

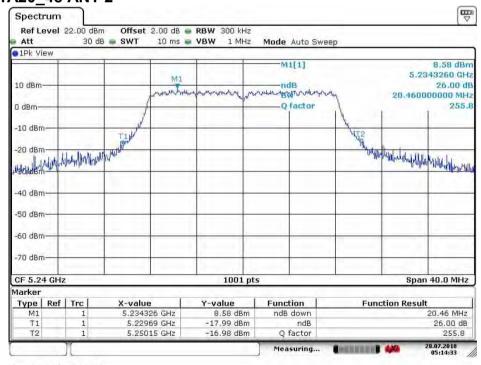
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Date: 28.JUL.2018 08:57:00

### 5.4.2.4.2 11A20 48 ANT 2

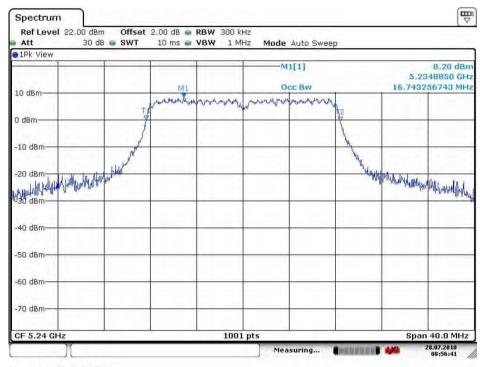


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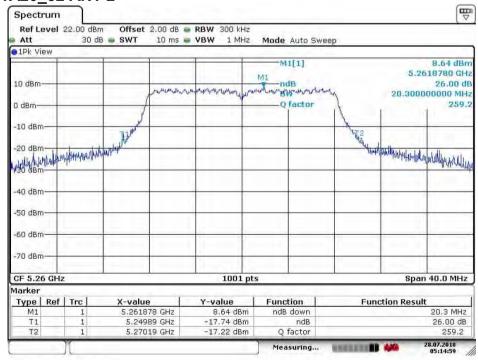
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Date: 28.JUL.2018 08:56:41

#### 5.4.2.4.3 11A20 52 ANT 2

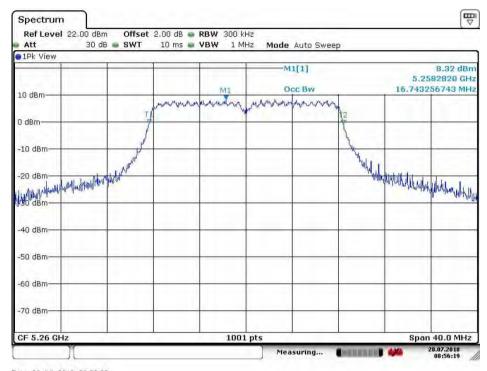


Date: 28.JUL.2018 05:14:59



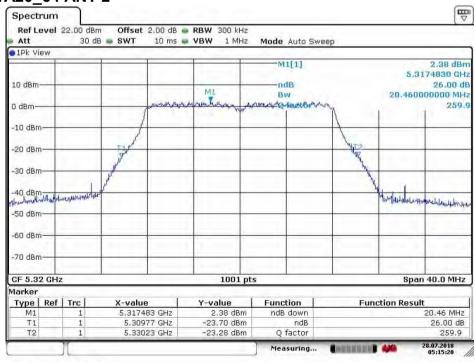
Report No.: SZEM180700654903

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Date: 28.JUL.2018 08:56:20

#### 5.4.2.4.4 11A20 64 ANT 2

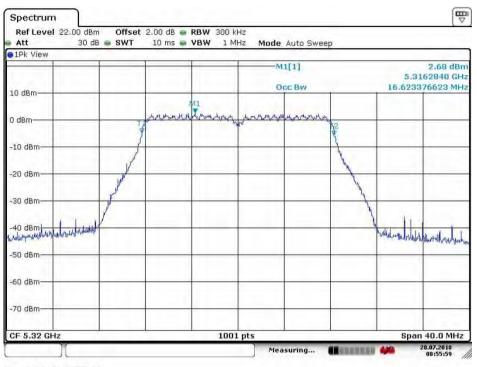


Date: 28.JUL.2018 05:15:20



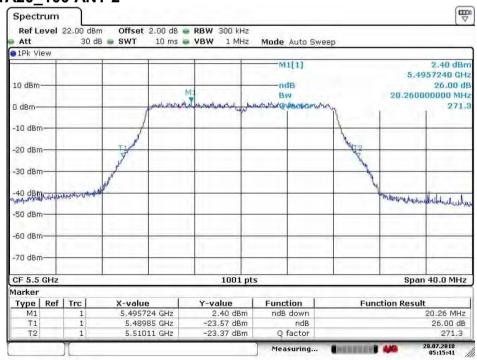
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Date: 28.JUL.2018 08:55:59

### 5.4.2.4.5 11A20 100 ANT 2

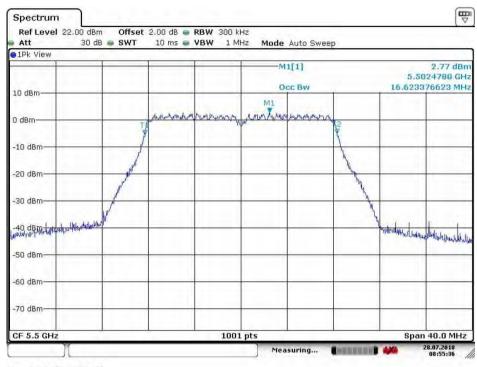


Date: 28.JUL.2018 05:15:42



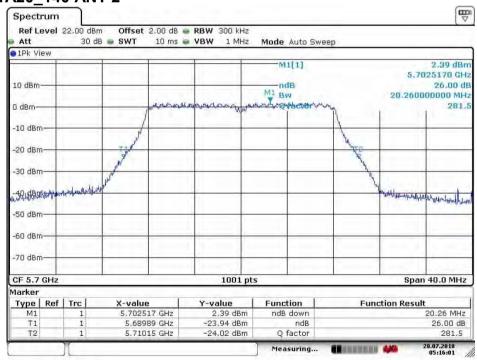
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Date: 28.JUL.2018 08:55:36

### 5.4.2.4.6 11A20 140 ANT 2

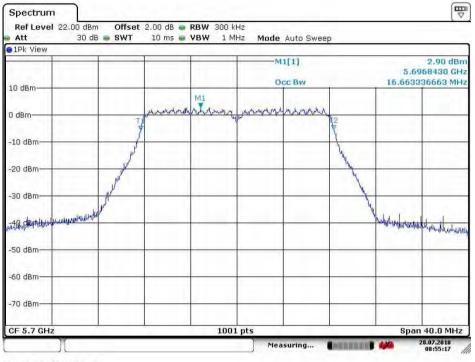


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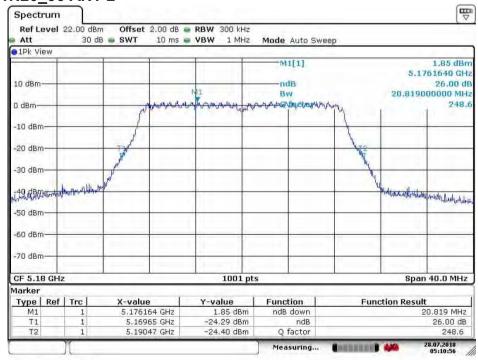
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Date: 28.JUL.2018 08:55:18

