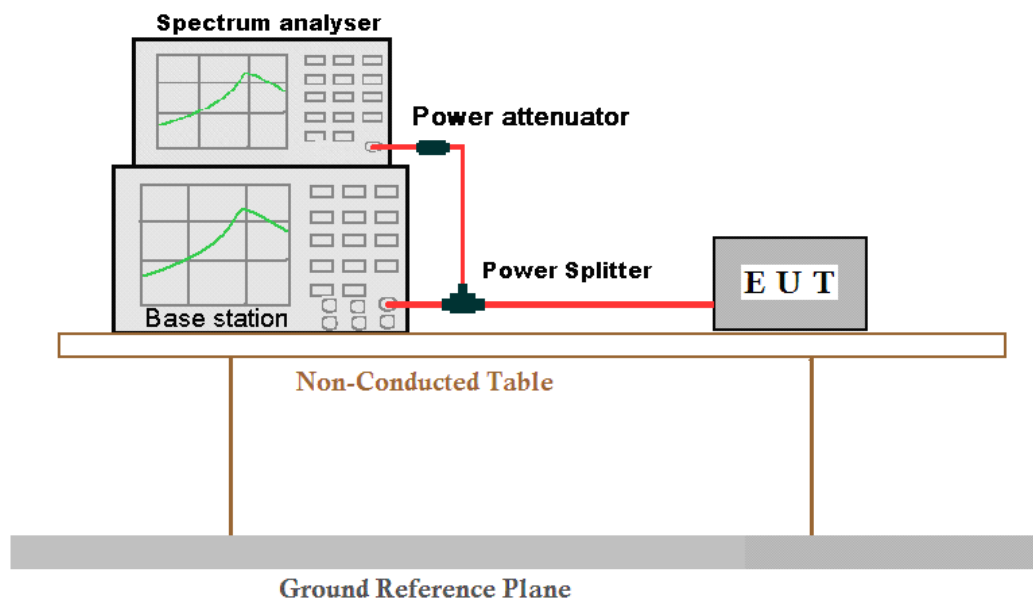


mental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

Test SET-UP



8.2. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW $\geq$ 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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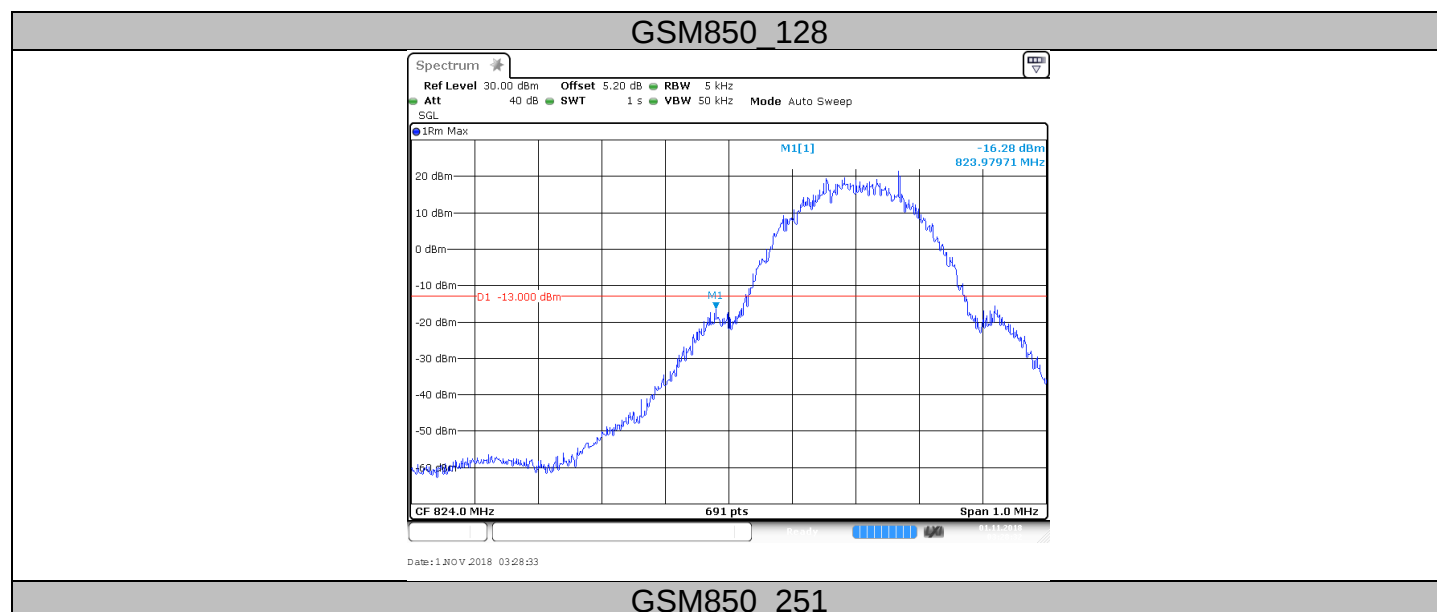
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8.3. Measurement Equipment Used

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/9/10	2019/9/10
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2017/12/4	2018/12/4
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2018/5/2	2019/5/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/3/13	2019/3/12

8.4. Measurement Result: GSM

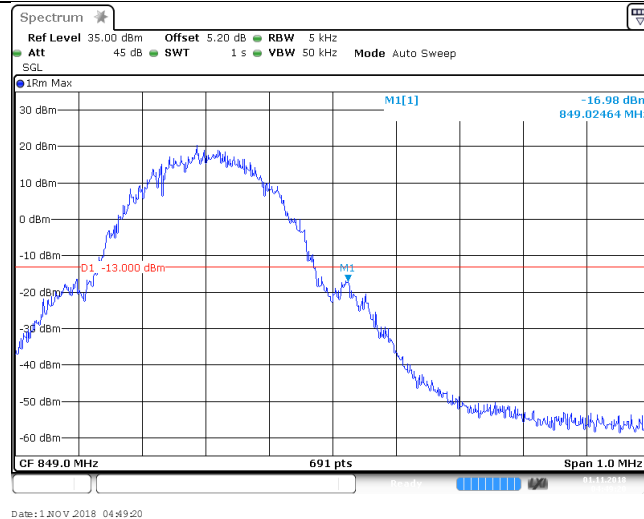
8.4.1. Plots



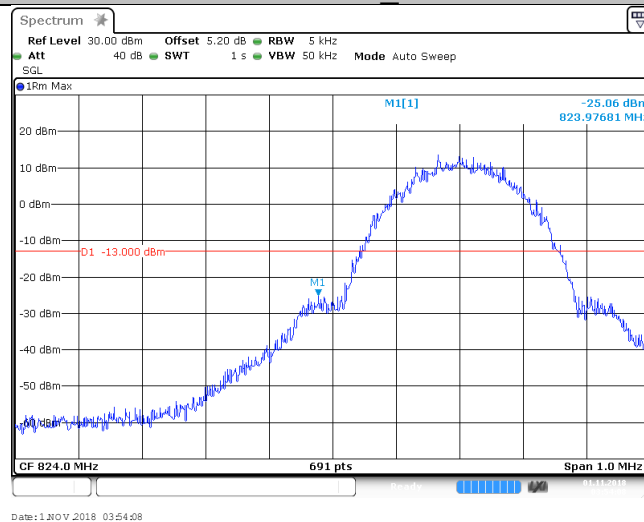
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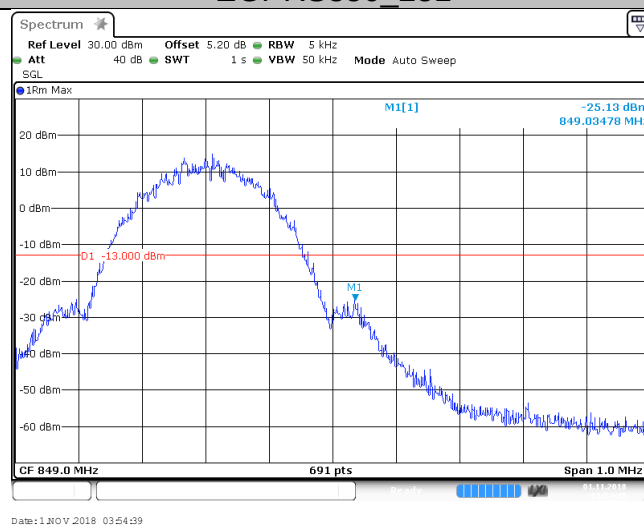
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EGPRS850 128



EGPRS850 251



GSM1900 512

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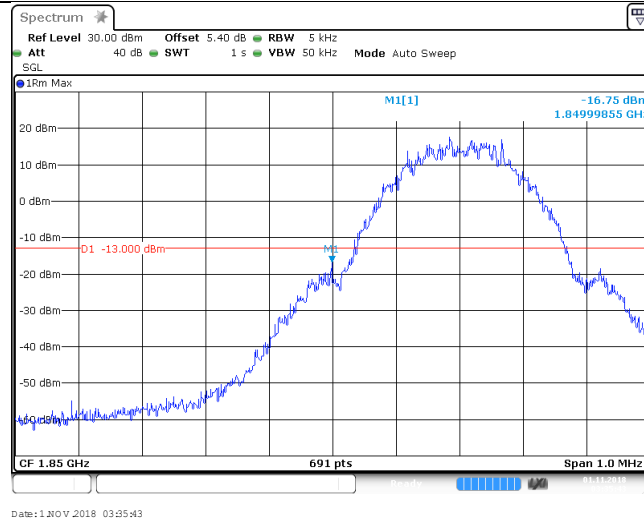
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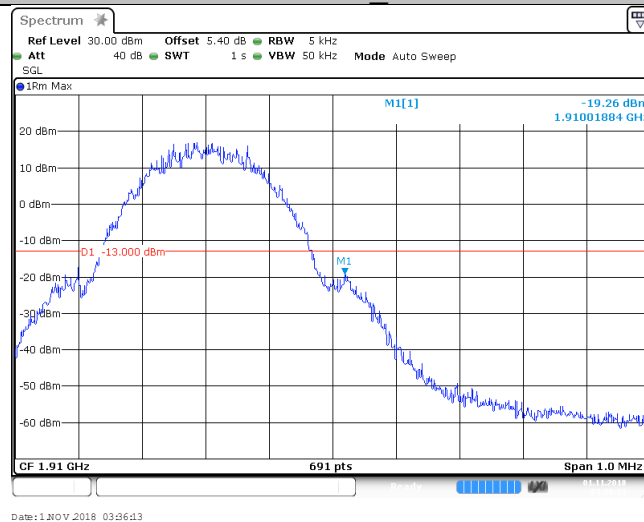
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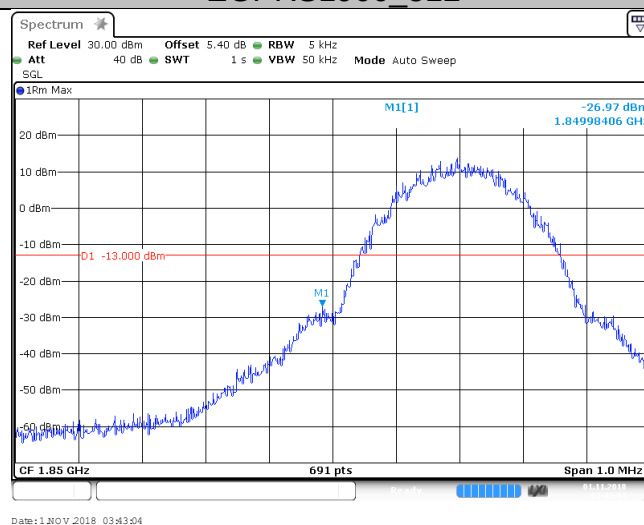
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GSM1900 810



EGPRS1900 512



EGPRS1900 810

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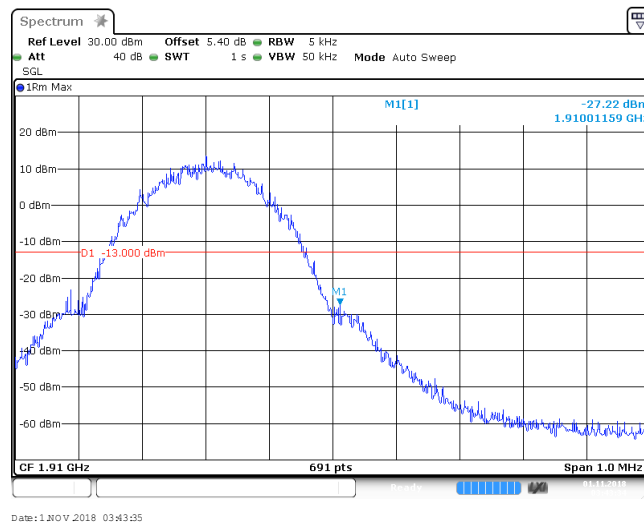
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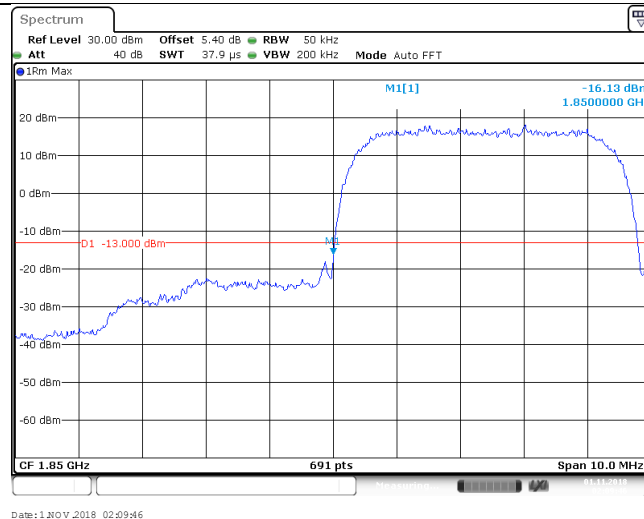
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8.5. Measurement Result: WCDMA

8.5.1. Plots

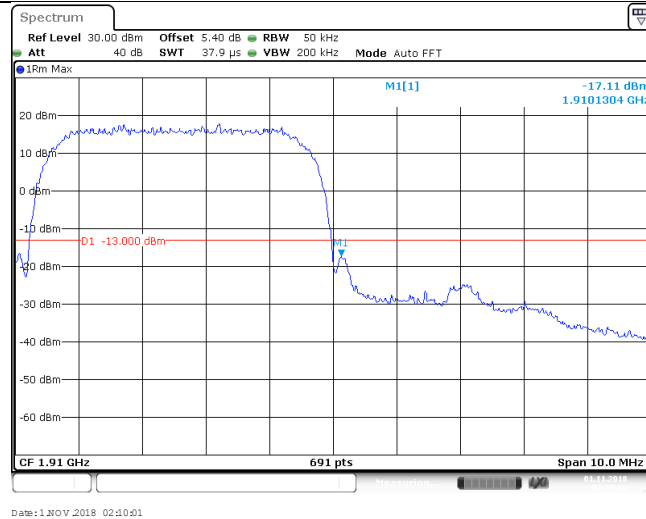


Band II_QPSK_9262

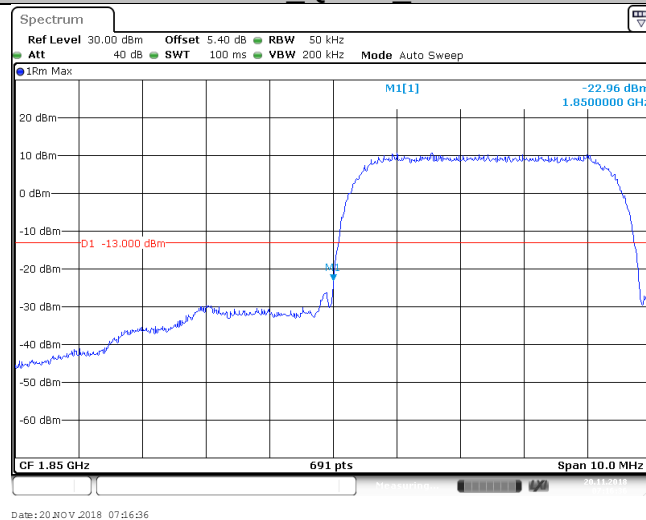
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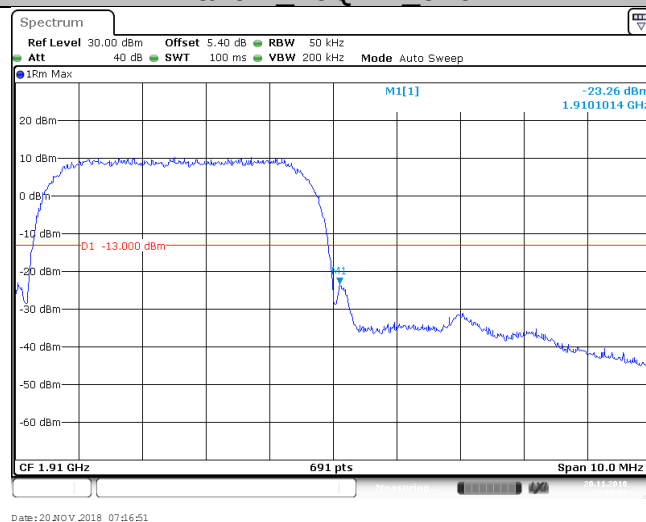
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Band II QPSK 9538



Band II 16QAM 9262

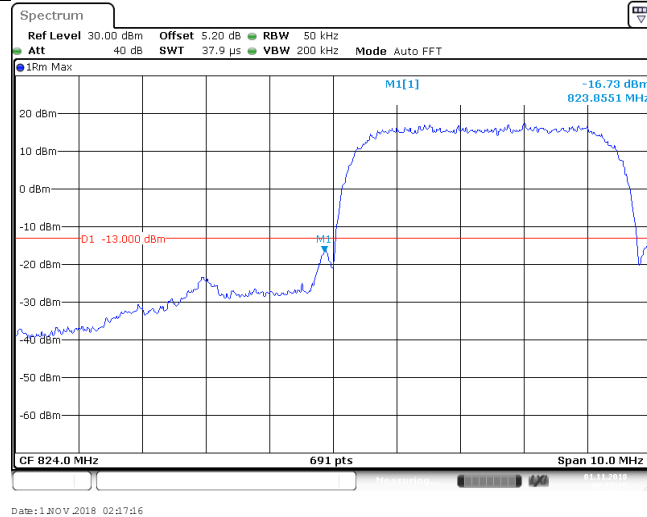


Band II 16QAM 9538

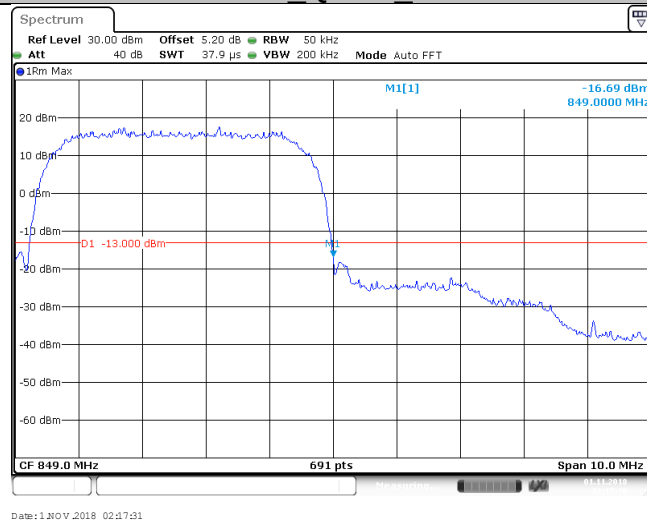
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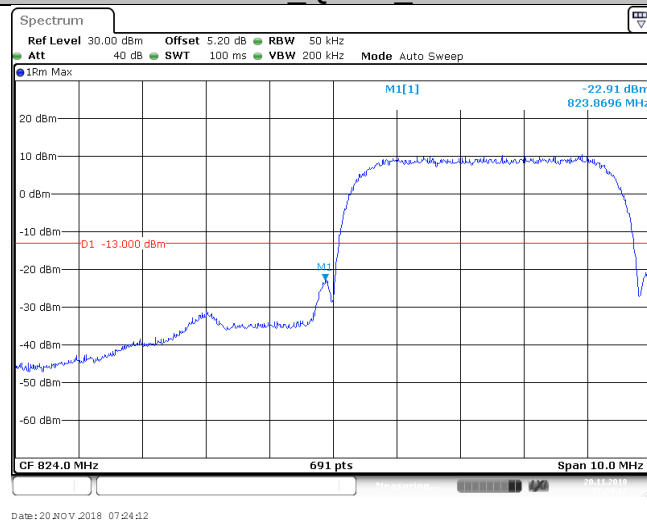
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Band V QPSK 4132



