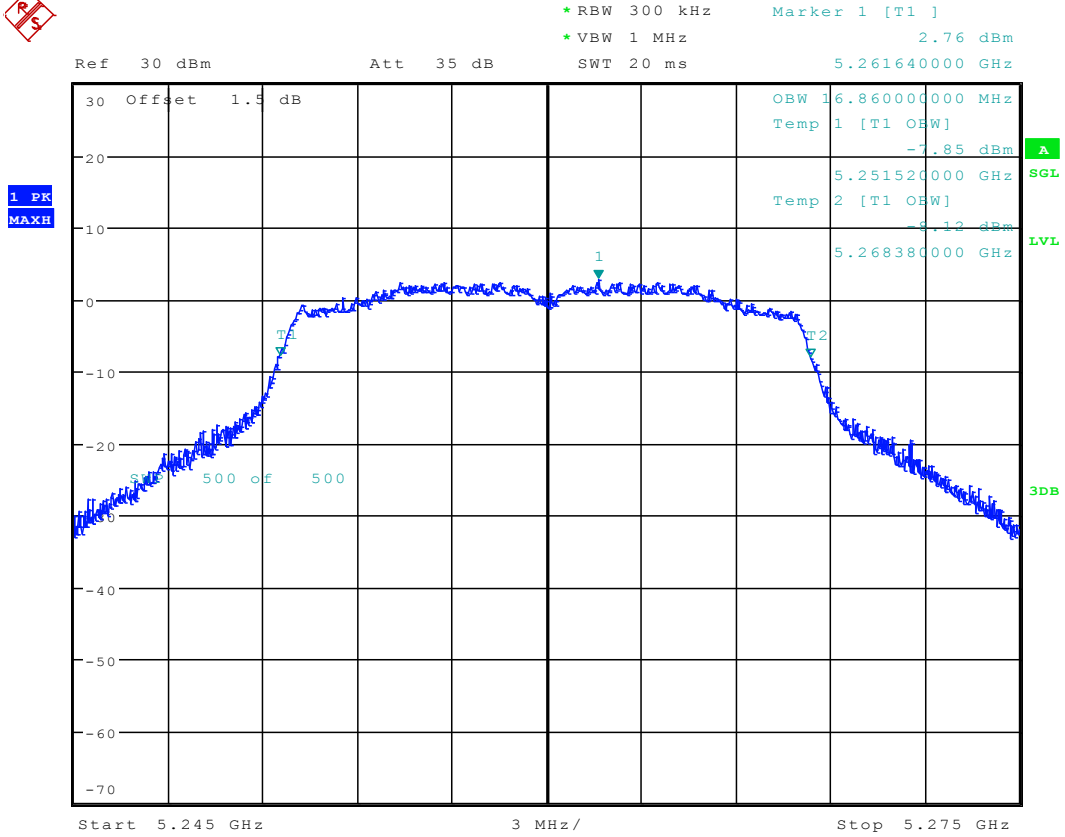
\*RBW 300 kHz      Marker 1 [T1 ]  
 \*VBW 1 MHz      2.86 dBm  
 Ref 30 dBm      Att 35 dB      SWT 20 ms      5.257860000 GHz