#### 5.4.2.4.7 11N20 36 ANT 2

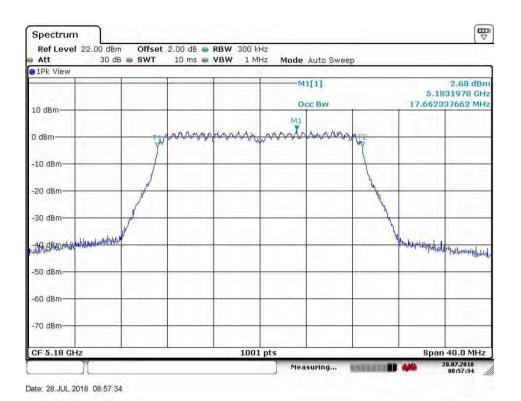


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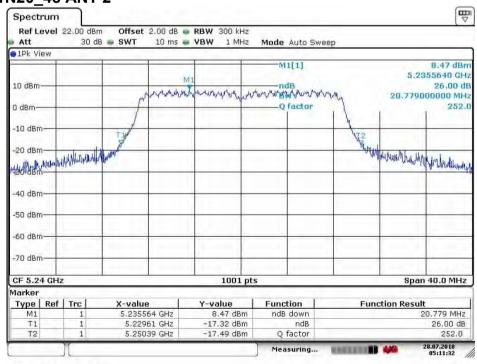


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#### 5.4.2.4.8 11N20 48 ANT 2

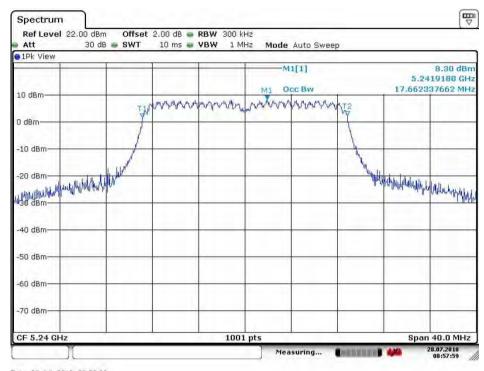


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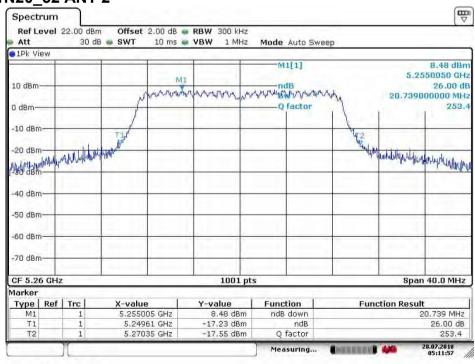
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Date: 28.JUL.2018 08:58:00

#### 5.4.2.4.9 11N20 52 ANT 2

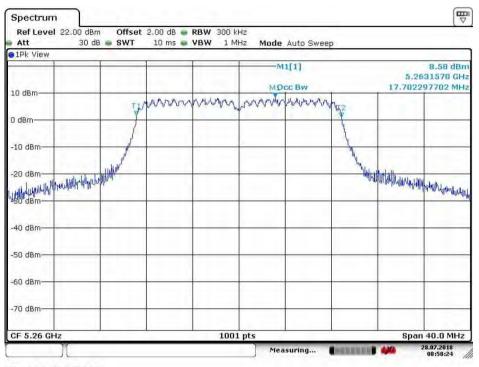


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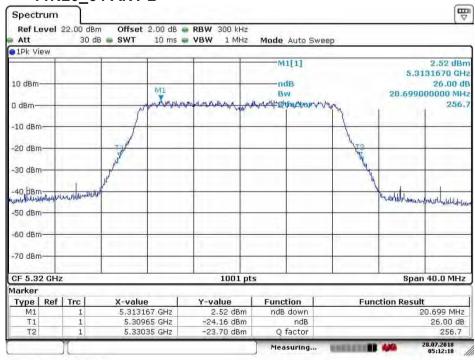
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Date: 28.JUL.2018 08:58:24

### 5.4.2.4.10 11N20 64 ANT 2



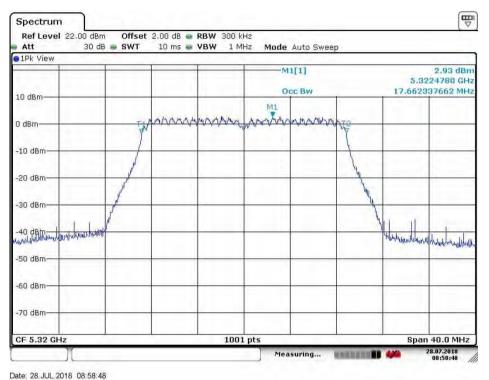
Date: 28.JUL.2018 05:12:19



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H V

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Date. 28.JUL.2018 06.56.46

Spectrum

11N20 100 ANT 2

### 5.4.2.4.11

#### Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🖨 SWT 1 MHz Att 10 ms a VBW Mode Auto Sweep 1Pk View M1[1] 2.65 dBm 5.5018380 GHz 10 dBm ndB 26,00 dB MI 20.739000000 MHz BW 265.3 O dam -10 dBm -20 dBm -30 dBm richarden Helpfreitegenhauten werden fen HAR SAM -50 dBm -70 dBm-CF 5.5 GHz 1001 pts Span 40.0 MHz Marker

Function

ndB

Q factor

Measuring...

**Function Result** 

20,739 MHz

26.00 dB

265.3 28.07.2018

Date: 28.JUL.2018 05:12:50

Type | Ref | Trc |

X-value

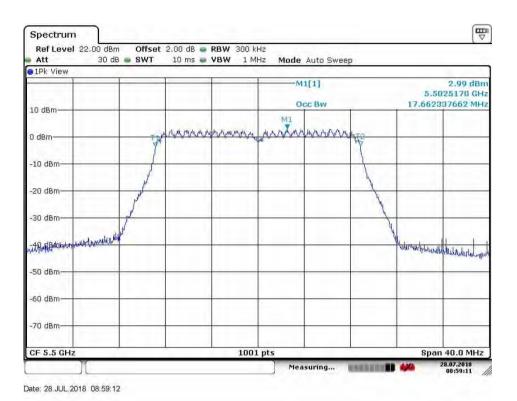
5.501838 GHz 5.48957 GHz Y-value 2.65 dBm -23,47 dBm

-23.58 dBm



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5.4.2.4.12

Date: 28.JUL.2018 05:13:17

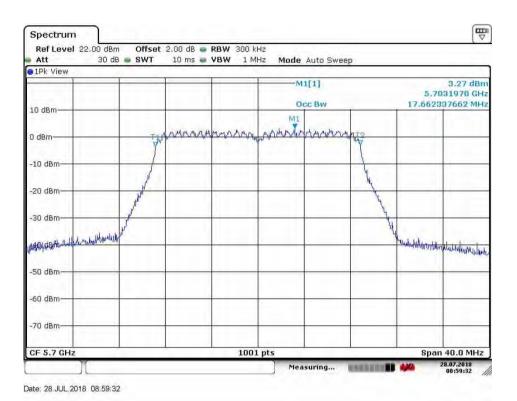
11N20 140 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🖨 SWT Att 10 ms a VBW 1 MHz Mode Auto Sweep 1Pk View M1[1] 2.78 dBm 5.7030770 GHz 10 dBm ndB 26,00 dB MBW 20.859000000 MHz 273.4 O dam -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm-CF 5.7 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 2.78 dBm -23.59 dBm 20.859 MHz 5.703077 GHz 5.68965 GHz 26.00 dB ndB -24.59 dBm Q factor 273.4 28.07.2018 05:13:17 Measuring... CONTRACT 440

