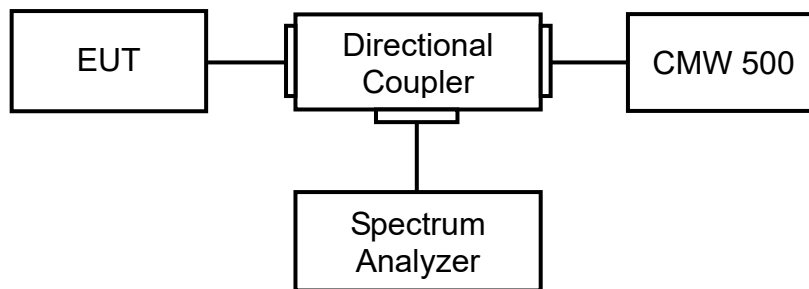


7. Spurious Emissions at Antenna Terminals

7.1. Test Setup



7.2. Test Procedure

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

7.3. Test Method

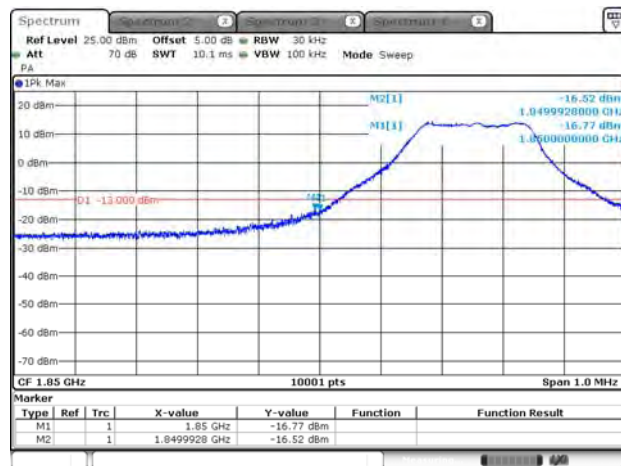
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1

ANSI C63.26: 2015 Sub-clause 5.7

7.4. Test Result

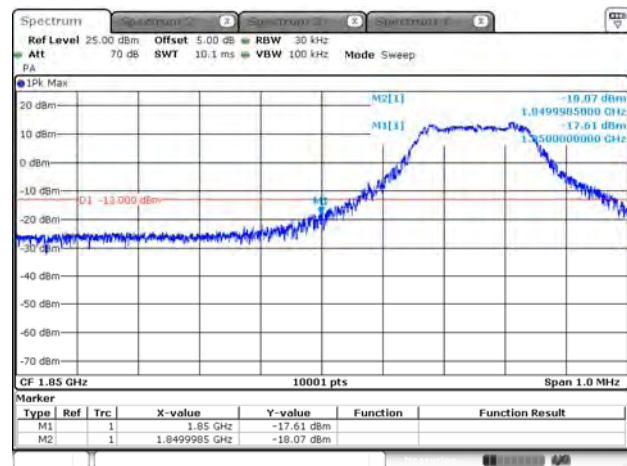
Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/17	Test Site	SR10-H

Cat M1_Band 2_CH18607_1.4M_QPSK_1RB0



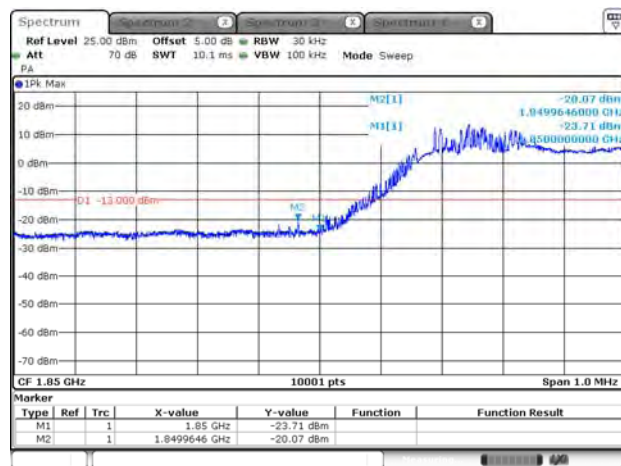
Date: 17.SEP.2018 10:27:36

Cat M1_Band 2_CH18607_1.4M_16-QAM_1RB0



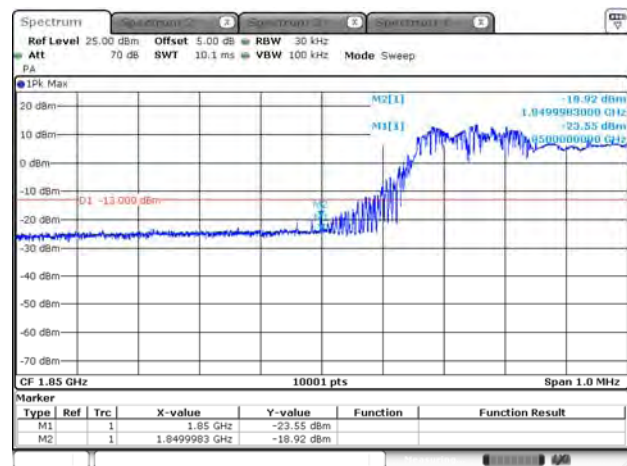
Date: 17.SEP.2018 10:43:07

Cat M1_Band 2_CH18607_1.4M_QPSK_6RB0



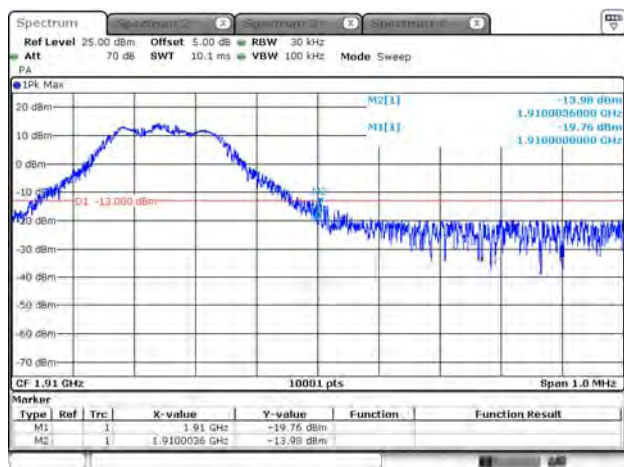
Date: 17.SEP.2018 10:40:50

Cat M1_Band 2_CH18607_1.4M_16-QAM_5RB1



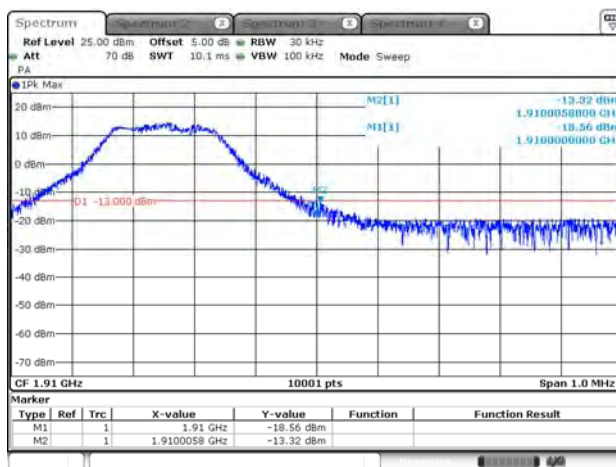
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Cat M1_Band 2_CH19193_1.4M_QPSK_1RB0



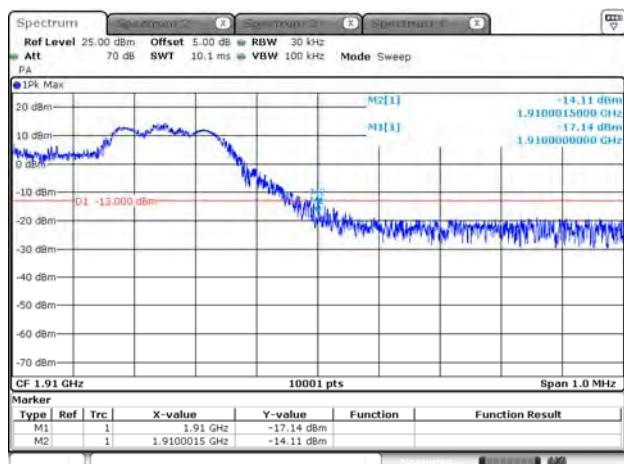
Date: 17 SEP 2018 11:01:11

Cat M1_Band 2_CH19193_1.4M_16-QAM_1RB5



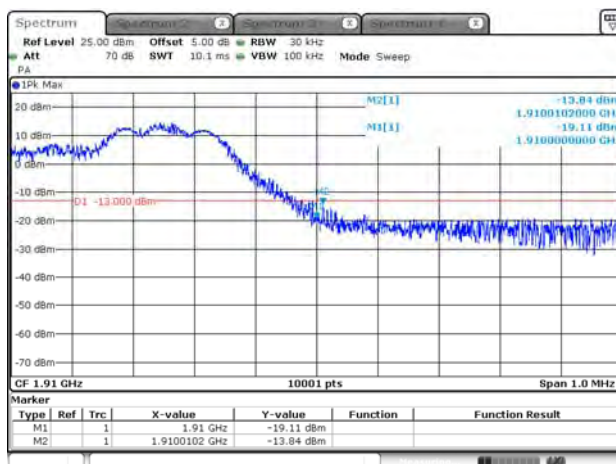
Date: 17 SEP 2018 10:59:39

Cat M1_Band 2_CH19193_1.4M_QPSK_6RB0



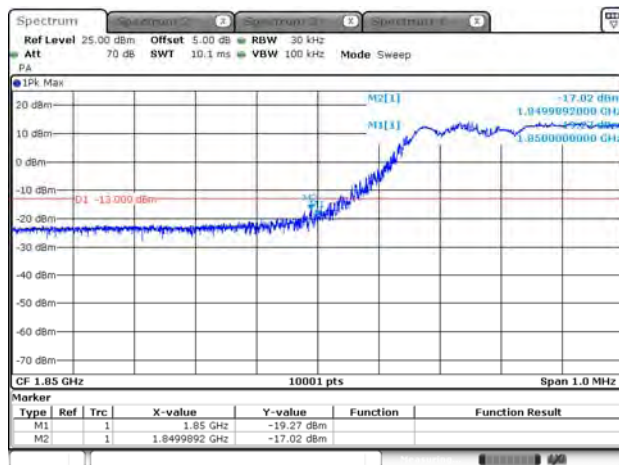
Date: 17 SEP 2018 11:22:00

Cat M1_Band 2_CH19193_1.4M_16-QAM_5RB1



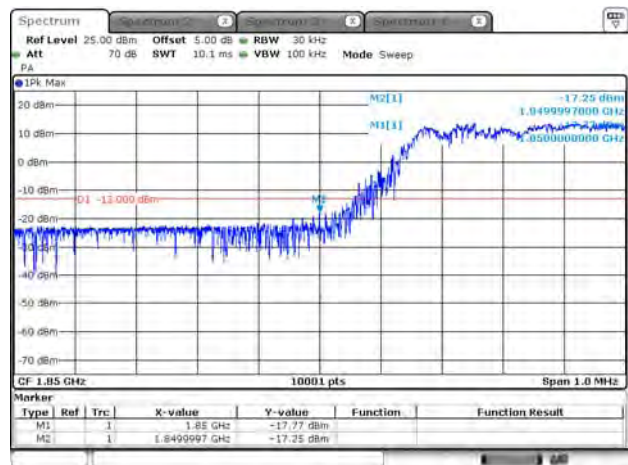
Date: 17 SEP 2018 10:57:44

Cat M1_Band 2_CH18615_3M_QPSK_1RB0



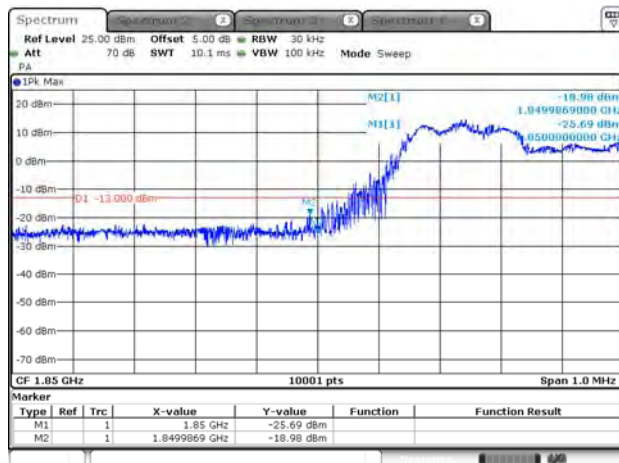
Date: 17 SEP 2018 11:42:57

Cat M1_Band 2_CH18615_3M_16-QAM_1RB0



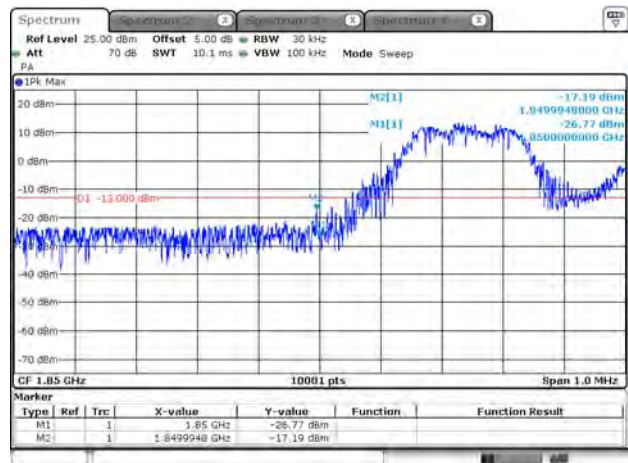
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Cat M1_Band 2_CH18615_3M_QPSK_6RB0



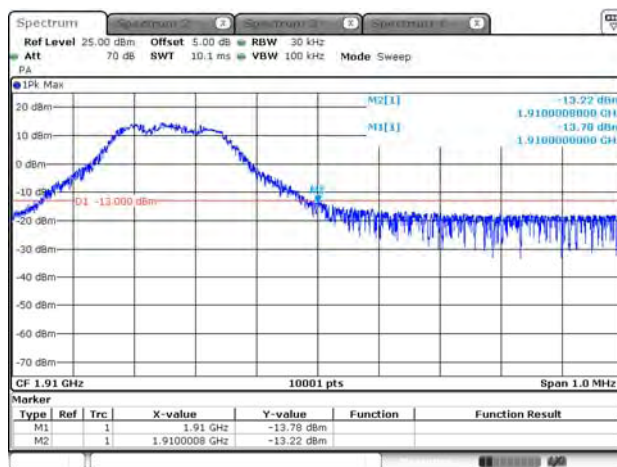
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Cat M1_Band 2_CH18615_3M_16-QAM_5RB1



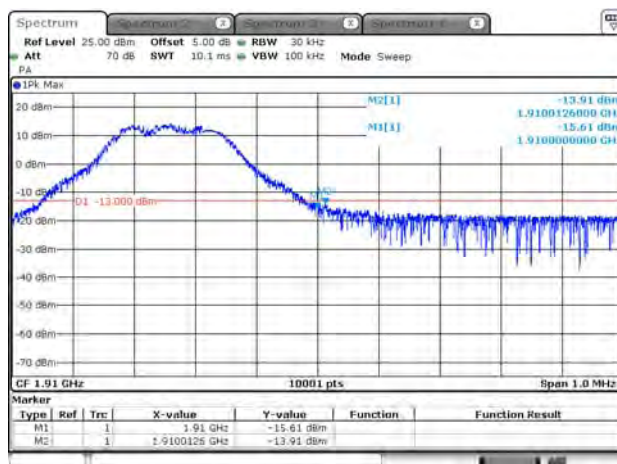
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Cat M1 Band 2 CH19185 3M 16-QAM 1RB5



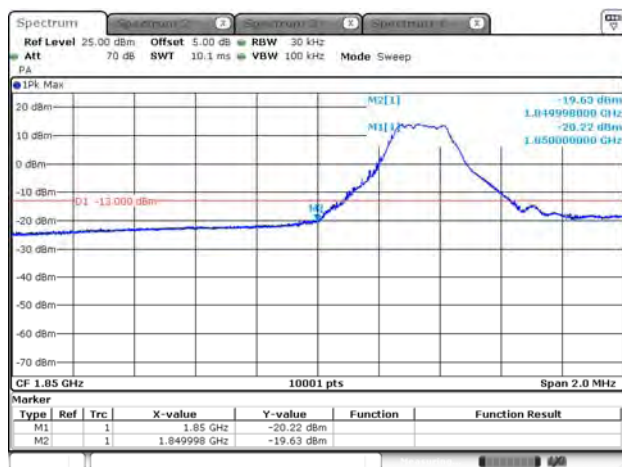
Date: 17 SEP 2018 11:35:59

Cat M1 Band 2 CH19185 3M 16-QAM 5RB1

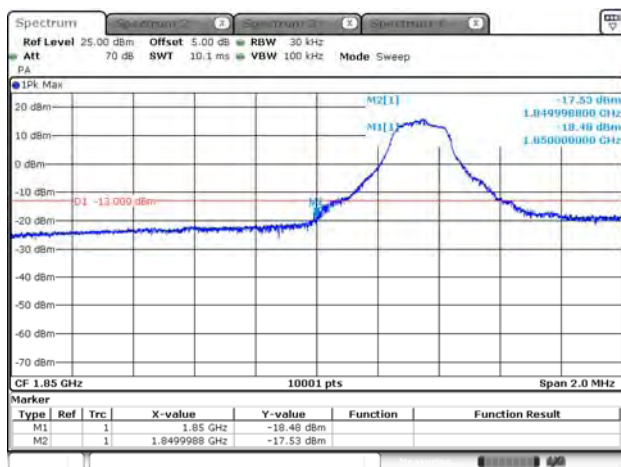


Date: 17 SEP 2018 11:37:00

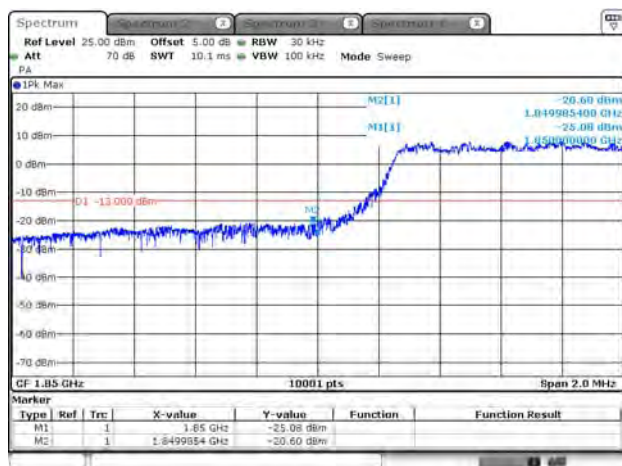
Cat M1_Band 2_CH18625_5M_QPSK_1RB0



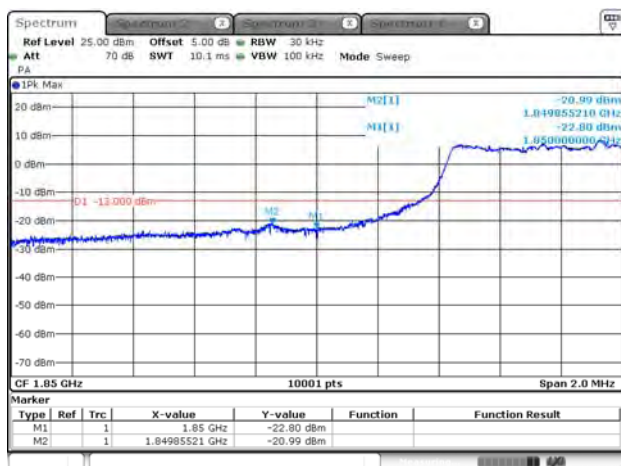
Cat M1_Band 2_CH18625_5M_16-QAM_1RB0



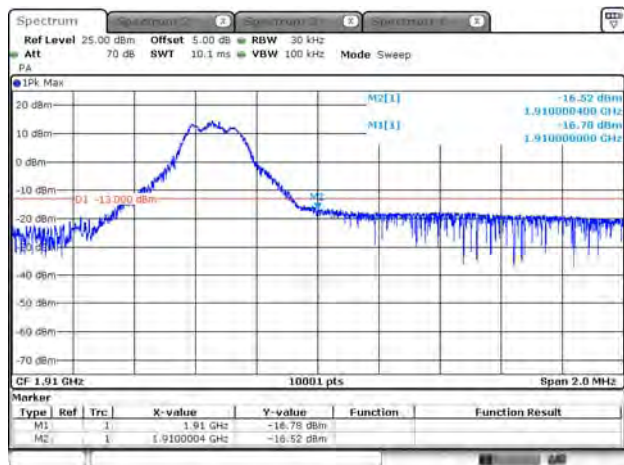
Cat M1_Band 2_CH18625_5M_QPSK_6RB0



Cat M1_Band 2_CH18625_5M_16-QAM_5RB1

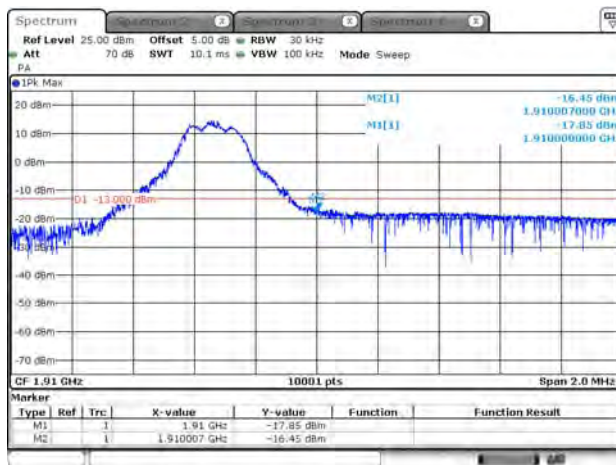


Cat M1_Band 2_CH19175_5M_QPSK_1RB0



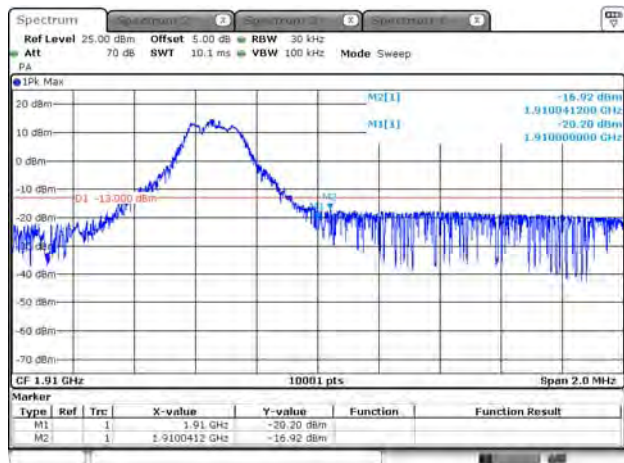
Date: 17 SEP 2018 14:33:12

Cat M1_Band 2_CH19175_5M_16-QAM_1RB5



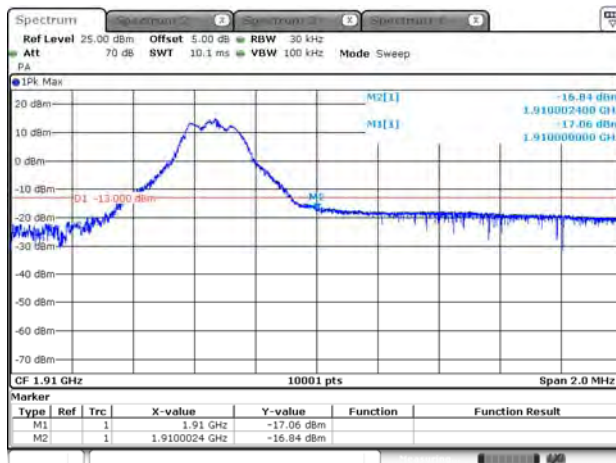
Date: 17 SEP 2018 14:33:16

Cat M1_Band 2_CH19175_5M_QPSK_6RB0



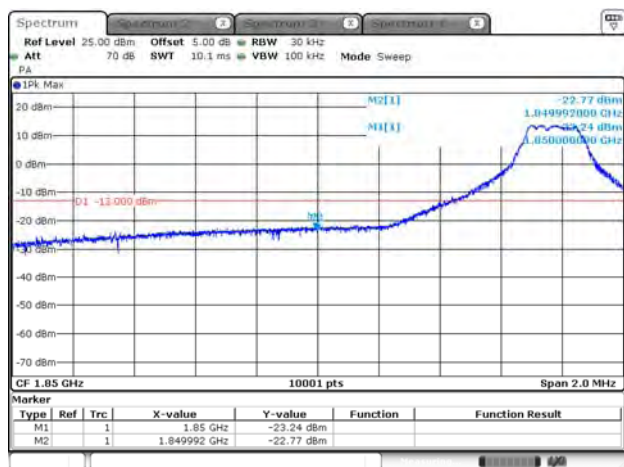
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Cat M1_Band 2_CH19175_5M_16-QAM_5RB1