Date: 22.JAN.2018 14:23:47

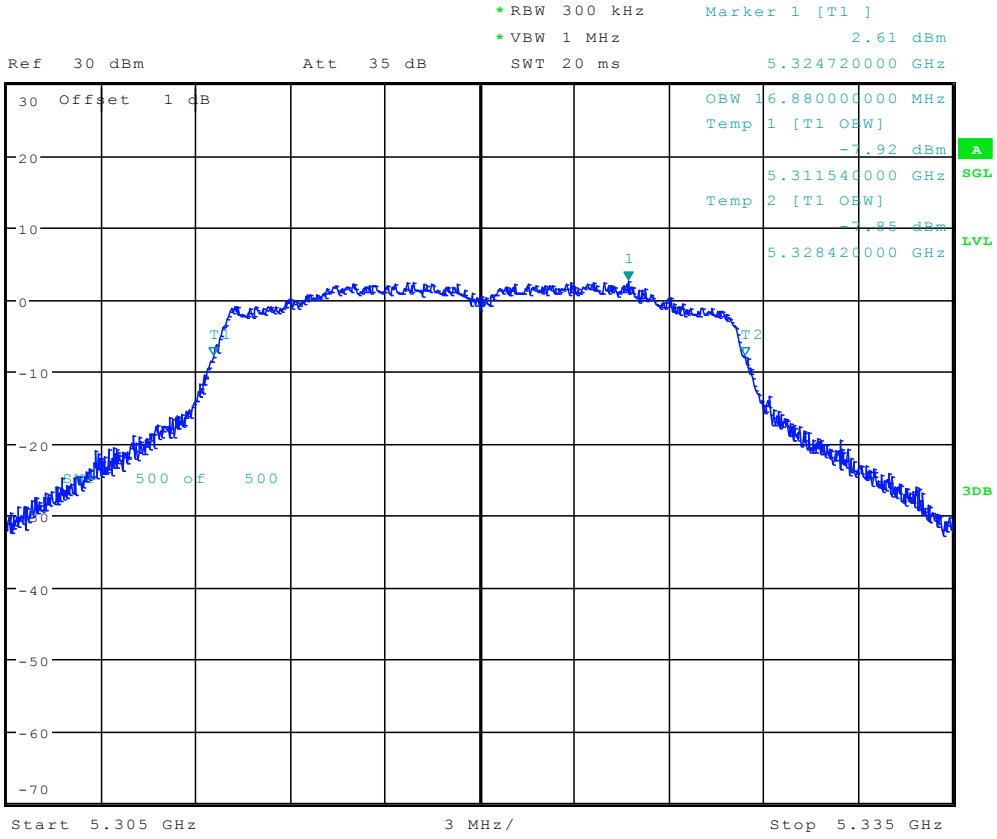


### 6.6 11A20\_52 ANT 2



Date: 24.JAN.2018 11:12:53

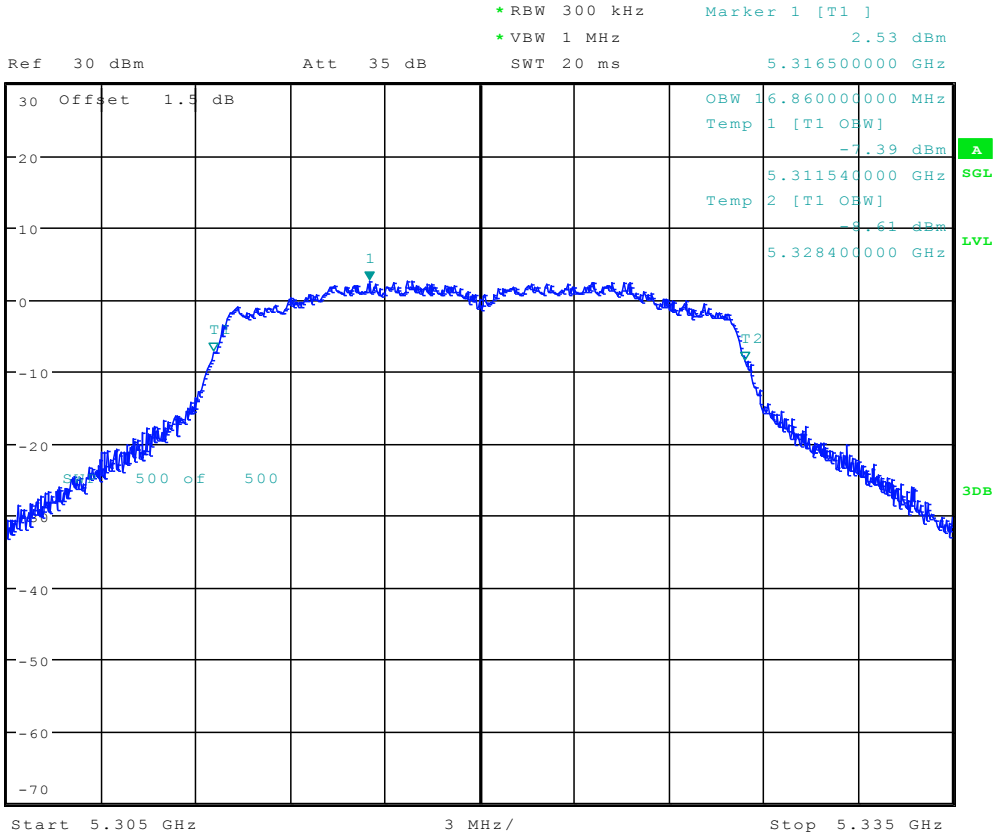
### 6.7 11A20\_64 ANT 1



Date: 22.JAN.2018 14:26:10