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5.4.2.4.13 11N4

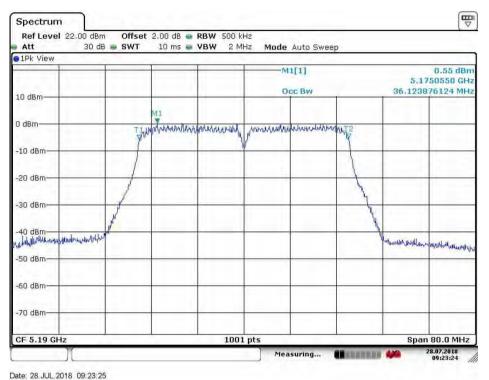


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Date. 28.JUL.2018 09.23.20

### 5.4.2.4.14

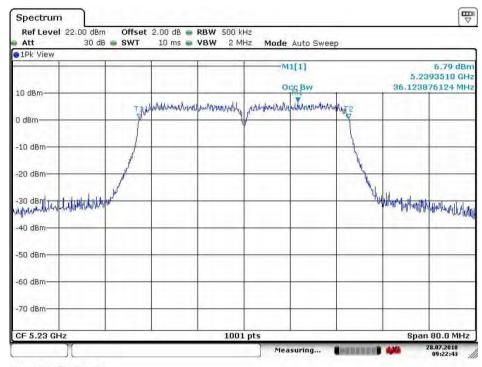
#### 11N40 46 ANT 2 Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 500 kHz 30 dB 🕳 SWT Att 10 ms a VBW 2 MHz Mode Auto Sweep 1Pk View M1[1] 6.78 dBm 5.2150550 GHz 10 dBm ndB 26,00 dB Menaneth 40.919000000 MHz MANANAMAN MARKANIANAMARKANIA 127.4 O dam O factor -10 dBm -20 dBm handermodulation real franchistation -30 dBM rate milethin -40 dBm -50 dBm--70 dBm-CF 5.23 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 215055 GHz 6.78 dBm -19.26 dBm 40.919 MHz 26.00 dB 5.209461 GHz ndB 5.25038 GHz 18.98 dBm Q factor 28.07.2018 Measuring...

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Date: 28.JUL.2018 09:22:44

### 5.4.2.4.15

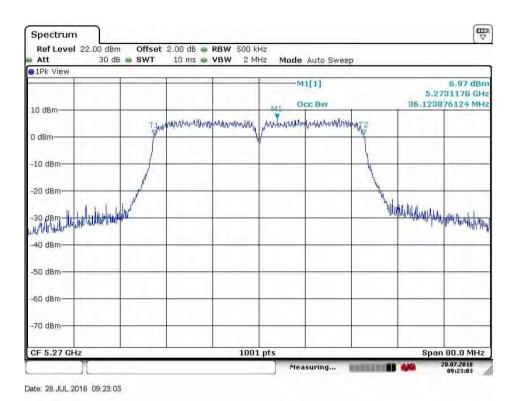
#### 11N40 54 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB - RBW 500 kHz 30 dB 🖷 SWT Att 10 ms w VBW 2 MHz Mode Auto Sweep 1Pk View M1[1] 8.27 dBm 5.2592910 GHz 10 dBm ndB 26,00 dB hard hardellen granden to Approximately 40.839000000 MHz O factor 128.8 O dam -10 dBm happendalineer, Wheelerman Hapidayallandinakununyaliharila -40 dBm -50 dBm -70 dBm-CF 5.27 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 5.259291 GHz 8.27 dBm -18.75 dBm 40.839 MHz 5.2497 GHz 26.00 dB ndB 5,290539 GHz 18.52 dBm Q factor 128.8 28.07.2018 Measuring...

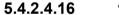
Date: 28.JUL.2018 05:18:51



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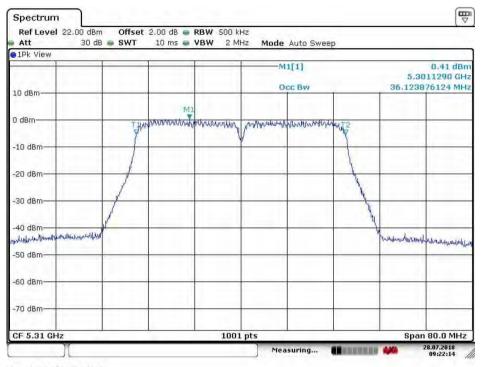
#### 11N40 62 ANT 2 H V Spectrum Offset 2.00 dB - RBW 500 kHz Ref Level 22.00 dBm 30 dB - SWT Att 10 ms a VBW 2 MHz Mode Auto Sweep 1Pk View M1[1] 0.66 dBm 5.2950550 GHz 10 dBm ndB 26,00 dB 41.079000000 MHz BW 128.9 O dam Moreowall married wife whole to Bull British war. -10 dBm -20 dBm -30 dBm--40 dBm district a Later Hallen of the street -50 dBm--70 dBm-CF 5.31 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 0.66 dBm 41.079 MHz 295055 GHz 26.00 dB 5.289301 GHz -24.88 dBm ndB 5.33038 GHz 24.97 dBm Q factor 128.9 28.07.2018 05:19:14 Measuring...

Date: 28.JUL.2018 05:19:14



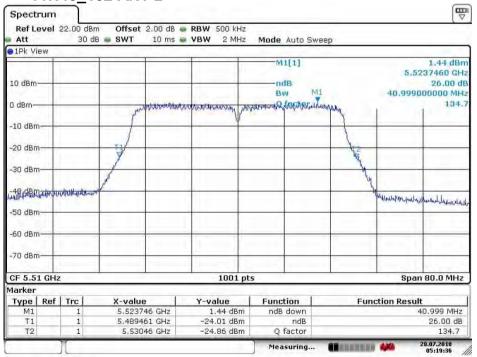
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### 5.4.2.4.17 11N40 102 ANT 2

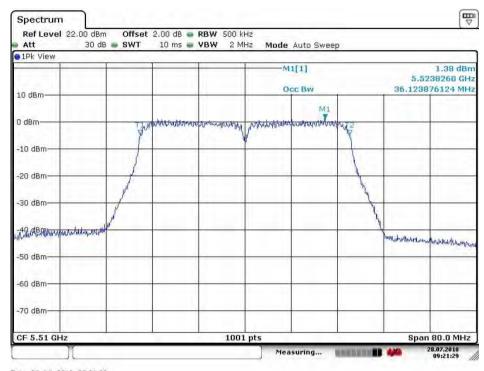


Date: 28.JUL.2018 05:19:37



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Date: 28.JUL.2018 09:21:30



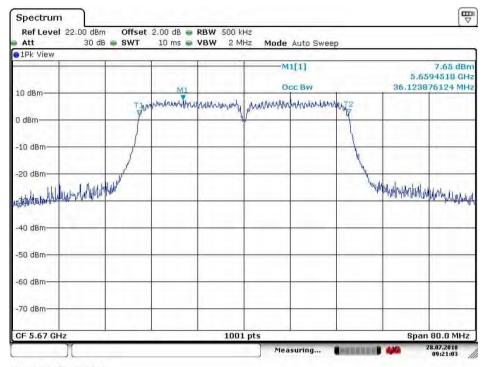
#### 11N40 134 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 500 kHz 30 dB 🖷 SWT Att 10 ms a VBW 2 MHz Mode Auto Sweep 1Pk View M1[1] 7,46 dBm 5,6555340 GHz 10 dBm ndB 26,00 dB warmen de manuelle when the more manufactured by the second with 41.239000000 MHz O factor 137.1 O dam -10 dBm Marthallander of the second of -40 dam -50 dBm--70 dBm-CF 5.67 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 7.46 dBm -18.87 dBm 41.239 MHz 5.655534 GHz 26.00 dB 5.649381 GHz ndB 5,690619 GHz 18.97 dBm Q factor 28.07.2018 Measuring... CONTRACT 440

Date: 28.JUL.2018 05:20:07



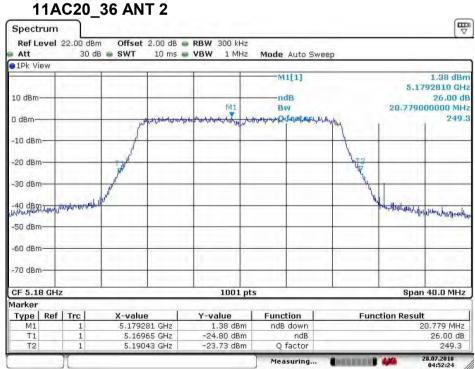
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Date: 28.JUL.2018 09:21:04