Band V QPSK 4233



Band V 16QAM 4132

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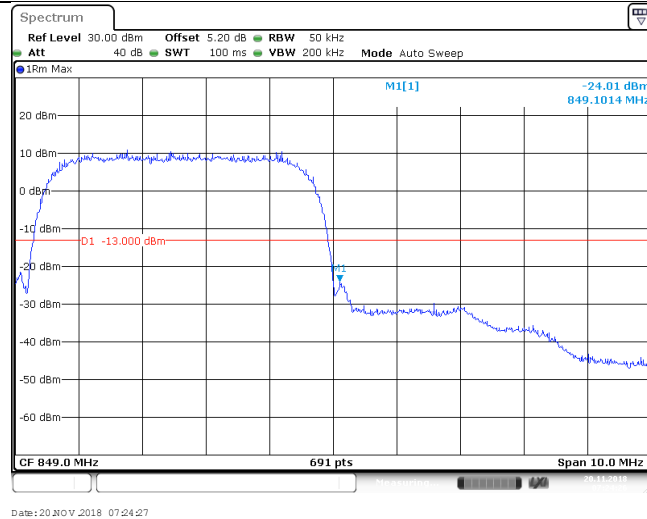
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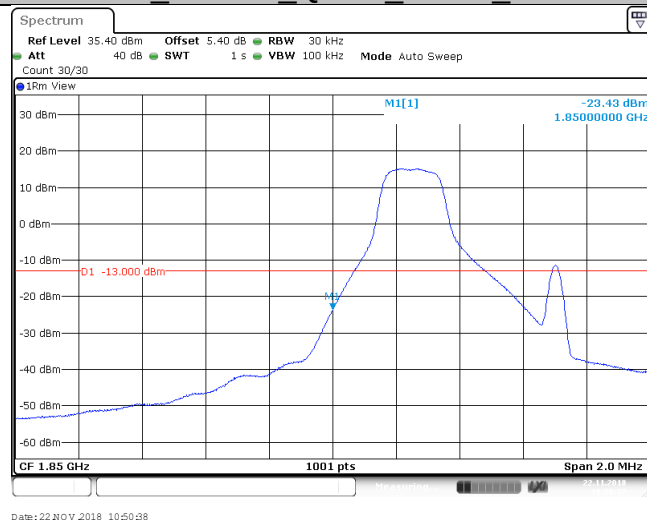


Band V_16QAM_4233

8.6. Measurement Result: LTE Band 2

8.6.1. Plots

Band2_1.4MHz_QPSK_18607_1RB#0

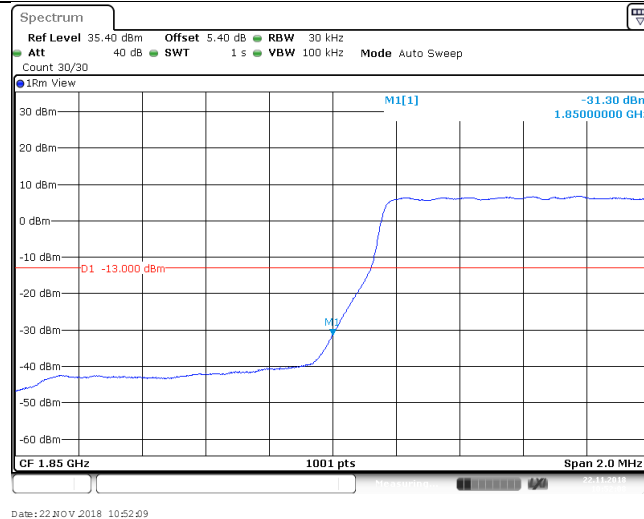


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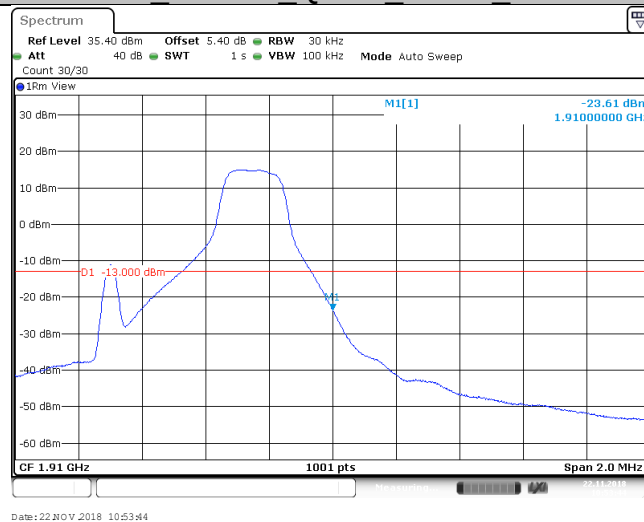
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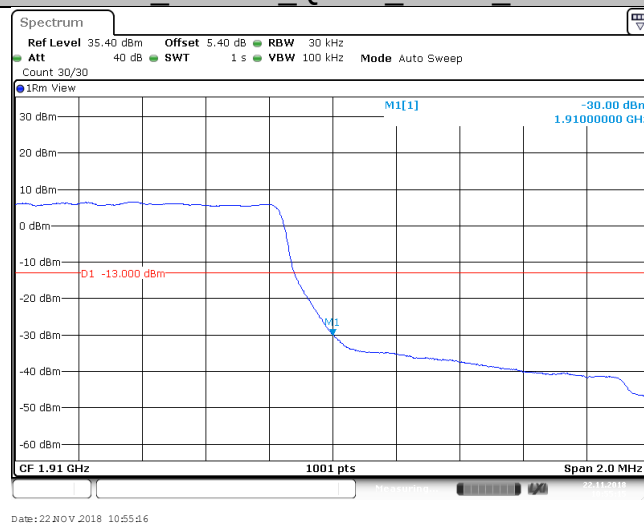
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Band2 1.4MHz QPSK 19193 1RB#5



Band2 1.4MHz QPSK 19193 6RB#0

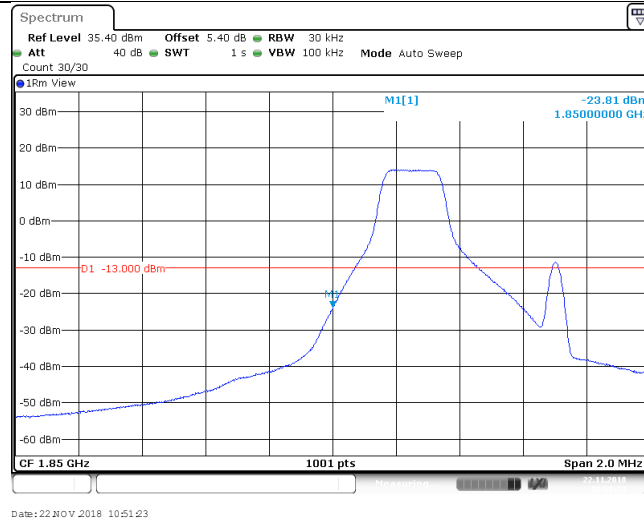


Band2 1.4MHz 16QAM 18607 1RB#0

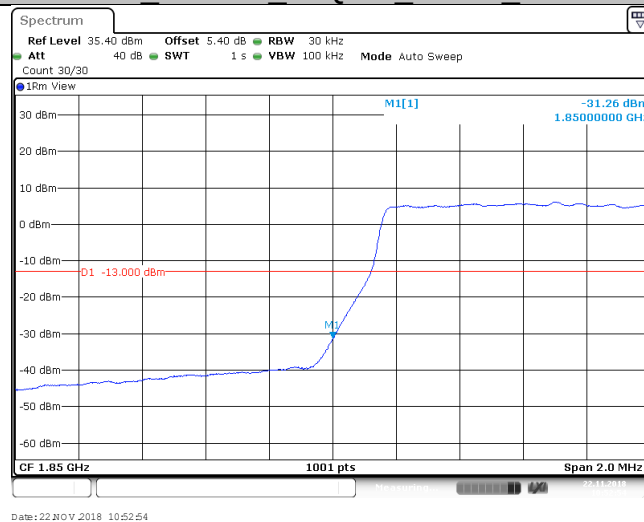
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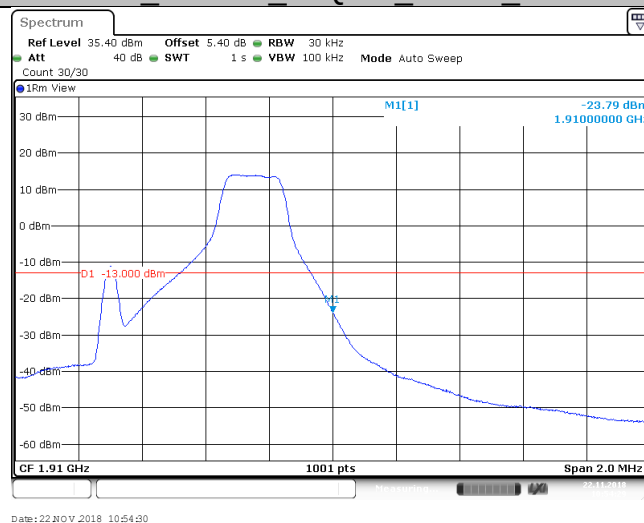
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Band2 1.4MHz 16QAM 18607 6RB#0



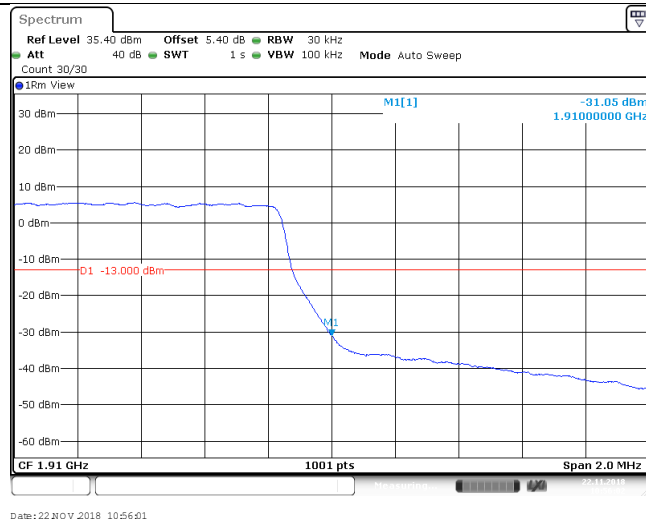
Band2 1.4MHz 16QAM 19193 1RB#5



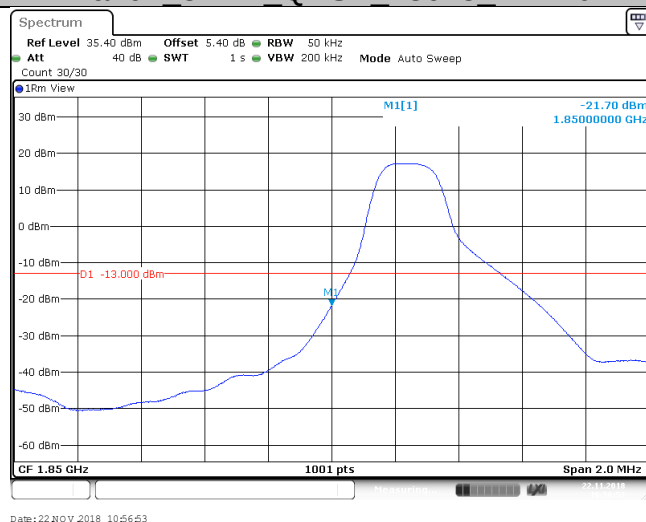
Band2 1.4MHz 16QAM 19193 6RB#0

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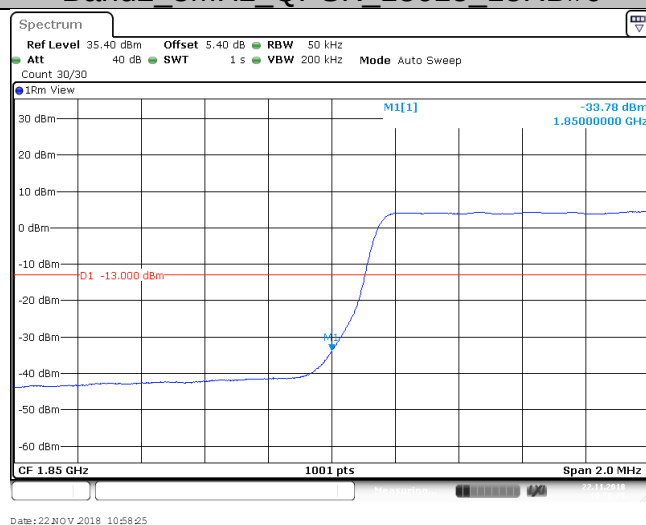
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Band2 3MHz QPSK 18615 1RB#0



Band2 3MHz QPSK 18615 15RB#0



Band2 3MHz QPSK 19185 1RB#14

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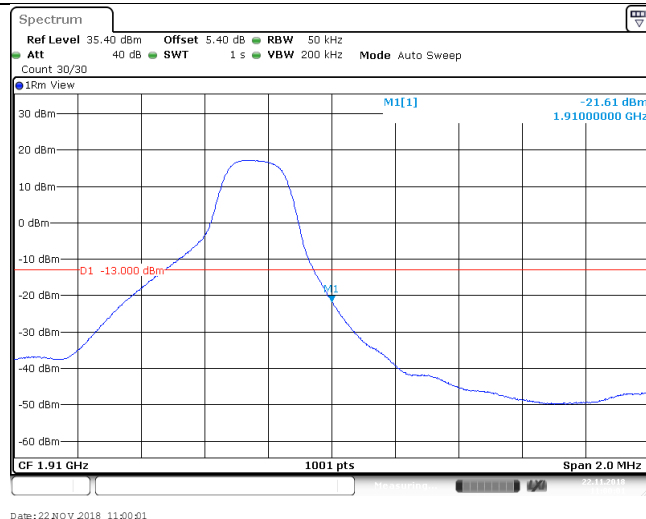
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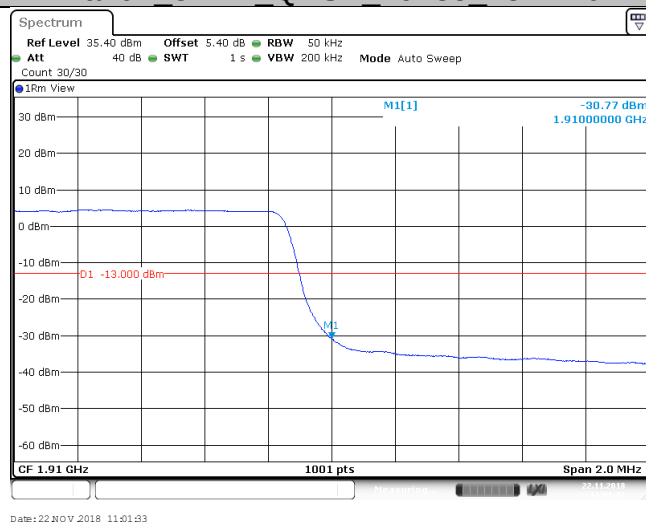
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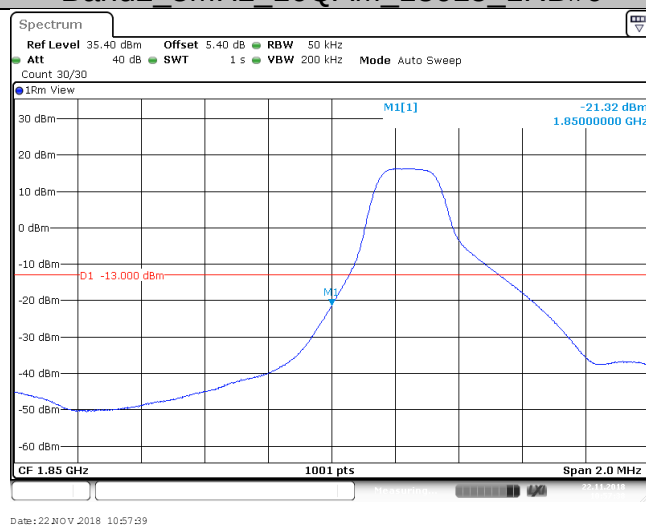
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Band2 3MHz QPSK 19185 15RB#0



Band2 3MHz 16QAM 18615 1RB#0



Band2 3MHz 16QAM 18615 15RB#0

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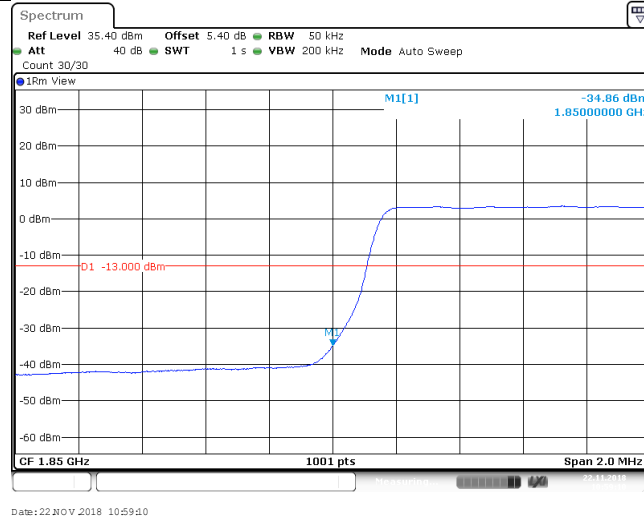
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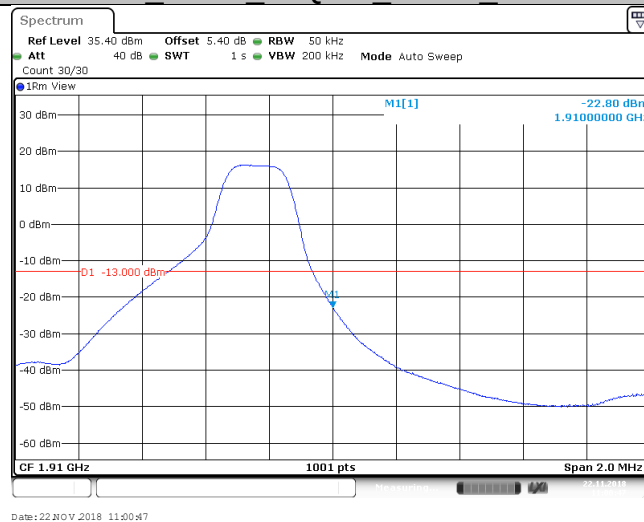
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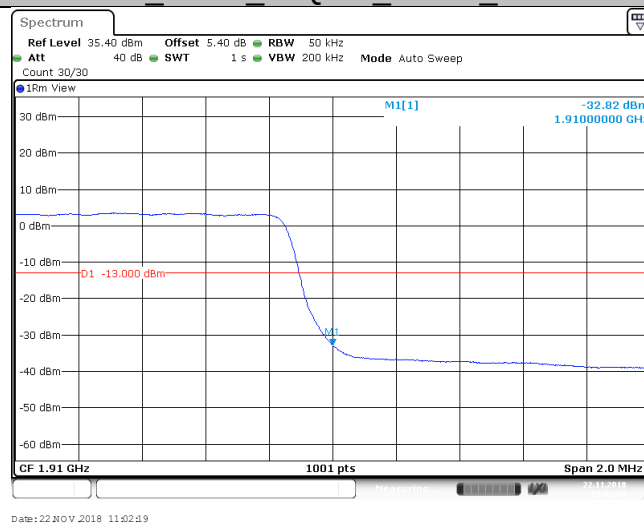
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Band2 3MHz 16QAM 19185 1RB#14



Band2 3MHz 16QAM 19185 15RB#0



Band2 5MHz QPSK 18625 1RB#0

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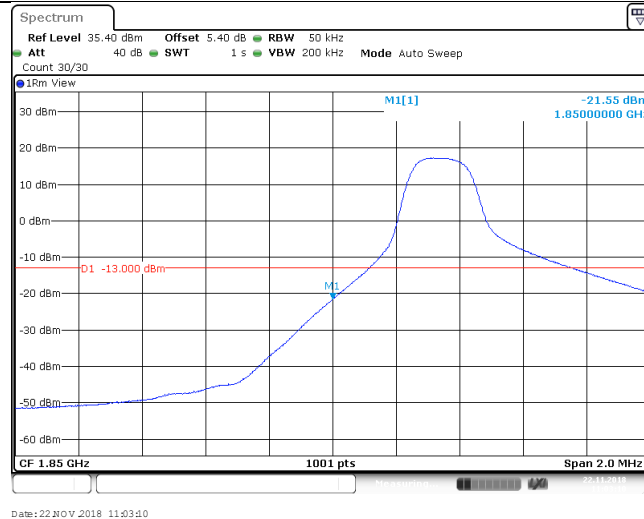
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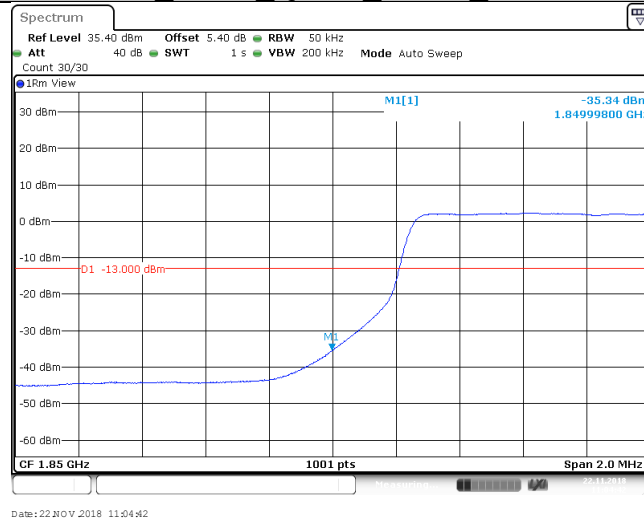
f +86 (0) 755 2671 0594