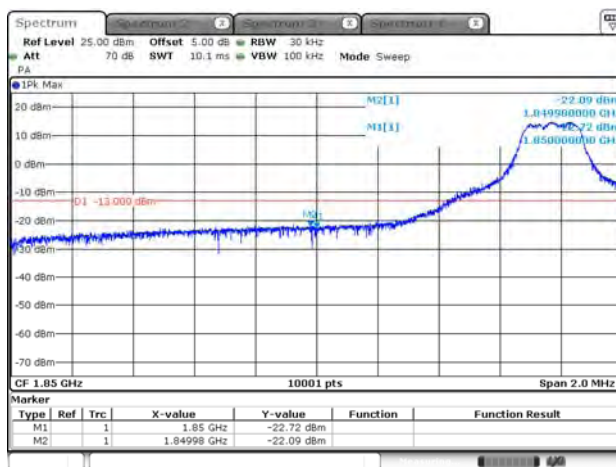
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Cat M1_Band 2_CH18650_10M_QPSK_1RB0



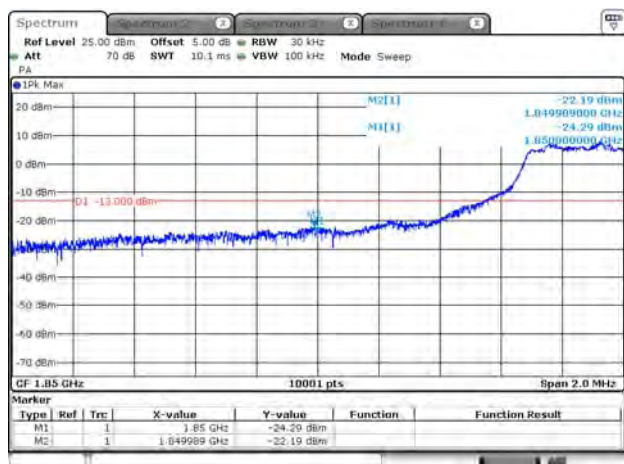
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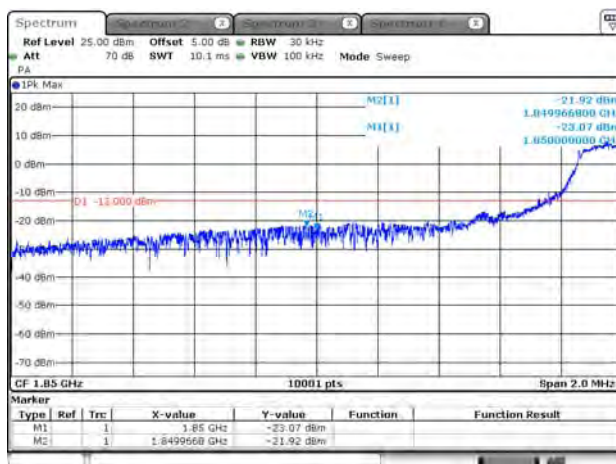
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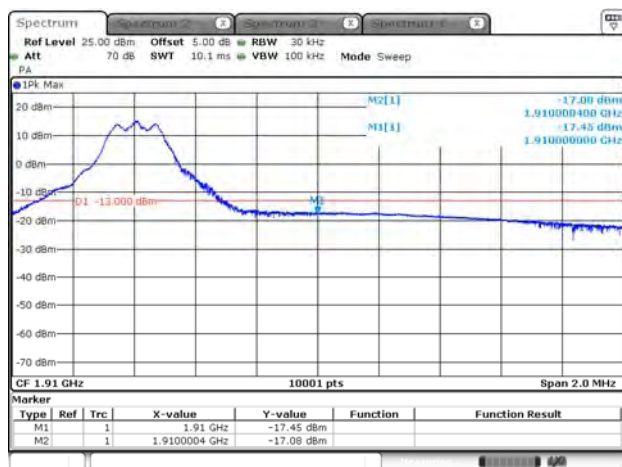
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Cat M1_Band 2_CH18650_10M_16-QAM_5RB1



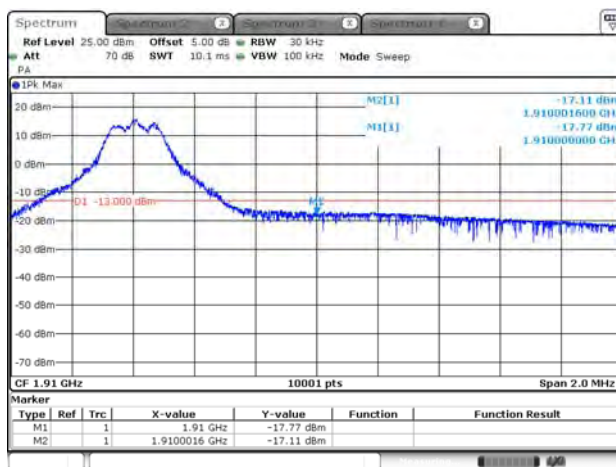
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Cat M1_Band 2_CH19150_10M_QPSK_1RB0



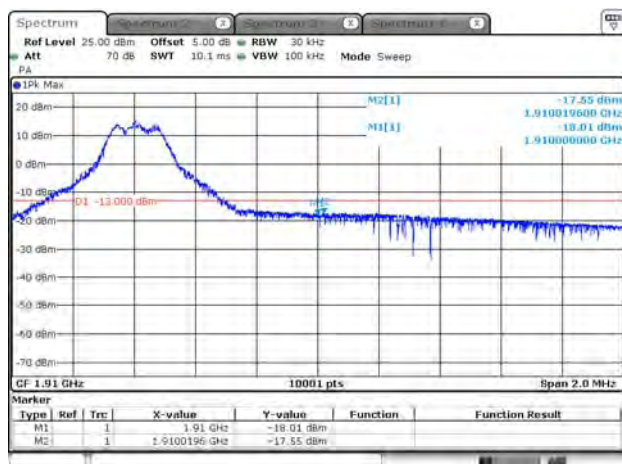
Date: 17 SEP 2018 15:14:55

Cat M1_Band 2_CH19150_10M_16-QAM_1RB5



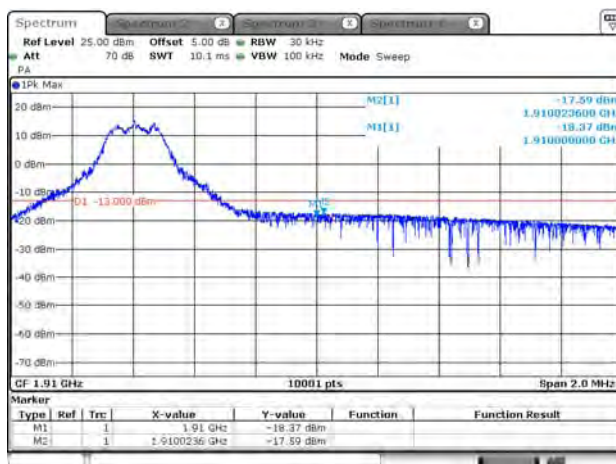
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Cat M1_Band 2_CH19150_10M_QPSK_6RB0



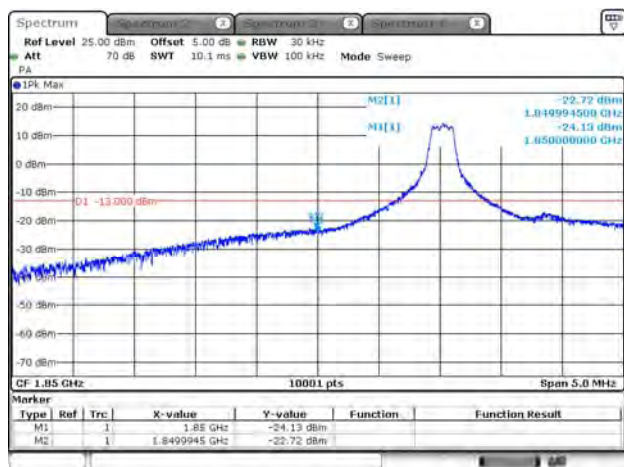
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Cat M1_Band 2_CH19150_10M_16-QAM_5RB1



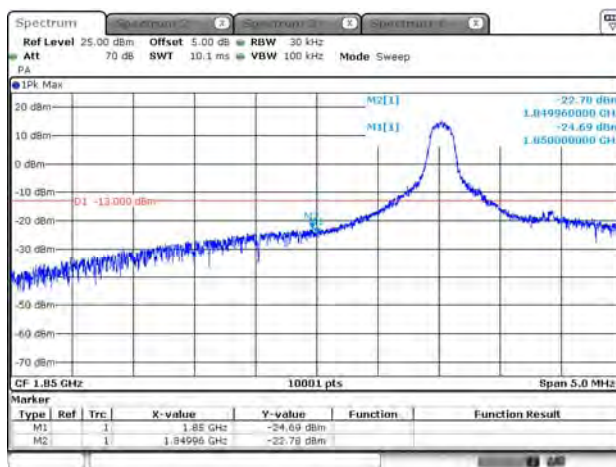
Date: 17 SEP 2018 14:49:39

Cat M1_Band 2_CH18675_15M_QPSK_1RB0



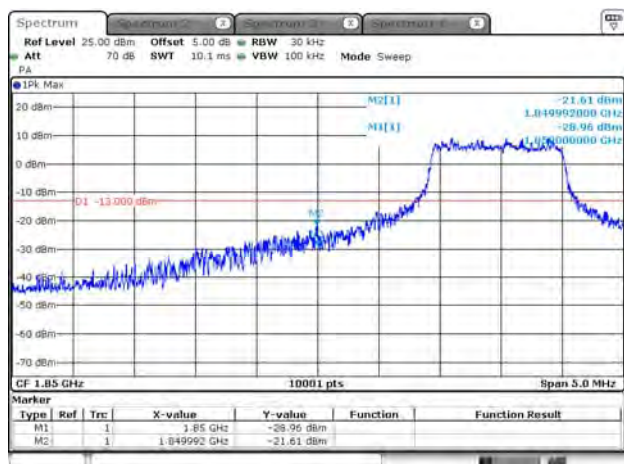
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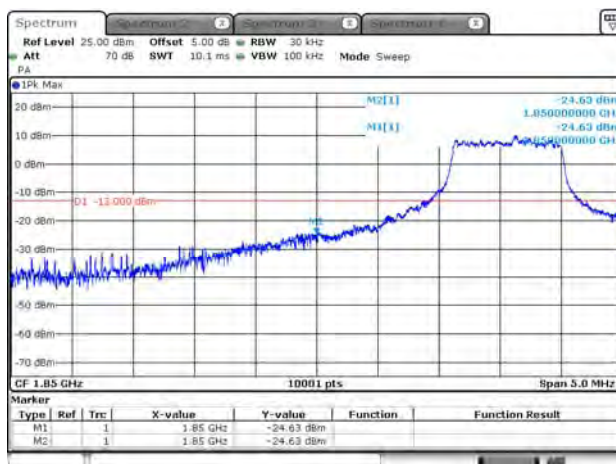
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Cat M1_Band 2_CH18675_15M_QPSK_6RB0



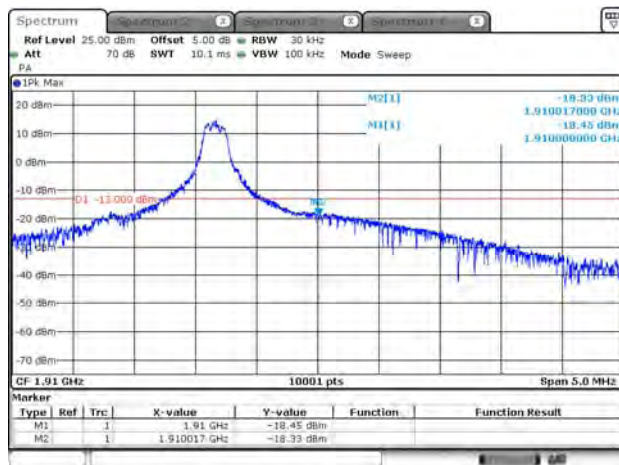
Date: 17 SEP 2018 16:02:17

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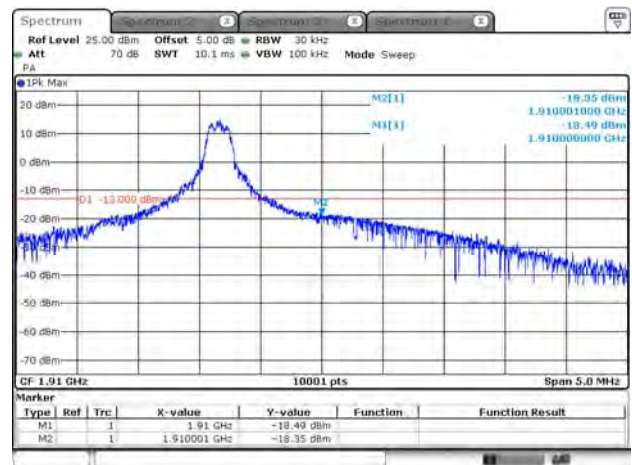
Date: 17 SEP 2018 15:47:12