### 5.4.2.4.19

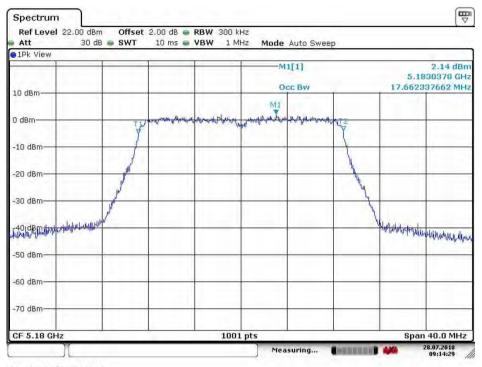


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Date: 28.JUL.2018 09:14:29

### 5.4.2.4.20

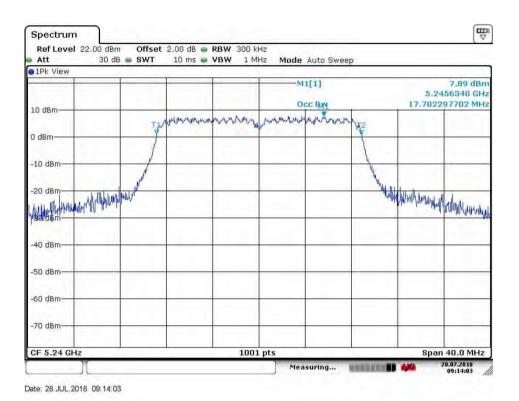
#### 11AC20\_48 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🕳 SWT 10 ms a VBW Att 1 MHz Mode Auto Sweep 1Pk View M1[1] 8.00 dBm 5.2331270 GHz \_\_ndB 10 dBm 26,00 dB my who were nothing though 21.179000000 MHz O factor 247.1 O dam -10 dBm The standard was a second de of the property of the party -40 dBm -50 dBm -70 dBm-CF 5.24 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 5.233127 GHz 5.229451 GHz 21.179 MHz 8.00 dBm 26.00 dB -18.59 dBm ndB 5,250629 GHz 17.48 dBm Q factor 28.07.2018 Measuring...

Date: 28.JUL.2018 04:53:18

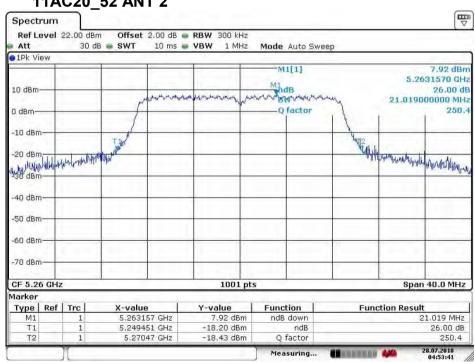


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### 5.4.2.4.21 11AC20\_52 ANT 2

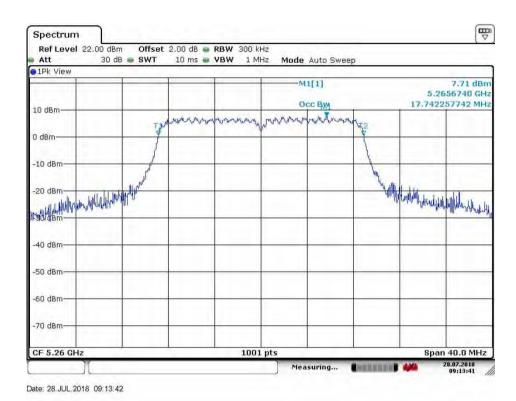


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5.4.2.4.22

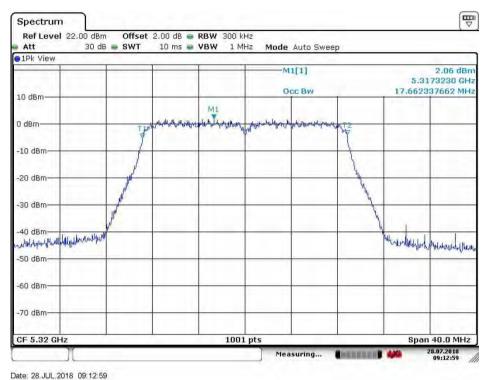
#### 11AC20\_64 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🖨 SWT Att 10 ms a VBW 1 MHz Mode Auto Sweep 1Pk View M1[1] 1.40 dBm 5.3129670 GHz 10 dBm ndB 26,00 dB 20.579000000 MHz BW 258.2 O dam 4QJapanunu -10 dBm -20 dBm -30 dBm--40 dam may rether delated in the thirty with hateler year what against of the form -50 dBm--70 dBm-CF 5.32 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 5.312967 GHz 1.40 dBm -25.27 dBm 20.579 MHz 5,30965 GHz 26.00 dB ndB 5.33023 GHz -24.32 dBm Q factor 258.2 28.07.2018 Measuring... CONTRACTOR NA

Date: 28.JUL.2018 04:54:39



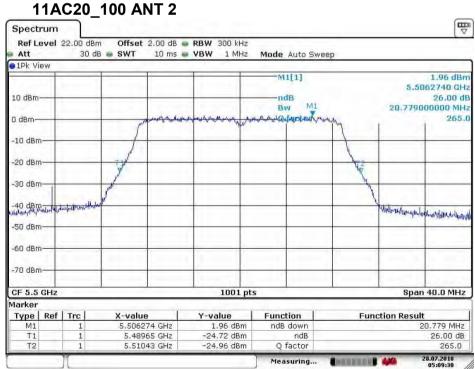
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### 5.4.2.4.23 11AC2

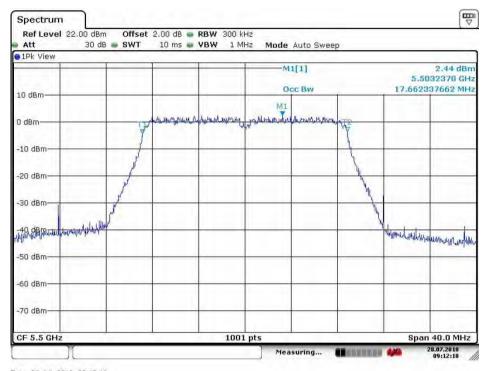


Date: 28.JUL.2018 05:09:31



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Date: 28.JUL.2018 09:12:19

### 5.4.2.4.24 1<sup>'</sup>

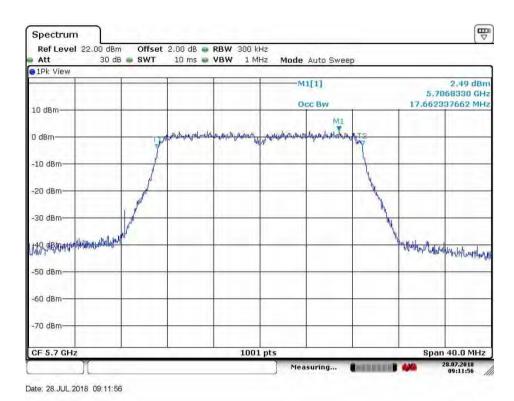
#### 11AC20 140 ANT 2 The state of the s Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🖨 SWT 10 ms a VBW Att 1 MHz Mode Auto Sweep 1Pk View M1[1] 2.38 dBm 5.7019180 GHz 10 dBm ndB 26,00 dB 20.739000000 MHz BW 274.9 O dam -10 dBm -20 dBm -30 dBm tal Quelle hort -50 dBm--70 dBm-CF 5.7 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 5.701918 GHz 2.38 dBm -23.80 dBm 20,739 MHz 5.68961 GHz 26.00 dB ndB -24.37 dBm Q factor 274.9 28.07.2018 Measuring...