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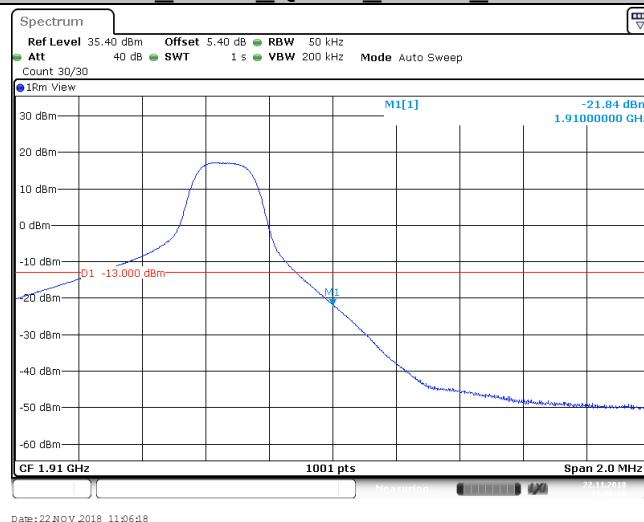
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Band2 5MHz QPSK 18625 25RB#0



Band2 5MHz QPSK 19175 1RB#24

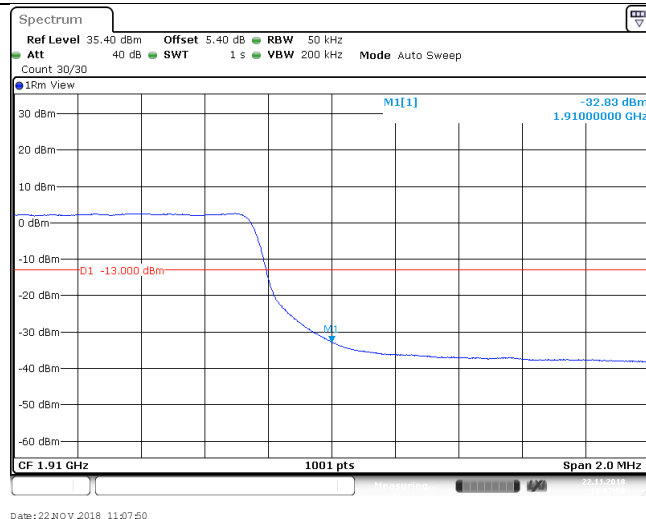


Band2 5MHz QPSK 19175 25RB#0

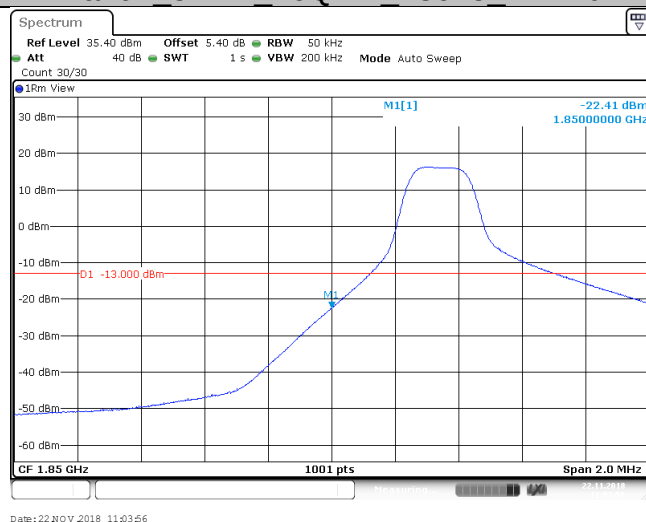
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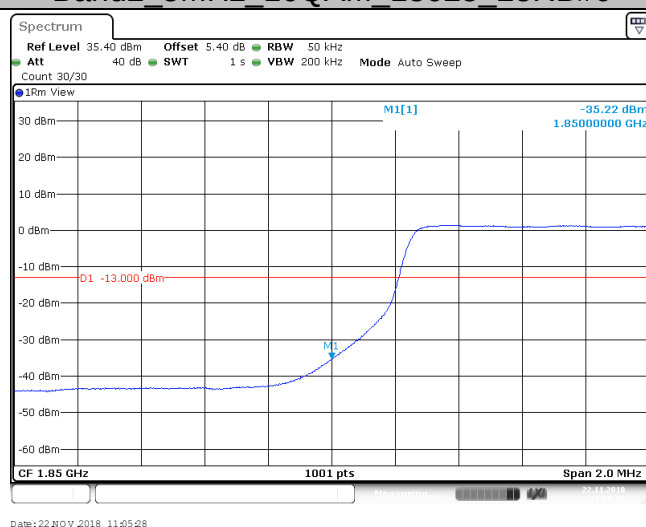
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Band2 5MHz 16QAM 18625 1RB#0



Band2 5MHz 16QAM 18625 25RB#0

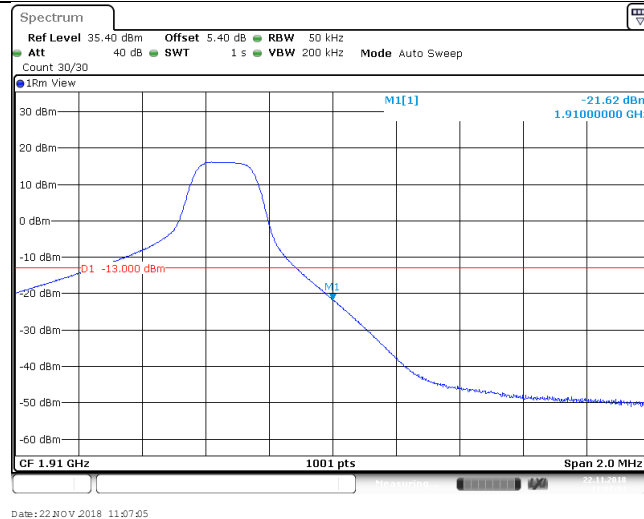
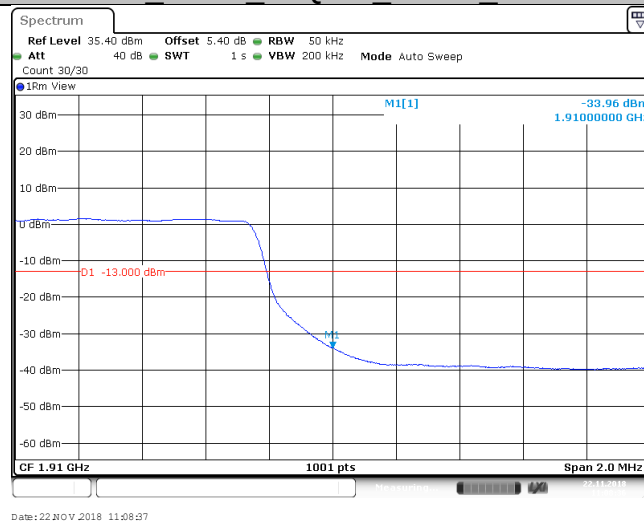
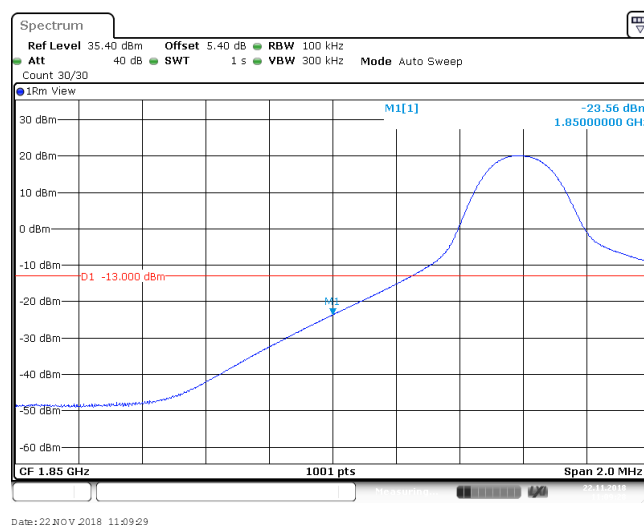


Band2 5MHz 16QAM 19175 1RB#24

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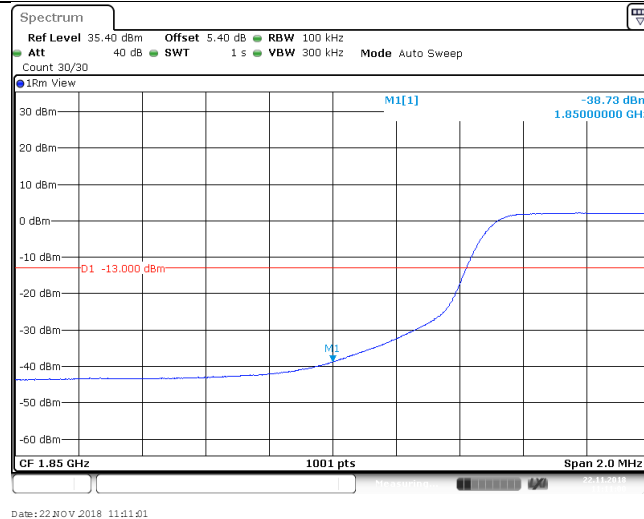
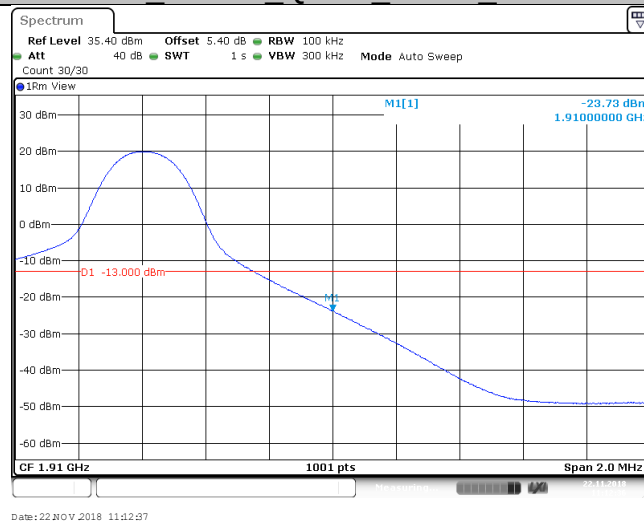
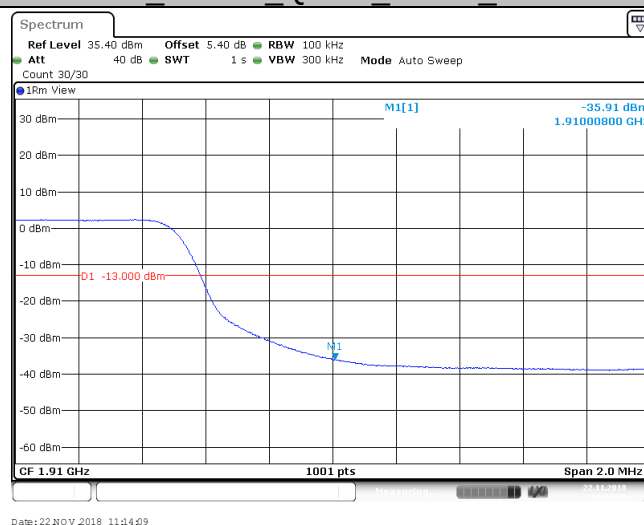
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**Band2 5MHz 16QAM 19175 25RB#0****Band2 10MHz QPSK 18650 1RB#0****Band2 10MHz QPSK 18650 50RB#0**

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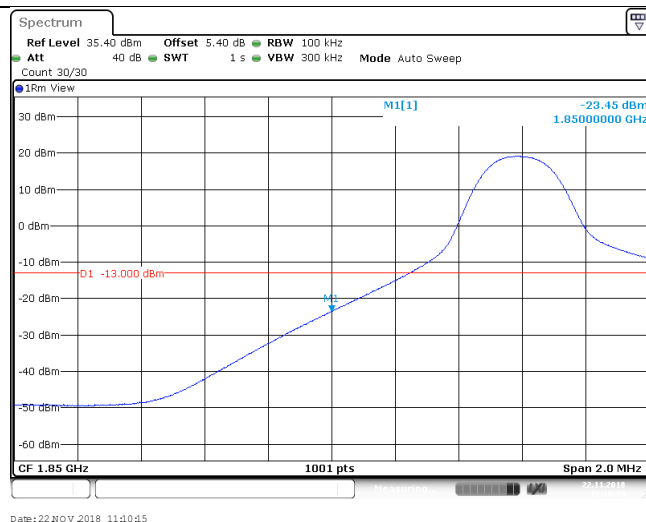
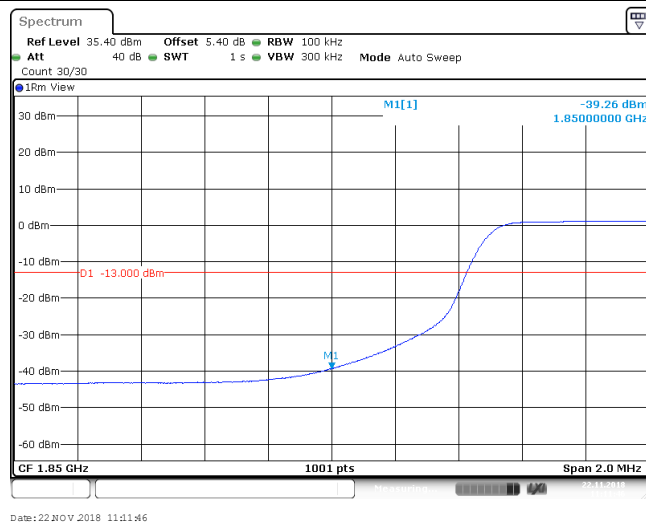
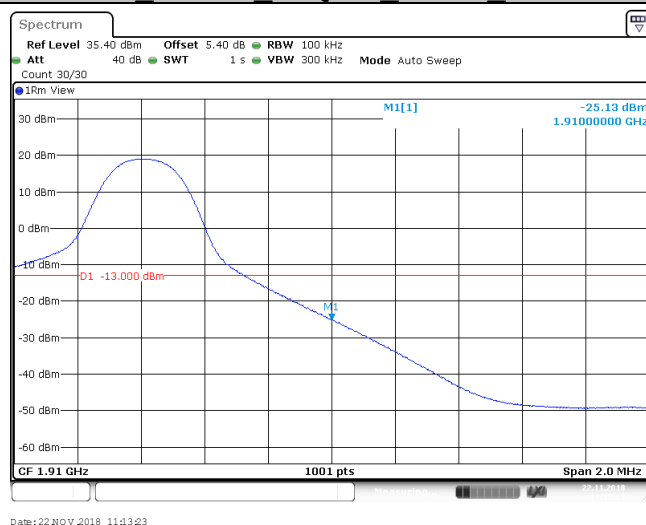
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**Band2 10MHz QPSK 19150 1RB#49****Band2 10MHz QPSK 19150 50RB#0****Band2 10MHz 16QAM 18650 1RB#0**

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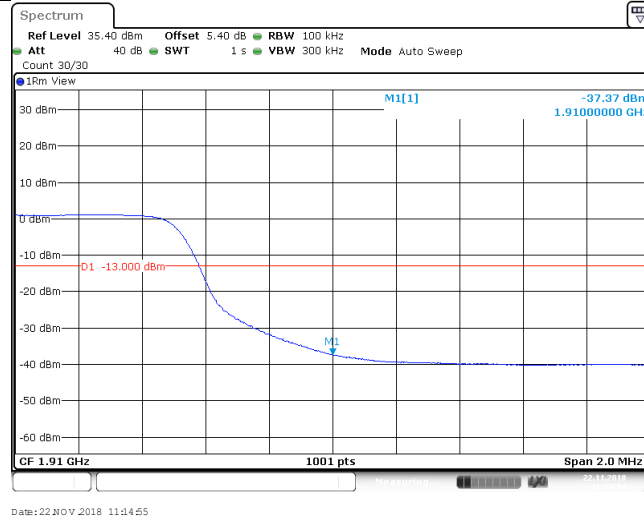
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**Band2_10MHz_16QAM_18650_50RB#0****Band2_10MHz_16QAM_19150_1RB#49****Band2_10MHz_16QAM_19150_50RB#0**

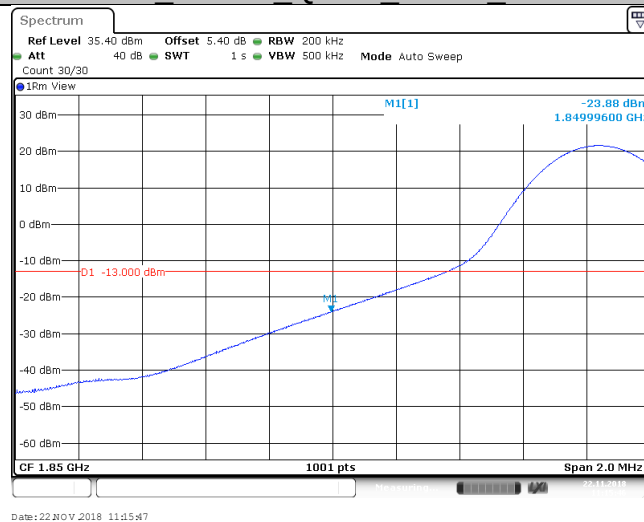
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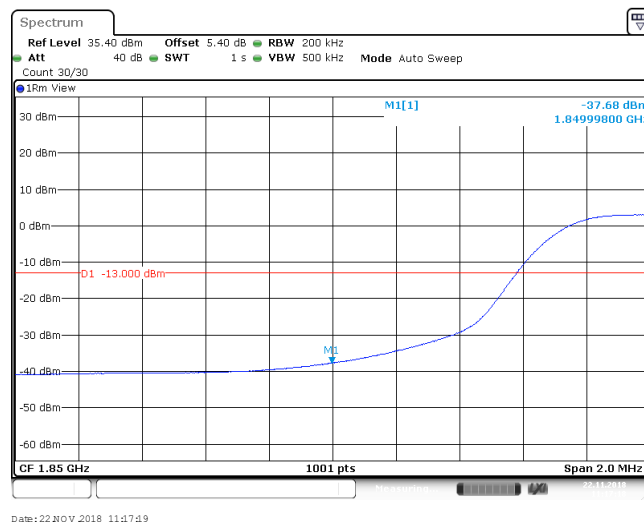
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Band2 15MHz QPSK 18675 1RB#0



Band2 15MHz QPSK 18675 75RB#0



Band2 15MHz QPSK 19125 1RB#74

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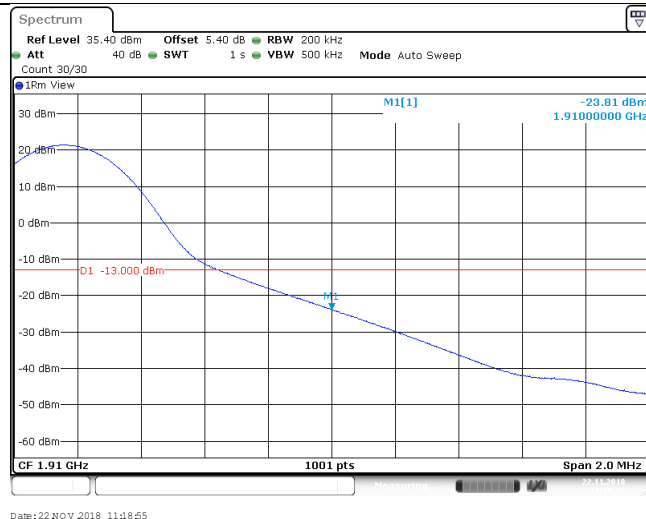
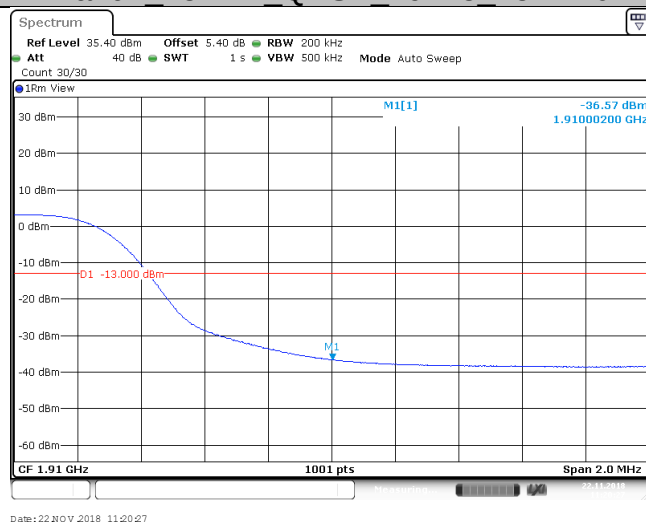
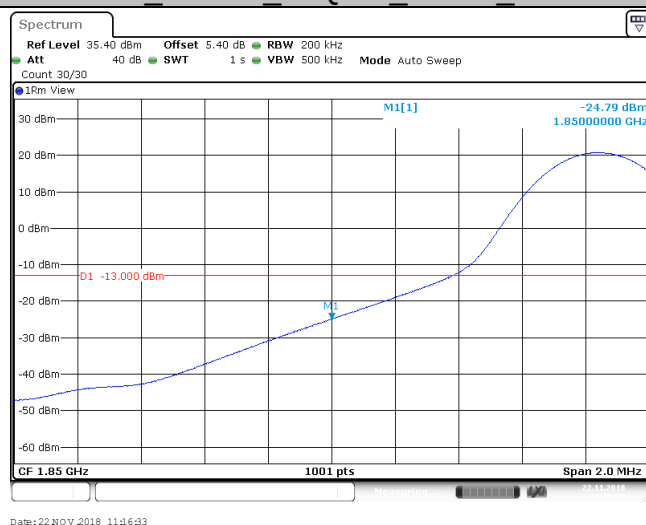
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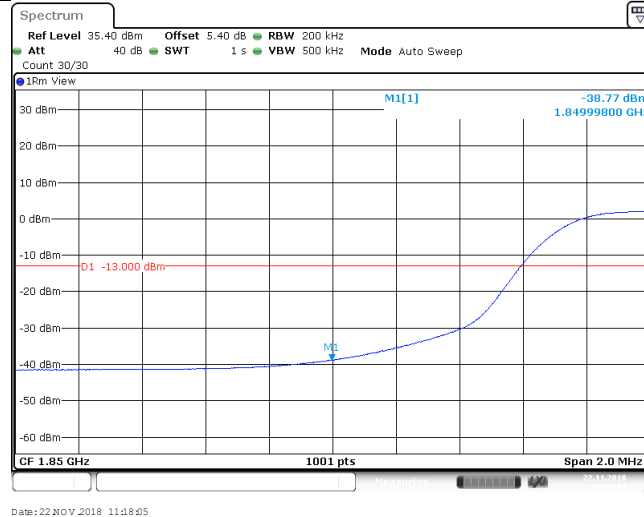
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**Band2 15MHz QPSK 19125 75RB#0****Band2 15MHz 16QAM 18675 1RB#0****Band2 15MHz 16QAM 18675 75RB#0**