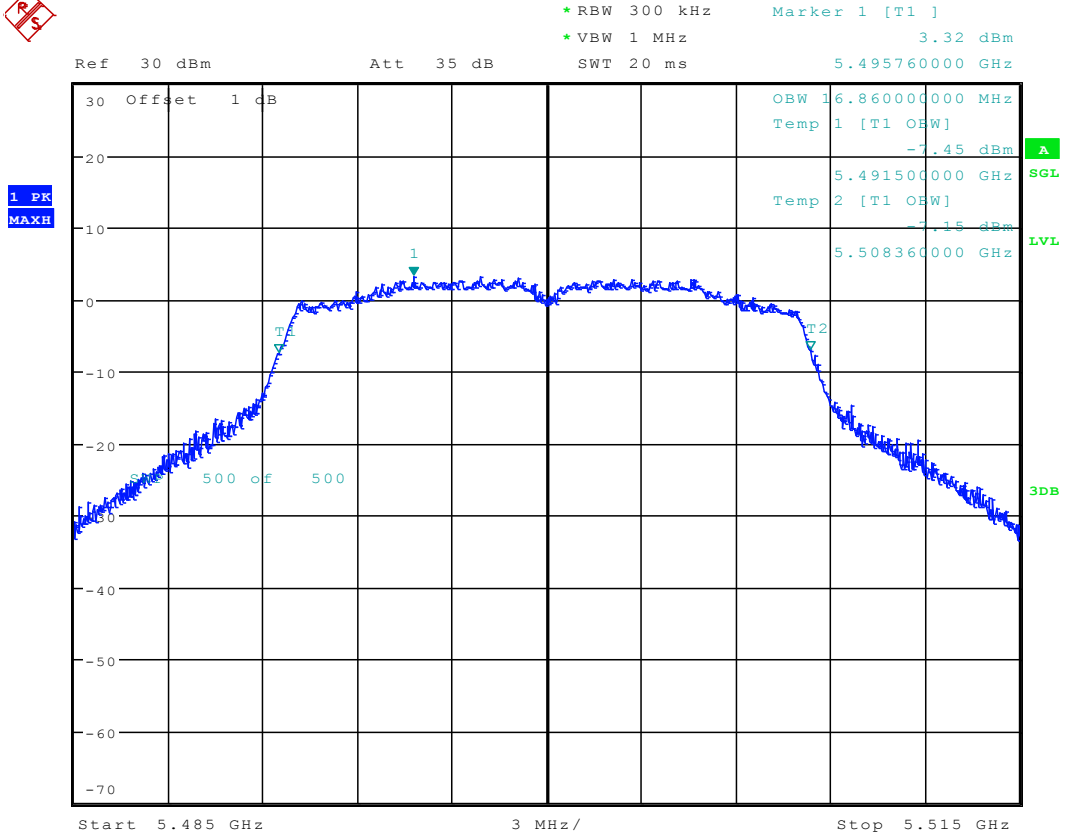


### 6.8 11A20\_64 ANT 2



Date: 24.JAN.2018 11:15:22

6.9 11A20\_100 ANT 1



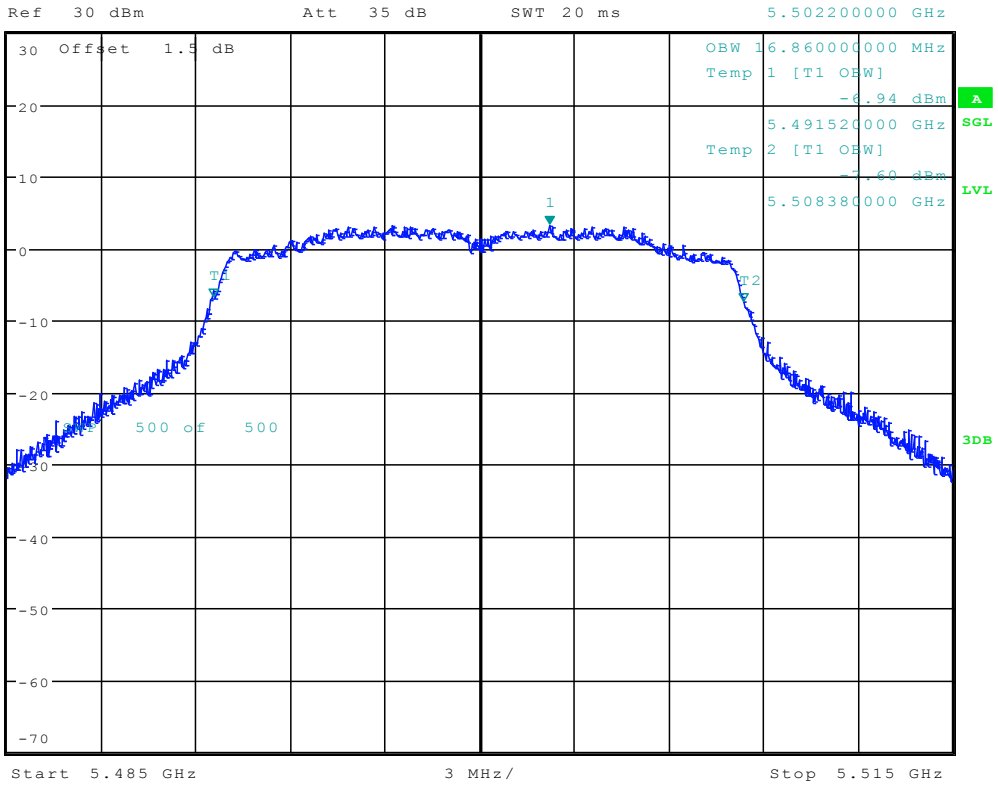
Date: 22.JAN.2018 14:29:37



### 6.10 11A20\_100 ANT 2



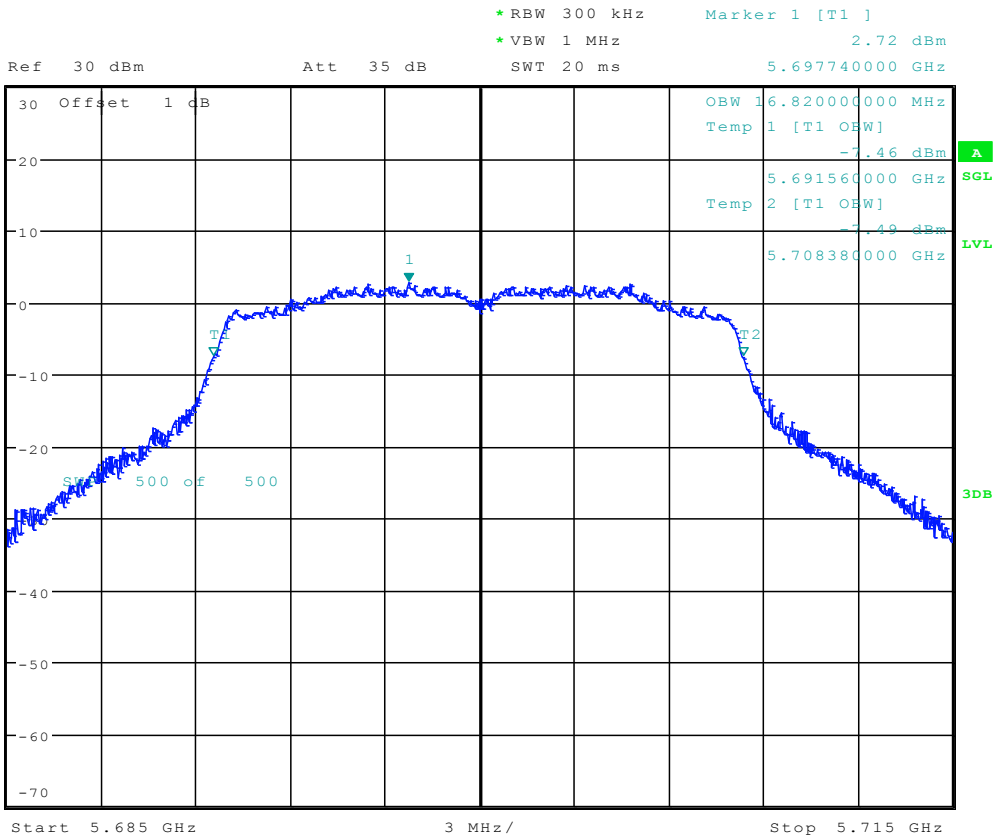
\*RBW 300 kHz      Marker 1 [T1 ]  
\*VBW 1 MHz                                3.16 dBm  
SWT 20 ms                                5.502200000 GHz



Date: 24.JAN.2018 11:20:09



### 6.11 11A20\_140 ANT 1



Date: 22.JAN.2018 14:32:44