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5.4.2.4.25

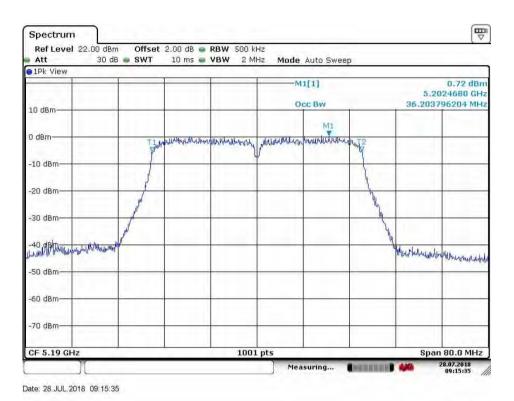
#### 11AC40\_38 ANT 2 Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 500 kHz 30 dB 🖨 SWT 10 ms a VBW Att 2 MHz Mode Auto Sweep 1Pk View M1[1] -0.12 dBm 5,1968730 GHz 10 dBm ndB 26,00 dB 40.919000000 MHz MBA MANAGER PROPERTY OF THE PARTY O 127.0 O dam marranementalism -10 dBm -20 dBm -30 dBm -40 dBMaluft moralment plane and the state of the s -50 dBm -70 dBm-CF 5.19 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value -0.12 dBm 5.196873 GHz 40.919 MHz 26.00 dB 5.16962 GHz -26,22 dBm ndB -26.36 dBm Q factor 127.0 28.07.2018 Measuring...

Date: 28.JUL.2018 05:23:25

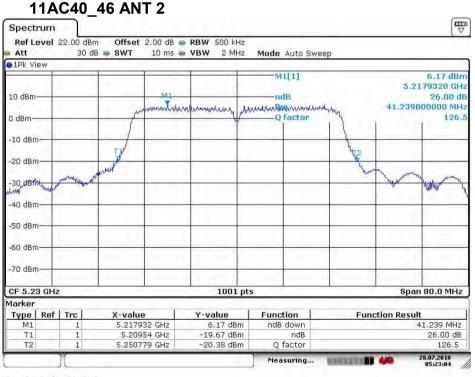


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### 5.4.2.4.26 11

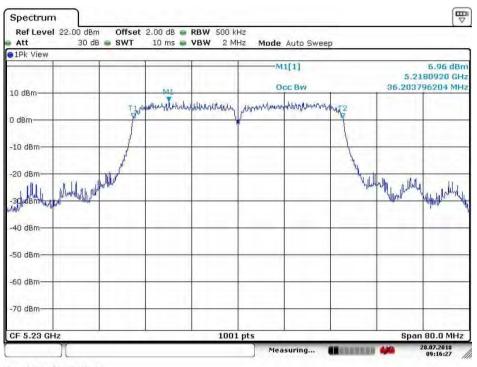


Date: 28.JUL.2018 05:23:04



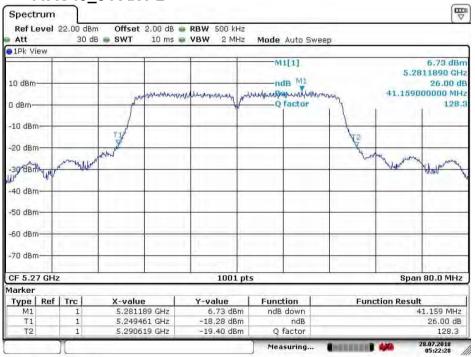
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### 5.4.2.4.27 11AC40 54 ANT 2

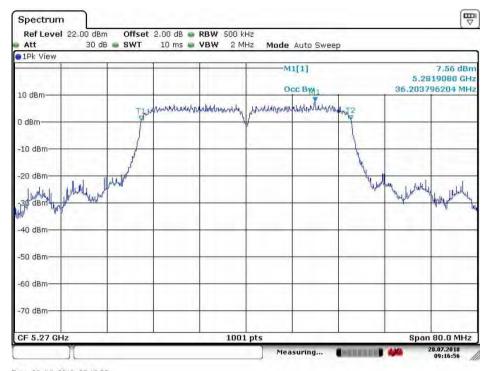


Date: 28.JUL.2018 05:22:29



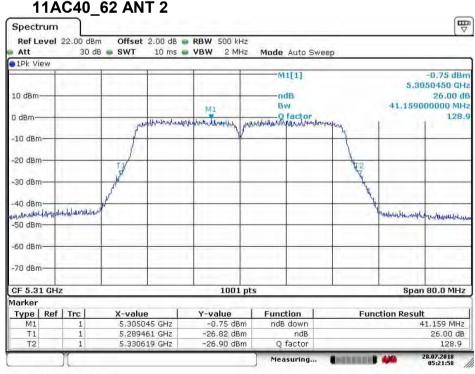
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Date: 28.JUL.2018 09:16:56

### 5.4.2.4.28 11AC

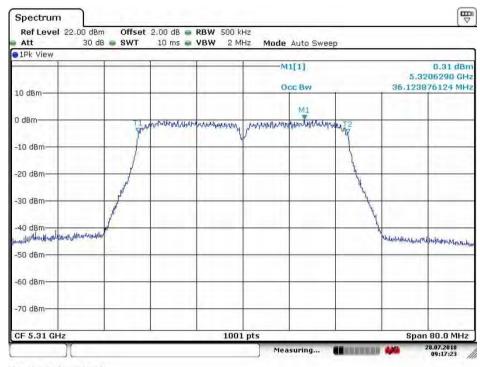


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Date: 28.JUL.2018 09:17:23

### 5.4.2.4.29

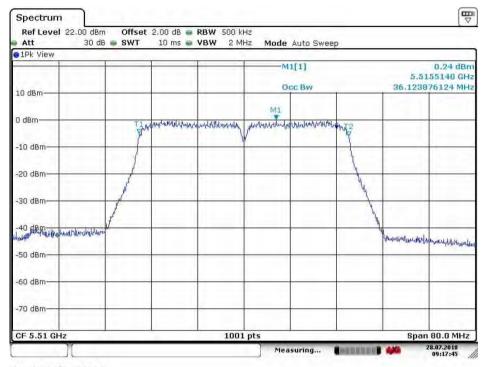
#### 11AC40\_102 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB RBW 500 kHz 30 dB 🖨 SWT 10 ms a VBW Att 2 MHz Mode Auto Sweep 1Pk View M1[1] 0.38 dBm 5.5194310 GHz 10 dBm ndB 26,00 dB 41.159000000 MHz BWAT when the contract of the war war and when the war war and the contract of the 134.1 O dam -10 dBm -20 dBm -30 dBm-40 damentularing of indianal patrolic and the aller hay recent -50 dBm -70 dBm-CF 5.51 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 0.38 dBm 5.519431 GHz 41.159 MHz 5.48954 GHz 26.00 dB -26.14 dBm ndB -25.13 dBm Q factor 134.1 28.07,2018 Measuring...

Date: 28.JUL.2018 05:21:25



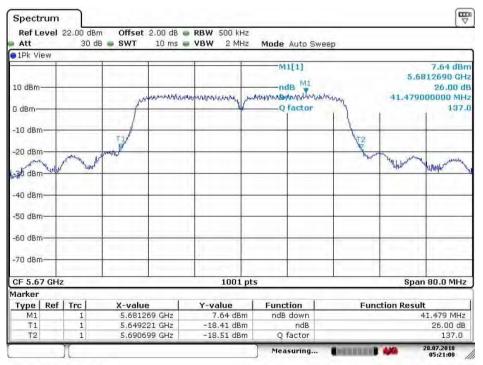
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Date: 28.JUL.2018 09:17:45

### 5.4.2.4.30 11AC40\_134 ANT 2



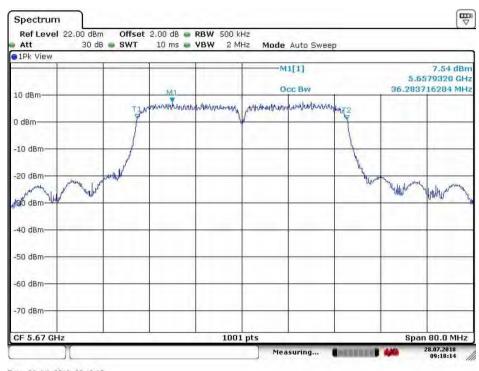
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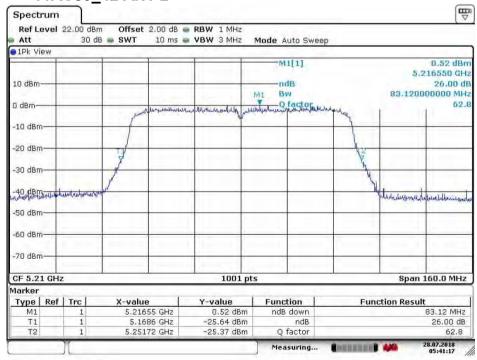
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Date: 28.JUL.2018 09:18:15