Cat M1_Band 2_CH19125_15M_QPSK_1RB0



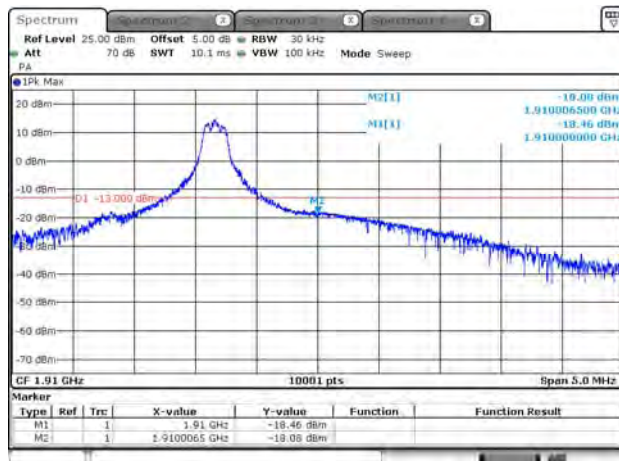
Date: 17 SEP 2018 16:11:48

Cat M1_Band 2_CH19125_15M_16-QAM_1RB5



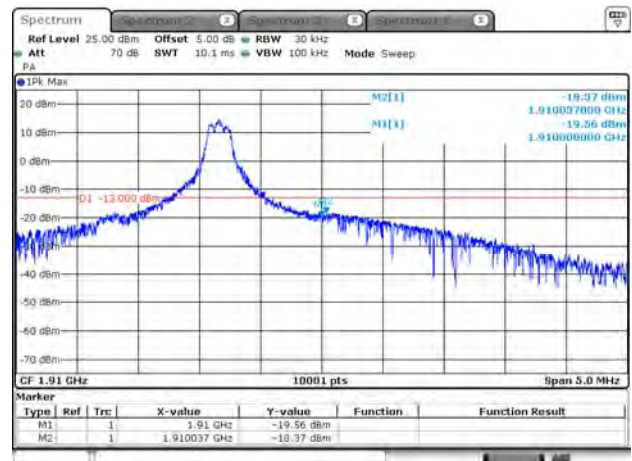
Date: 17 SEP 2018 16:25:27

Cat M1_Band 2_CH19125_15M_QPSK_6RB0



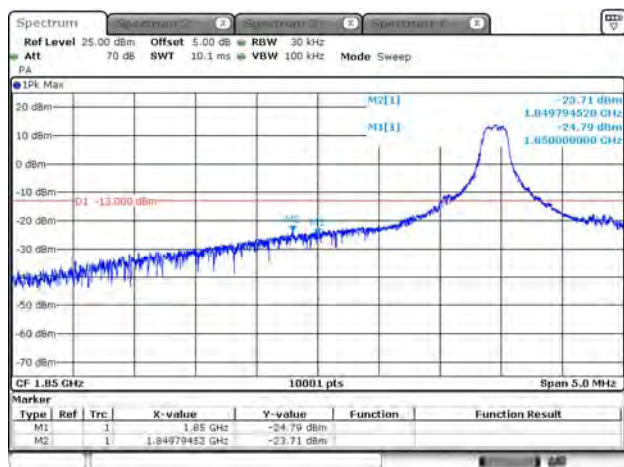
Date: 17 SEP 2018 16:23:00

Cat M1_Band 2_CH19125_15M_16-QAM_5RB1



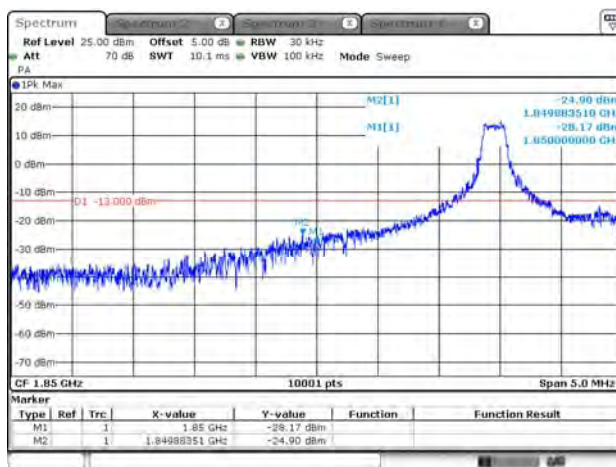
Date: 17 SEP 2018 16:24:20

Cat M1_Band 2_CH18700_20M_QPSK_1RB0



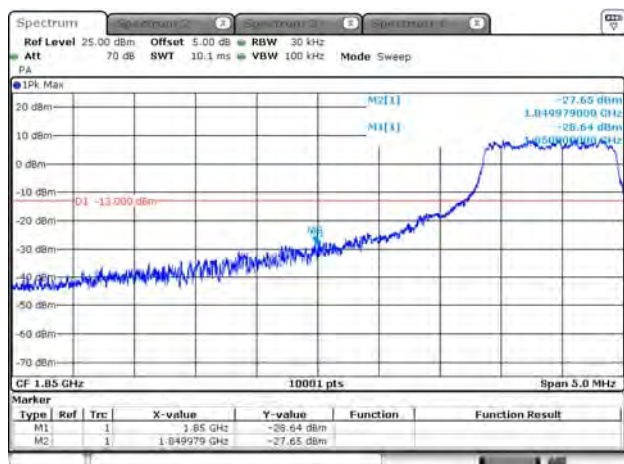
Date: 17 SEP 2018 16:51:43

Cat M1_Band 2_CH18700_20M_16-QAM_1RB0



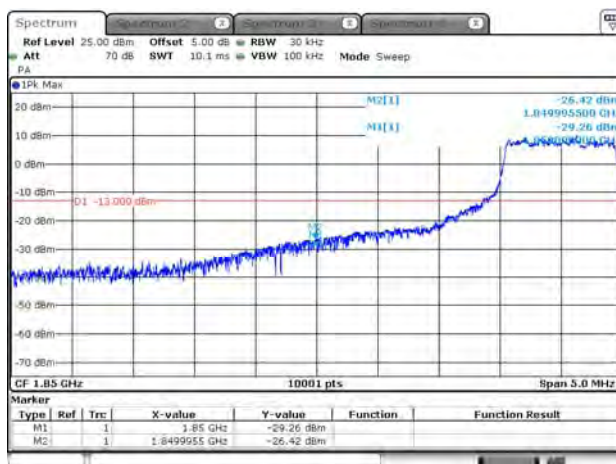
Date: 17 SEP 2018 17:02:10

Cat M1_Band 2_CH18700_20M_QPSK_6RB0



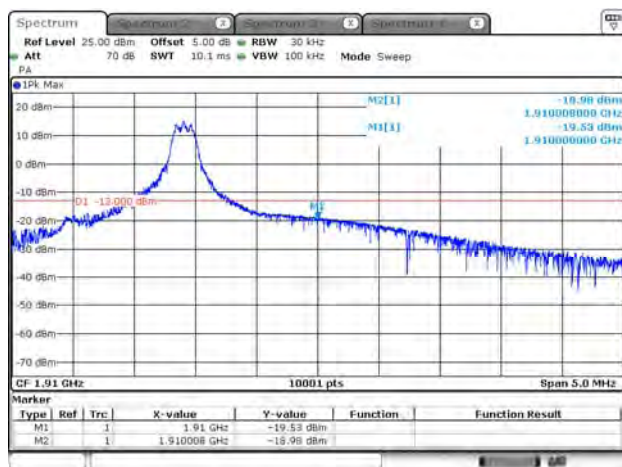
Date: 17 SEP 2018 16:57:22

Cat M1_Band 2_CH18700_20M_16-QAM_5RB1



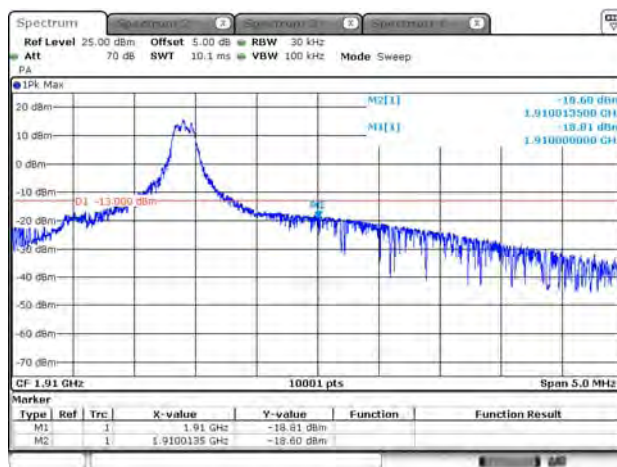
Date: 17 SEP 2018 17:00:39

Cat M1_Band 2_CH19100_20M_QPSK_1RB0



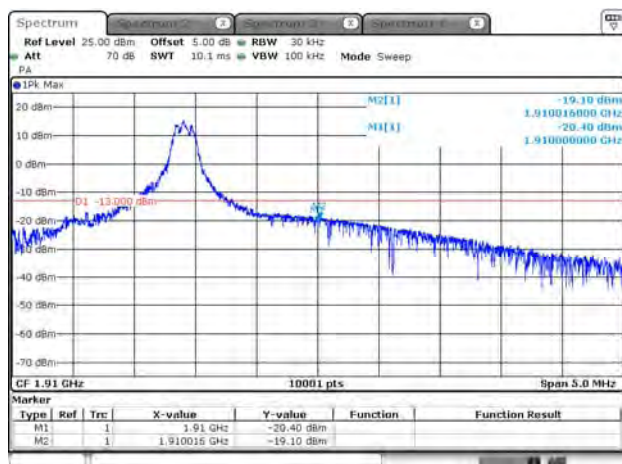
Date: 17 SEP 2018 16:37:40

Cat M1_Band 2_CH19100_20M_16-QAM_1RB5



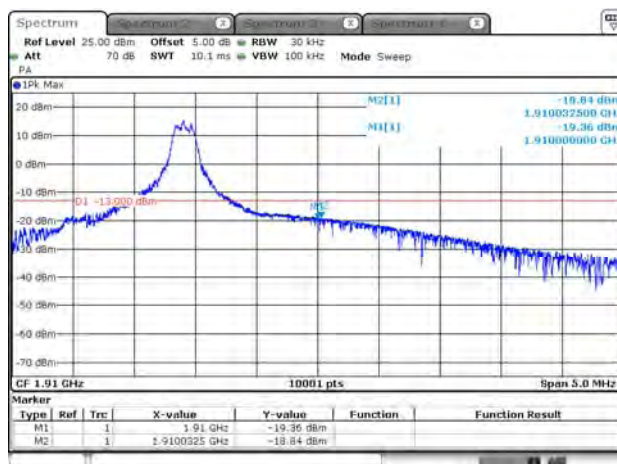
Date: 17 SEP 2018 16:28:14

Cat M1_Band 2_CH19100_20M_QPSK_6RB0



Date: 17 SEP 2018 16:35:28

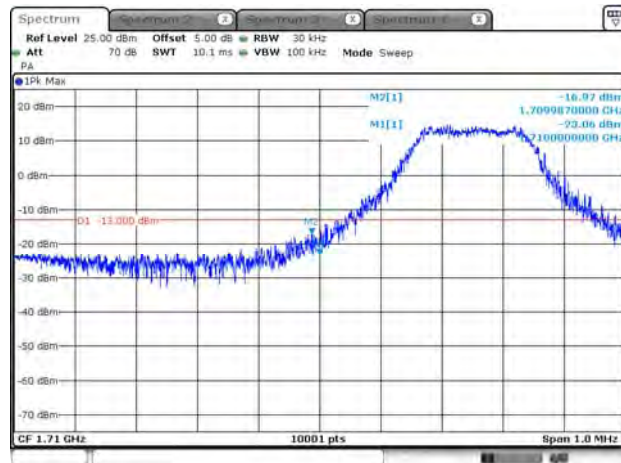
Cat M1_Band 2_CH19100_20M_16-QAM_5RB1



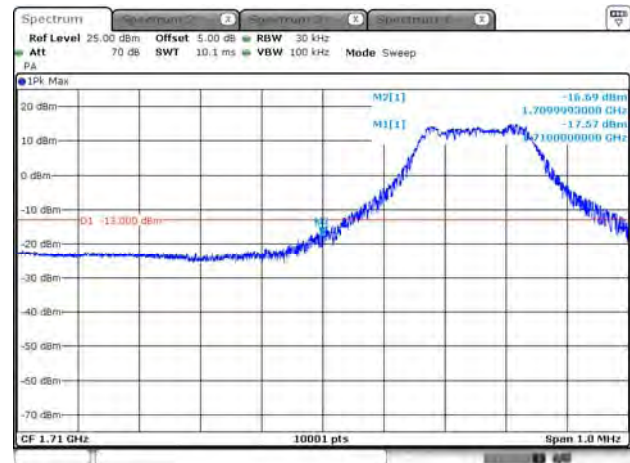
Date: 17 SEP 2018 16:31:40

Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/17	Test Site	SR10-H

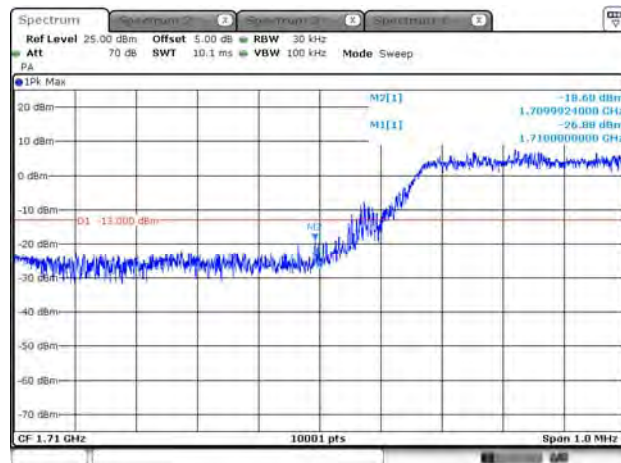
Cat M1_Band 4_CH19957_1.4M_QPSK_1RB0



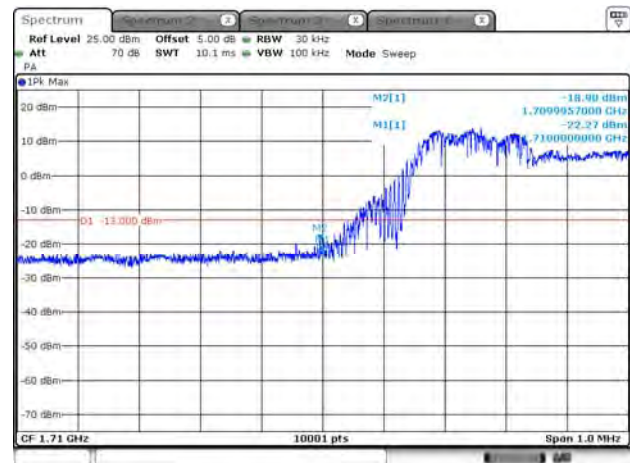
Cat M1_Band 4_CH19957_1.4M_16-QAM_1RB0



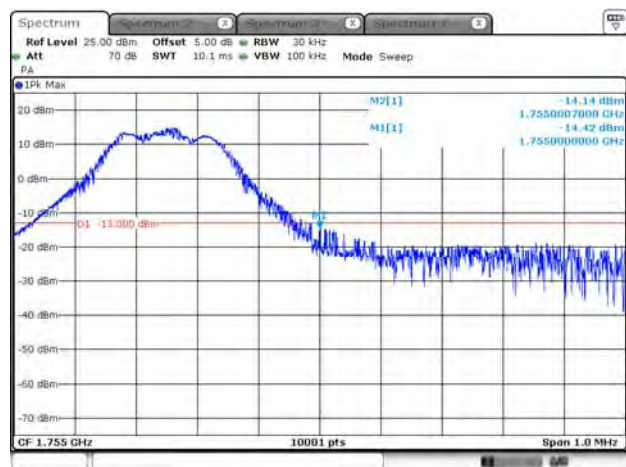
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Cat M1_Band 4_CH19957_1.4M_16-QAM_5RB1

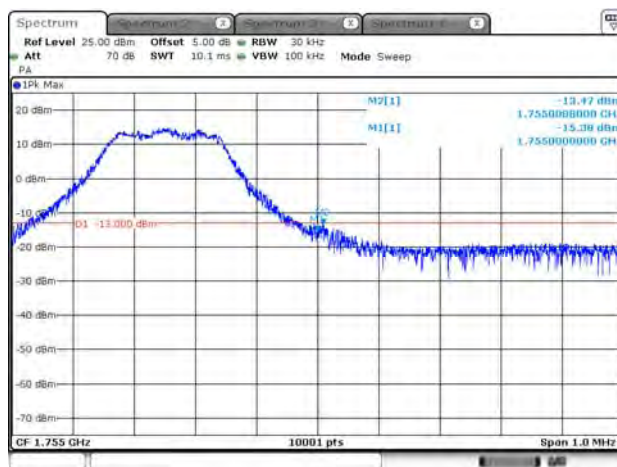


Cat M1_Band 4_CH20393_1.4M_QPSK_1RB0



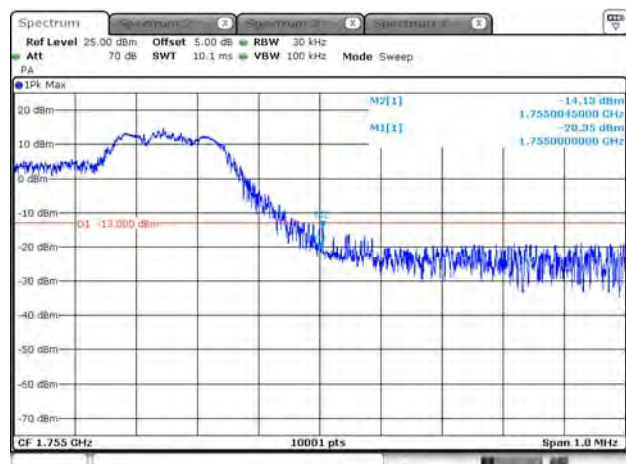
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Cat M1_Band 4_CH20393_1.4M_16-QAM_1RB5