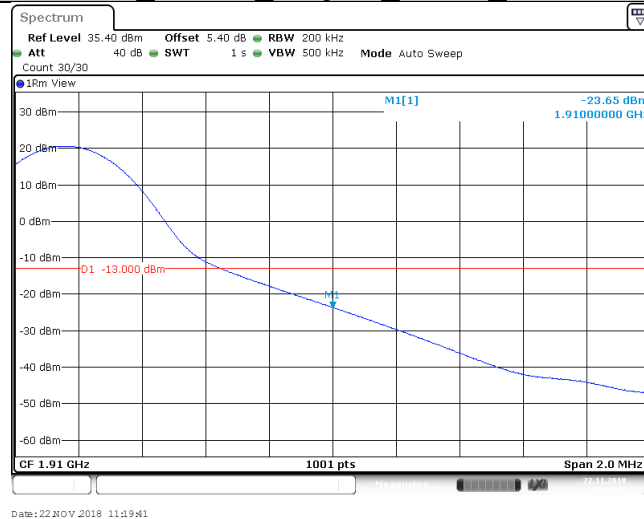
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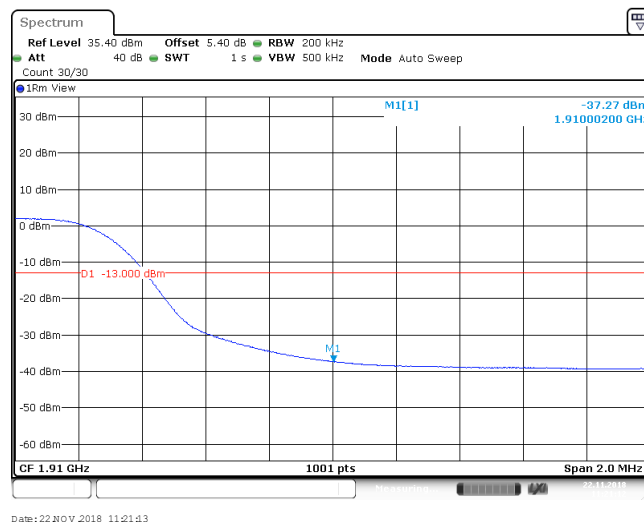
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Band2_15MHz_16QAM_19125_1RB#74



Band2_15MHz_16QAM_19125_75RB#0

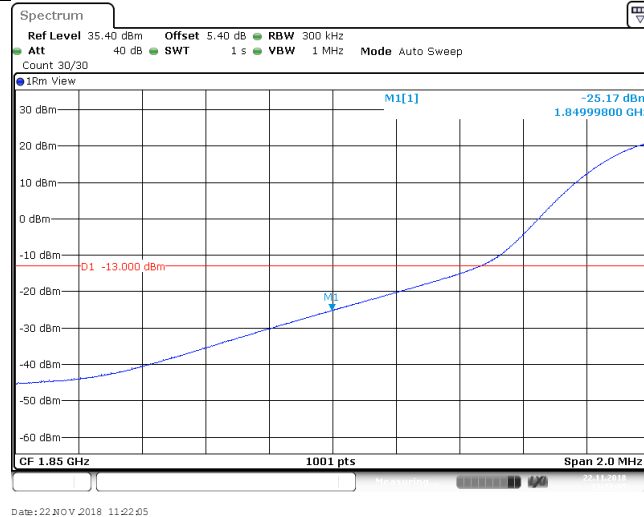


Band2_20MHz_QPSK_18700_1RB#0

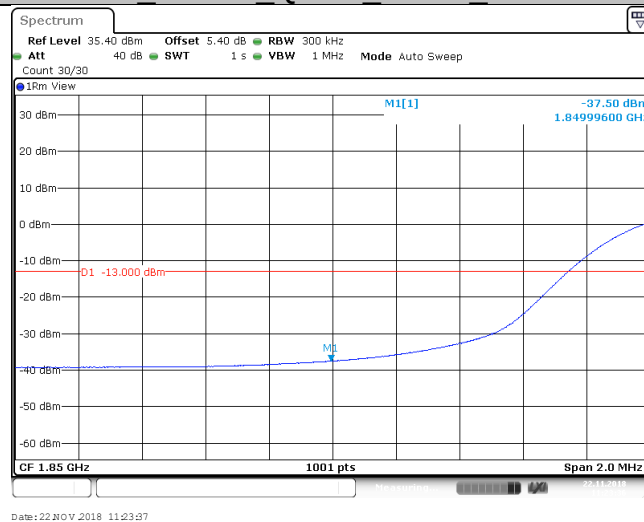
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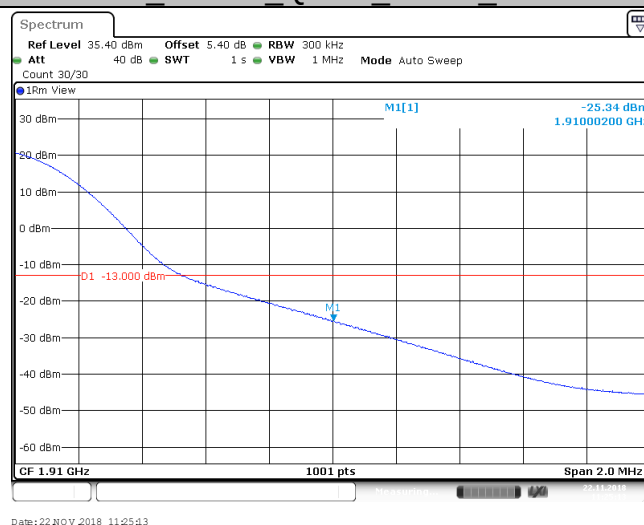
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Band2 20MHz QPSK 18700 100RB#0



Band2 20MHz QPSK 19100 1RB#99



Band2 20MHz QPSK 19100 100RB#0

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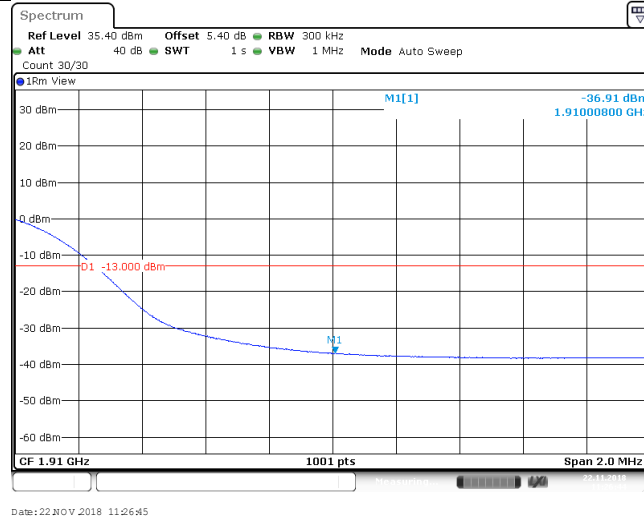
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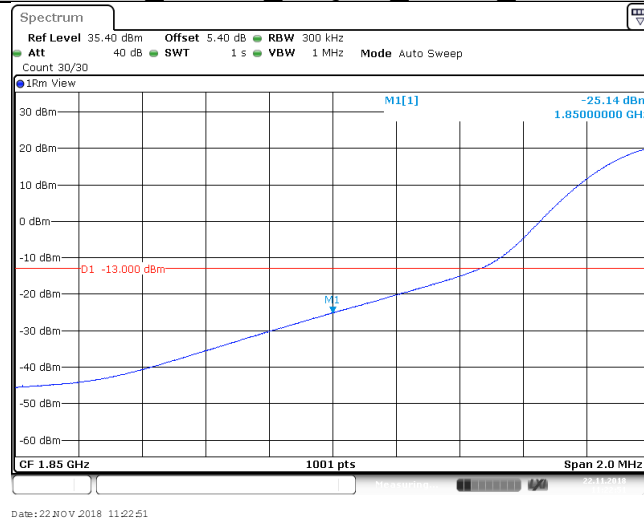
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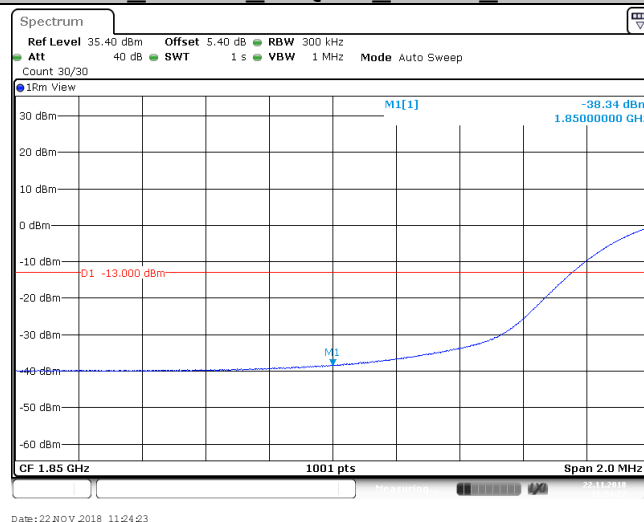
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Band2 20MHz 16QAM 18700 1RB#0



Band2 20MHz 16QAM 18700 100RB#0

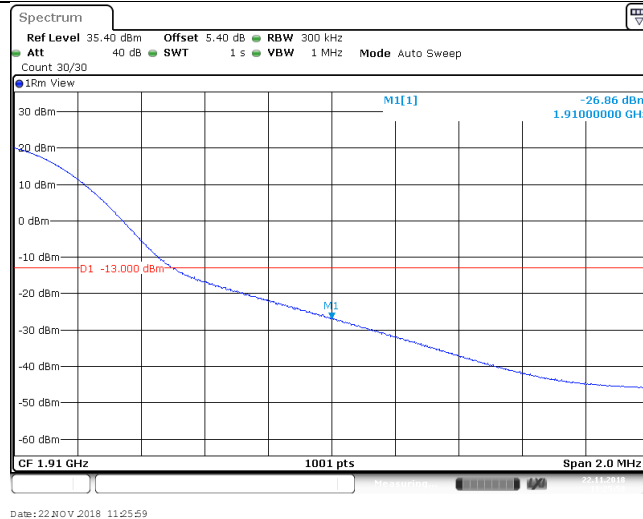
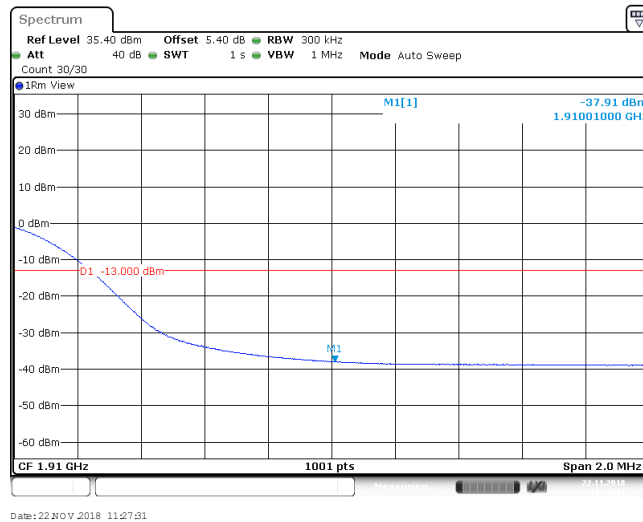


Band2 20MHz 16QAM 19100 1RB#99

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**Band2 20MHz 16QAM 19100 100RB#0**

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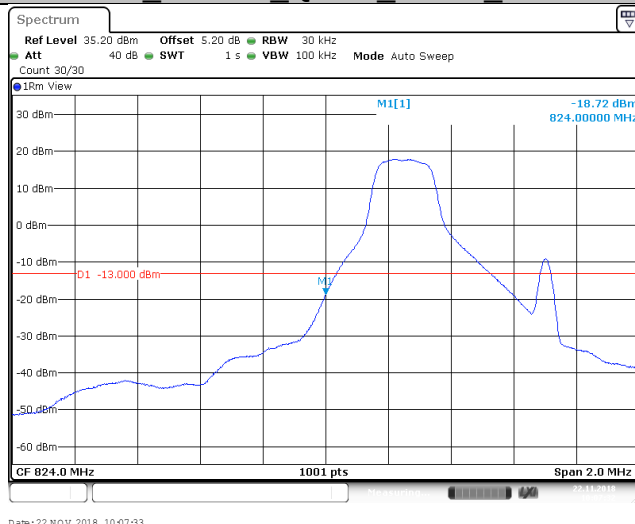
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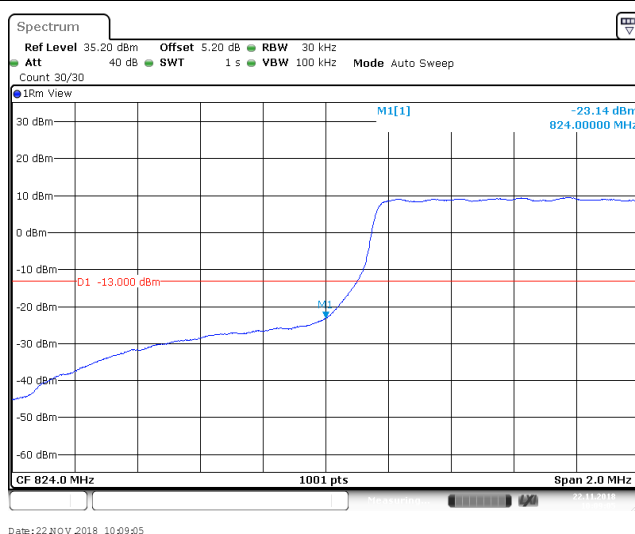
8.7. Measurement Result: LTE Band 5

8.7.1. Plots

Band5 1.4MHz QPSK 20407 1RB#0



Band5 1.4MHz QPSK 20407 6RB#0

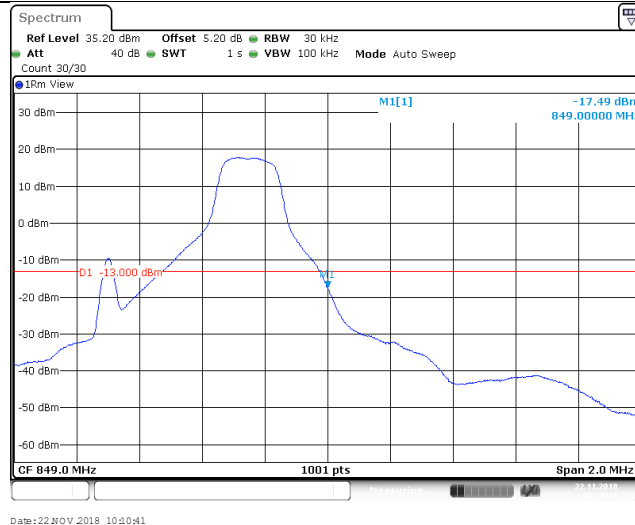


Band5 1.4MHz QPSK 20643 1RB#5

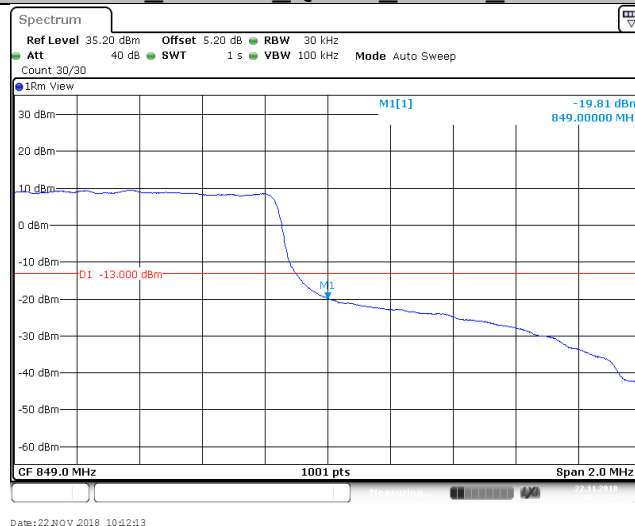
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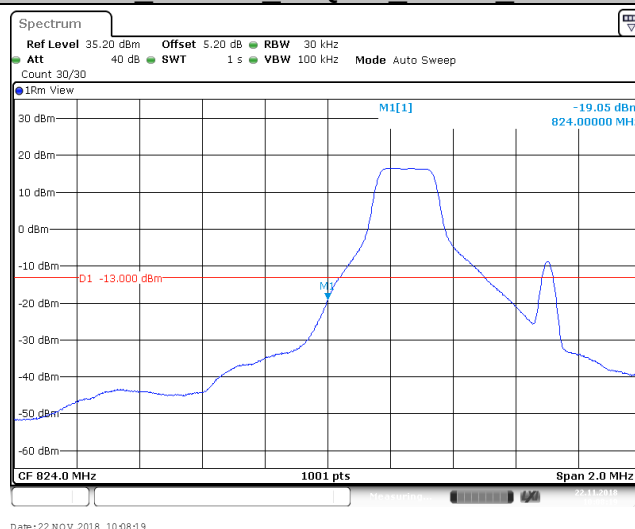
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Band5 1.4MHz QPSK 20643 6RB#0



Band5 1.4MHz 16QAM 20407 1RB#0

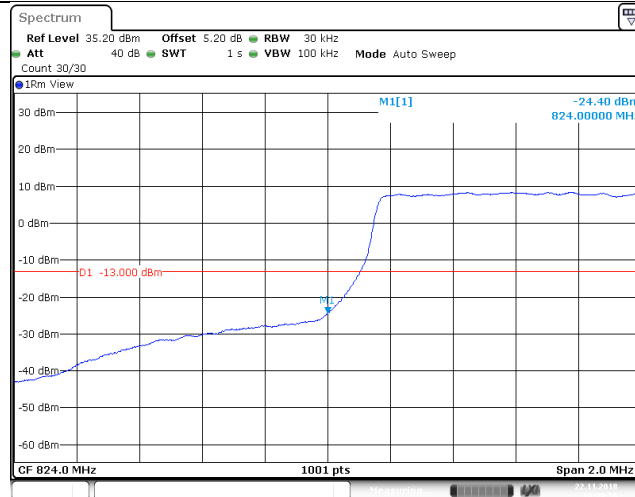


Band5 1.4MHz 16QAM 20407 6RB#0

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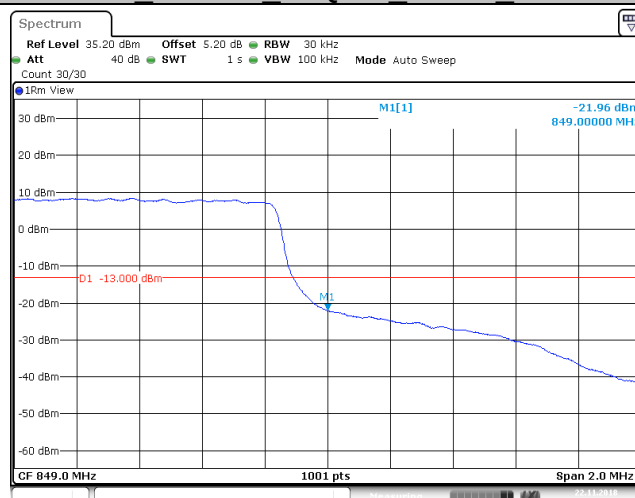
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Band5 1.4MHz 16QAM 20643 1RB#5