### 5.4.2.4.31 11AC80\_42 ANT 2

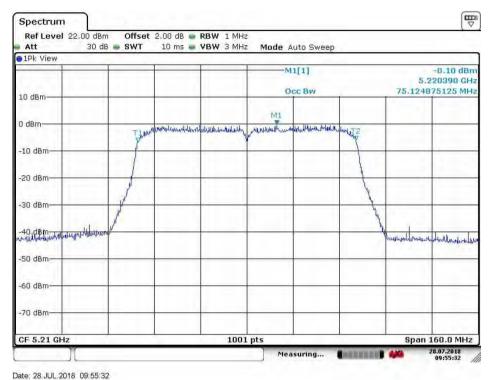


Date: 28.JUL.2018 05:41:18



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Date: 28.JUL.2018 09.55.32

### 5.4.2.4.32

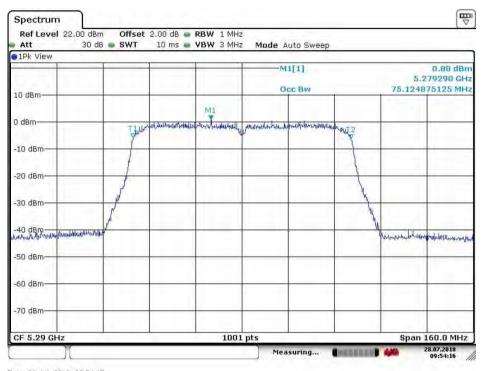
#### 11AC80\_58 ANT 2 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 1 MHz 30 dB 🕳 SWT 10 ms a VBW 3 MHz Att Mode Auto Sweep 1Pk View M1[1] 0.61 dBm 5.293840 GHz 10 dBm ndB 26,00 dB 82.960000000 MHz BW O dam william Quartagain 63.8 -10 dBm -20 dBm -30 dBm-49 dBm - Warupablh -50 dBm--70 dBm-CF 5.29 GHz 1001 pts Span 160.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 29384 GHz 0.61 dBm -25.56 dBm 82.96 MHz 26.00 dB 5,2486 GHz ndB 5.33156 GHz -24.93 dBm Q factor 63.8 Measuring... CERTAINER 440

Date: 28.JUL.2018 05:41:49



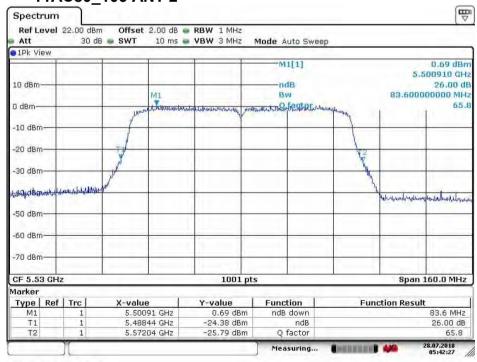
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Date: 28.JUL.2018 09:54:17

### 5.4.2.4.33 11AC80\_106 ANT 2

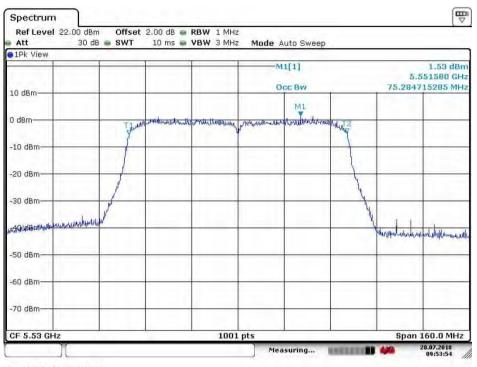


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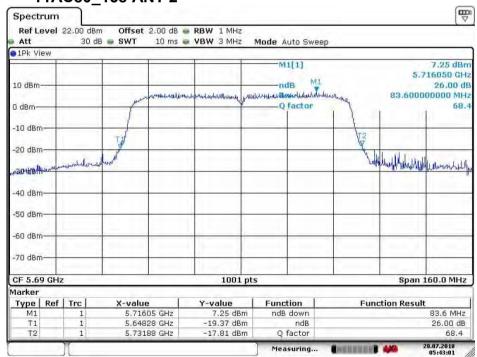
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Date: 28.JUL.2018 09:53:54

### 5.4.2.4.34 11AC80 138 ANT 2

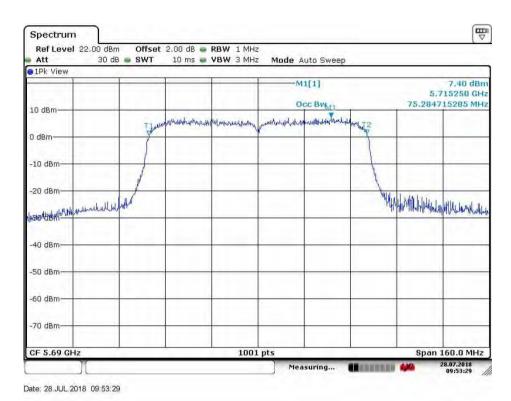


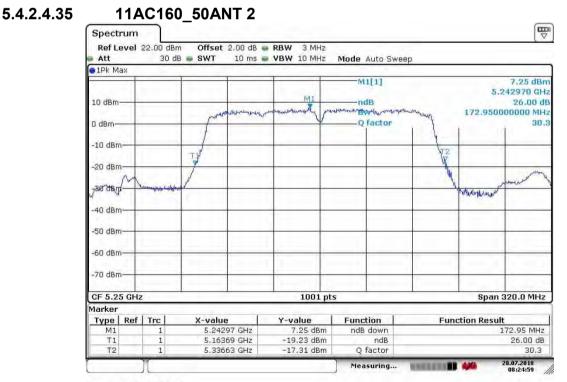
Date: 28.JUL.2018 05:43:01



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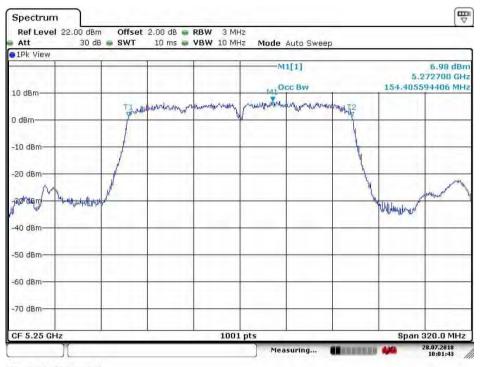


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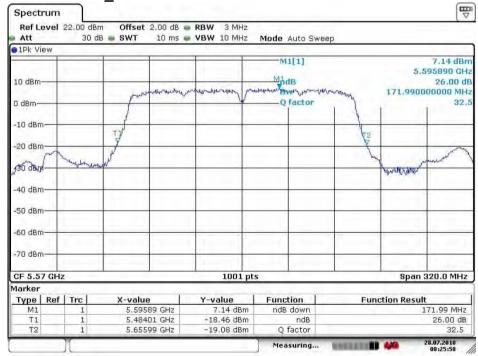
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Date: 28.JUL.2018 10:01:44