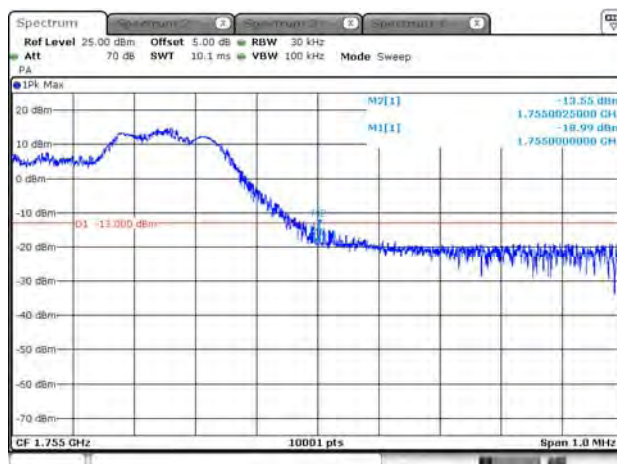
Date: 18 SEP 2018 11:12:57

Cat M1_Band 4_CH20393_1.4M_QPSK_6RB0



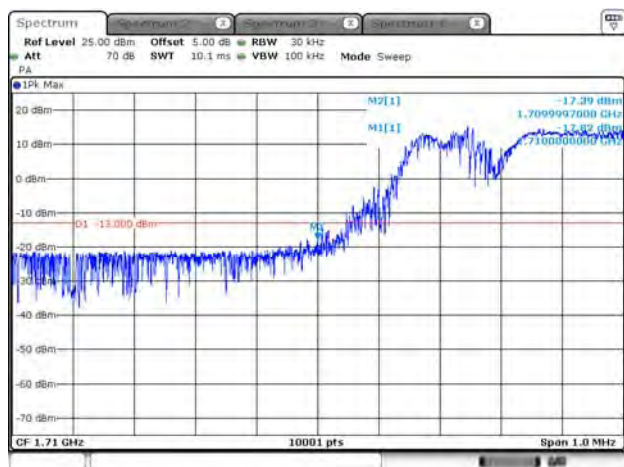
Date: 18 SEP 2018 11:24:40

Cat M1_Band 4_CH20393_1.4M_16-QAM_5RB1

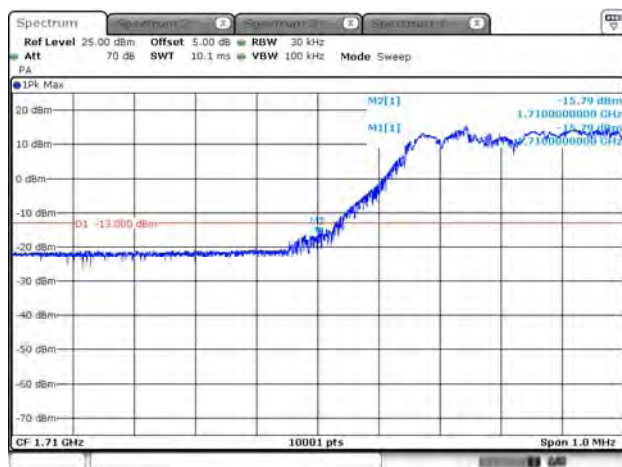


Date: 18 SEP 2018 11:15:06

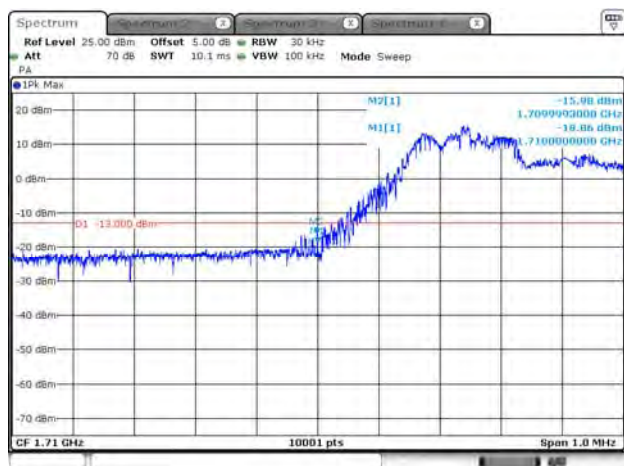
Cat M1_Band 4_CH19965_3M_QPSK_1RB0



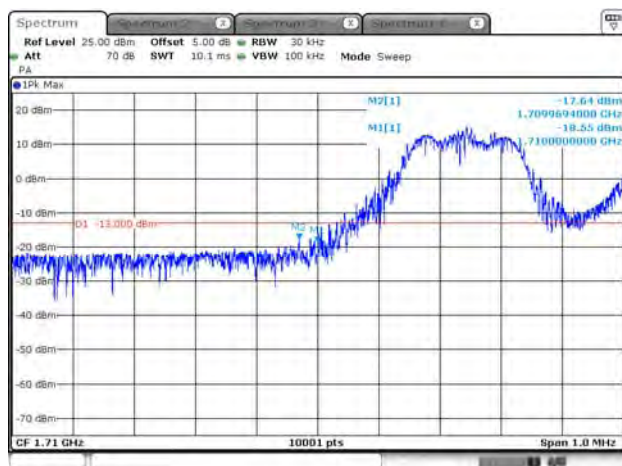
Cat M1_Band 4_CH19965_3M_16-QAM_1RB0



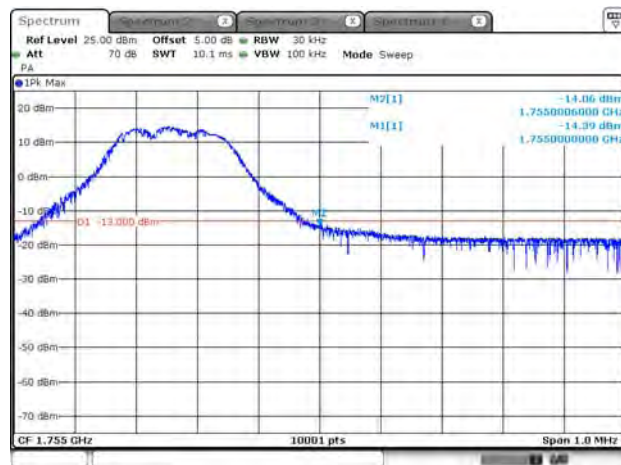
Cat M1_Band 4_CH19965_3M_QPSK_6RB0



Cat M1_Band 4_CH19965_3M_16-QAM_5RB1

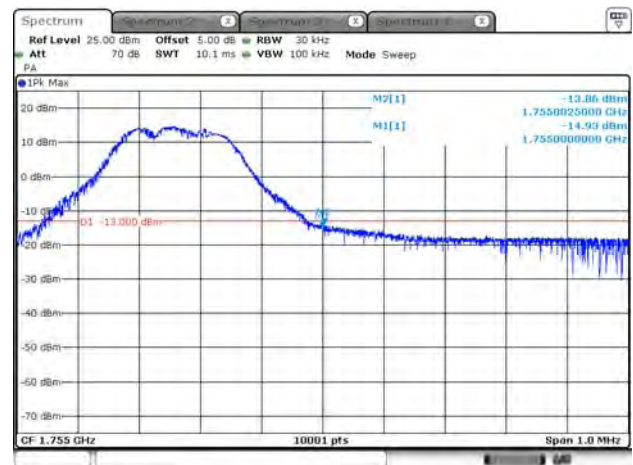


Cat M1_Band 4_CH20385_3M_QPSK_1RB0



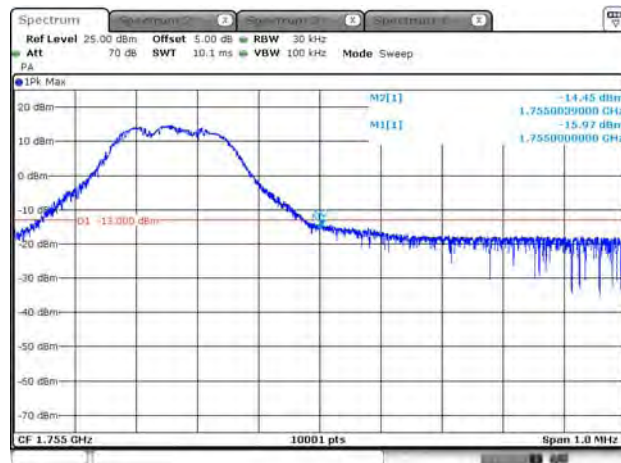
Date: 18 SEP 2018 12:13:10

Cat M1_Band 4_CH20385_3M_16-QAM_1RB5



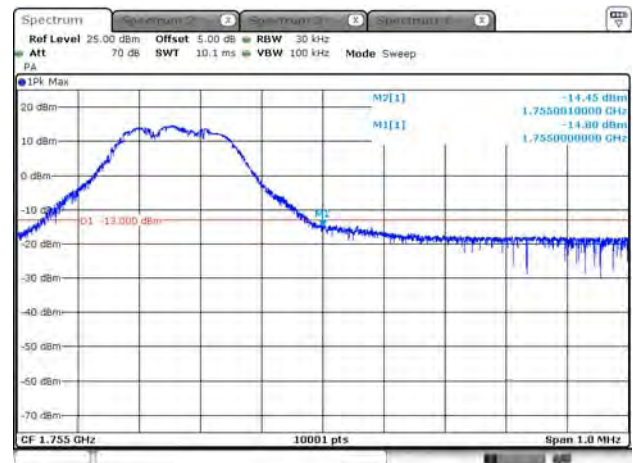
Date: 18 SEP 2018 12:00:03

Cat M1_Band 4_CH20385_3M_QPSK_6RB0



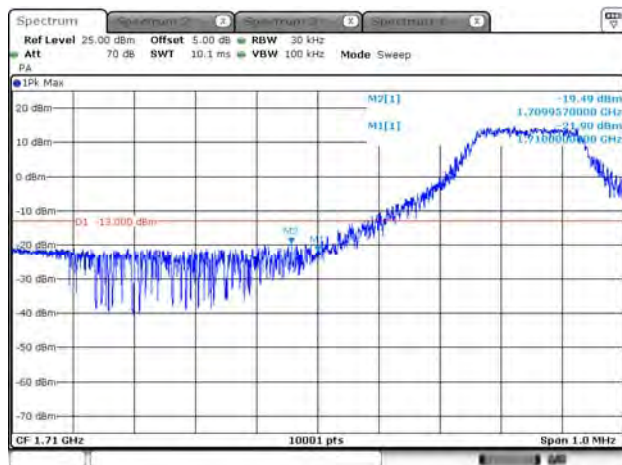
Date: 18 SEP 2018 12:11:48

Cat M1_Band 4_CH20385_3M_16-QAM_5RB1

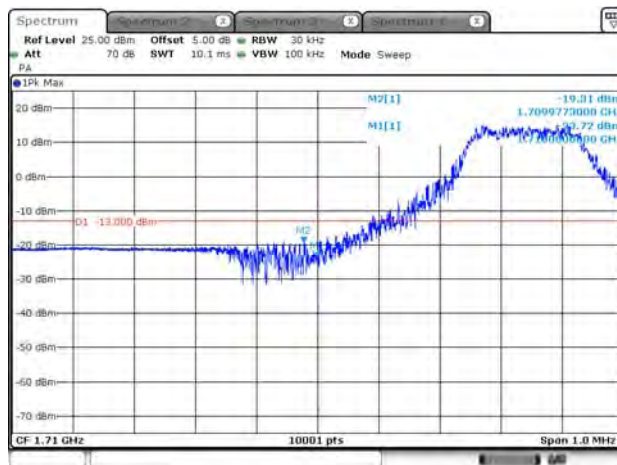


Date: 18 SEP 2018 12:01:41

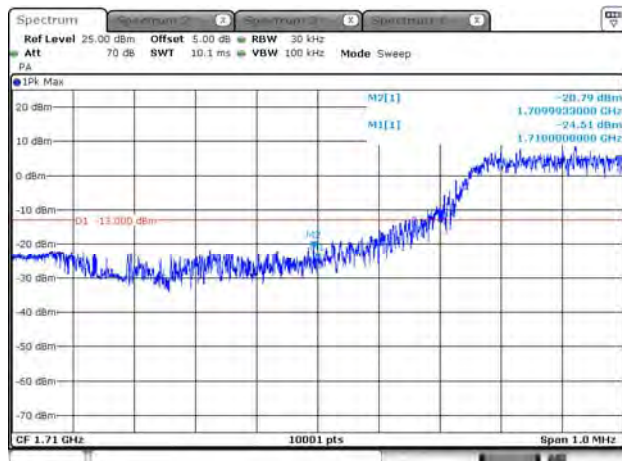
Cat M1_Band 4_CH19975_5M_QPSK_1RB0



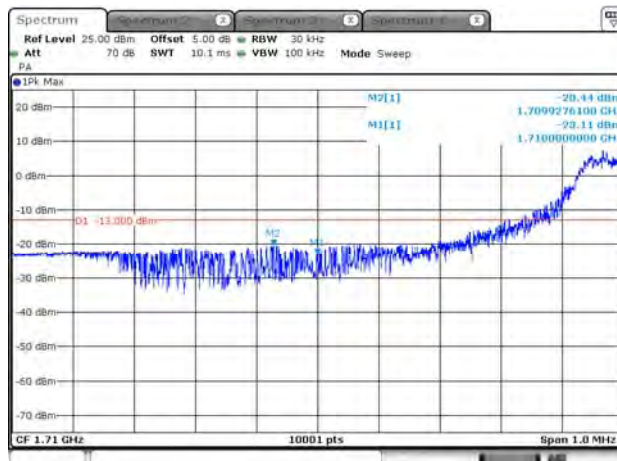
Cat M1_Band 4_CH19975_5M_16-QAM_1RB0



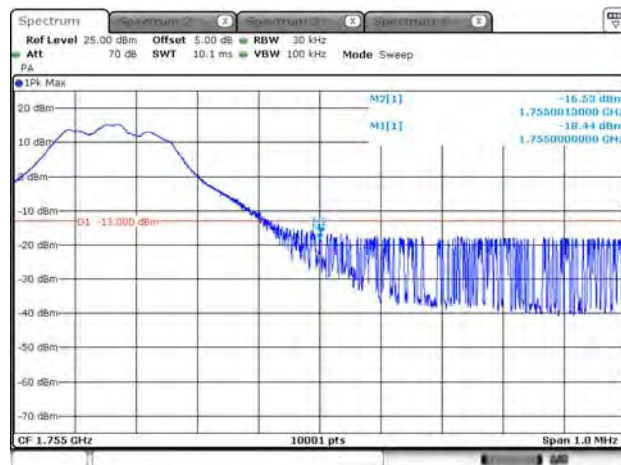
Cat M1_Band 4_CH19975_5M_QPSK_6RB0



Cat M1_Band 4_CH19975_5M_16-QAM_5RB1

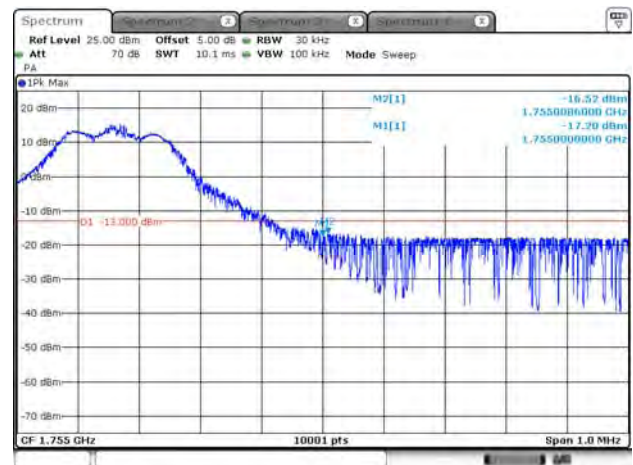


Cat M1_Band 4_CH20375_5M_QPSK_1RB0



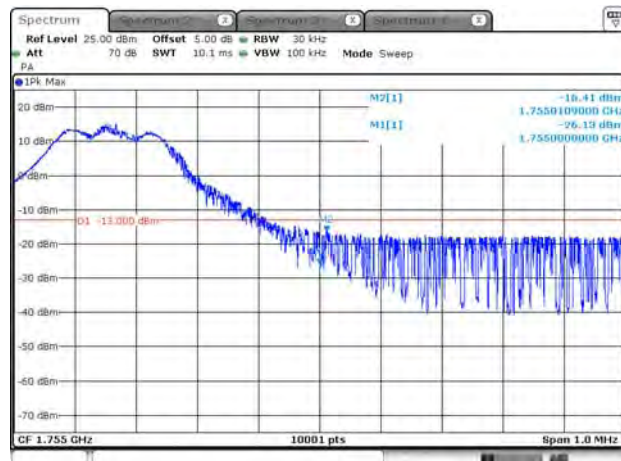
Date: 18 SEP 2018 13:30:03

Cat M1_Band 4_CH20375_5M_16-QAM_1RB5



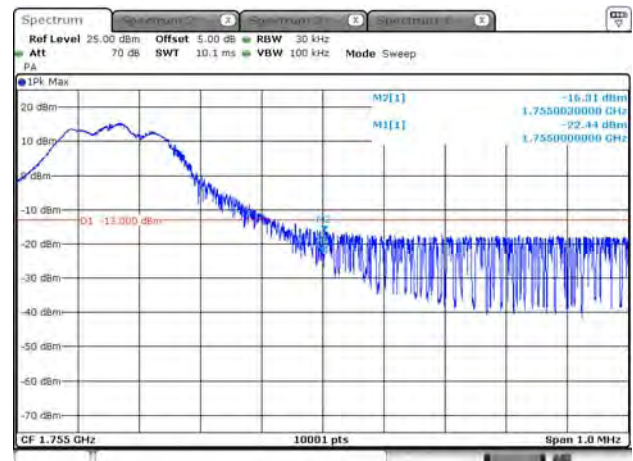
Date: 18 SEP 2018 13:42:50

Cat M1_Band 4_CH20375_5M_QPSK_6RB0



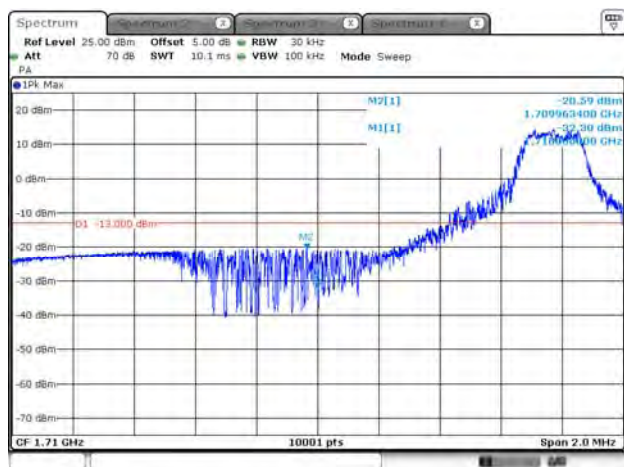
Date: 18 SEP 2018 13:38:22

Cat M1_Band 4_CH20375_5M_16-QAM_5RB1

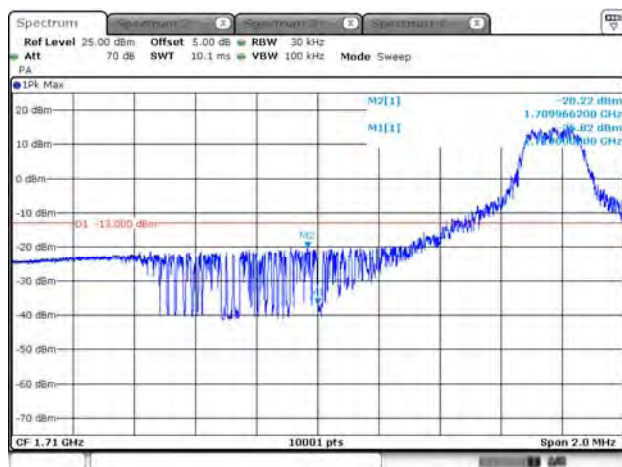


Date: 18 SEP 2018 13:40:52

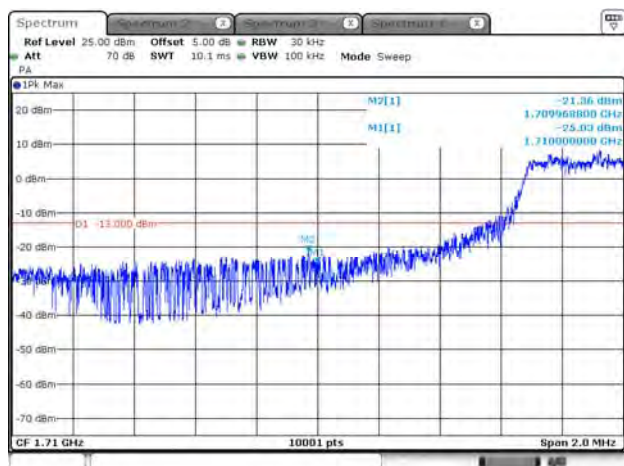
Cat M1_Band 4_CH20000_10M_QPSK_1RB0



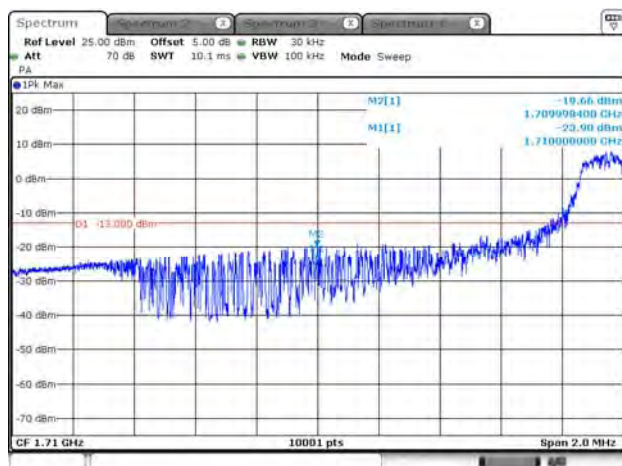
Cat M1_Band 4_CH20000_10M_16-QAM_1RB0



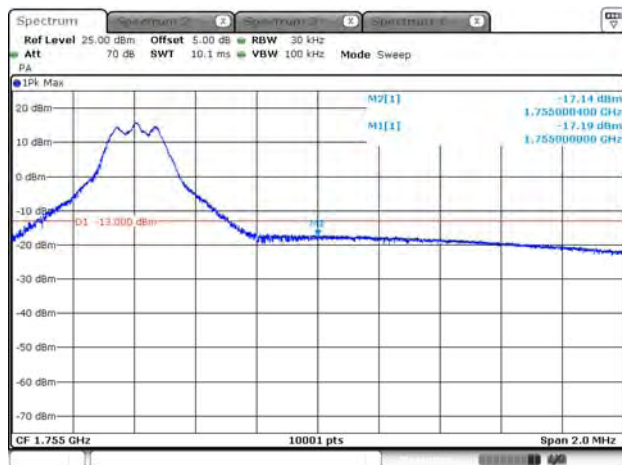
Cat M1_Band 4_CH20000_10M_QPSK_6RB0



Cat M1_Band 4_CH20000_10M_16-QAM_5RB1

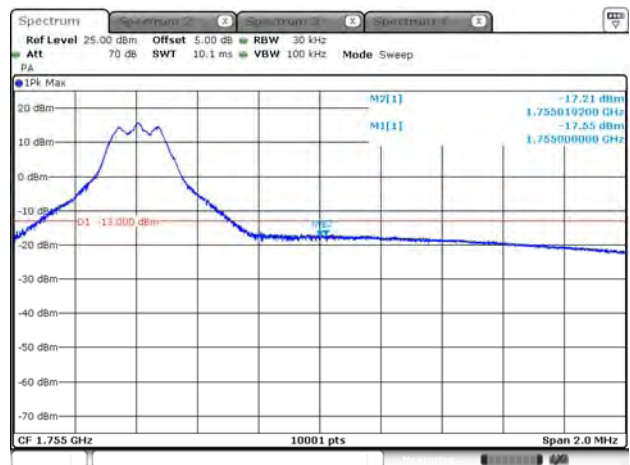


Cat M1_Band 4_CH20350_10M_QPSK_1RB0



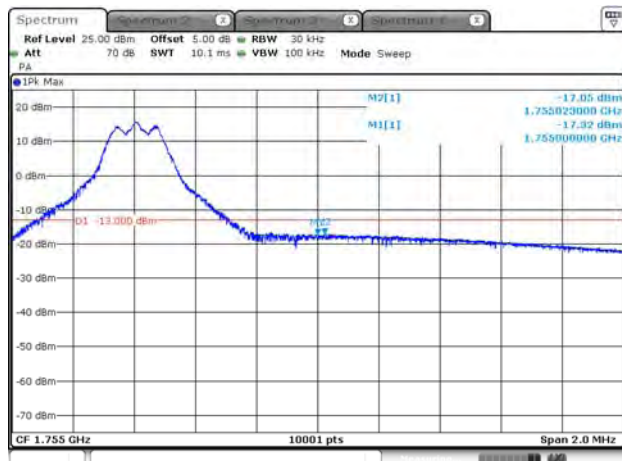
Date: 18 SEP 2018 14:48:13

Cat M1_Band 4_CH20350_10M_16-QAM_1RB5



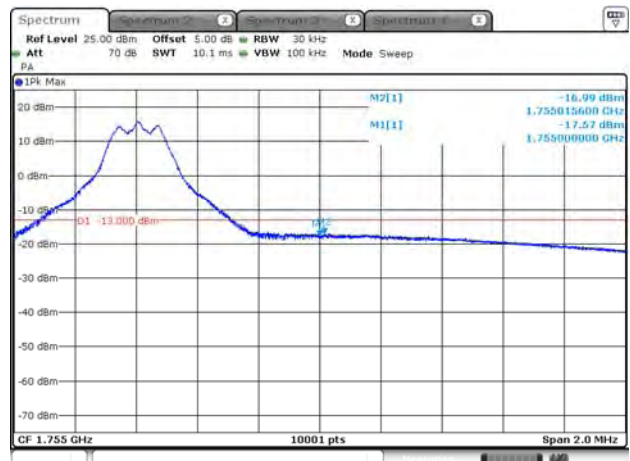
Date: 18 SEP 2018 14:32:11

Cat M1_Band 4_CH20350_10M_QPSK_6RB0



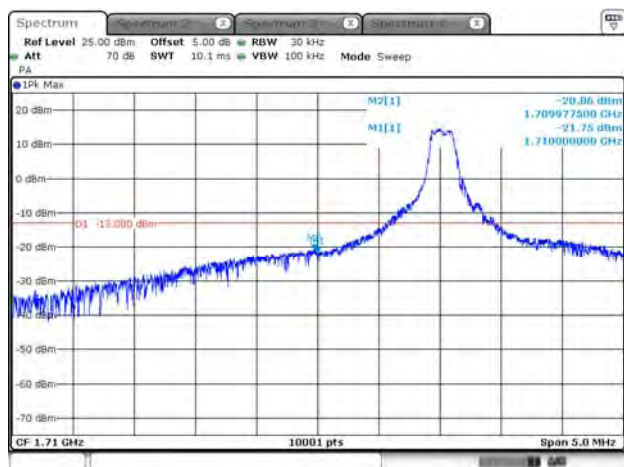
Date: 18 SEP 2018 14:54:44

Cat M1_Band 4_CH20350_10M_16-QAM_5RB1



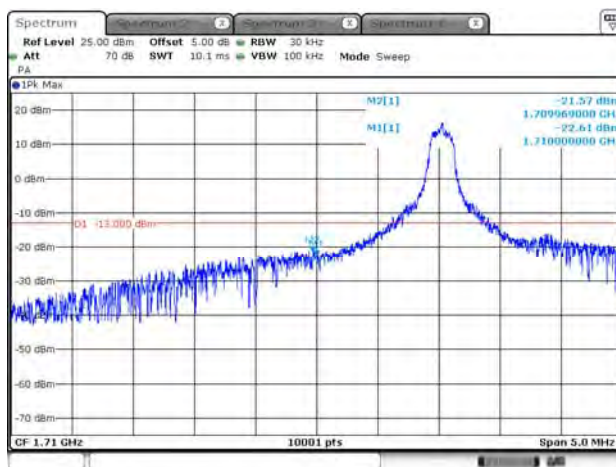
Date: 18 SEP 2018 14:43:00

Cat M1_Band 4_CH20025_15M_QPSK_1RB0



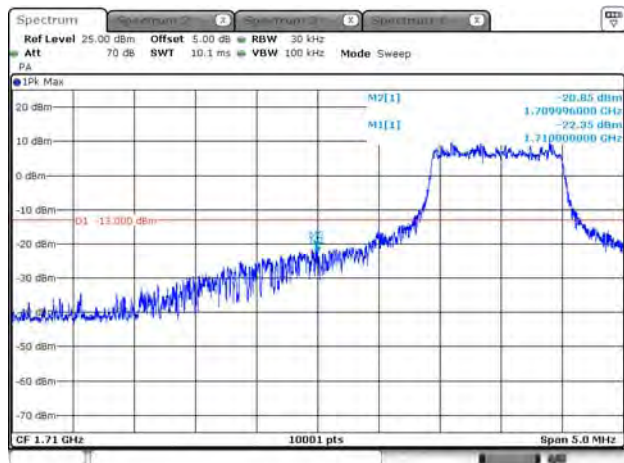
Date: 18 SEP 2018 15:59:43

Cat M1_Band 4_CH20025_15M_16-QAM_1RB0



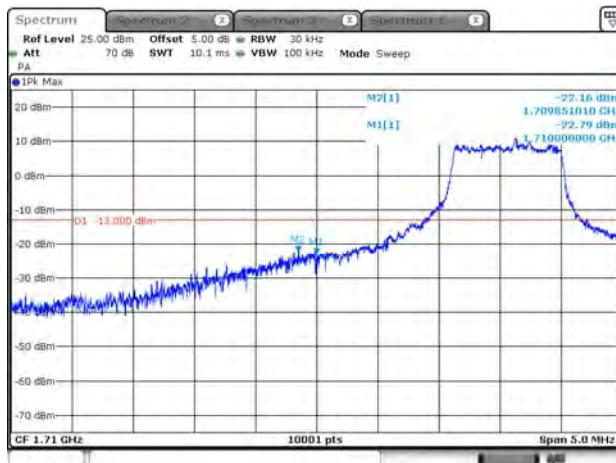
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Cat M1_Band 4_CH20025_15M_QPSK_6RB0



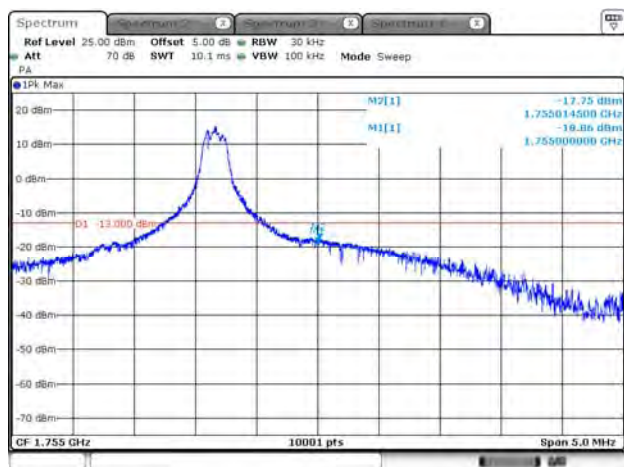
Date: 18 SEP 2018 15:56:36

Cat M1_Band 4_CH20025_15M_16-QAM_5RB1



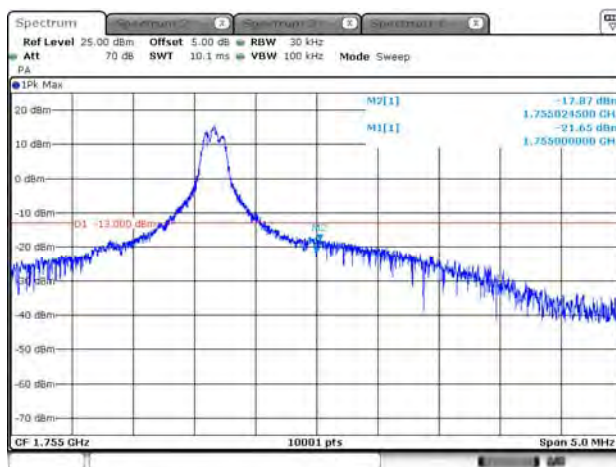
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Cat M1_Band 4_CH20325_15M_QPSK_1RB0



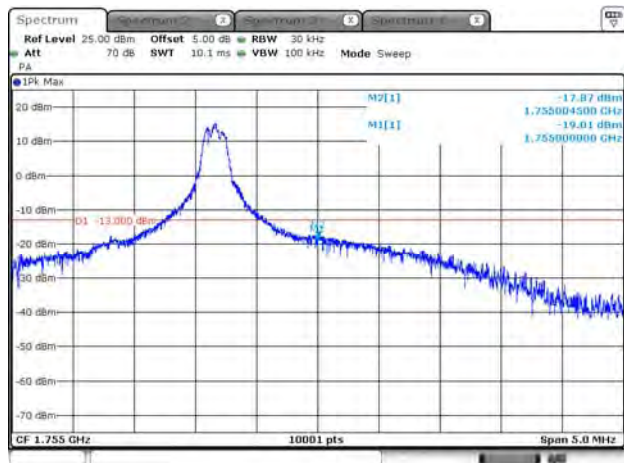
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Cat M1_Band 4_CH20325_15M_16-QAM_1RB5



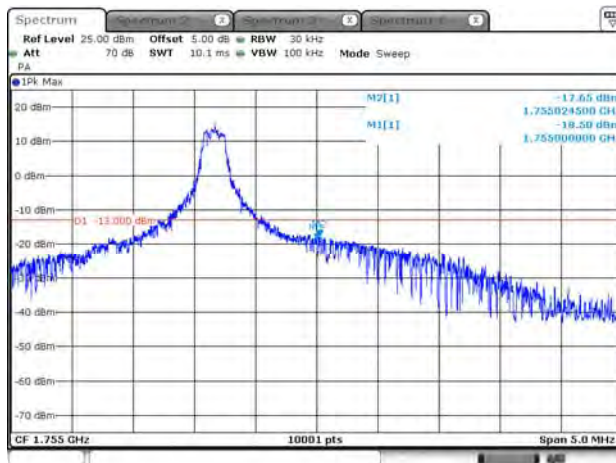
Date: 18 SEP 2018 15:17:24

Cat M1_Band 4_CH20325_15M_QPSK_6RB0



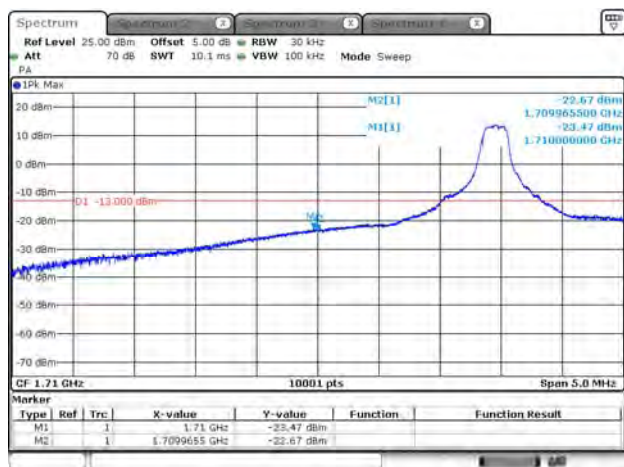
Date: 18 SEP 2018 15:01:04

Cat M1_Band 4_CH20325_15M_16-QAM_5RB1



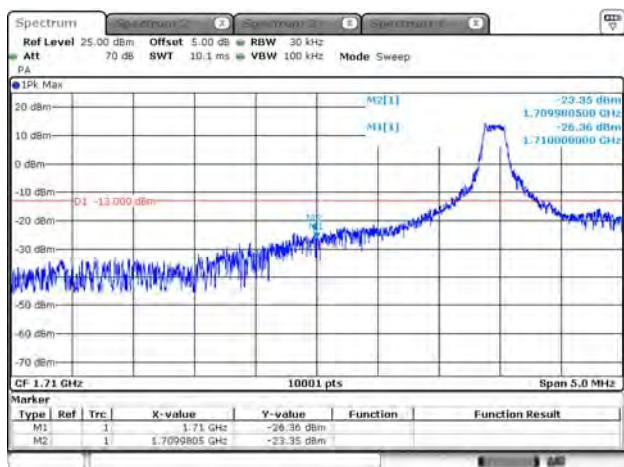
Date: 18 SEP 2018 15:19:36

Cat M1_Band 4_CH20050_20M_QPSK_1RB0



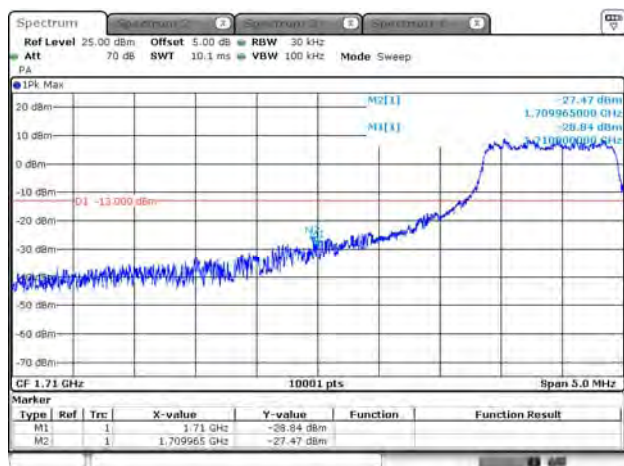
Date: 17 SEP 2018 17:24:48

Cat M1_Band 4_CH20050_20M_16-QAM_1RB0



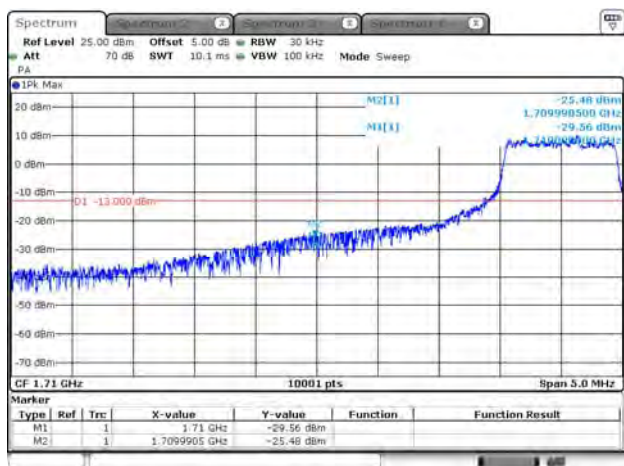
Date: 17 SEP 2018 17:34:07

Cat M1_Band 4_CH20050_20M_QPSK_6RB0



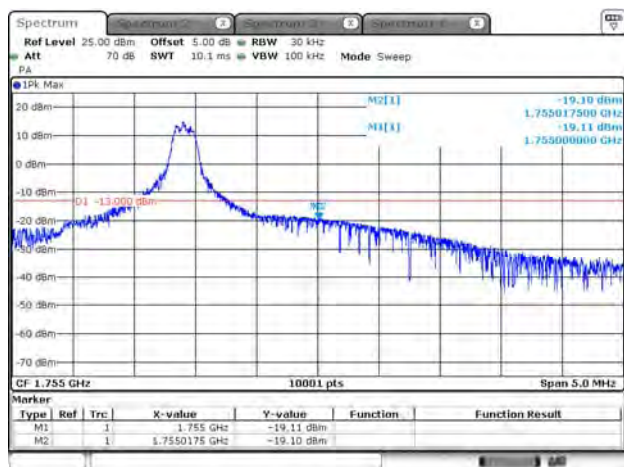
Date: 17 SEP 2018 17:32:48

Cat M1_Band 4_CH20050_20M_16-QAM_5RB1



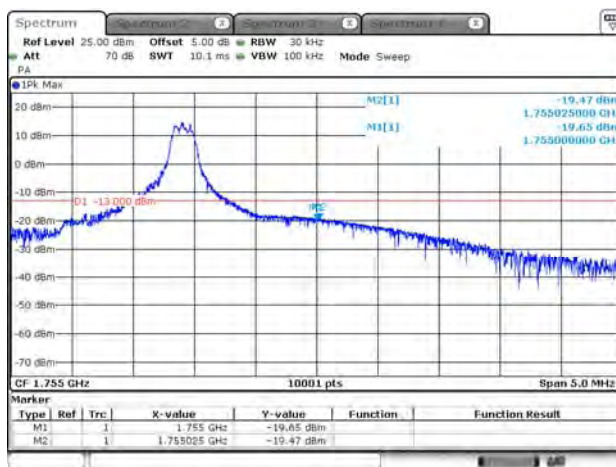
Date: 17 SEP 2018 17:36:44

Cat M1_Band 4_CH20300_20M_QPSK_1RB0



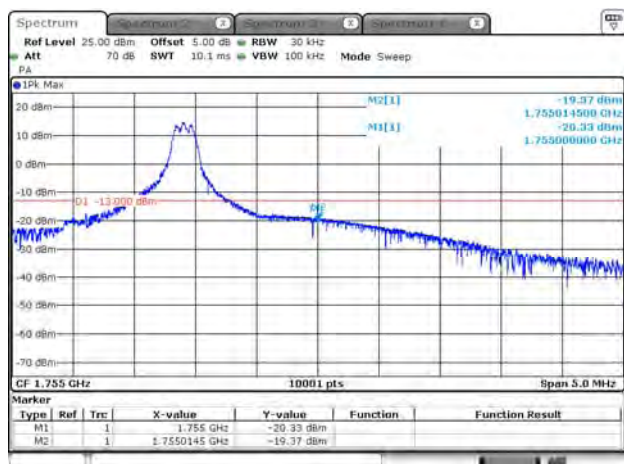
Date: 17 SEP 2018 16:04:19

Cat M1_Band 4_CH20300_20M_16-QAM_1RB5



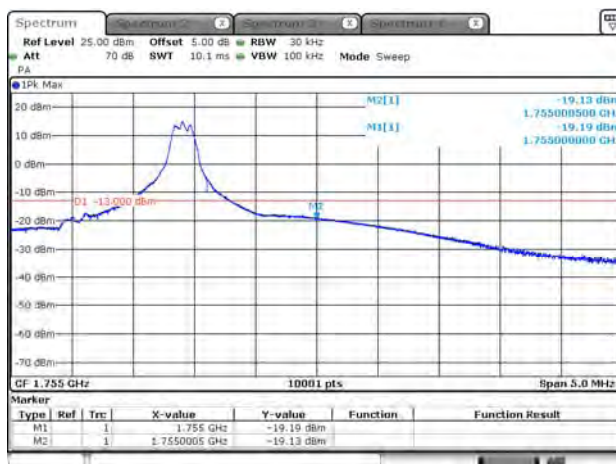
Date: 17 SEP 2018 17:58:15

Cat M1_Band 4_CH20300_20M_QPSK_6RB0



Date: 17 SEP 2018 16:03:20

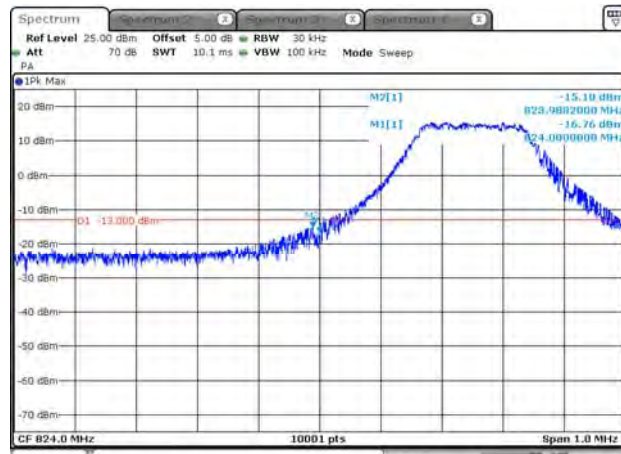
Cat M1_Band 4_CH20300_20M_16-QAM_5RB1



Date: 17 SEP 2018 17:56:58

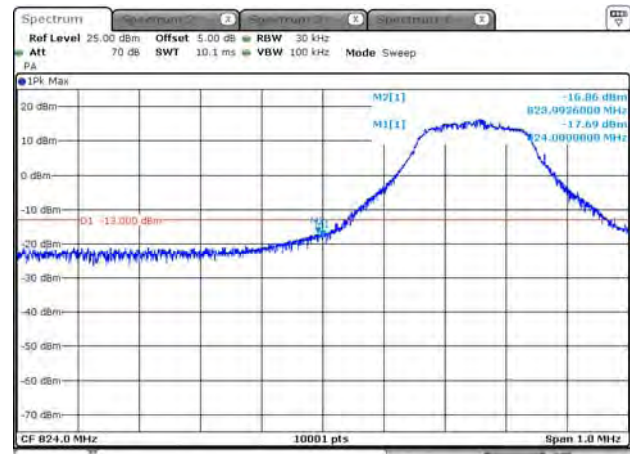
Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/18	Test Site	SR10-H