Date: 22 NOV 2018 10:51:27

Band5 1.4MHz 16QAM 20643 6RB#0



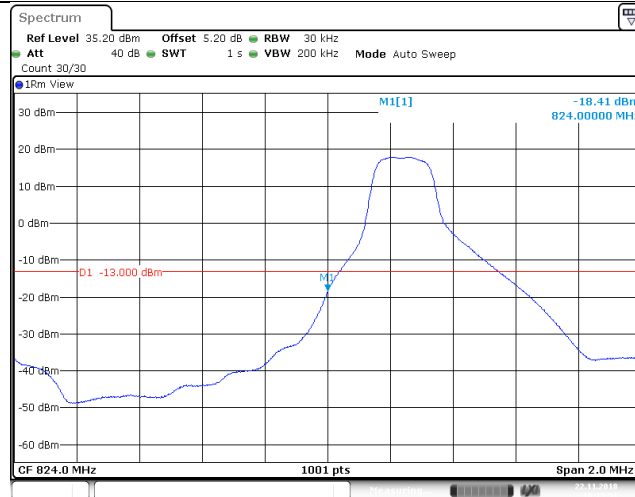
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Band5 3MHz QPSK 20415 1RB#0

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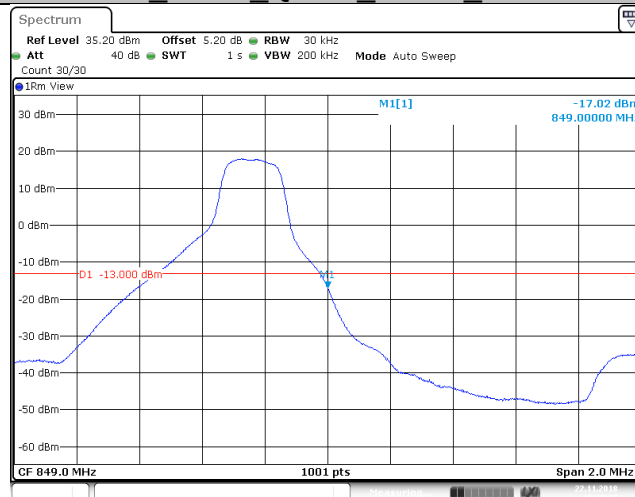
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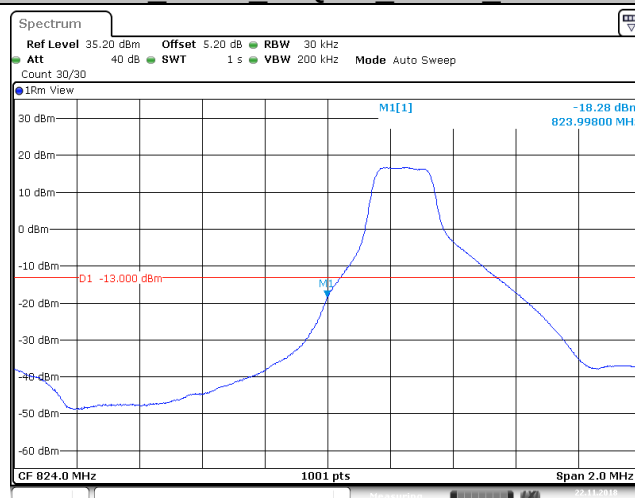
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Band5 3MHz QPSK 20635 1RB#14



Date: 22 NOV 2018 10:45:27

Band5 3MHz 16QAM 20415 1RB#0



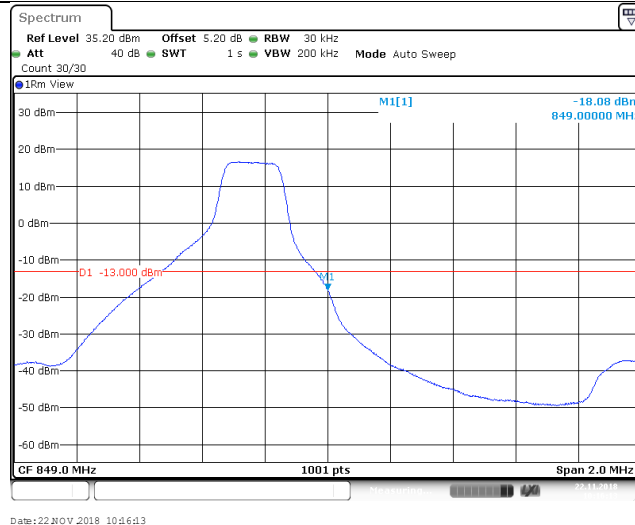
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Band5 3MHz 16QAM 20635 1RB#14

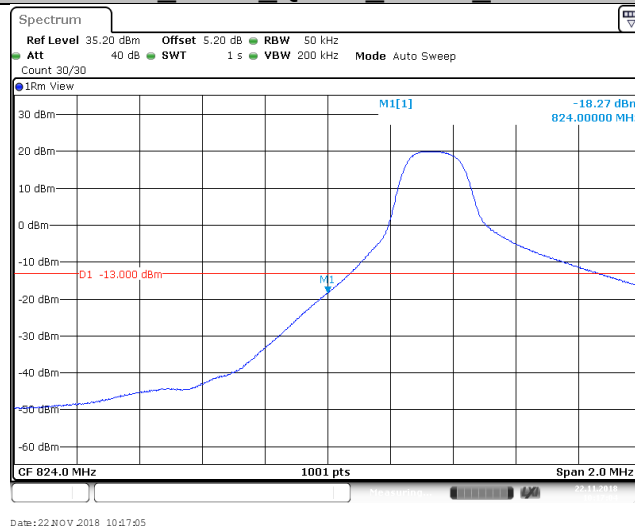
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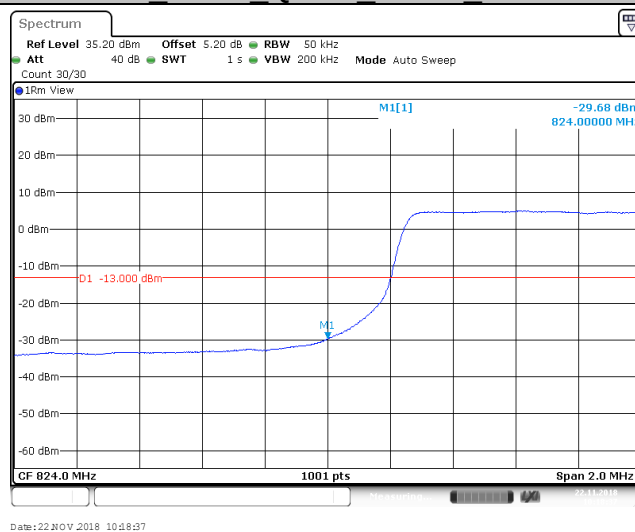
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Band5 5MHz QPSK 20425 1RB#0



Band5 5MHz QPSK 20425 25RB#0

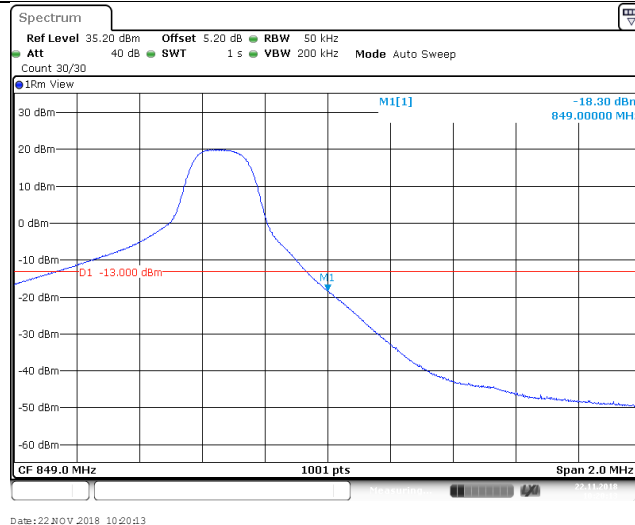


Band5 5MHz QPSK 20625 1RB#24

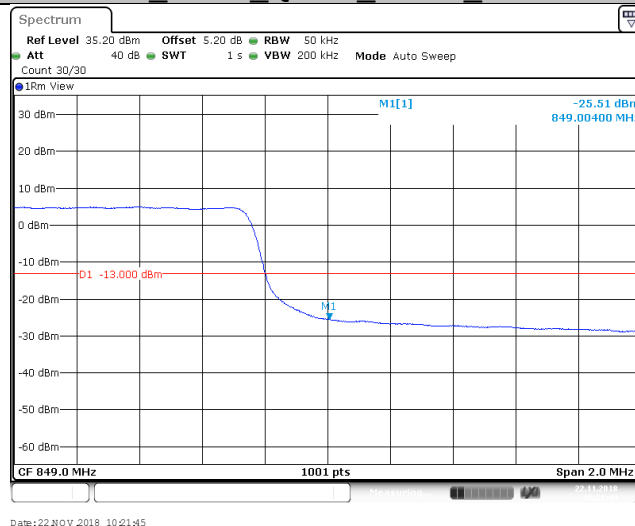
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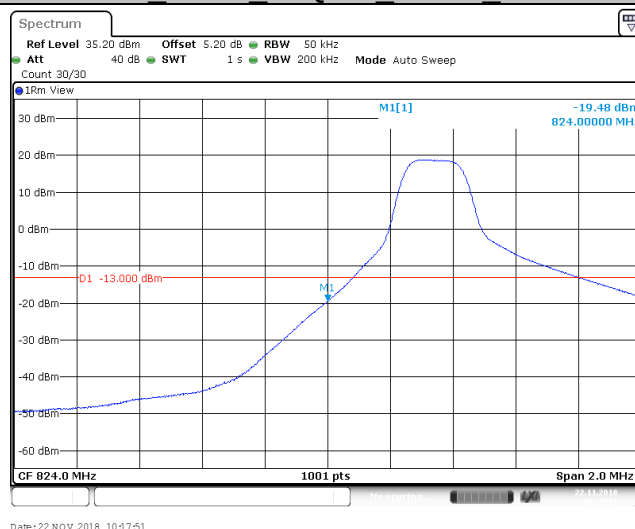
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Band5 5MHz QPSK 20625 25RB#0



Band5 5MHz 16QAM 20425 1RB#0

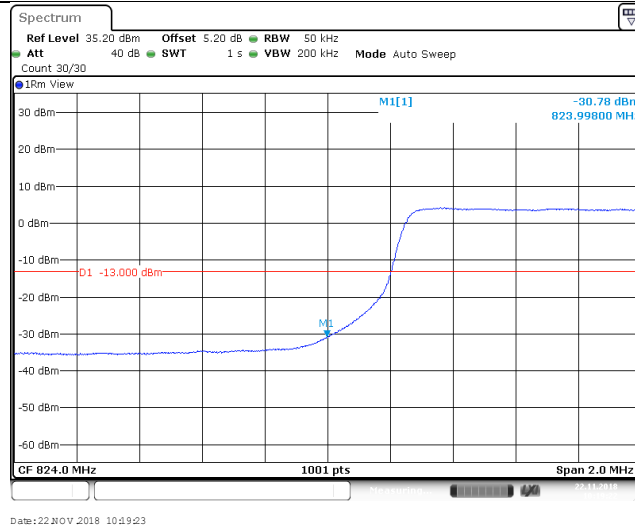


Band5 5MHz 16QAM 20425 25RB#0

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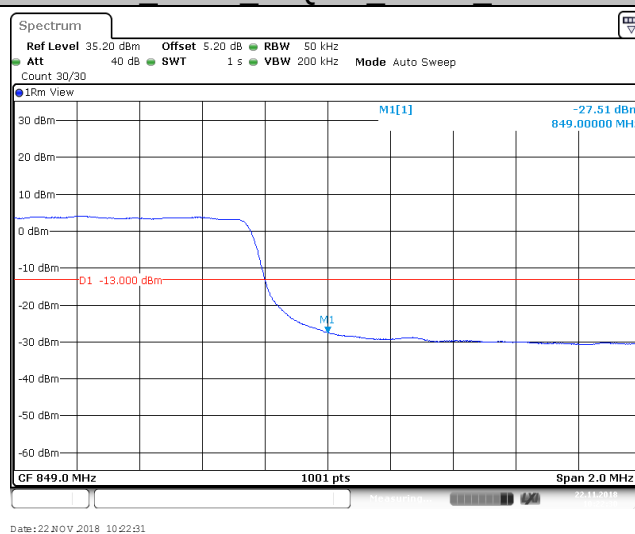
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Band5 5MHz 16QAM 20625 1RB#24



Band5 5MHz 16QAM 20625 25RB#0

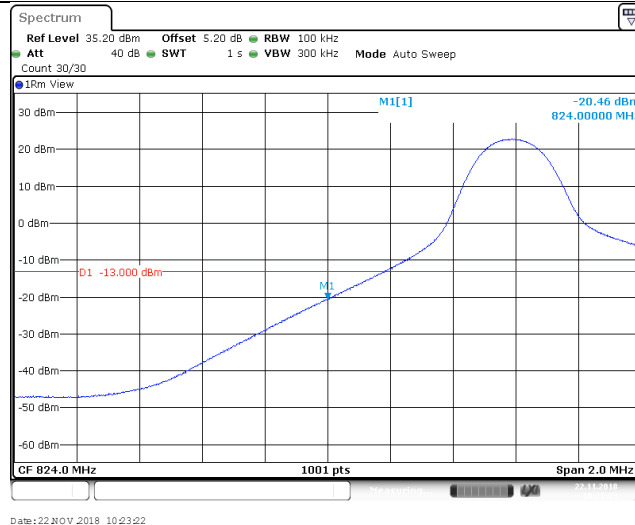


Band5 10MHz QPSK 20450 1RB#0

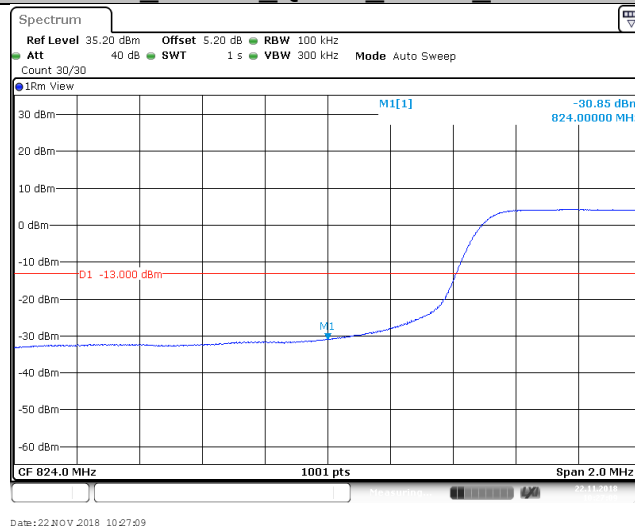
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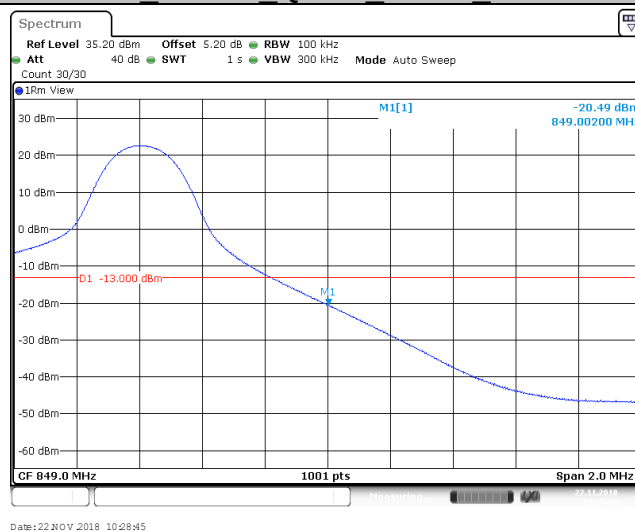
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Band5 10MHz QPSK 20450 50RB#0



Band5 10MHz QPSK 20600 1RB#49

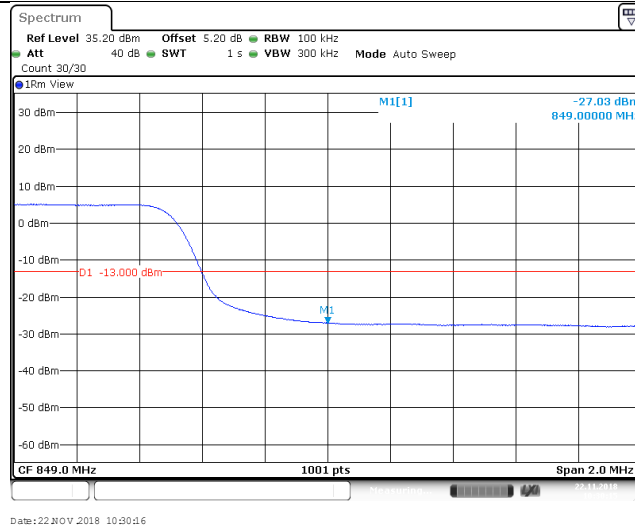


Band5 10MHz QPSK 20600 50RB#0

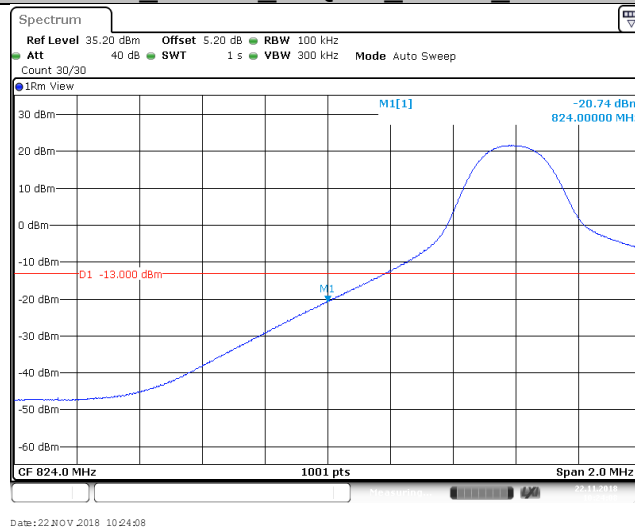
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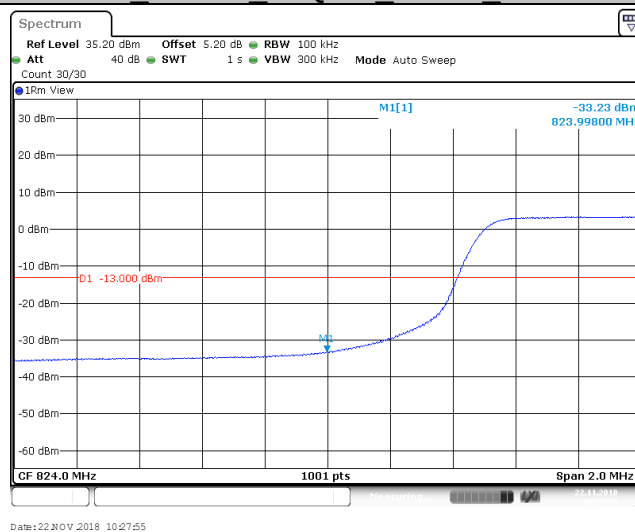
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Band5 10MHz 16QAM 20450 1RB#0



Band5 10MHz 16QAM 20450 50RB#0

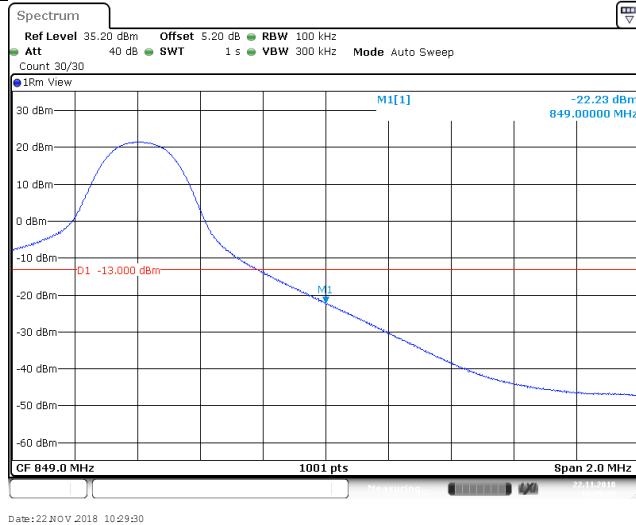


Band5 10MHz 16QAM 20600 1RB#49

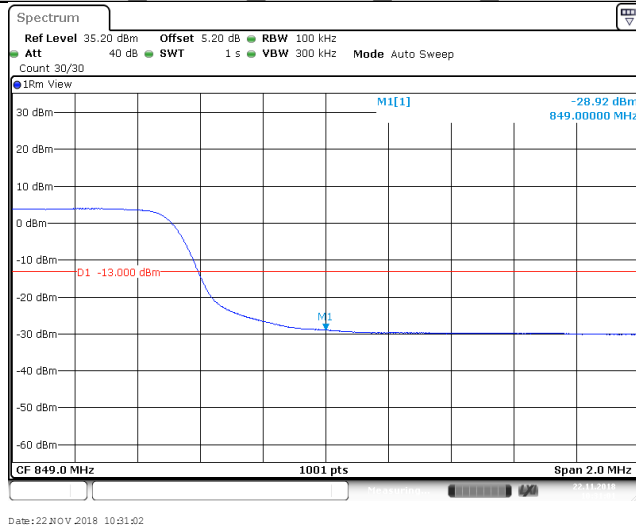
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Band5_10MHz_16QAM_20600_50RB#0