### 5.4.2.4.36 11AC160\_114 ANT 2

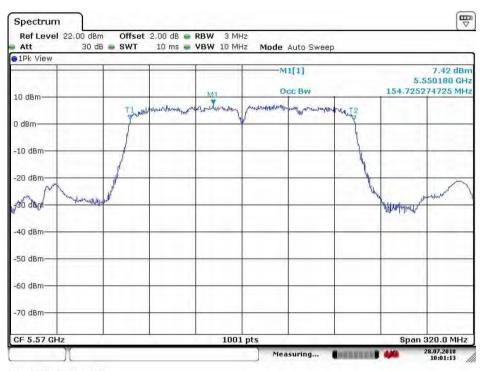


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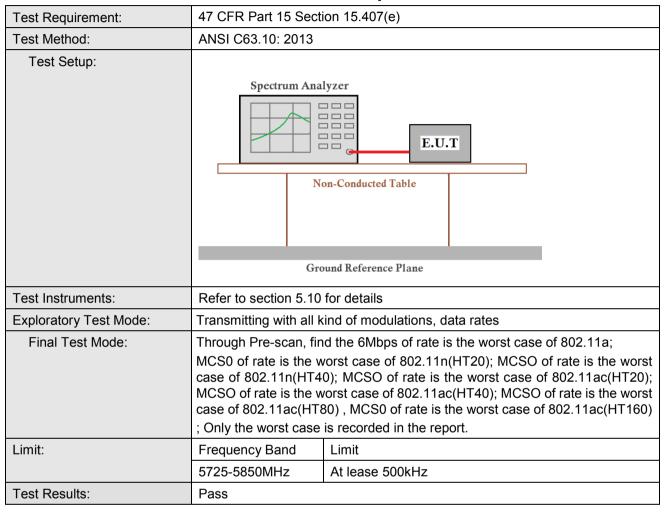
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### 5.5 6dB Emission Bandwidth & 99% Occupied Bandwidth





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Test Mode	Test Cha nnel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
11A20_SISO	149	5745	ANT 1	16.38	16.82	PASS
	157	5785	ANT 1	16.38	16.82	PASS
	165	5825	ANT 1	16.34	16.82	PASS
	149	5745	ANT 1	17.18	17.74	PASS
11N20_SISO	157	5785	ANT 1	17.30	17.74	PASS
_	165	5825	ANT 1	17.14	17.74	PASS
	151	5755	ANT 1	35.88	36.28	PASS
11N40_SISO	159	5795	ANT 1	35.41	36.20	PASS
11AC20_SISO	149	5745	ANT 1	17.34	17.74	PASS
	157	5785	ANT 1	17.34	17.74	PASS
	165	5825	ANT 1	17.22	17.74	PASS
11AC40_SISO	151	5755	ANT 1	35.80	36.28	PASS
	159	5795	ANT 1	35.56	36.28	PASS
11AC80_SISO	155	5775	ANT 1	75.28	75.12	PASS

Test Mode	Test Cha nnel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
11A20_SISO	149	5745	ANT 2	16.38	16.78	PASS
	157	5785	ANT 2	16.42	16.78	PASS
	165	5825	ANT 2	16.34	16.82	PASS
11N20_SISO	149	5745	ANT 2	17.10	17.78	PASS
	157	5785	ANT 2	17.30	17.74	PASS
	165	5825	ANT 2	17.06	17.74	PASS
	151	5755	ANT 2	36.36	36.28	PASS
11N40_SISO	159	5795	ANT 2	36.64	36.28	PASS
11AC20_SISO	149	5745	ANT 2	17.30	17.78	PASS
	157	5785	ANT 2	17.22	17.74	PASS
	165	5825	ANT 2	17.43	17.74	PASS
11AC40_SISO	151	5755	ANT 2	35.88	36.28	PASS
	159	5795	ANT 2	35.72	36.28	PASS
11AC80_SISO	155	5775	ANT 2	75.28	75.12	PASS

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Test Mode	Test Cha nnel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	149	5745	ANT 1	16.38	16.82	PASS
11A20_CDD	165	5825	ANT 1	16.34	16.82	PASS
	149	5745	ANT 1	17.14	17.74	PASS
11N20_MIMO	165	5825	ANT 1	16.94	17.74	PASS
	151	5755	ANT 1	35.71	36.28	PASS
11N40_MIMO	159	5795	ANT 1	35.59	36.28	PASS
	149	5745	ANT 1	17.34	17.78	PASS
11AC20_MIMO	165	5825	ANT 1	16.74	17.74	PASS
	151	5745	ANT 1	35.72	36.36	PASS
11AC40_MIMO	159	5795	ANT 1	35.52	36.36	PASS
11AC80_MIMO	155	5775	ANT 1	74.01	75.28	PASS

Test Mode	Test Cha nnel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	149	5745	ANT 2	16.38	16.66	PASS
11A20_CDD	165	5825	ANT 2	16.38	16.62	PASS
	149	5745	ANT 2	17.34	17.62	PASS
11N20_MIMO	165	5825	ANT 2	17.26	17.66	PASS
11N40_MIMO	151	5755	ANT 2	35.80	36.12	PASS
	159	5795	ANT 2	35.84	36.12	PASS
	149	5745	ANT 2	17.18	17.66	PASS
11AC20_MIMO	165	5825	ANT 2	17.14	17.66	PASS
	151	5755	ANT 2	35.72	36.12	PASS
11AC40_MIMO	159	5795	ANT 2	35.52	36.12	PASS
11AC80_MIMO	155	5775	ANT 2	75.28	75.12	PASS

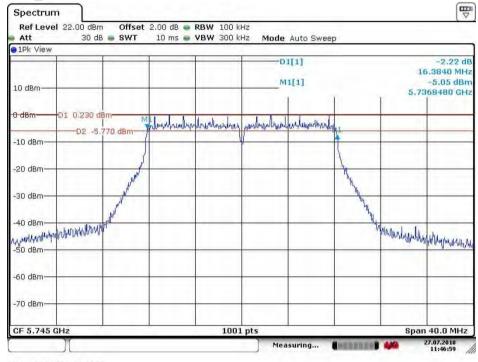


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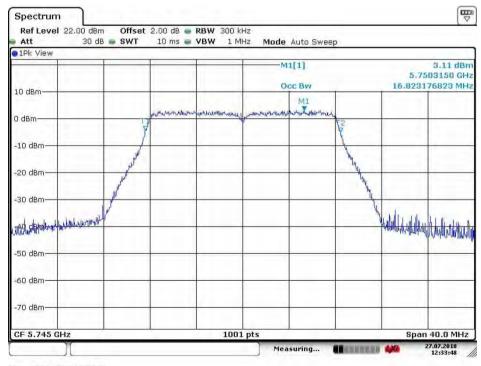
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# 5.5.1 Plots for 6dB Emission Bandwidth & 99% Occupied Bandwidth 5.5.1.1 SISO\_ANT 1

### 5.5.1.1.1 11A20 149 ANT 1



Date: 27.JUL.2018 11:46:59



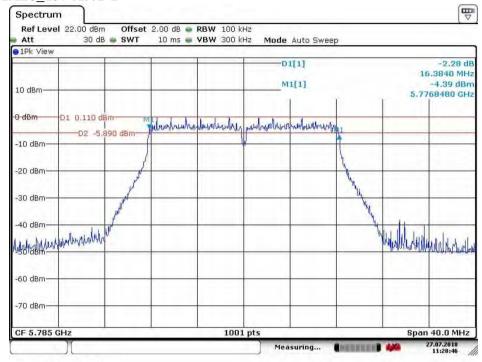
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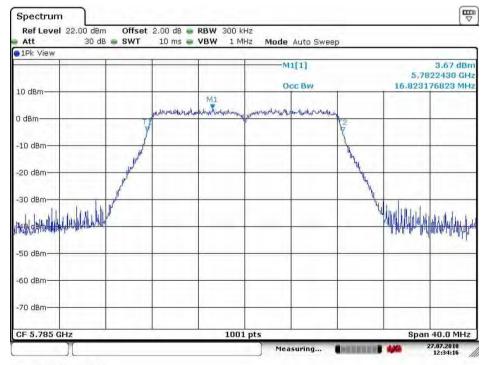
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### 5.5.1.1.2 11A20 157 ANT 1