Cat M1_Band 5_CH20407_1.4M_QPSK_1RB0



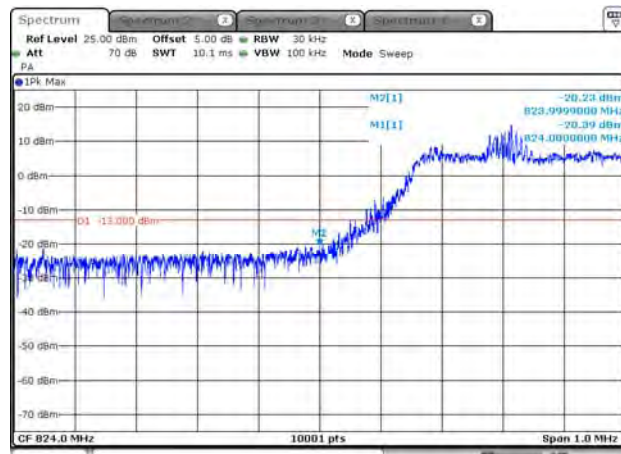
Date: 18 SEP 2018 16:04:25

Cat M1_Band 5_CH20407_1.4M_16-QAM_1RB0



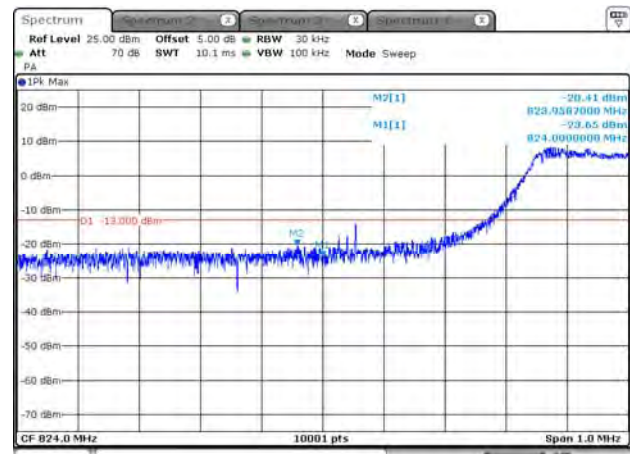
Date: 18 SEP 2018 16:09:19

Cat M1_Band 5_CH20407_1.4M_QPSK_6RB0



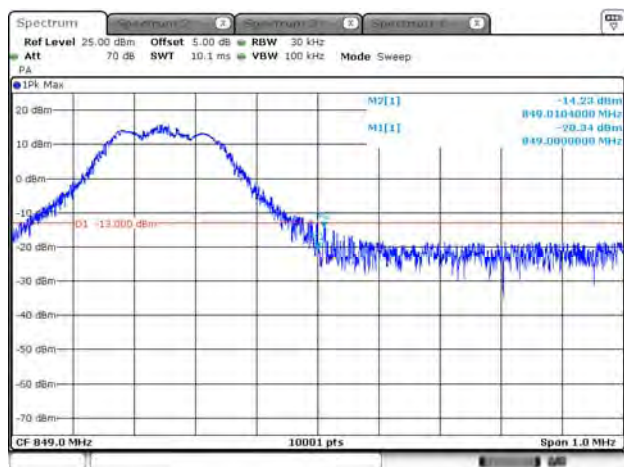
Date: 18 SEP 2018 16:06:05

Cat M1_Band 5_CH20407_1.4M_16-QAM_5RB1



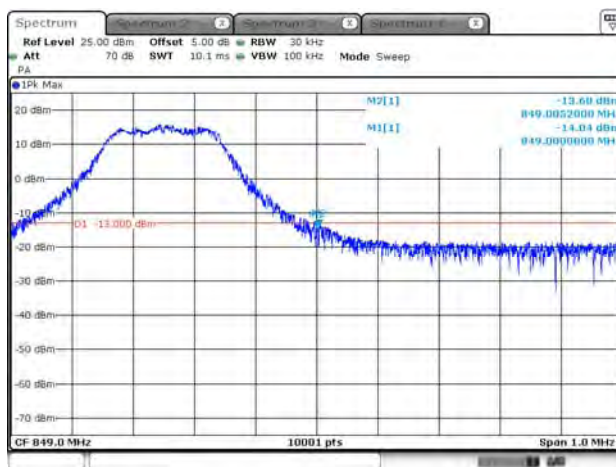
Date: 18 SEP 2018 16:13:17

Cat M1_Band 5_CH20643_1.4M_QPSK_1RB0



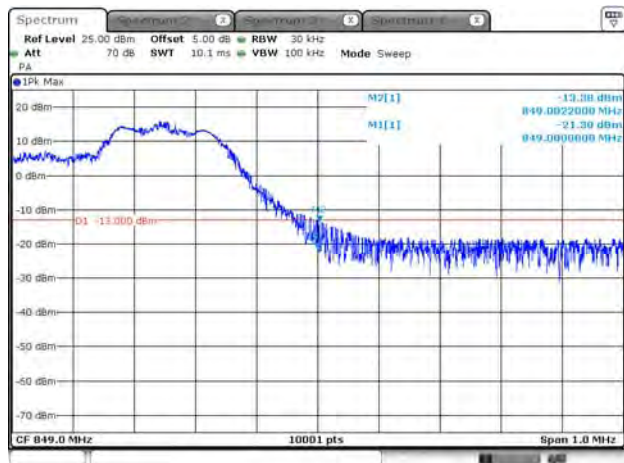
Date: 18 SEP 2018 16:21:31

Cat M1_Band 5_CH20643_1.4M_16-QAM_1RB5



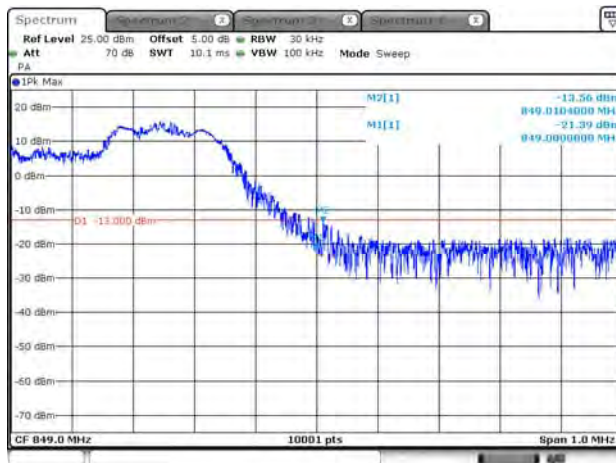
Date: 18 SEP 2018 16:19:37

Cat M1_Band 5_CH20643_1.4M_QPSK_6RB0



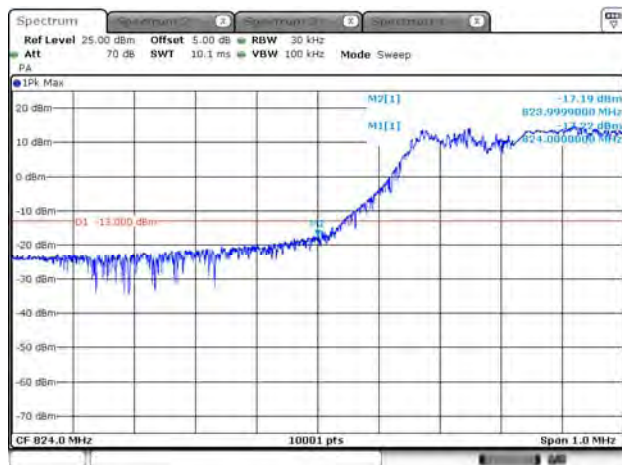
Date: 18 SEP 2018 16:22:58

Cat M1_Band 5_CH20643_1.4M_16-QAM_5RB1



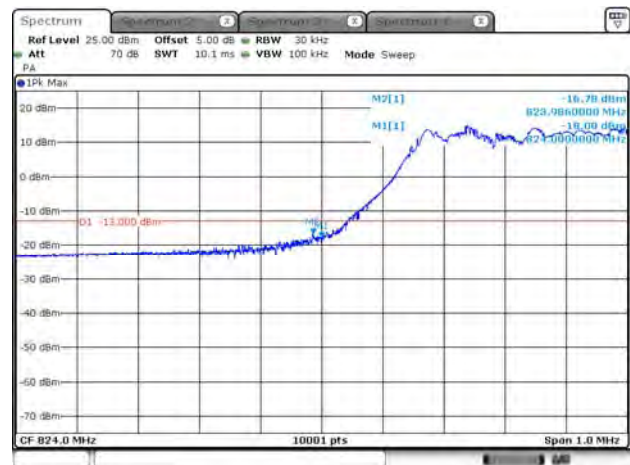
Date: 18 SEP 2018 16:17:04

Cat M1_Band 5_CH20415_3M_QPSK_1RB0



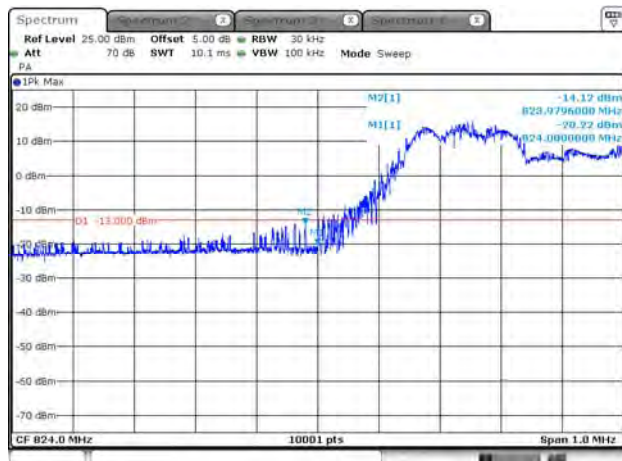
Date: 18 SEP 2018 17:03:05

Cat M1_Band 5_CH20415_3M_16-QAM_1RB0



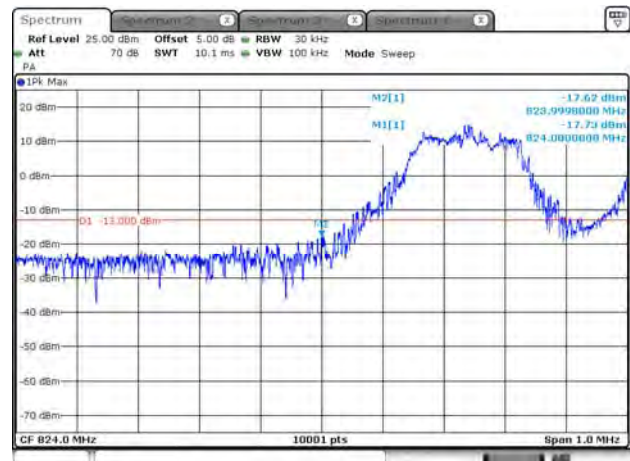
Date: 18 SEP 2018 16:59:15

Cat M1_Band 5_CH20415_3M_QPSK_6RB0



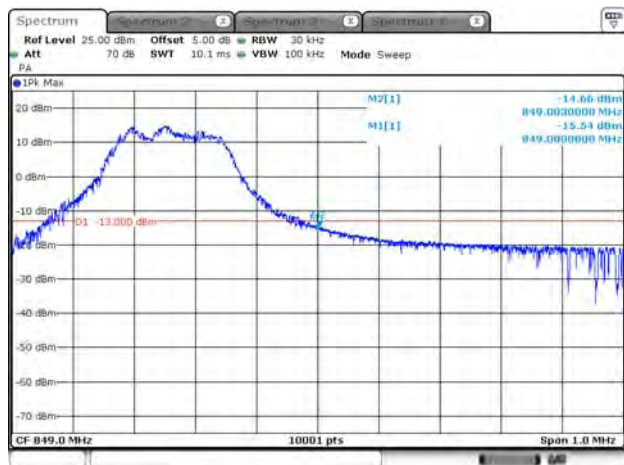
Date: 18 SEP 2018 17:06:24

Cat M1_Band 5_CH20415_3M_16-QAM_5RB1



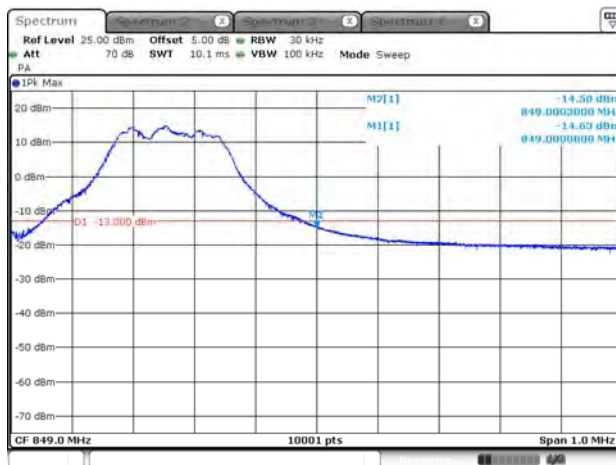
Date: 18 SEP 2018 16:48:31

Cat M1_Band 5_CH20635_3M_QPSK_1RB0



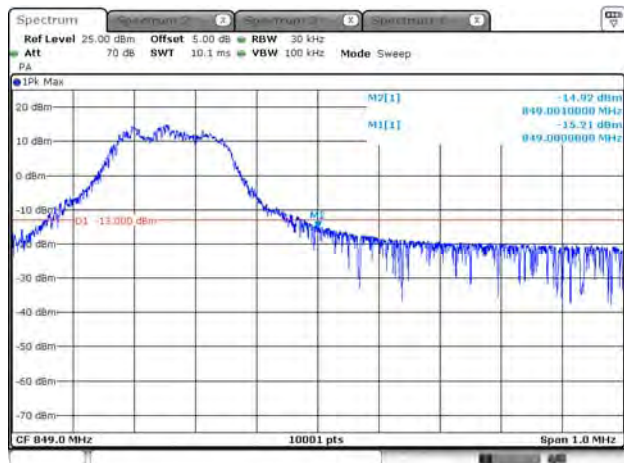
Date: 18 SEP 2018 16:29:35

Cat M1_Band 5_CH20635_3M_16-QAM_1RB5



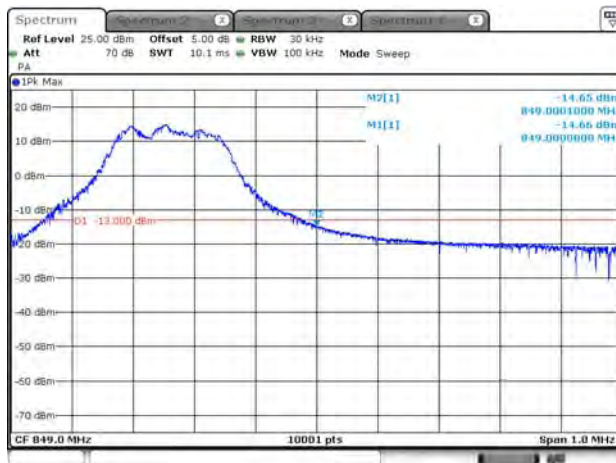
Date: 18 SEP 2018 16:33:45

Cat M1_Band 5_CH20635_3M_QPSK_6RB0



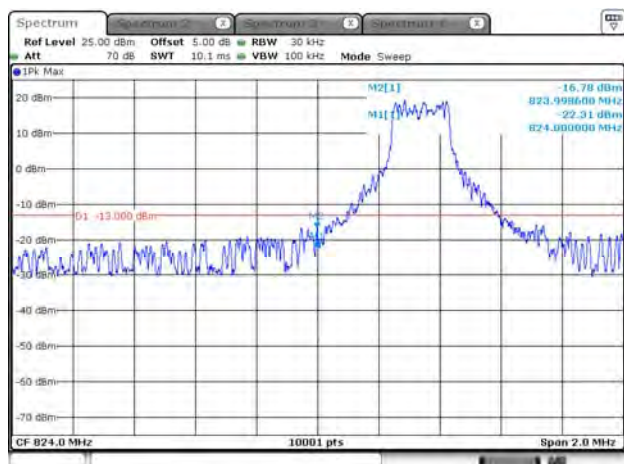
Date: 18 SEP 2018 16:27:59

Cat M1_Band 5_CH20635_3M_16-QAM_5RB1



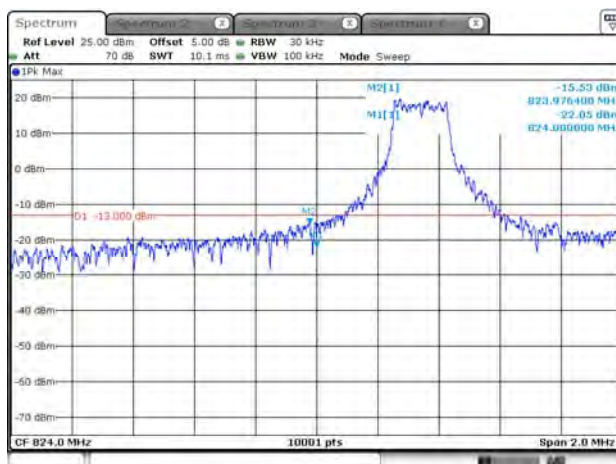
Date: 18 SEP 2018 16:35:57

Cat M1_Band 5_CH20425_5M_QPSK_1RB0



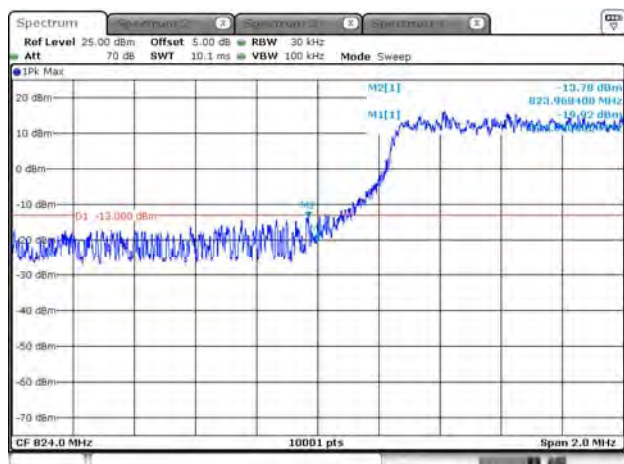
Date: 18 SEP 2018 17:47:34

Cat M1_Band 5_CH20425_5M_16-QAM_1RB0



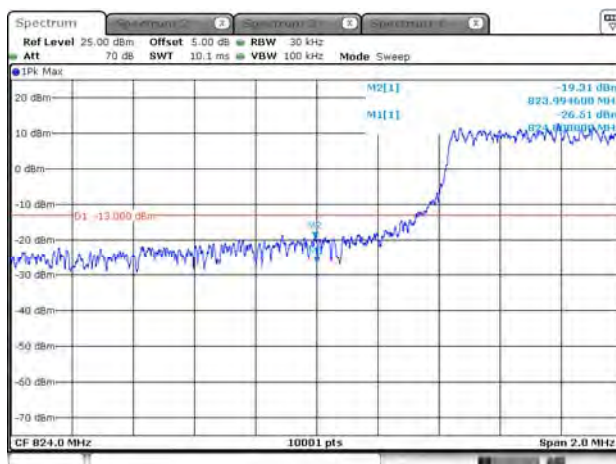
Date: 18 SEP 2018 17:48:56

Cat M1_Band 5_CH20425_5M_QPSK_6RB0



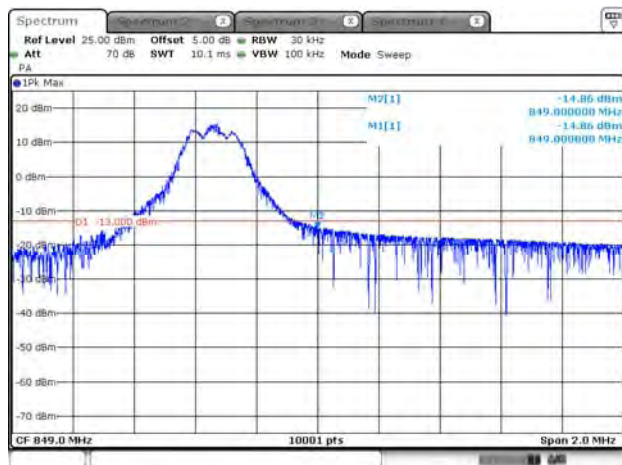
Date: 18 SEP 2018 17:45:34

Cat M1_Band 5_CH20425_5M_16-QAM_5RB1

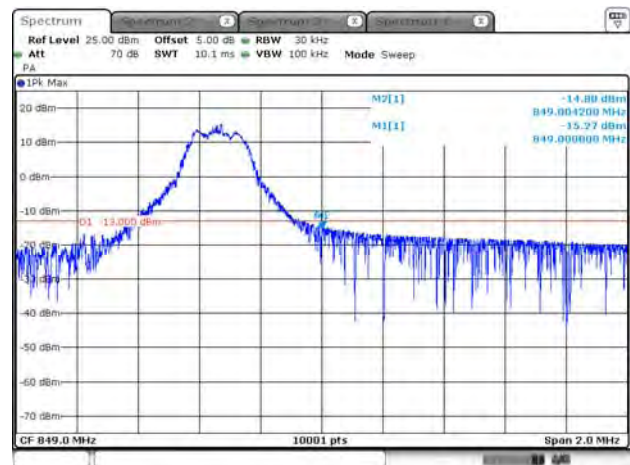


Date: 18 SEP 2018 17:50:44

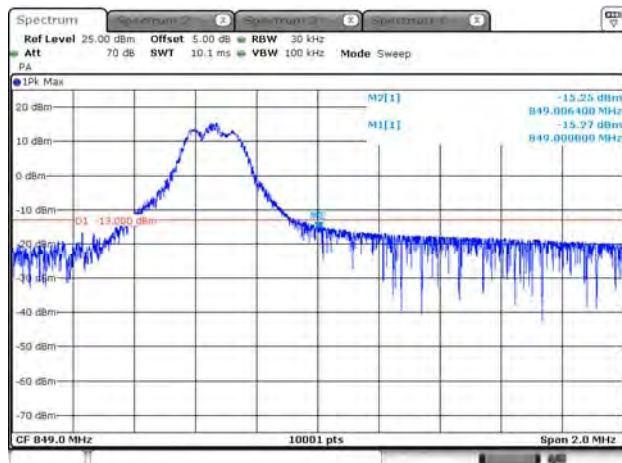
Cat M1_Band 5_CH20625_5M_QPSK_1RB0



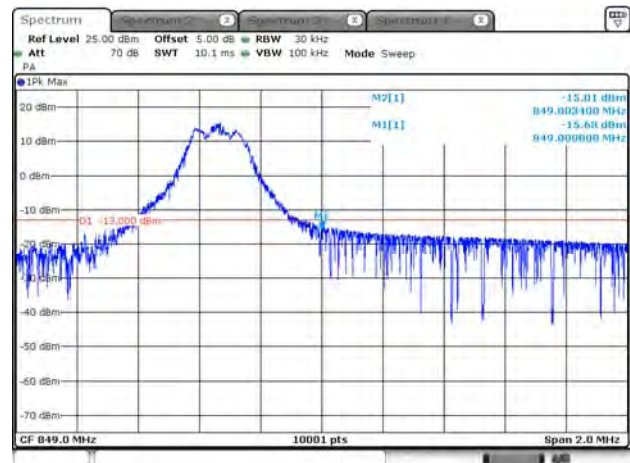