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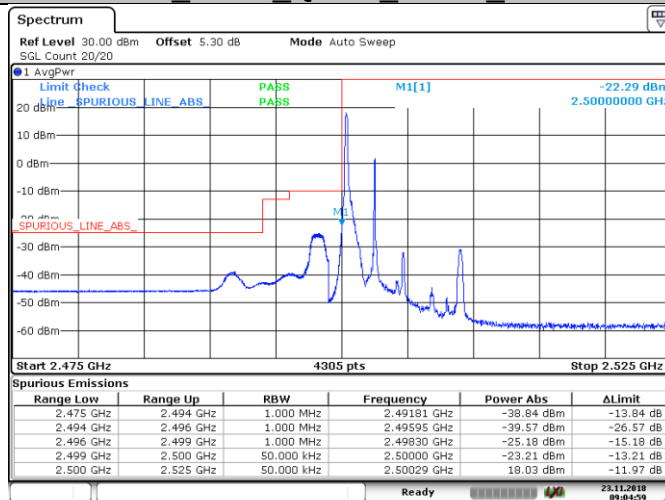
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8.8. Measurement Result: LTE Band 7

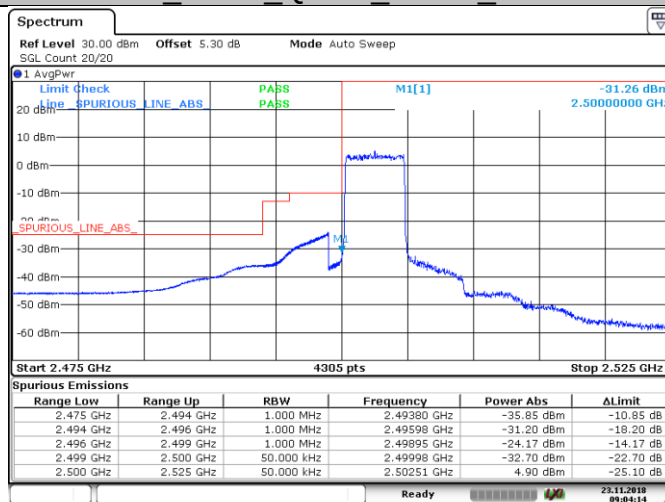
8.8.1. Plots

Band7_5MHz_QPSK_20775_1RB#0



Date: 23.NOV.2018 09:04:59

Band7_5MHz_QPSK_20775_25RB#0



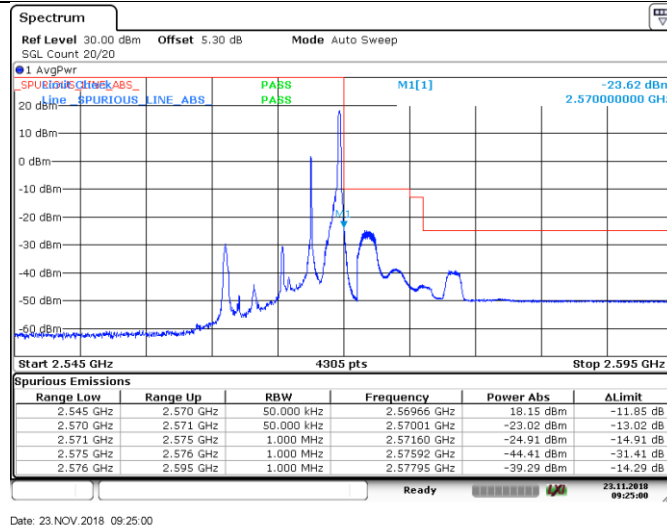
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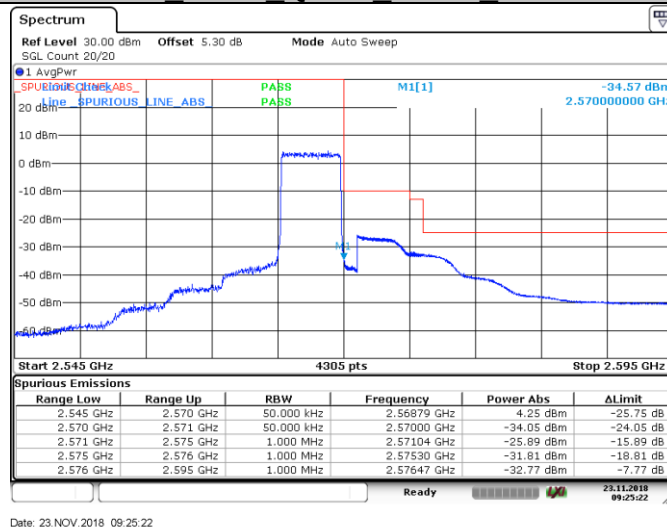
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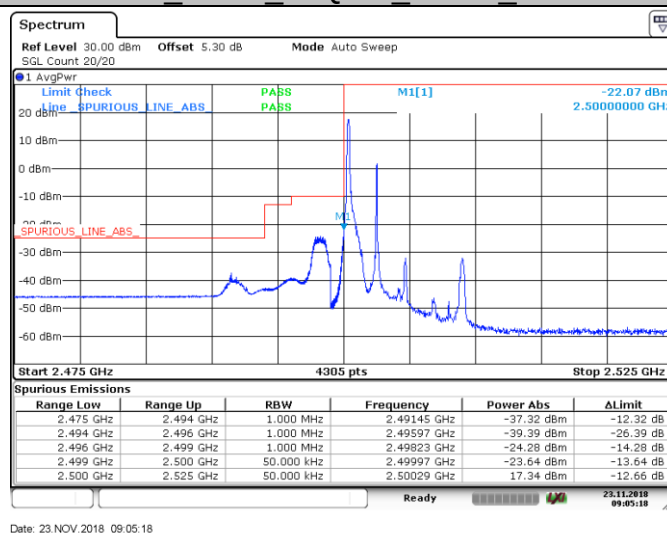
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Band7 5MHz QPSK 21425 25RB#0



Band7 5MHz 16QAM 20775 1RB#0

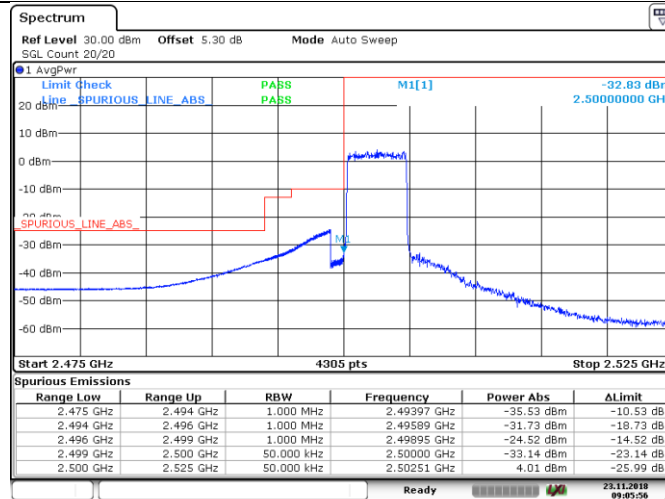


Band7 5MHz 16QAM 20775 25RB#0

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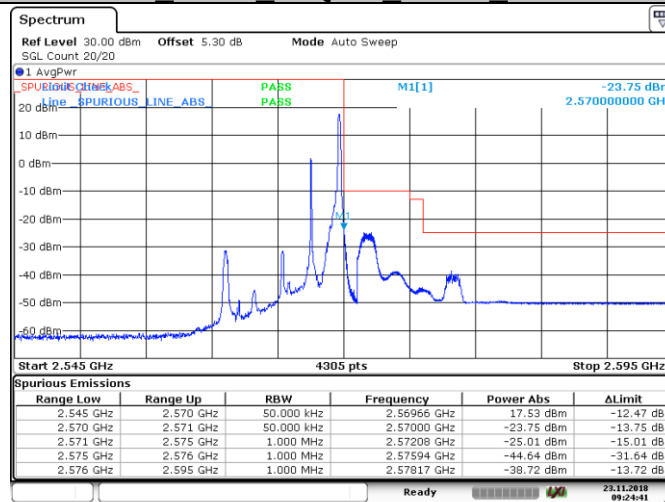
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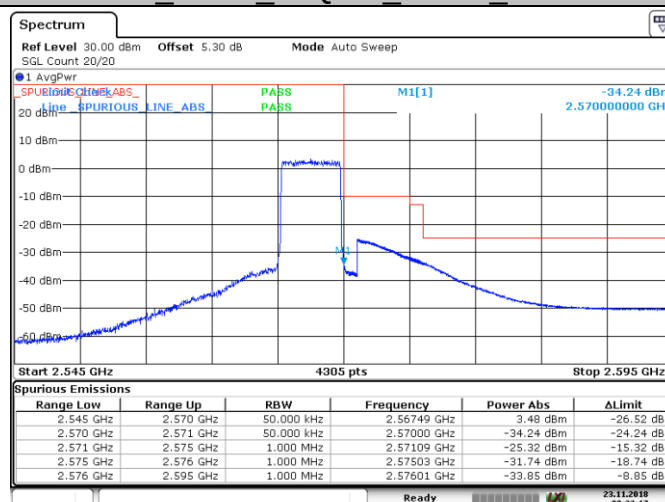
Date: 23.NOV.2018 09:05:56

Band7 5MHz 16QAM 21425 1RB#24



Date: 23.NOV.2018 09:24:41

Band7 5MHz 16QAM 21425 25RB#0



Date: 23.NOV.2018 09:23:17

Band7 10MHz QPSK 20800 1RB#0

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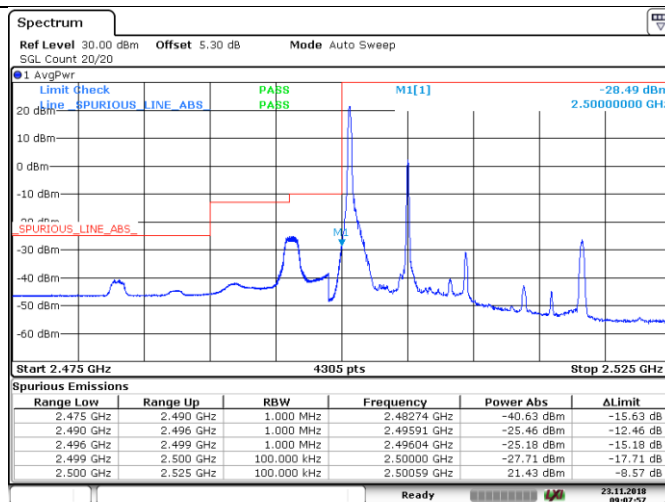
No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057

t +86 (0) 755 2601 2053

f +86 (0) 755 2671 0594

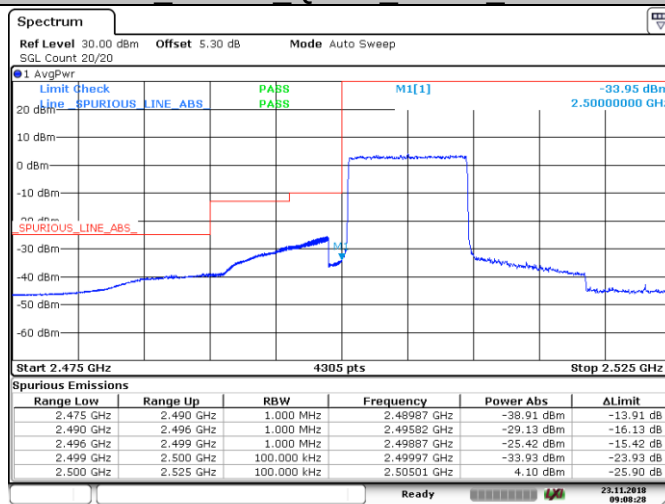
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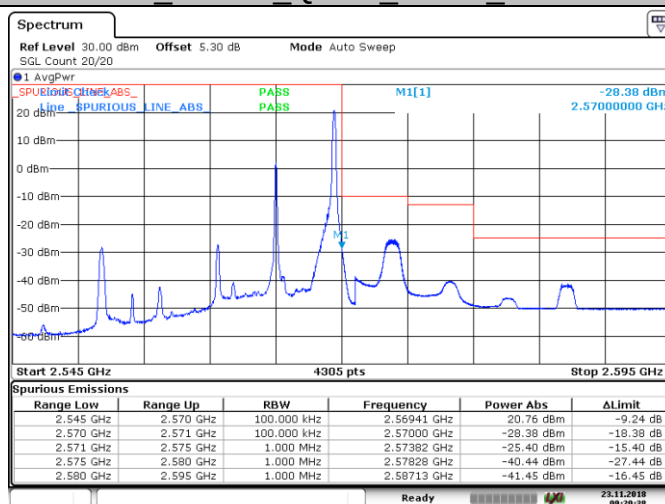
Date: 23.NOV.2018 09:07:57

Band7 10MHz QPSK 20800 50RB#0



Date: 23.NOV.2018 09:08:28

Band7 10MHz QPSK 21400 1RB#49



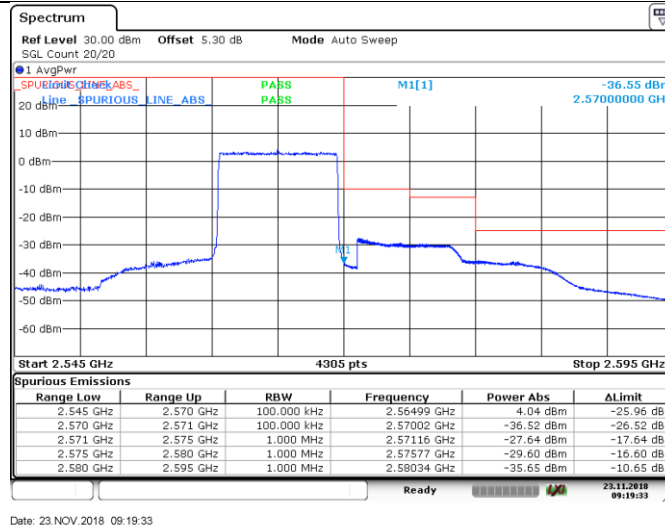
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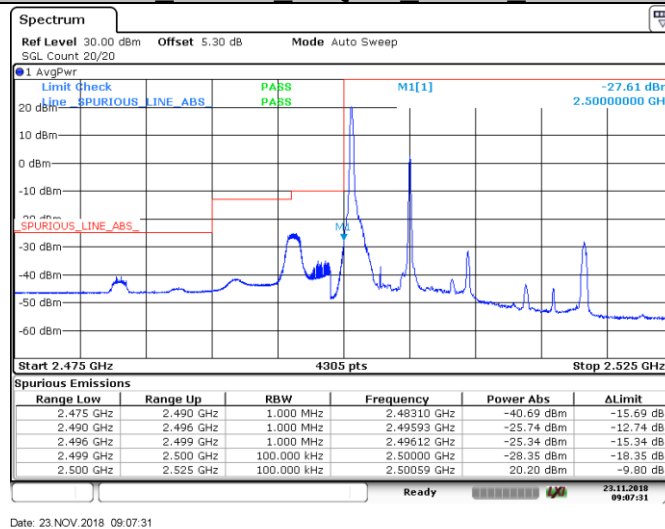
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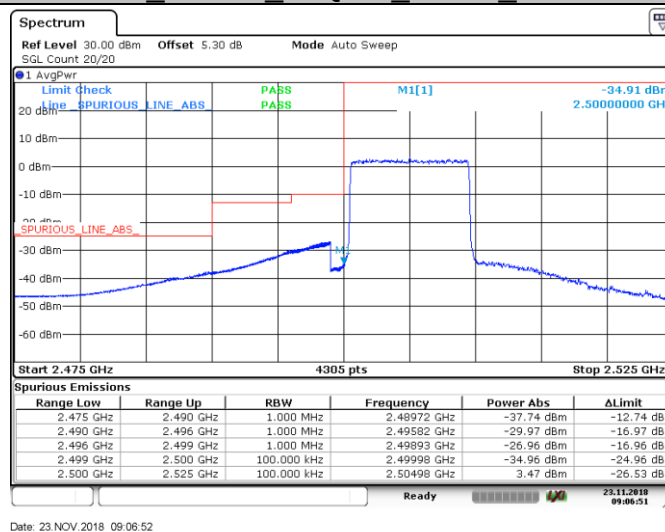
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Band7 10MHz 16QAM 20800 1RB#0



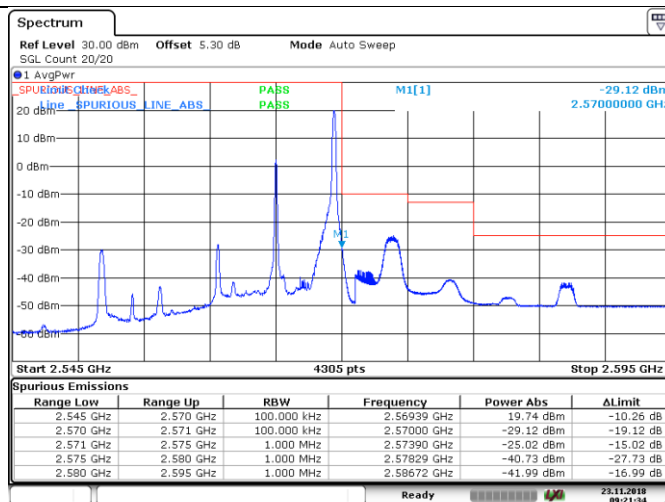
Band7 10MHz 16QAM 20800 50RB#0



Band7 10MHz 16QAM 21400 1RB#49

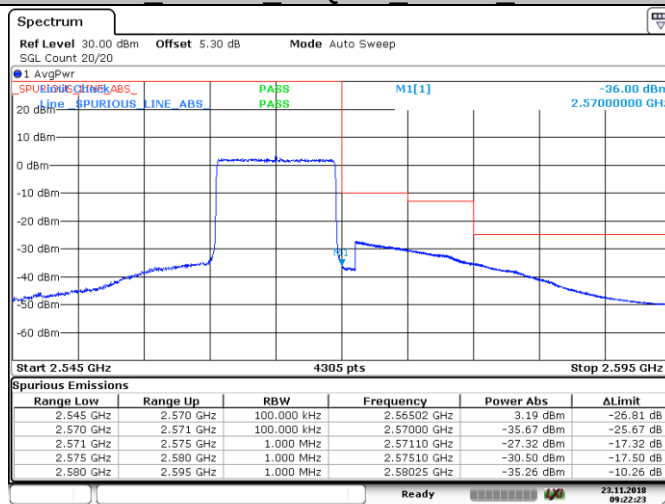
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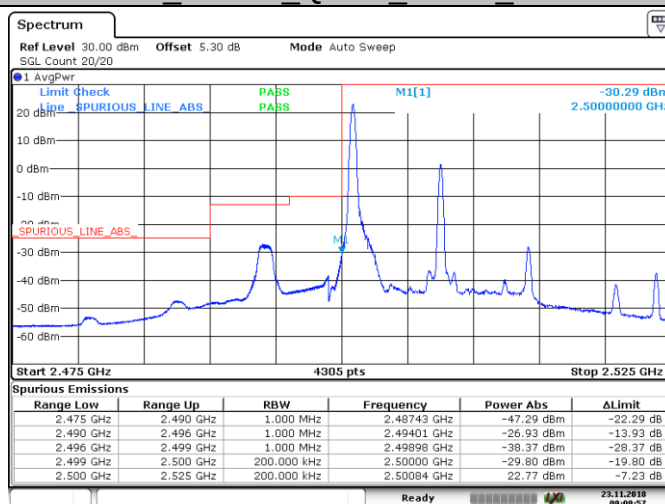
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Band7 10MHz 16QAM 21400 50RB#0



Date: 23.NOV.2018 09:22:23

Band7 15MHz QPSK 20825 1RB#0



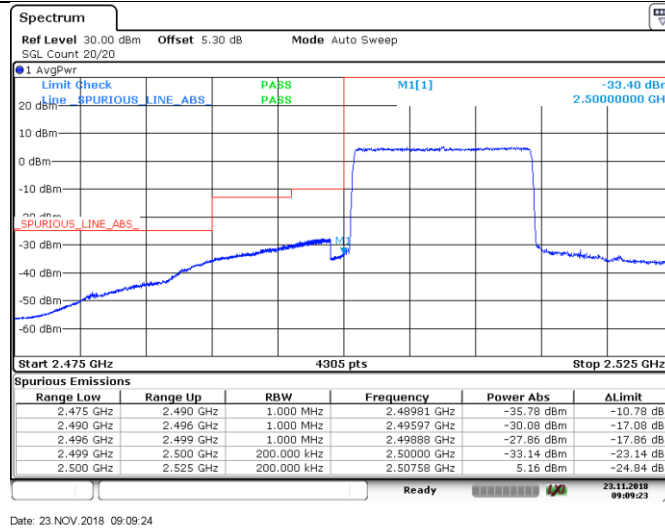
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Band7 15MHz QPSK 20825 75RB#0