Date: 27 JUL 2018 11:28:46



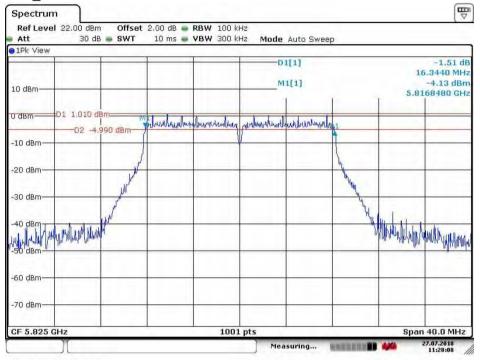
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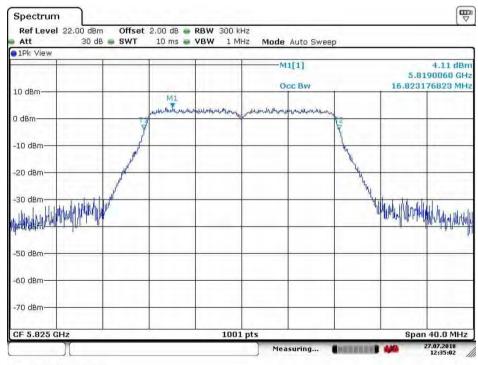
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### 5.5.1.1.3 11A20 165 ANT 1



Date: 27.JUL.2018 11:28:09



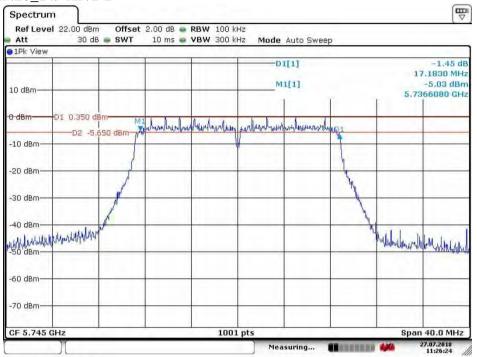
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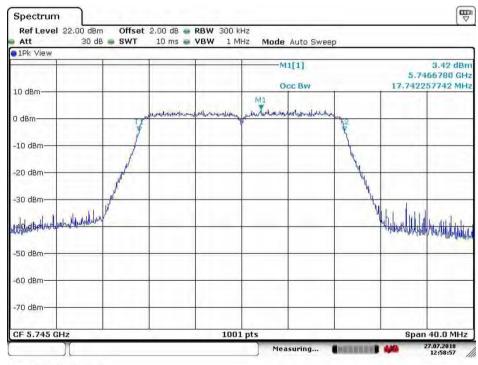
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### 5.5.1.1.4 11N20 149 ANT 1



Date: 27 JUL 2018 11:26:24



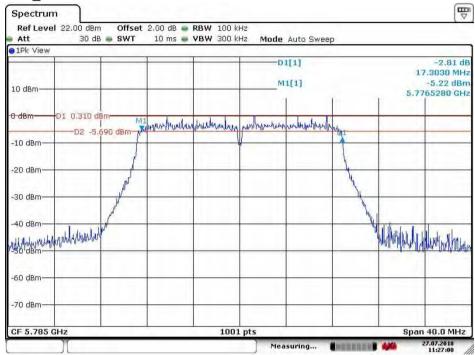
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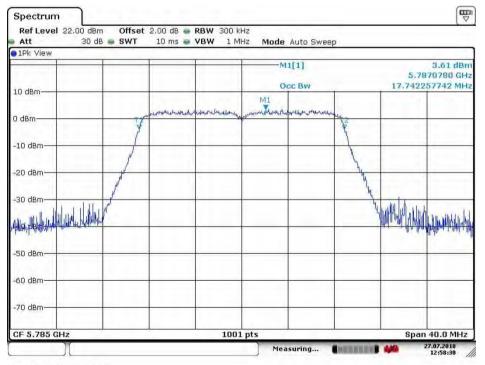
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### 5.5.1.1.5 11N20 157 ANT 1



Date: 27.JUL.2018 11:27:00



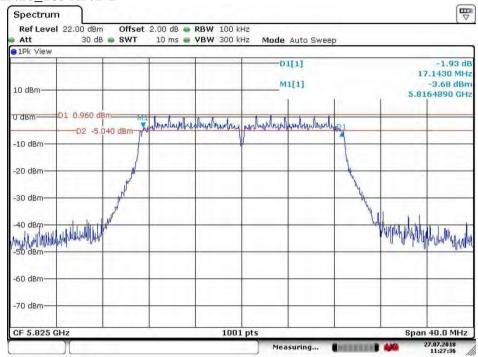
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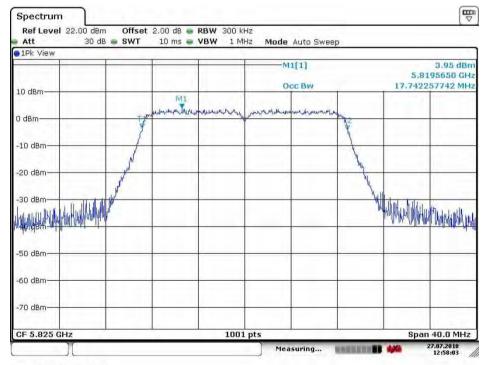
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### 5.5.1.1.6 11N20 165 ANT 1



Date: 27.JUL,2018 11:27:36



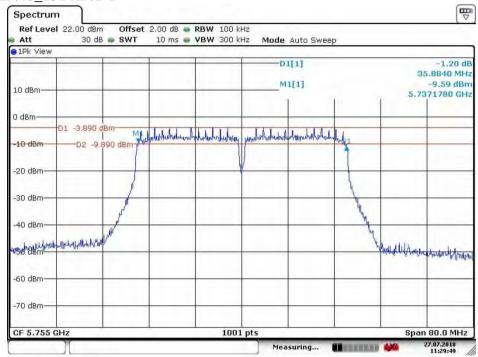
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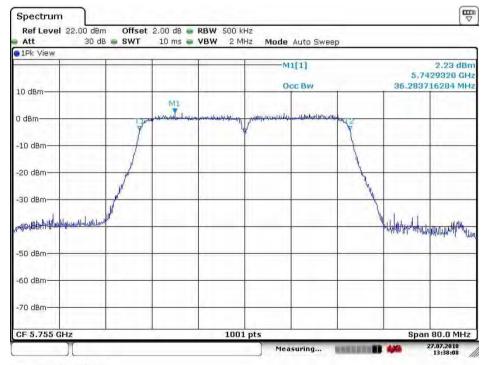
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### 5.5.1.1.7 11N40\_151 ANT 1



Date: 27 JUL 2018 11:29:49



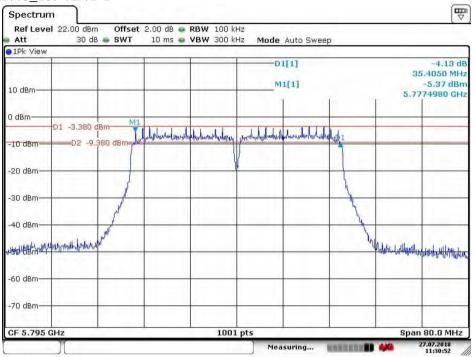
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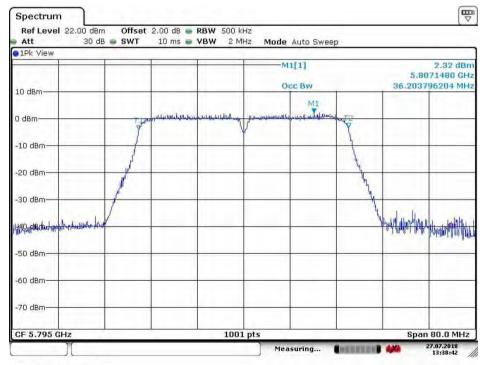
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### 5.5.1.1.8 11N40 159 ANT 1



Date: 27.JUL.2018 11:30:53



Date: 27.JUL.2018 13:38:43