Cat M1_Band 5_CH20625_5M_16-QAM_1RB5



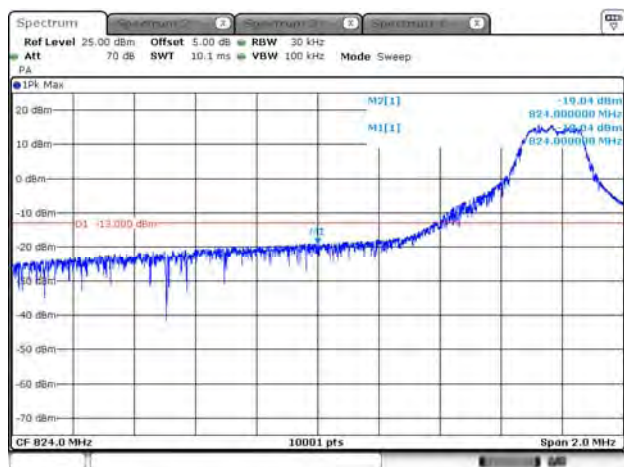
Cat M1_Band 5_CH20625_5M_QPSK_6RB0



Cat M1_Band 5_CH20625_5M_16-QAM_5RB1

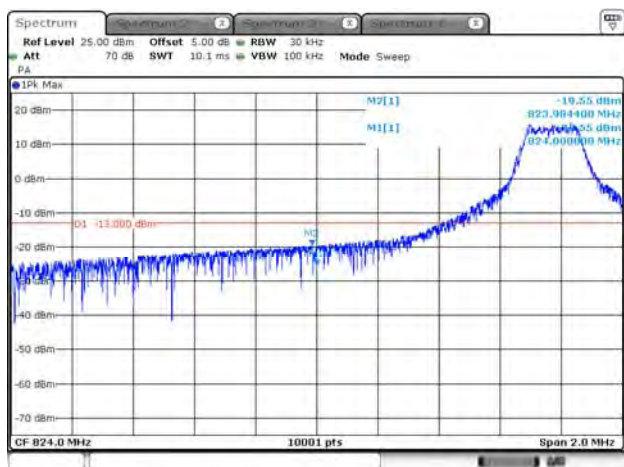


Cat M1_Band 5_CH20450_10M_QPSK_1RB0



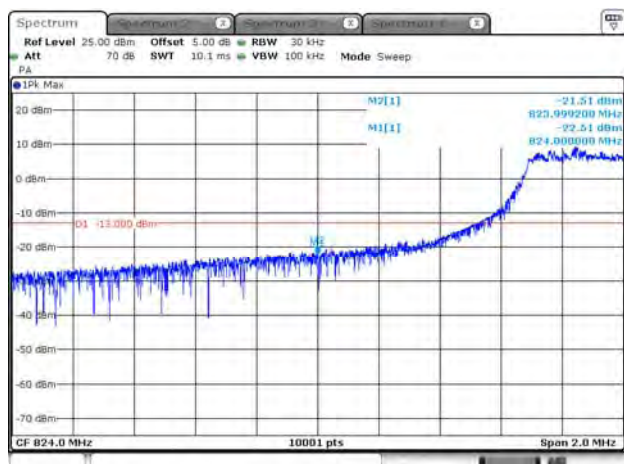
Date: 18 SEP 2018 17:19:46

Cat M1_Band 5_CH20450_10M_16-QAM_1RB0



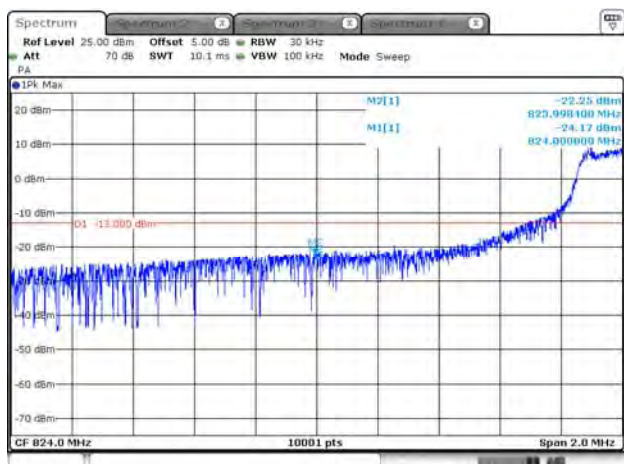
Date: 18 SEP 2018 17:22:55

Cat M1_Band 5_CH20450_10M_QPSK_6RB0



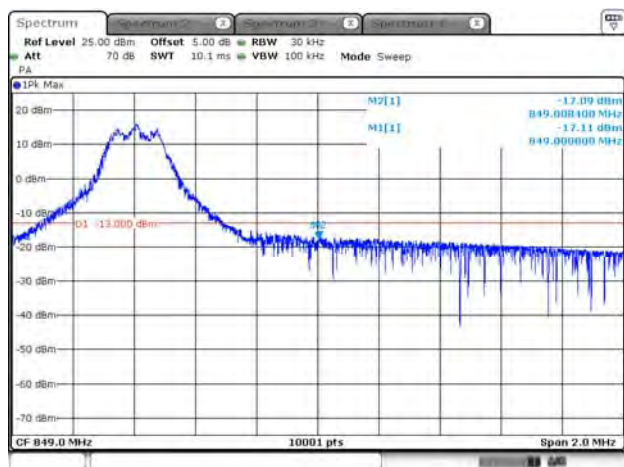
Date: 18 SEP 2018 17:21:17

Cat M1_Band 5_CH20450_10M_16-QAM_5RB1



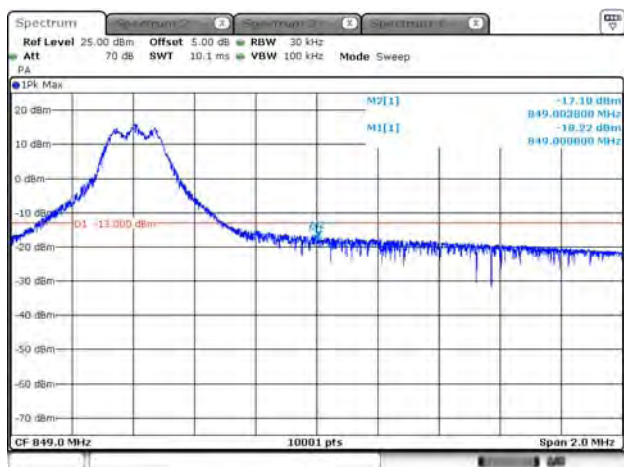
Date: 18 SEP 2018 17:24:28

Cat M1_Band 5_CH20600_10M_QPSK_1RB0



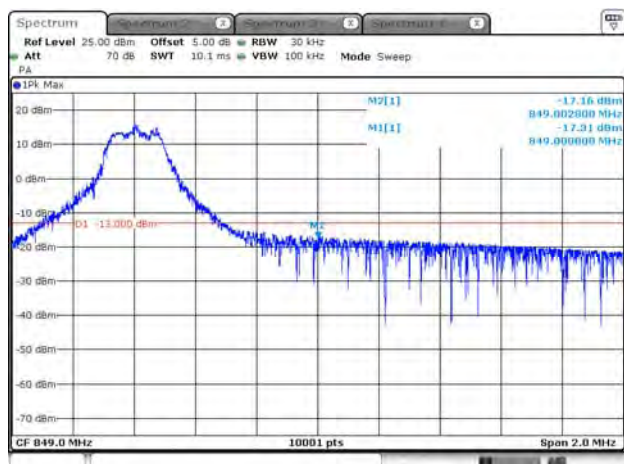
Date: 18 SEP 2018 17:37:35

Cat M1_Band 5_CH20600_10M_16-QAM_1RB5



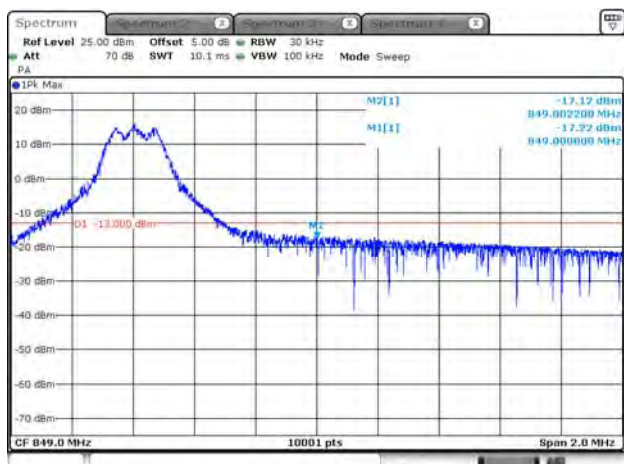
Date: 18 SEP 2018 17:35:06

Cat M1_Band 5_CH20600_10M_QPSK_6RB0



Date: 18 SEP 2018 17:40:40

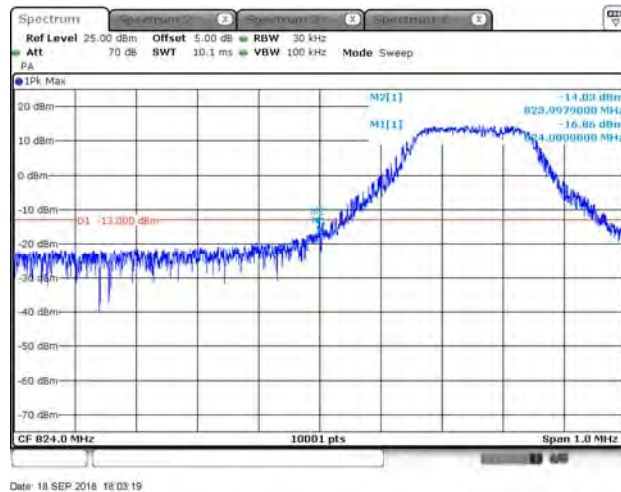
Cat M1_Band 5_CH20600_10M_16-QAM_5RB1



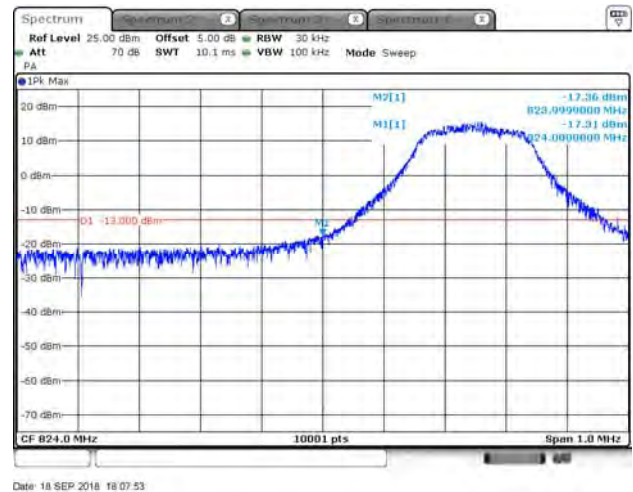
Date: 18 SEP 2018 17:28:36

Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/18	Test Site	SR10-H

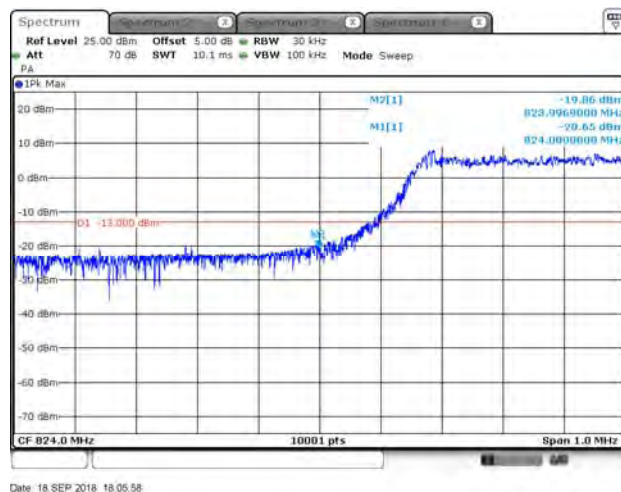
Cat M1_Band 26_CH26797_1.4M_QPSK_1RB0



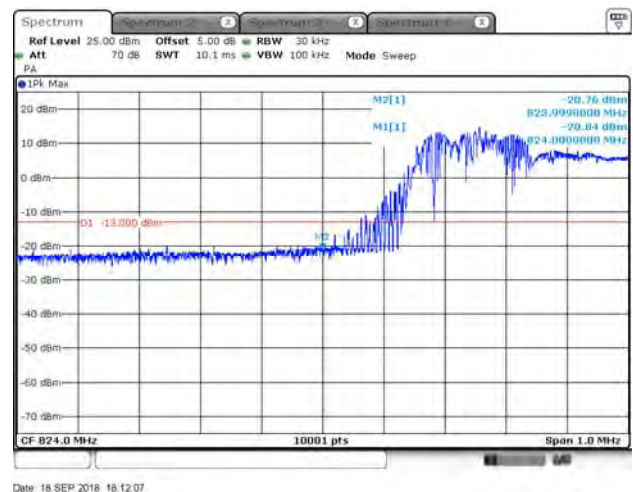
Cat M1_Band 26_CH26797_1.4M_16-QAM_1RB0



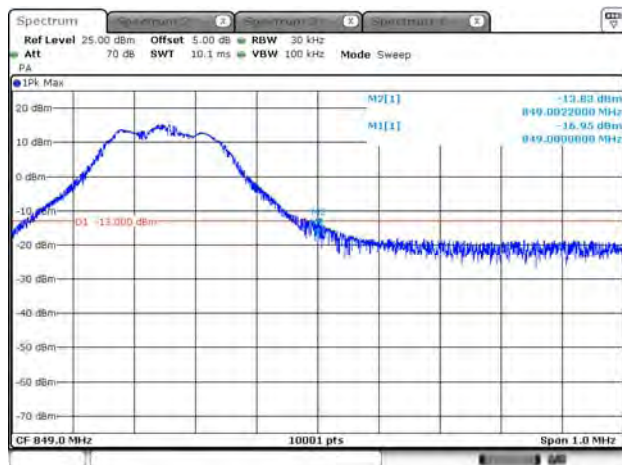
Cat M1_Band 26_CH26797_1.4M_QPSK_6RB0



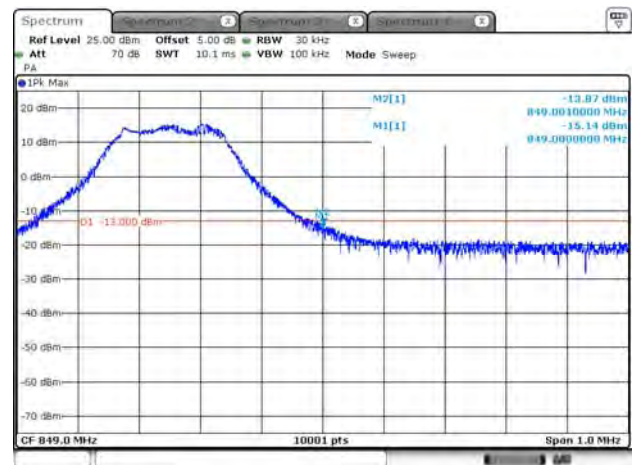
Cat M1_Band 26_CH26797_1.4M_16-QAM_5RB1



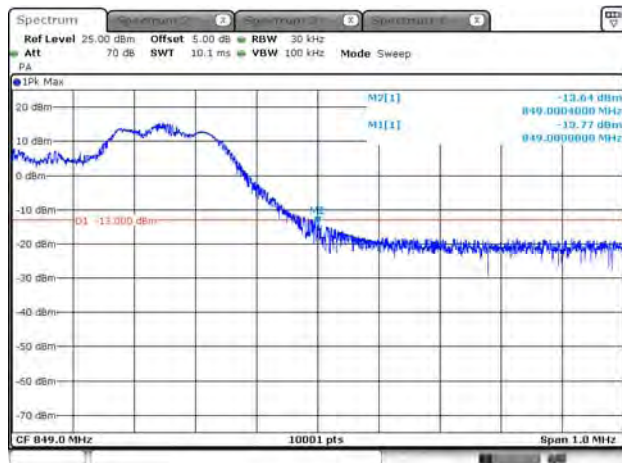
Cat M1_Band 26_CH27033_1.4M_QPSK_1RB0



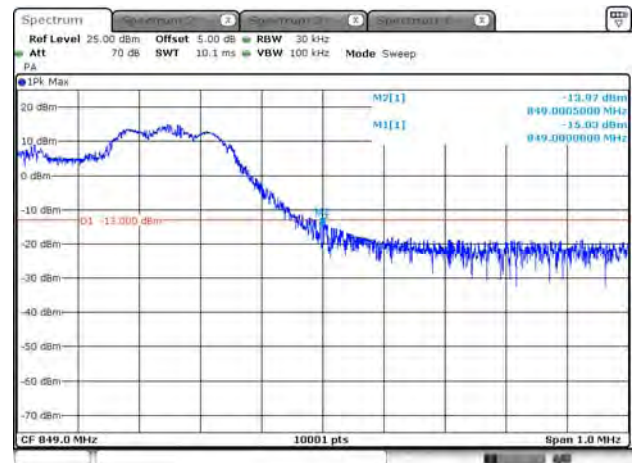
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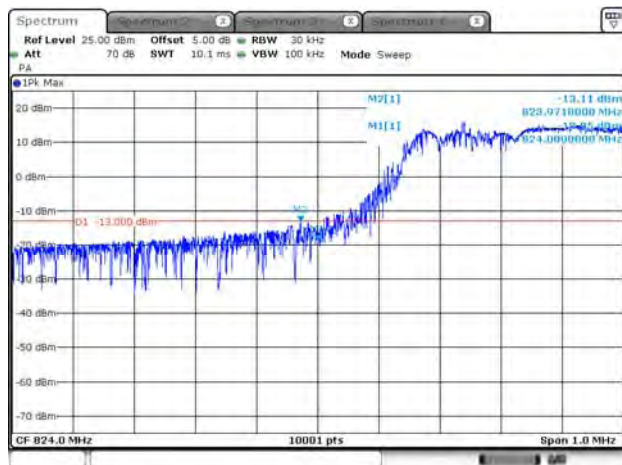
Cat M1_Band 26_CH27033_1.4M_QPSK_6RB0



Cat M1_Band 26_CH27033_1.4M_16-QAM_5RB1

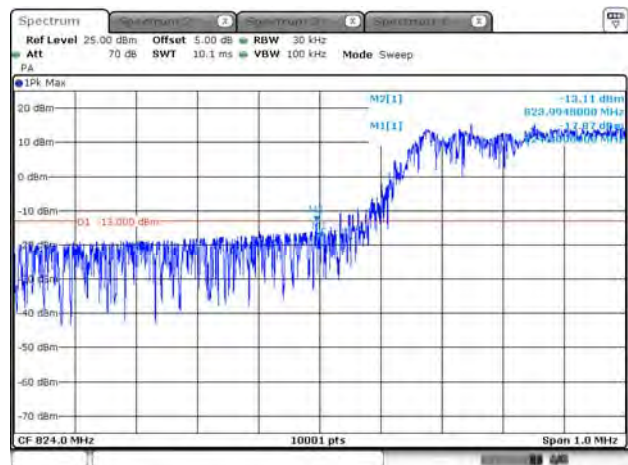


Cat M1_Band 26_CH26805_3M_QPSK_1RB0



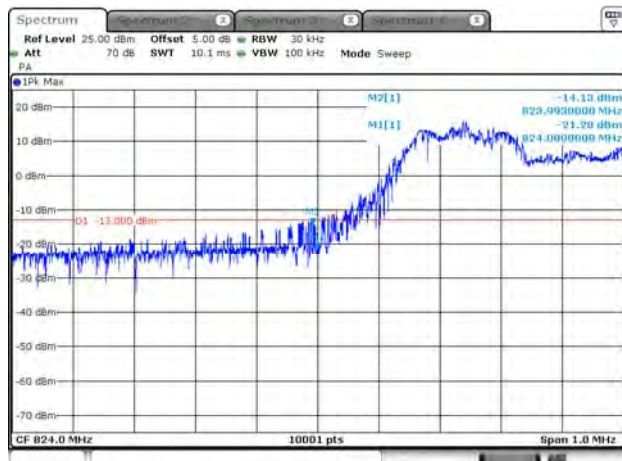
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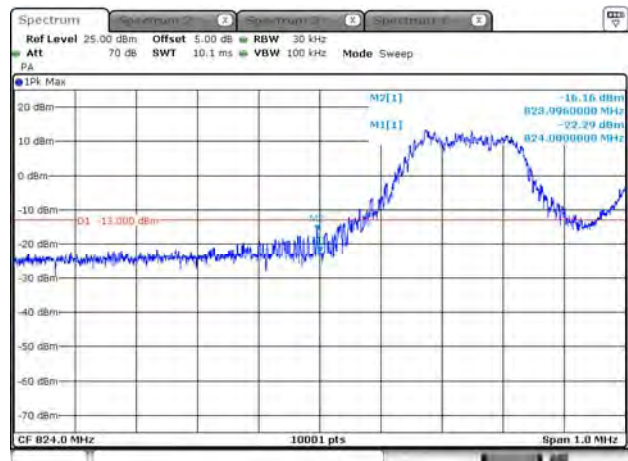
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Cat M1_Band 26_CH26805_3M_QPSK_6RB0



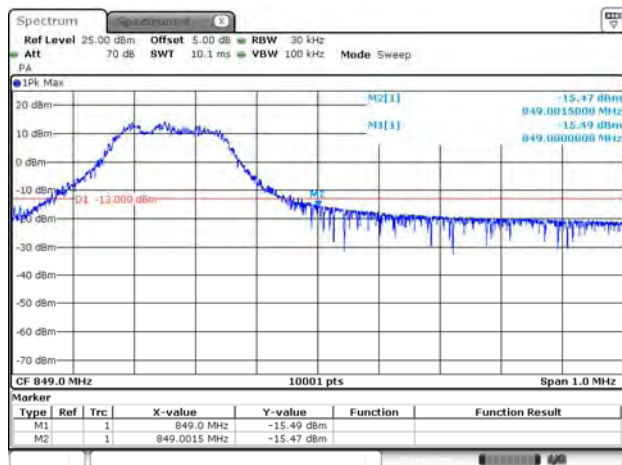
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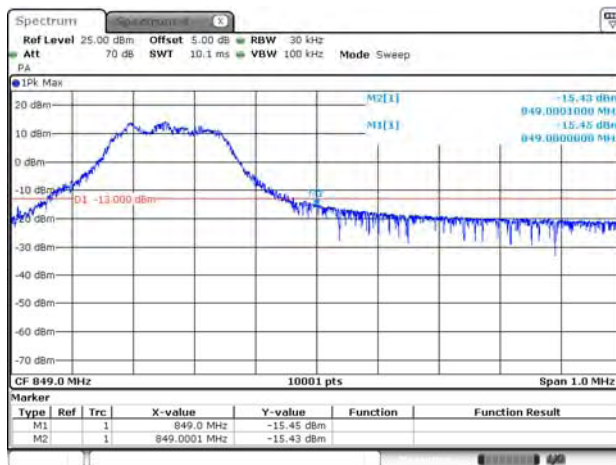
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Cat M1_Band 26_CH27025_3M_QPSK_1RB0