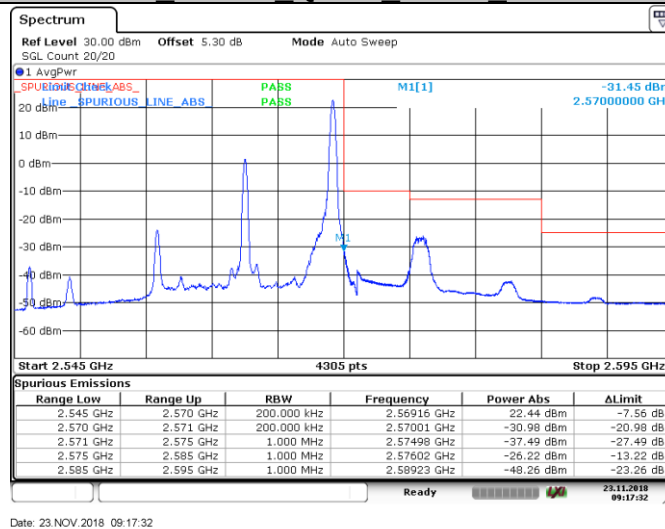
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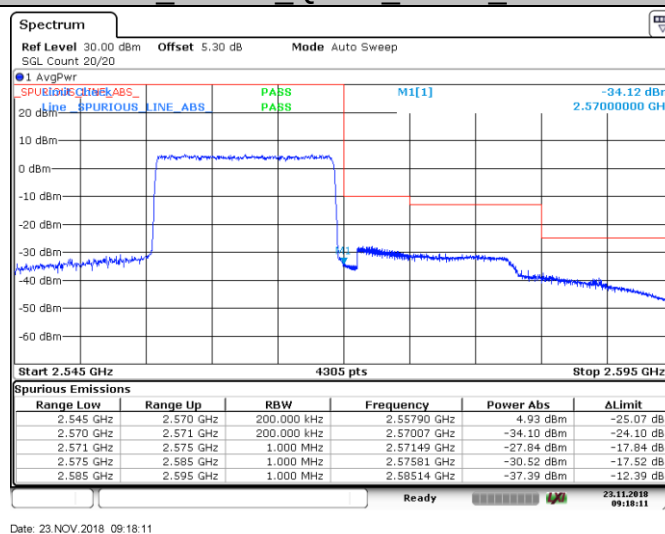
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Band7 15MHz QPSK 21375 1RB#74



Band7 15MHz QPSK 21375 75RB#0

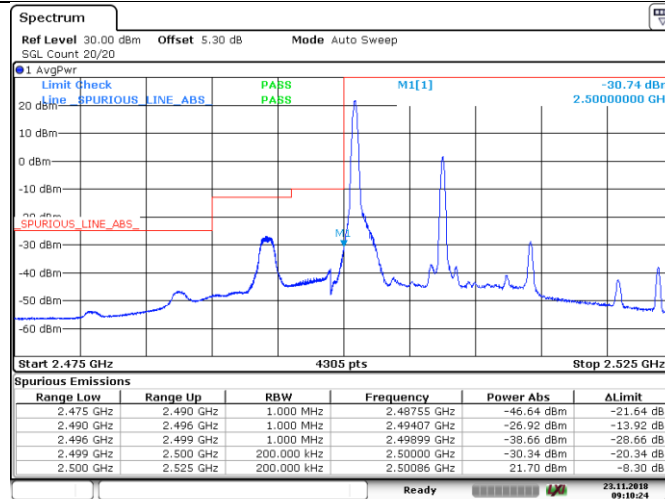


Band7 15MHz 16QAM 20825 1RB#0

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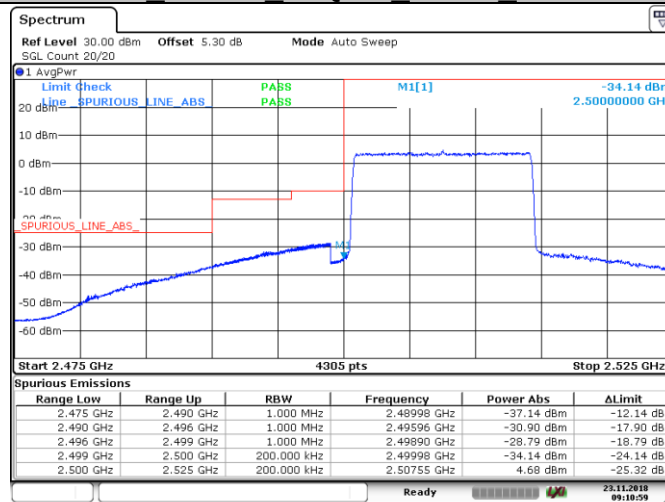
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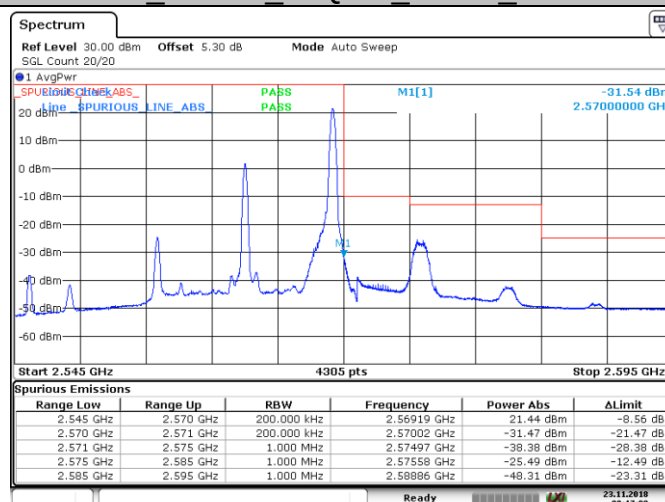
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Band7 15MHz 16QAM 20825 75RB#0



Date: 23.NOV.2018 09:10:59

Band7 15MHz 16QAM 21375 1RB#74



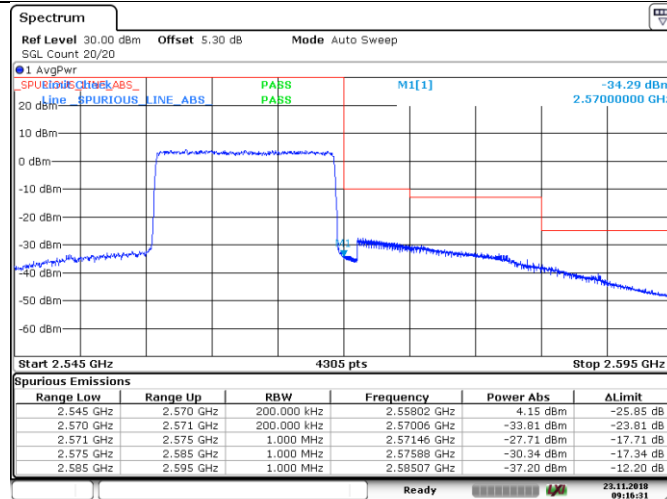
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Band7 15MHz 16QAM 21375 75RB#0

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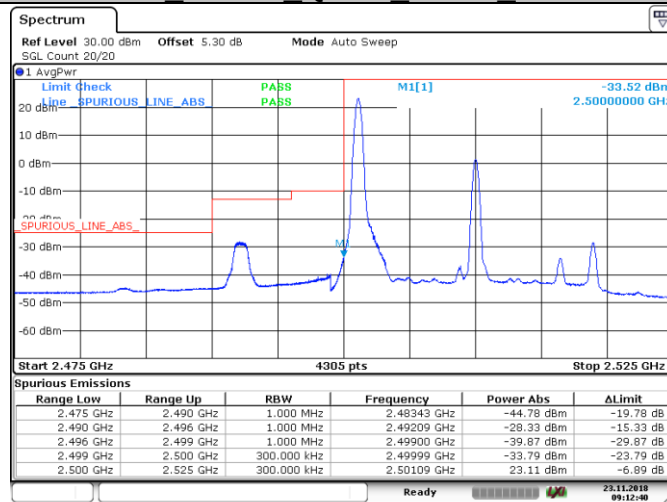
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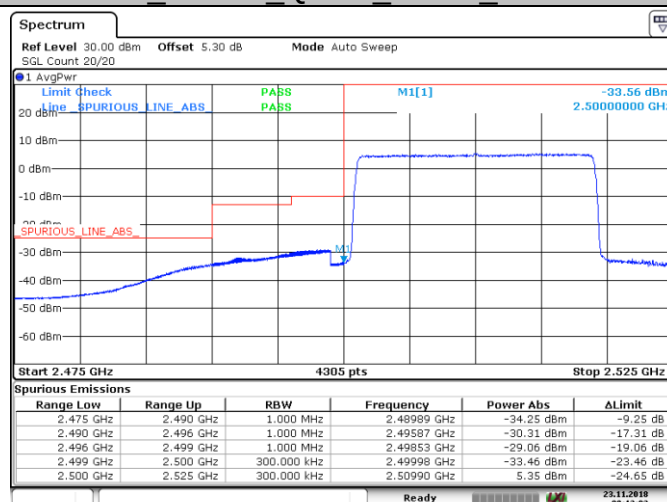
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Band7 20MHz QPSK 20850 1RB#0



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Band7 20MHz QPSK 20850 100RB#0

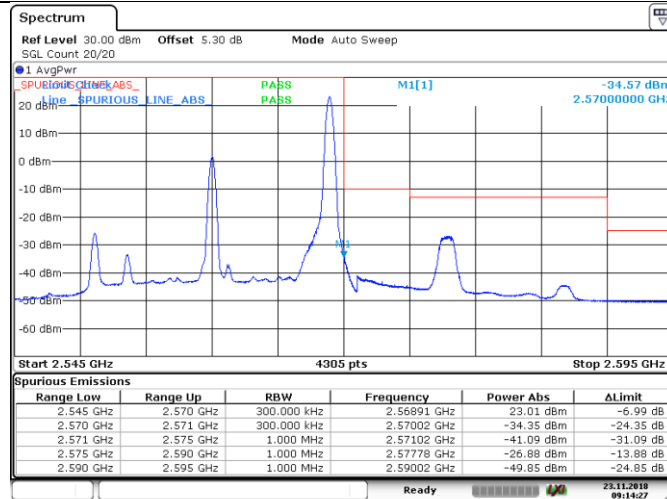


Date: 23.NOV.2018 09:13:03

Band7 20MHz QPSK 21350 1RB#99

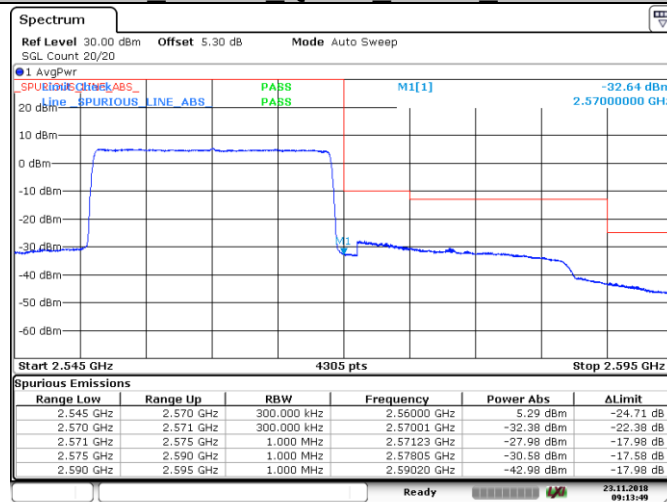
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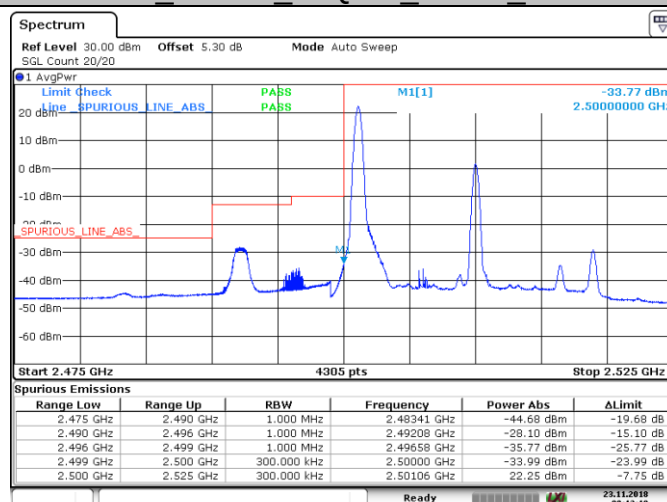
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Band7 20MHz QPSK 21350 100RB#0



Date: 23.NOV.2018 09:13:50

Band7 20MHz 16QAM 20850 1RB#0



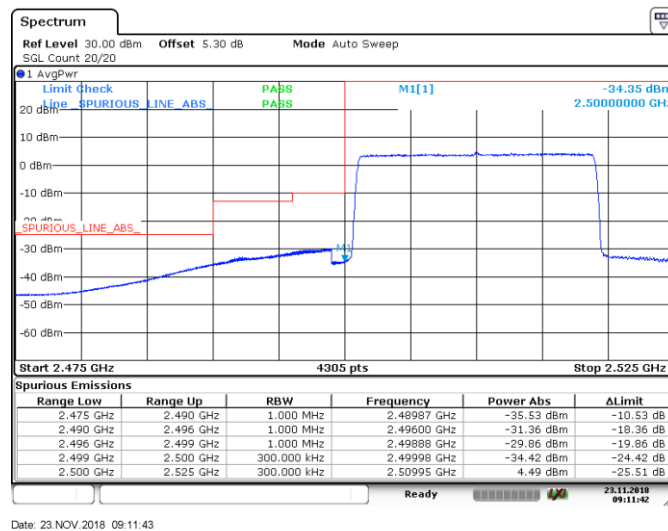
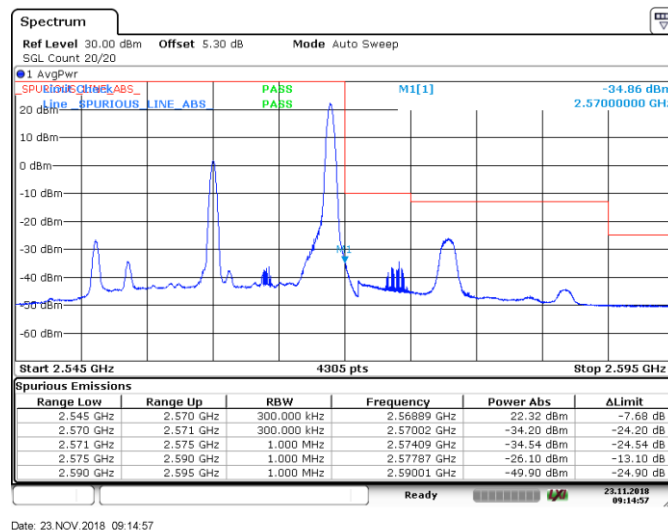
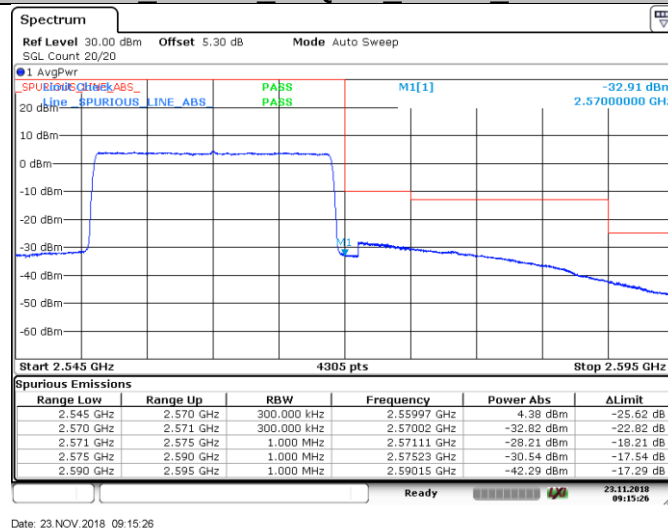
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Band7 20MHz 16QAM 20850 100RB#0

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**Band7 20MHz 16QAM 21350 1RB#99****Band7 20MHz 16QAM 21350 100RB#0**

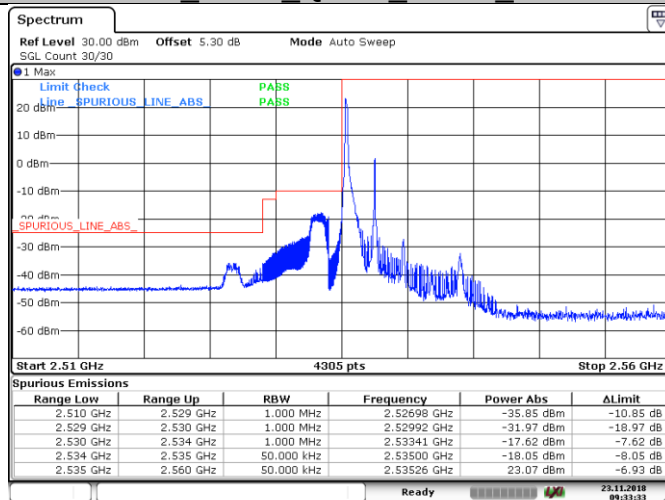
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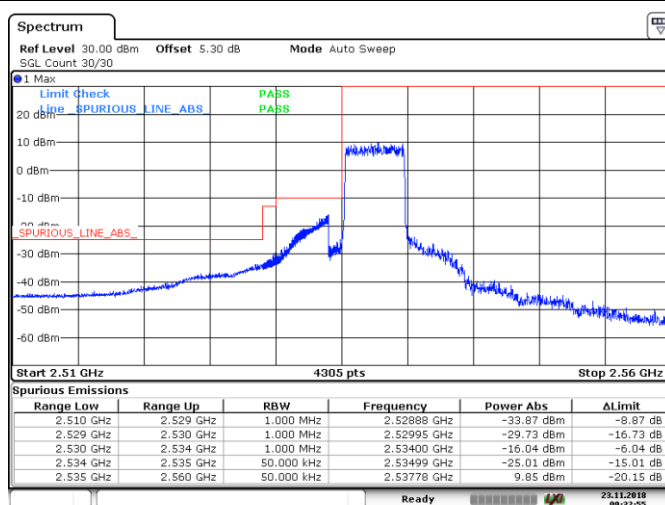
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8.9. Measurement Result: LTE Band 41

8.9.1. Plots

Band41_5MHz_QPSK_40065_1RB#0

Date: 23.NOV.2018 09:33:33

Band41_5MHz_QPSK_40065_25RB#0

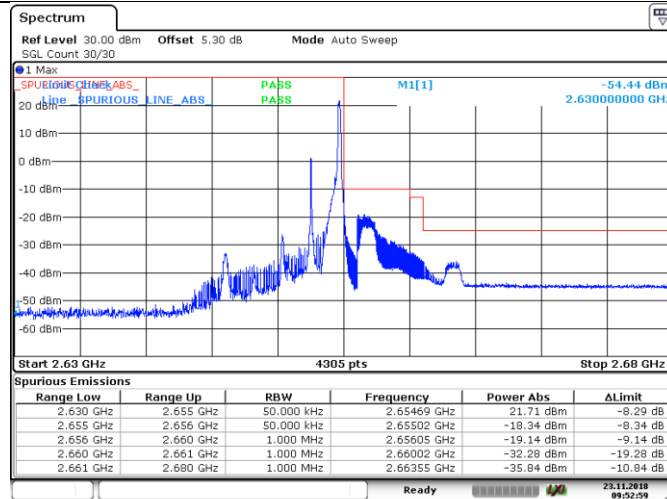
Date: 23.NOV.2018 09:32:55

Band41_5MHz_QPSK_41215_1RB#24

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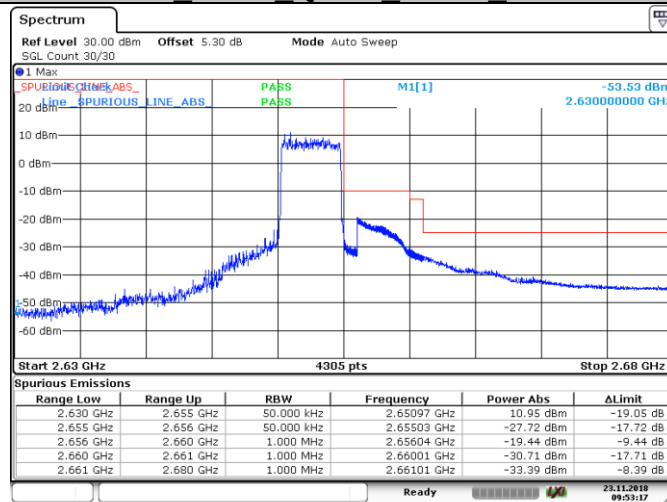
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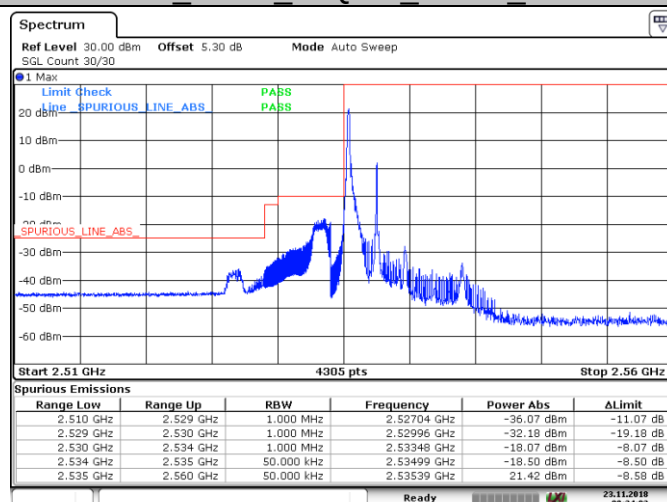
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Band41 5MHz QPSK 41215 25RB#0