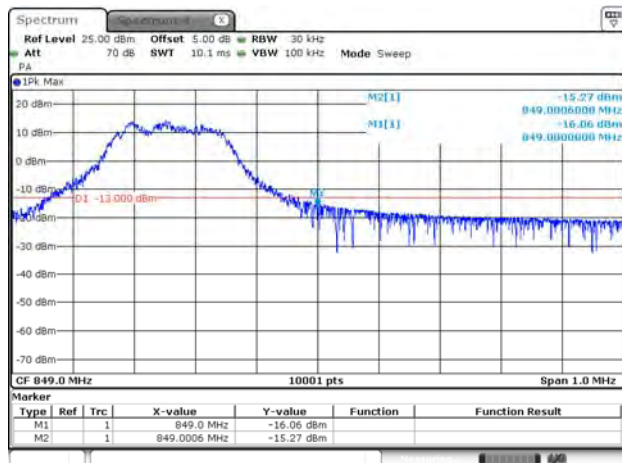
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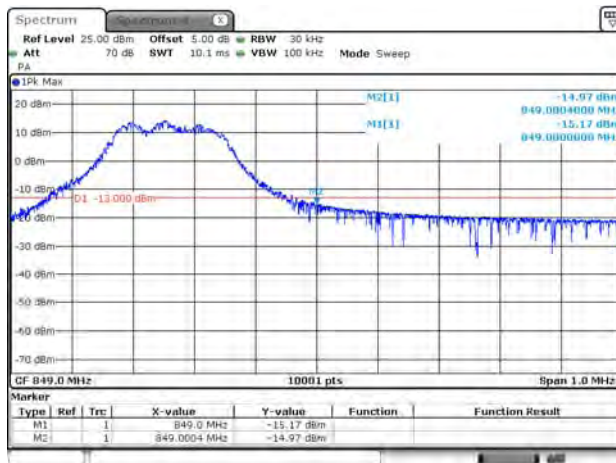
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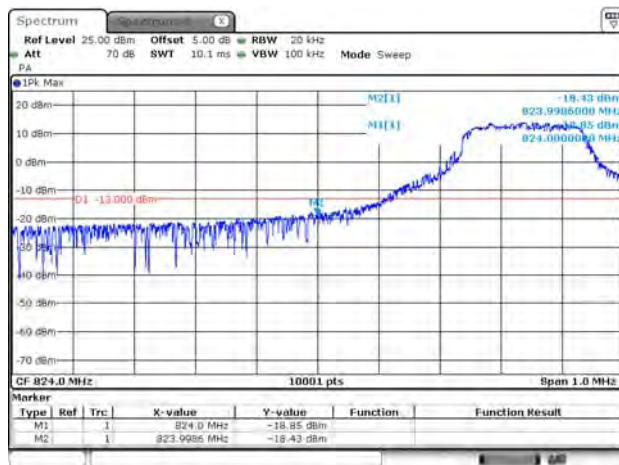
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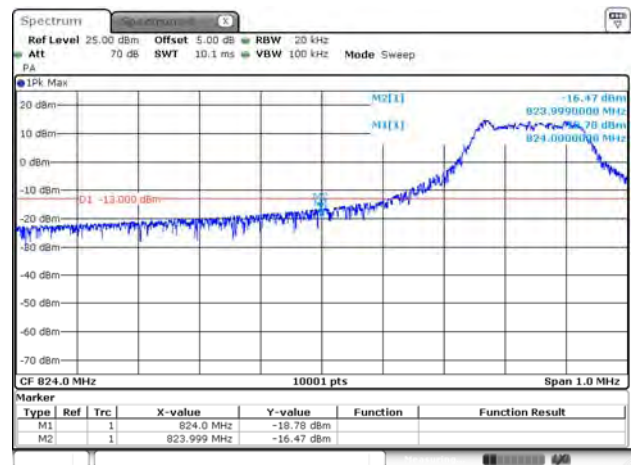
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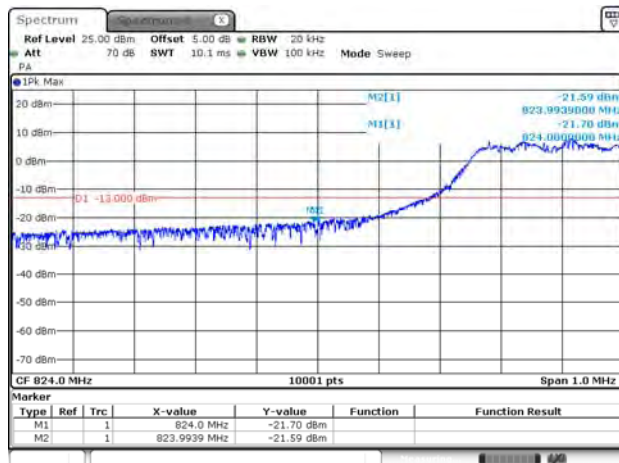
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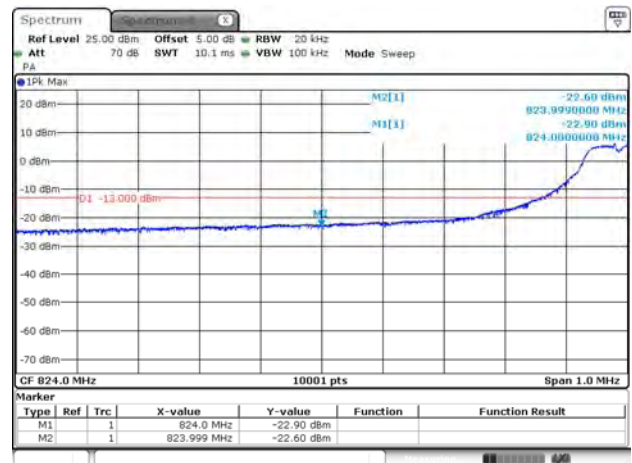
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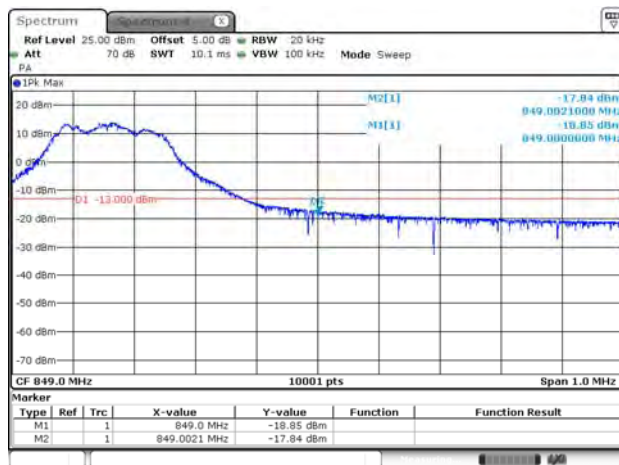
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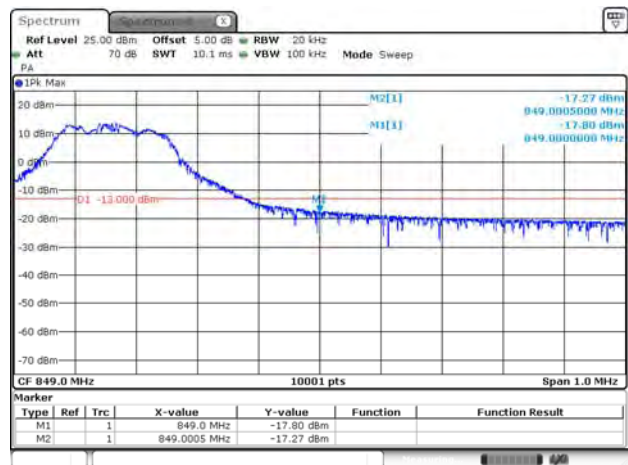
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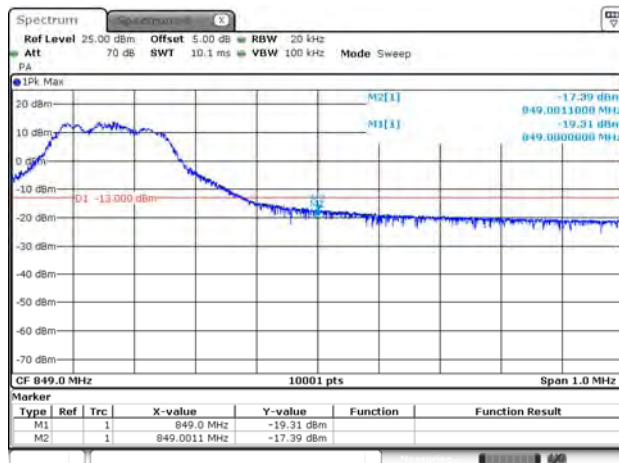
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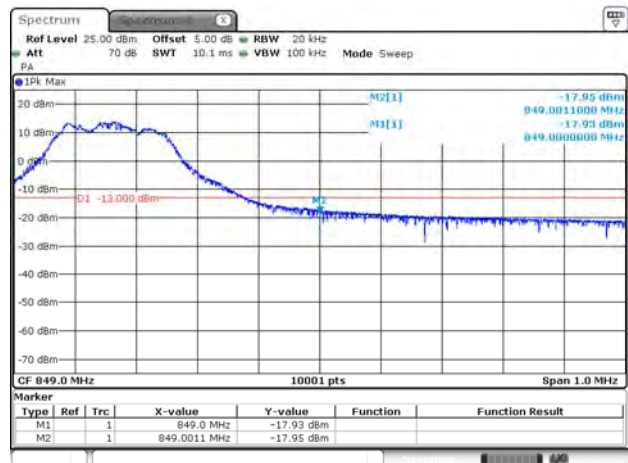
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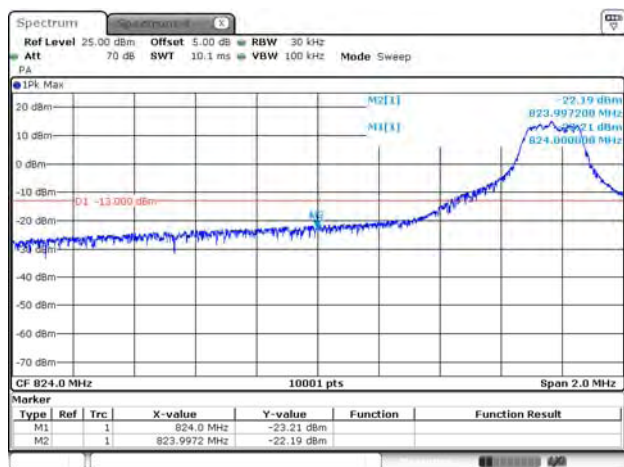
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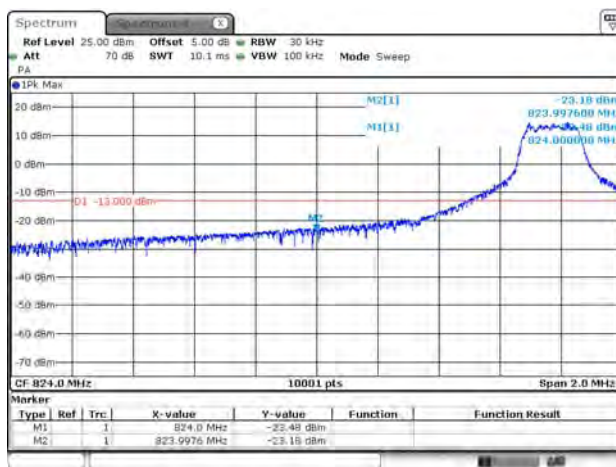
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Cat M1_Band 26_CH26840_10M_QPSK_1RB0



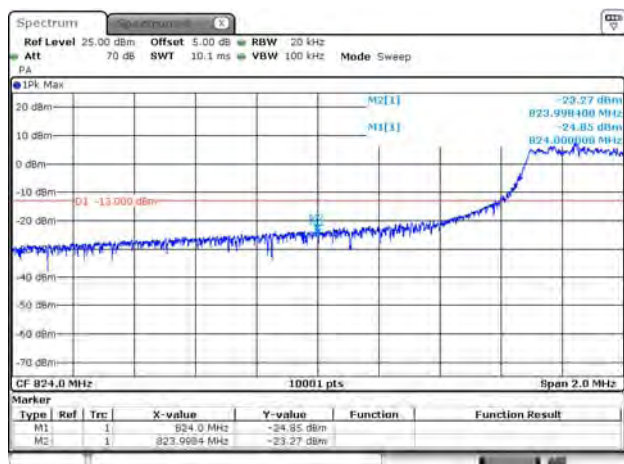
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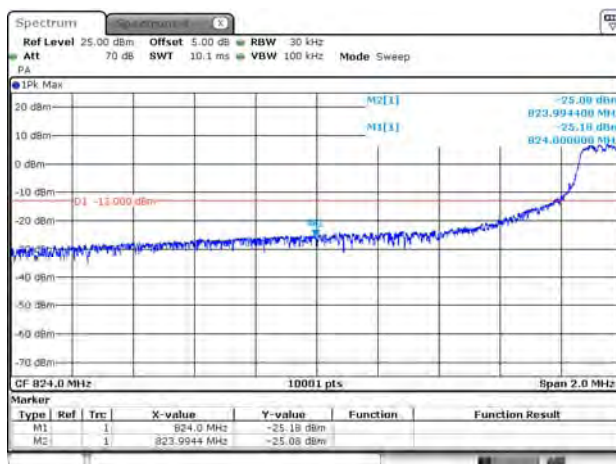
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Cat M1_Band 26_CH26840_10M_QPSK_6RB0



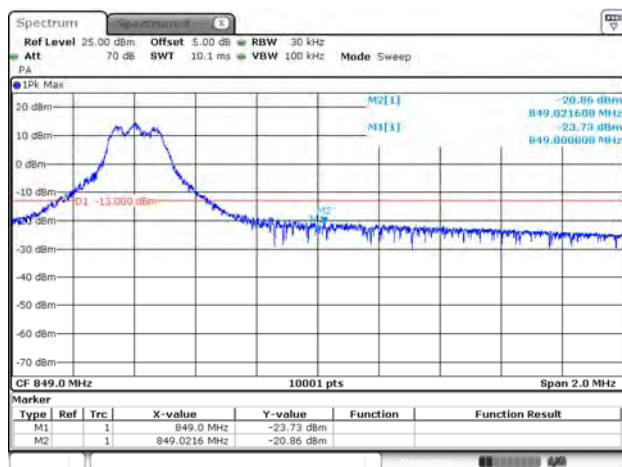
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Cat M1_Band 26_CH26840_10M_16-QAM_5RB1

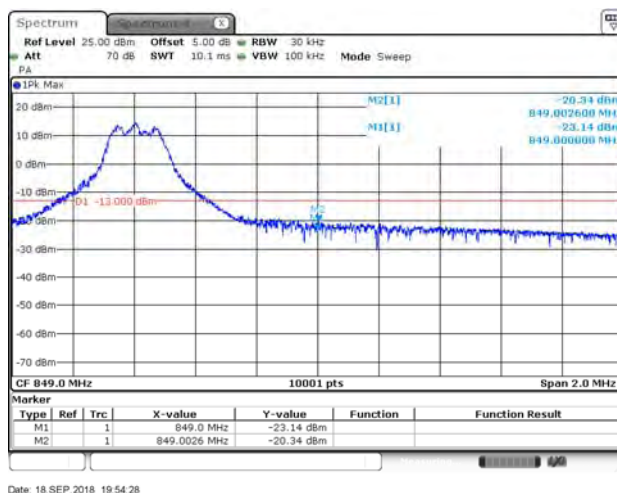


Date: 18 SEP 2018 19:48:51

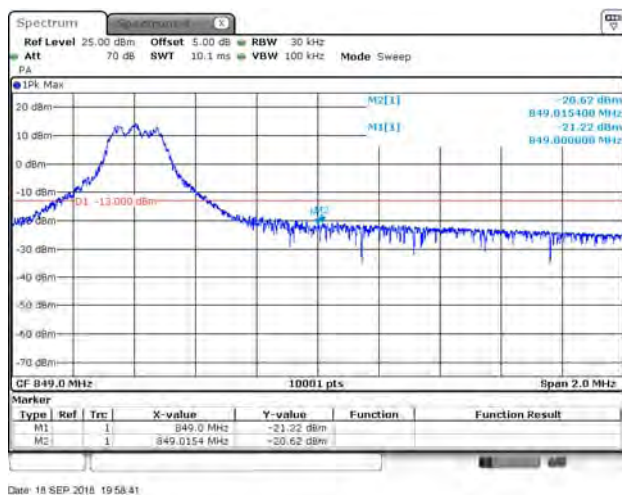
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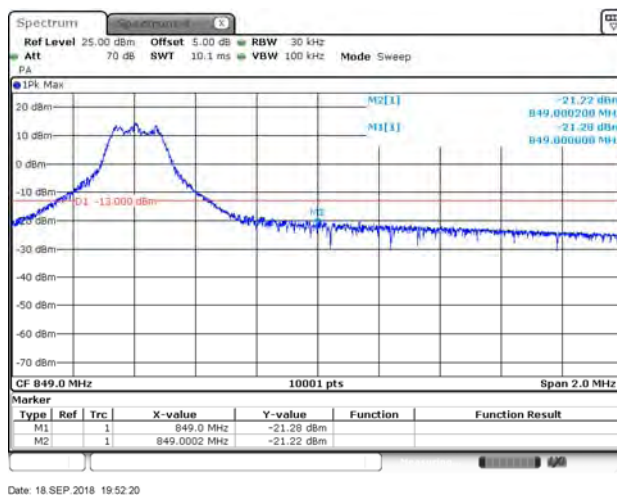
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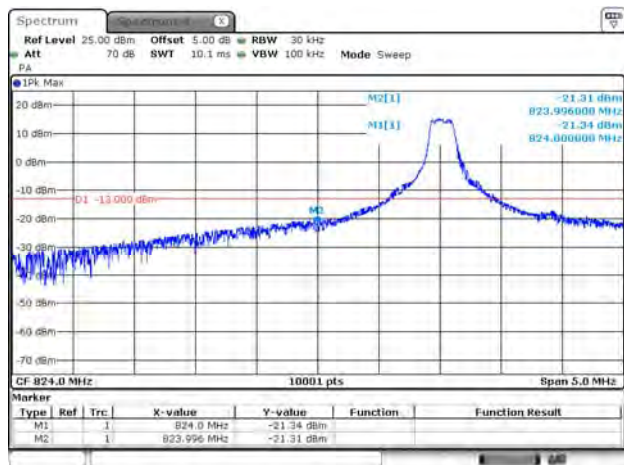
Cat M1_Band 26_CH26990_10M_QPSK_6RB0



Cat M1_Band 26_CH26990_10M_16-QAM_5RB1

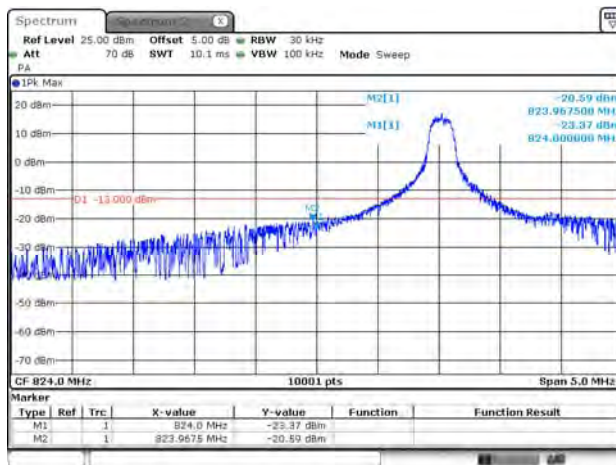


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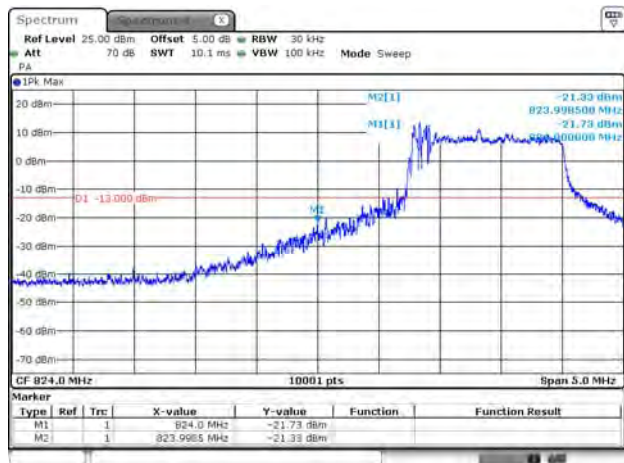
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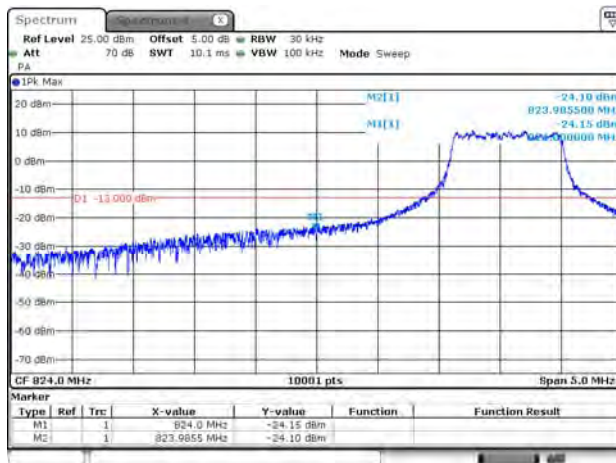
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Cat M1_Band 26_CH26865_15M_QPSK_6RB0



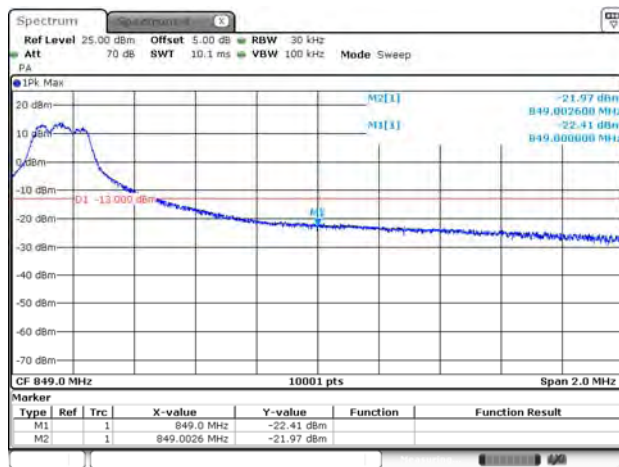
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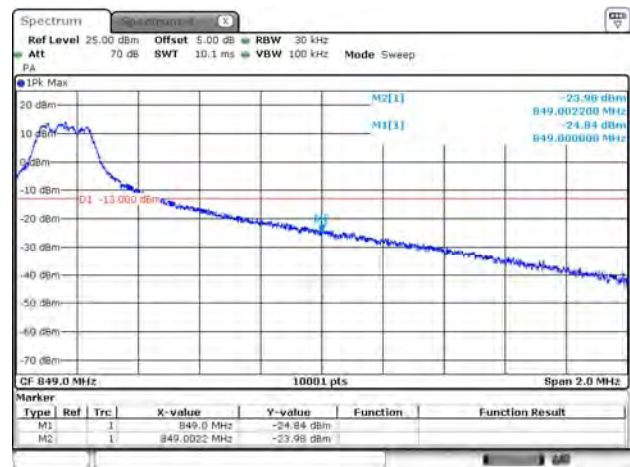
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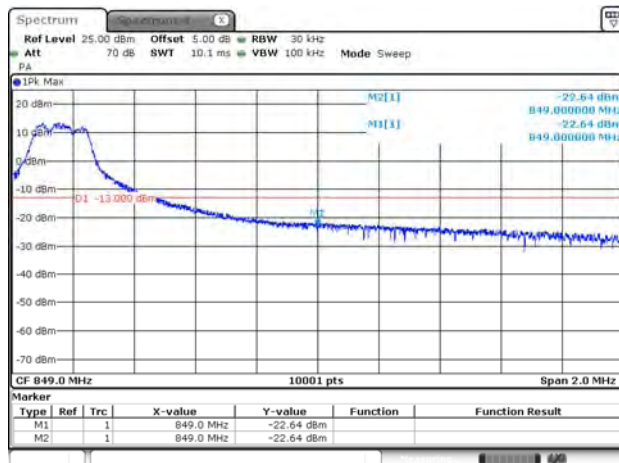
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Cat M1_Band 26_CH26965_15M_16-QAM_1RB5