Date: 23.NOV.2018 09:53:18

Band41 5MHz 16QAM 40065 1RB#0

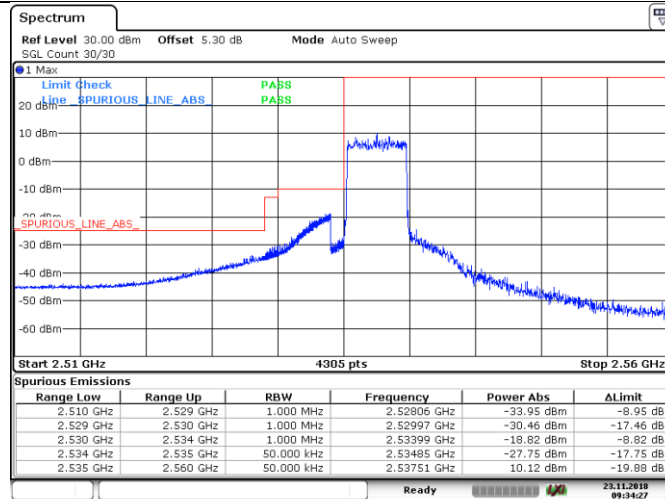


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Band41 5MHz 16QAM 40065 25RB#0

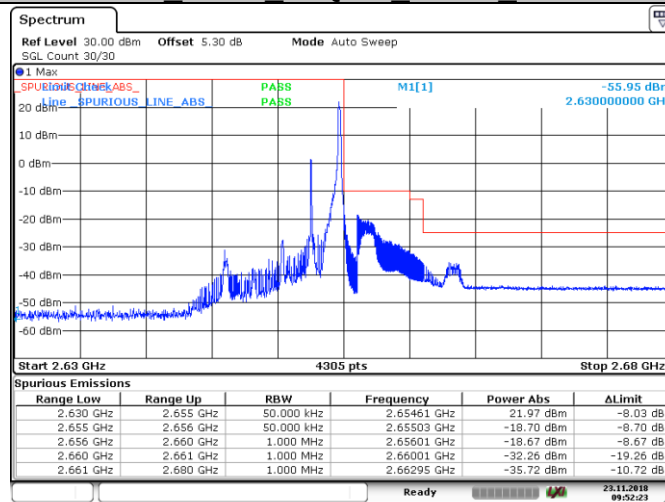
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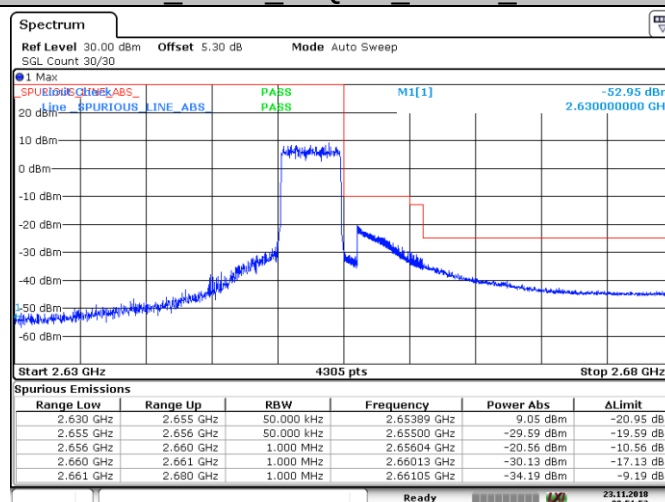
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Band41 5MHz 16QAM 41215 1RB#24



Date: 23.NOV.2018 09:52:24

Band41 5MHz 16QAM 41215 25RB#0



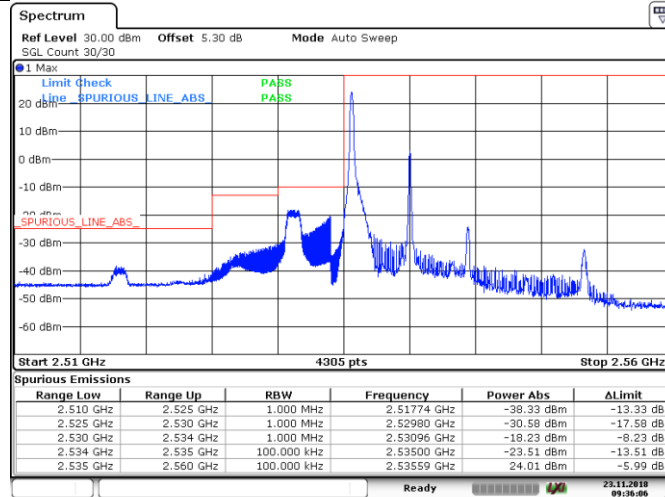
Date: 23.NOV.2018 09:51:52

Band41 10MHz QPSK 40090 1RB#0

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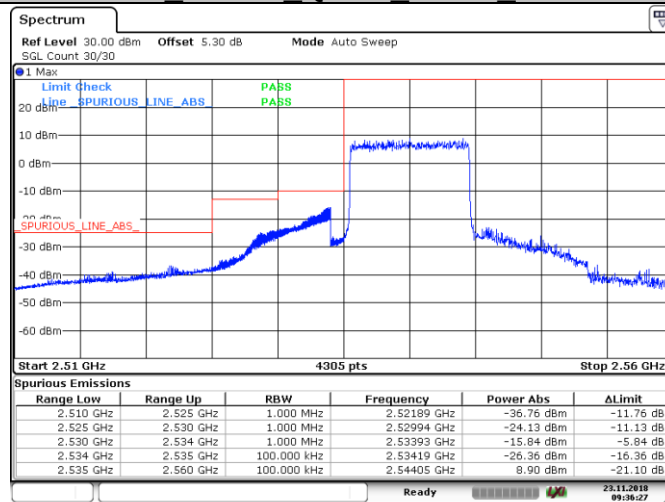
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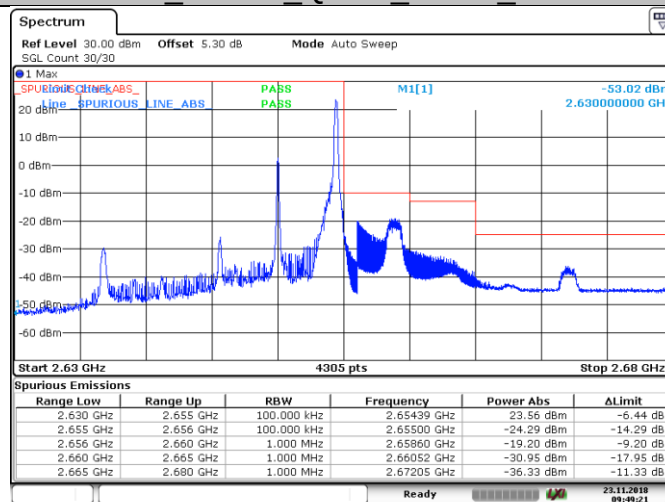
Date: 23.NOV.2018 09:36:06

Band41_10MHz_QPSK_40090_50RB#0



Date: 23.NOV.2018 09:36:27

Band41_10MHz_QPSK_41190_1RB#49

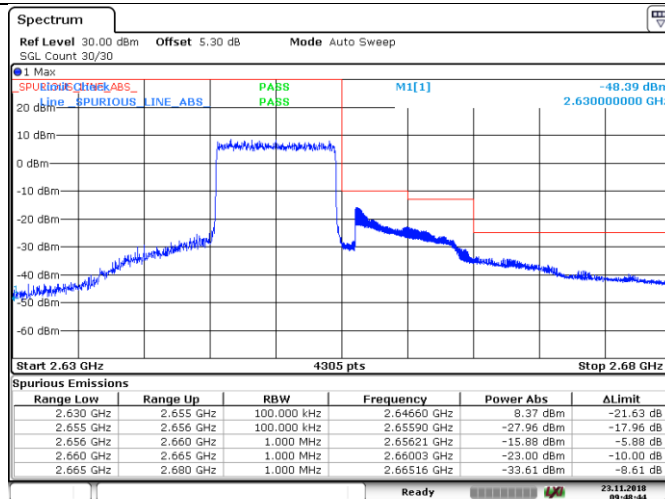


Date: 23.NOV.2018 09:49:21

Band41_10MHz_QPSK_41190_50RB#0

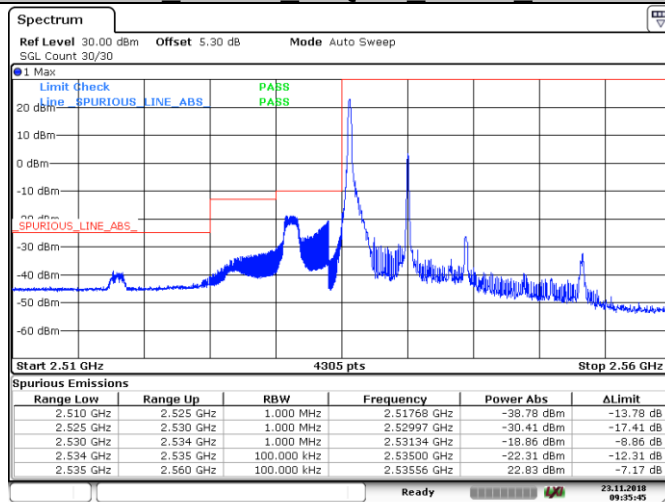
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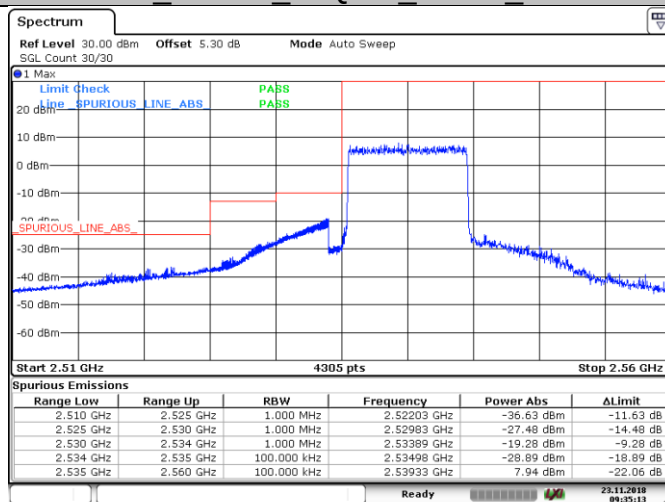
Date: 23.NOV.2018 09:48:44

Band41 10MHz 16QAM 40090 1RB#0



Date: 23.NOV.2018 09:35:46

Band41 10MHz 16QAM 40090 50RB#0



Date: 23.NOV.2018 09:35:13

Band41 10MHz 16QAM 41190 1RB#49

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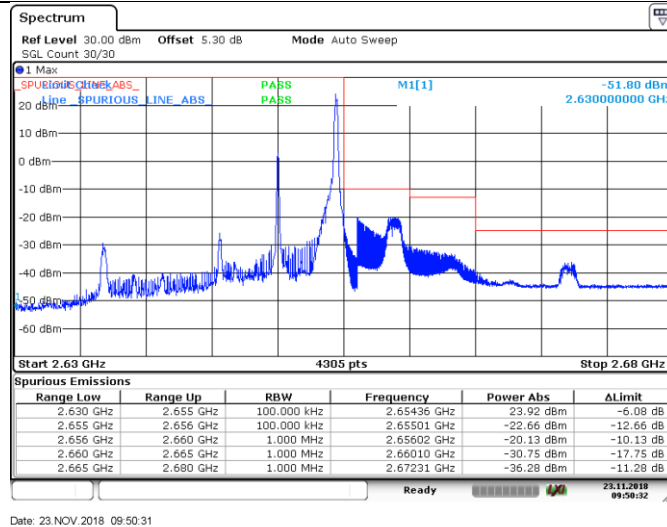
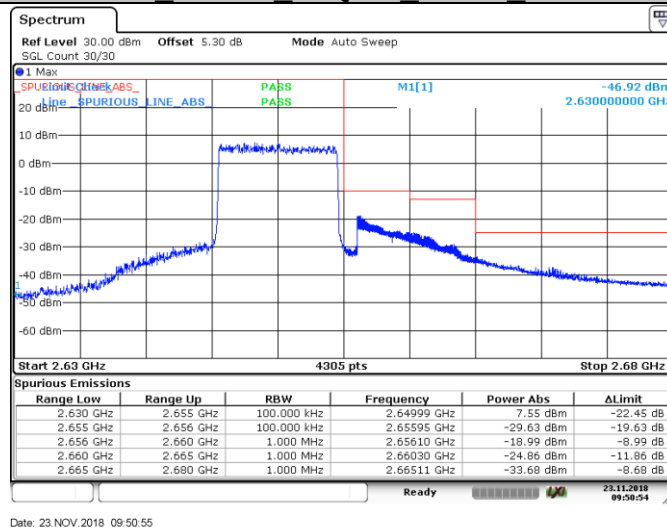
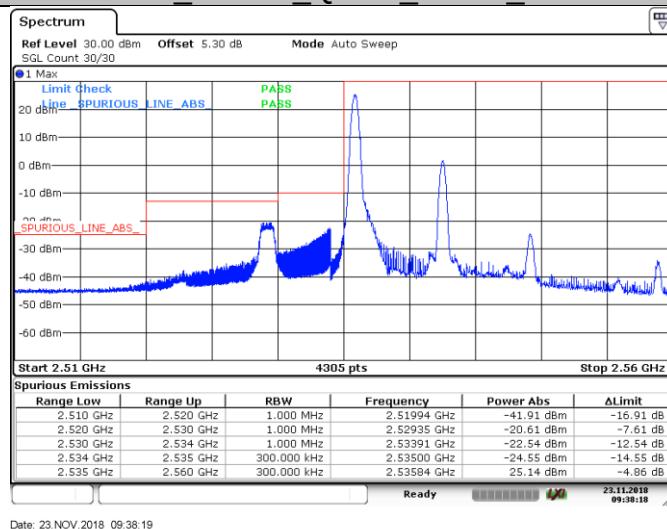
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t +86 (0) 755 2601 2053

f +86 (0) 755 2671 0594

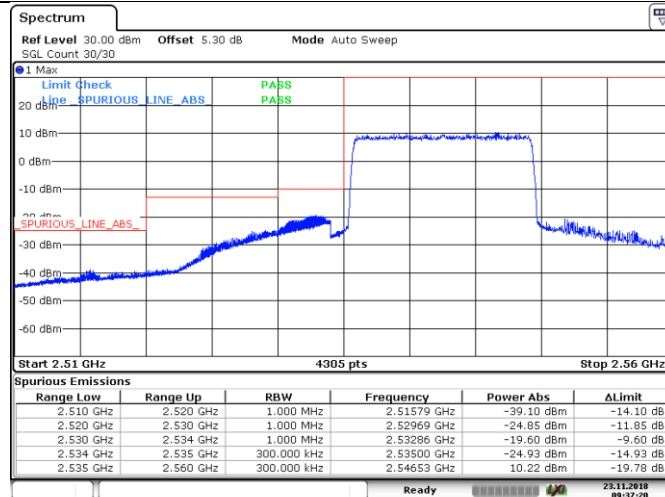
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**Band41 10MHz 16QAM 41190 50RB#0****Band41 15MHz QPSK 40115 1RB#0****Band41 15MHz QPSK 40115 75RB#0**

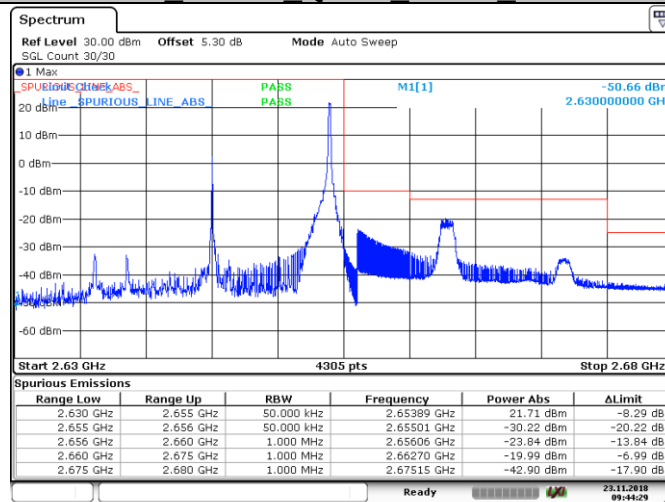
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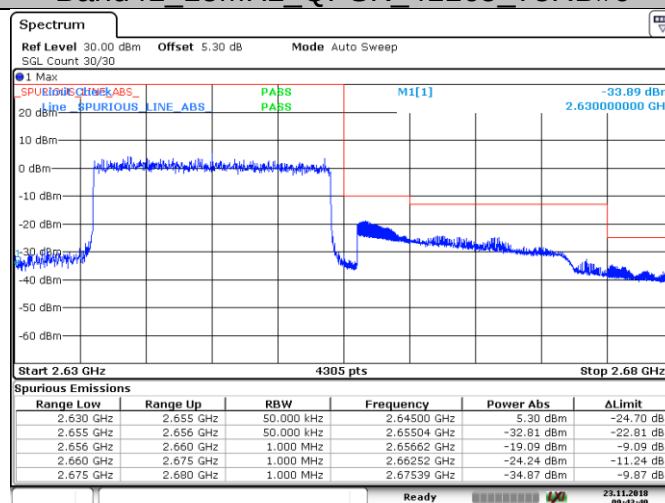
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Band41_15MHz_QPSK_41165_1RB#74



Date: 23.NOV.2018 09:44:29

Band41_15MHz_QPSK_41165_75RB#0



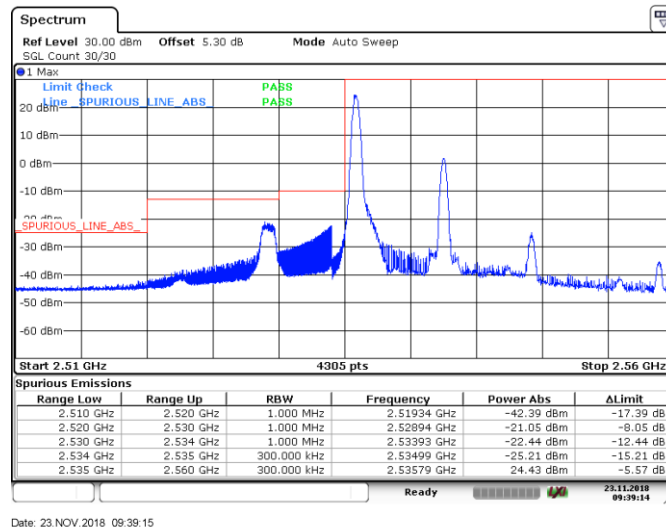
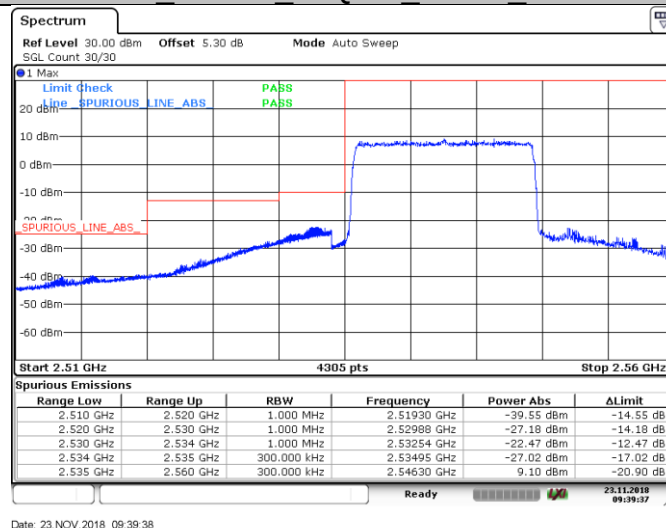
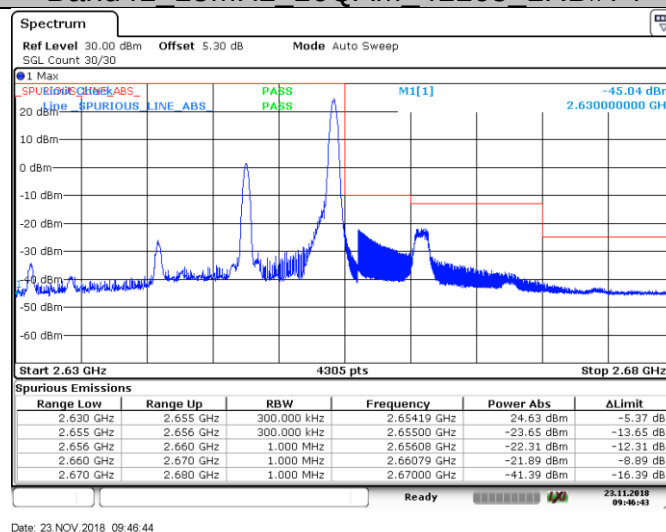
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Band41_15MHz_16QAM_40115_1RB#0

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**Band41 15MHz 16QAM 40115 75RB#0****Band41 15MHz 16QAM 41165 1RB#74**

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