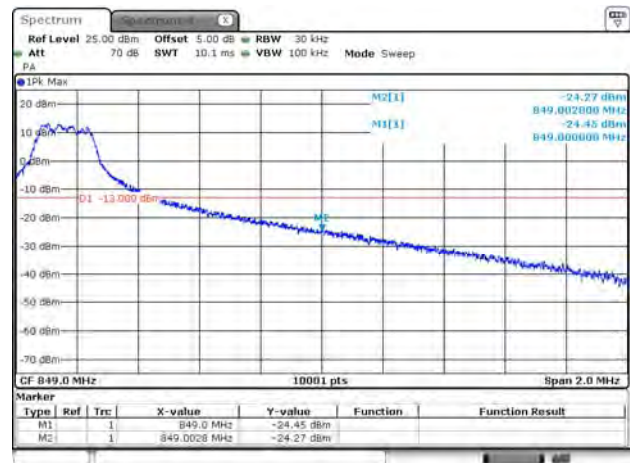
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Cat M1_Band 26_CH26965_15M_QPSK_6RB0



Date: 18 SEP 2018 20:01:37

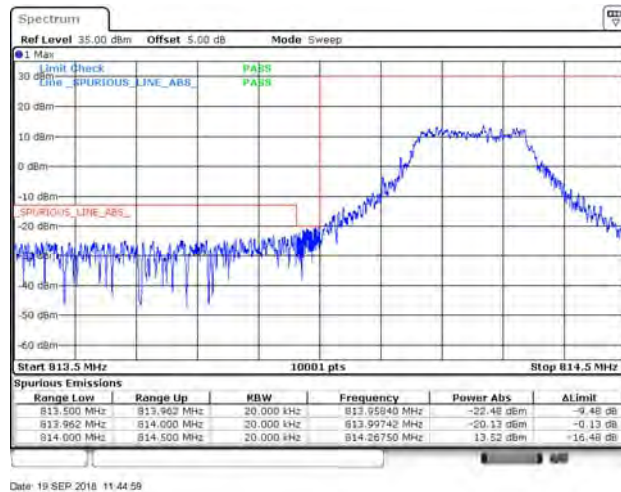
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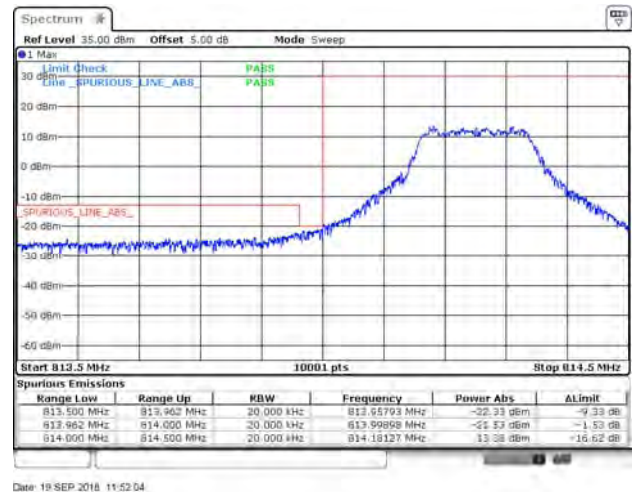
Date: 18 SEP 2018 20:13:44

Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/19	Test Site	SR10-H

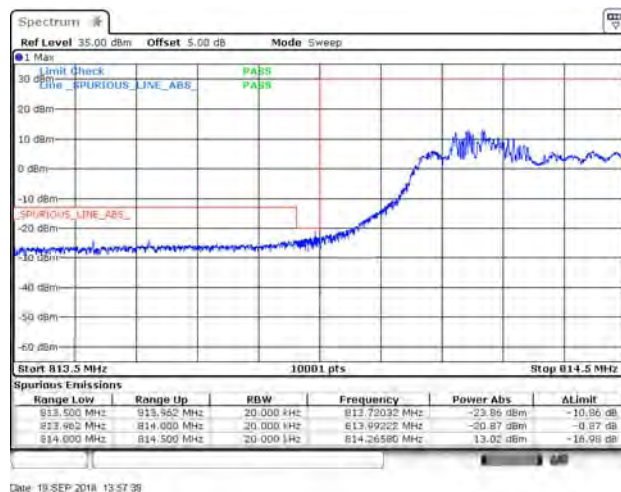
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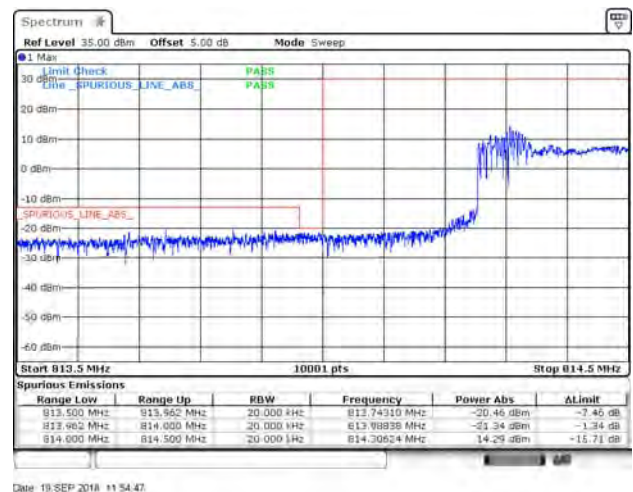
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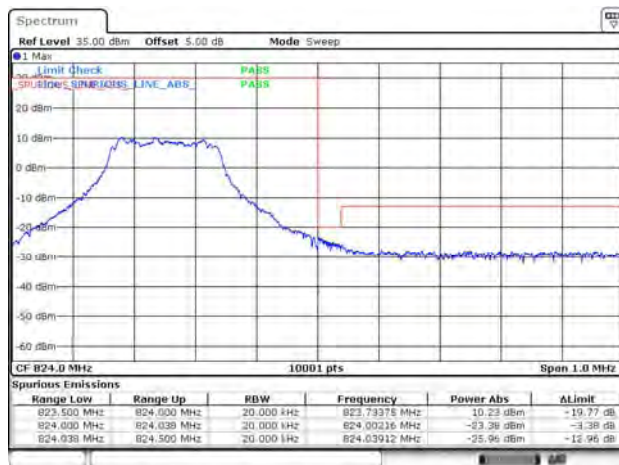
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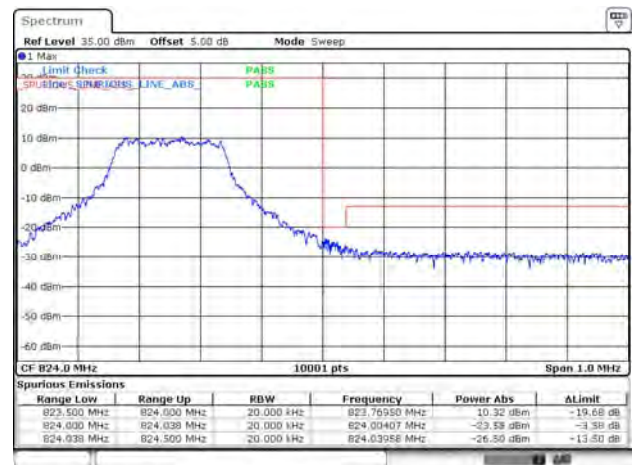
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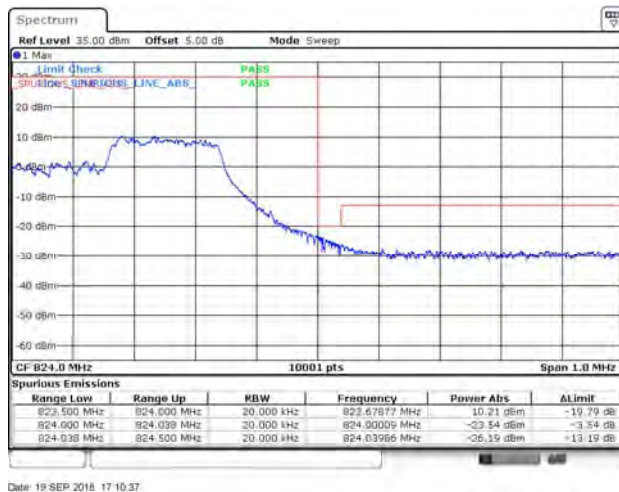
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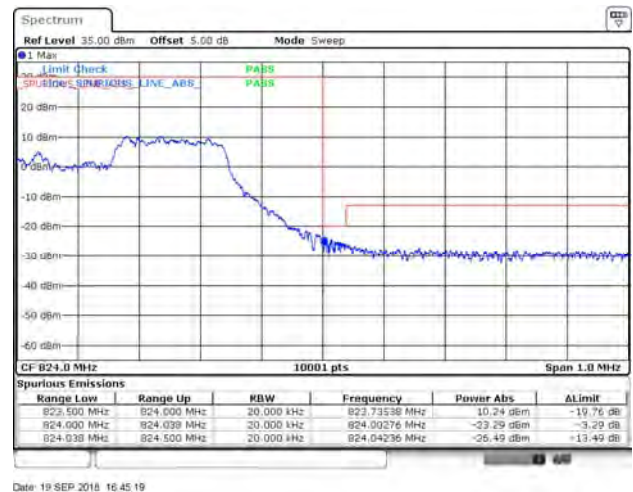
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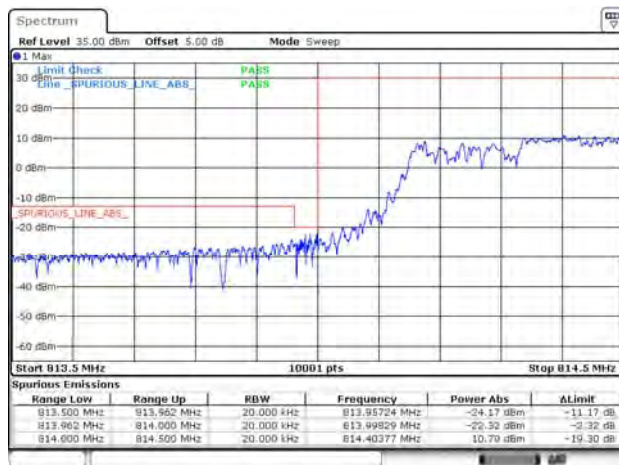
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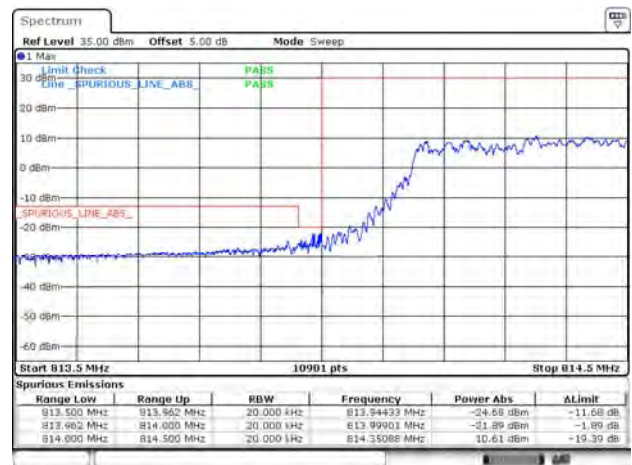
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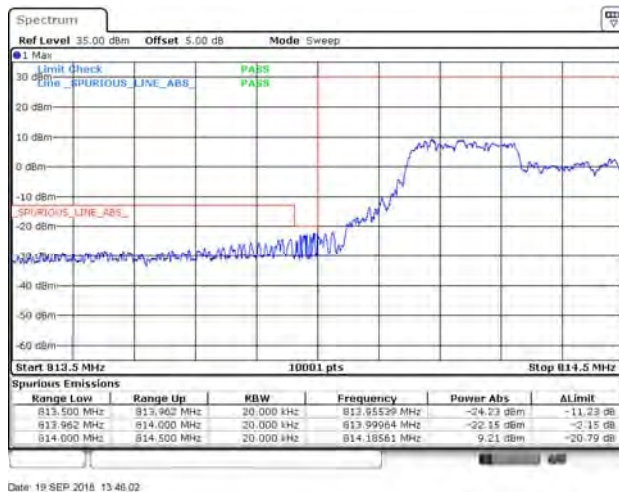
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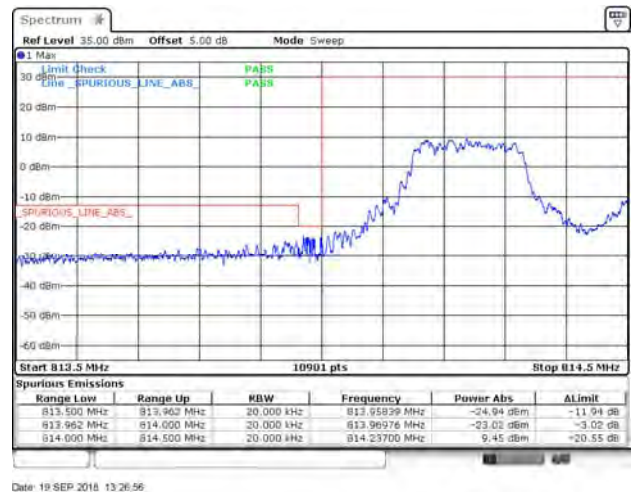
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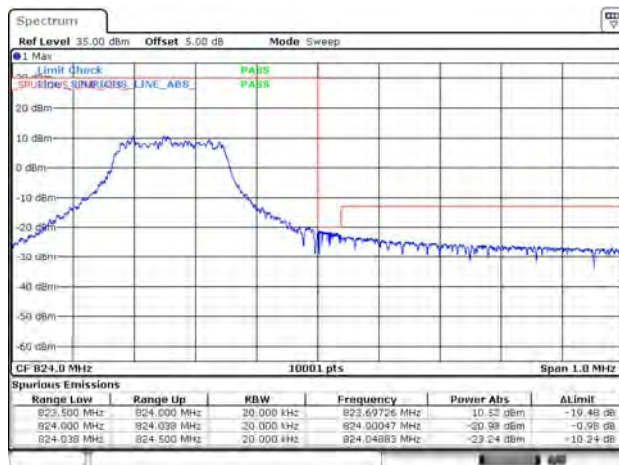
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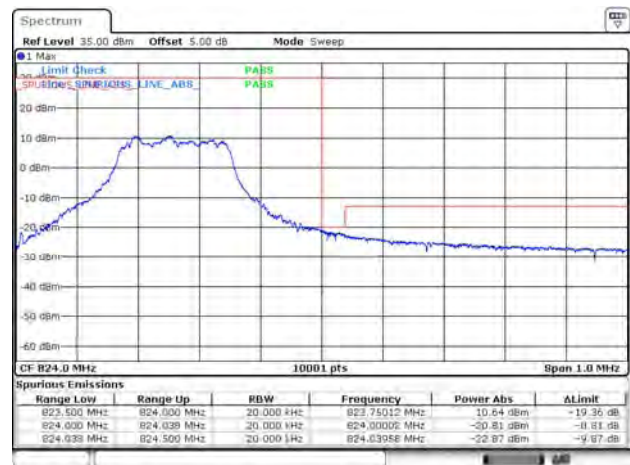
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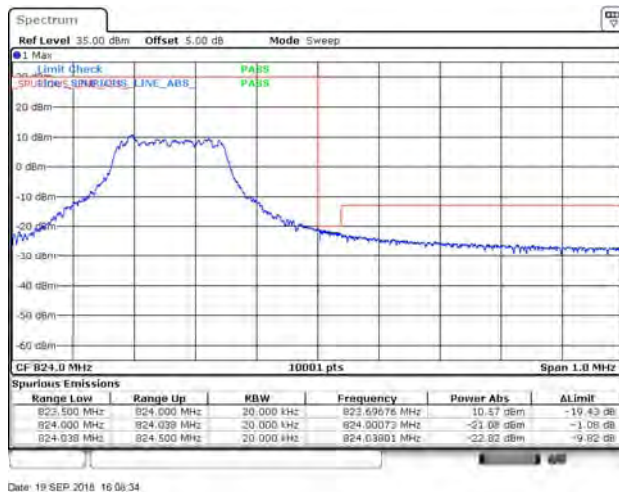
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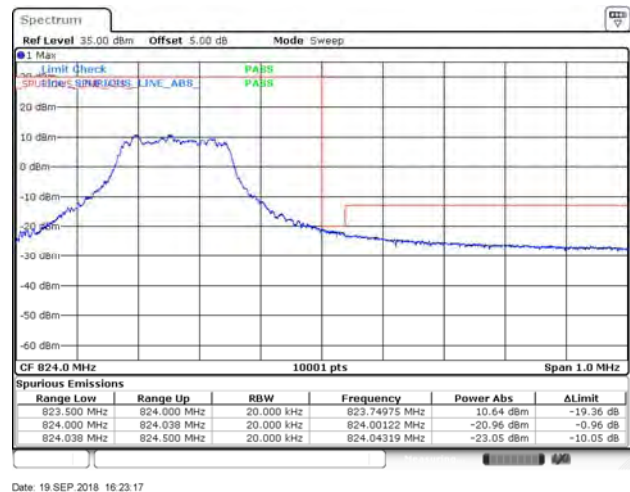
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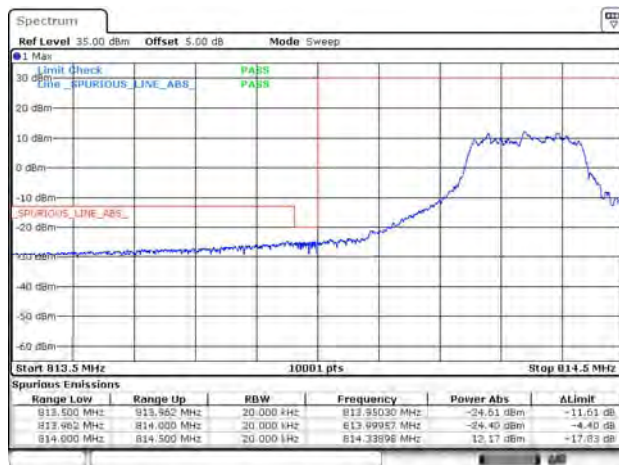
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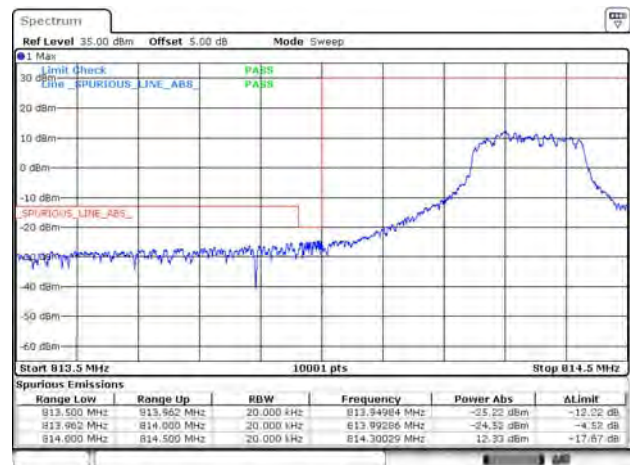
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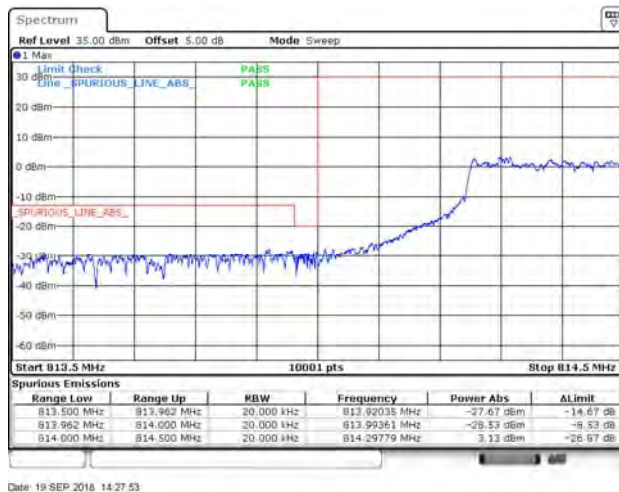
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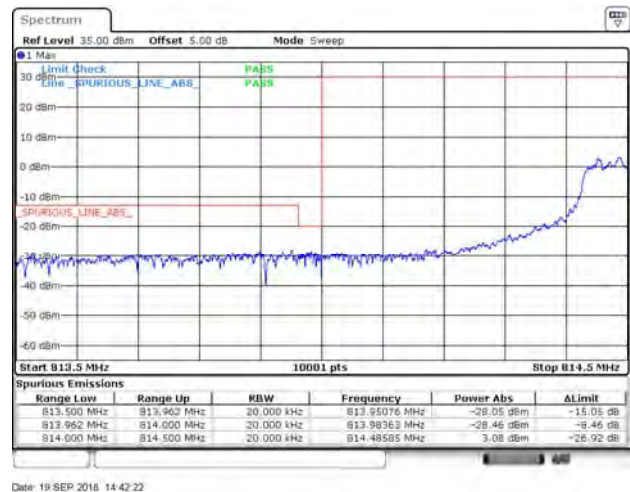
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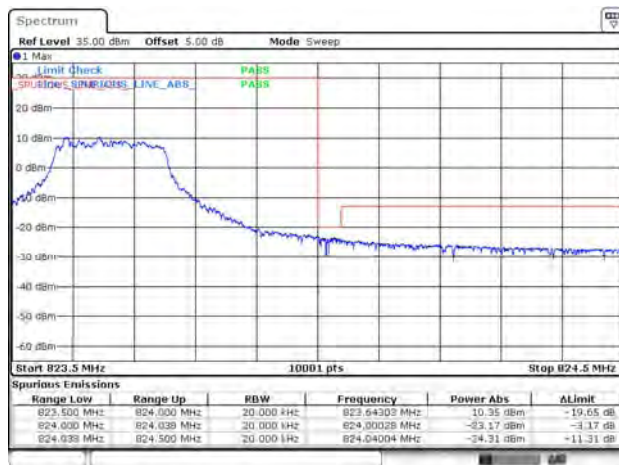
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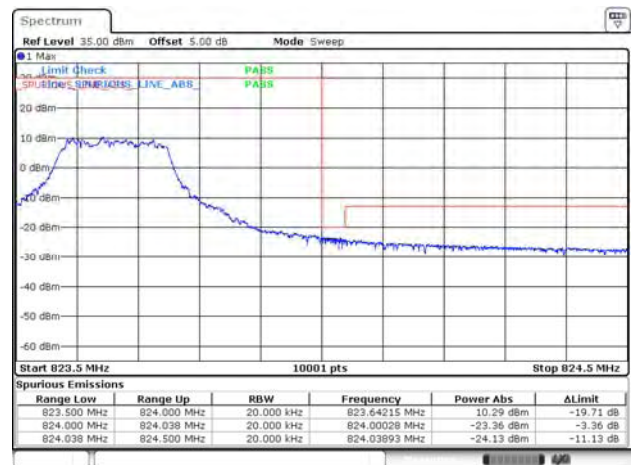
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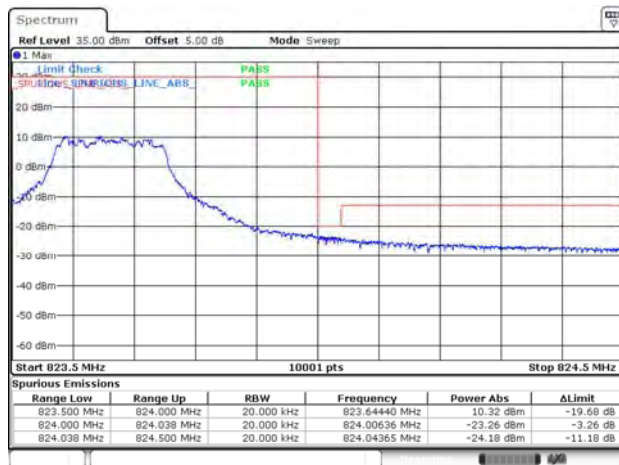
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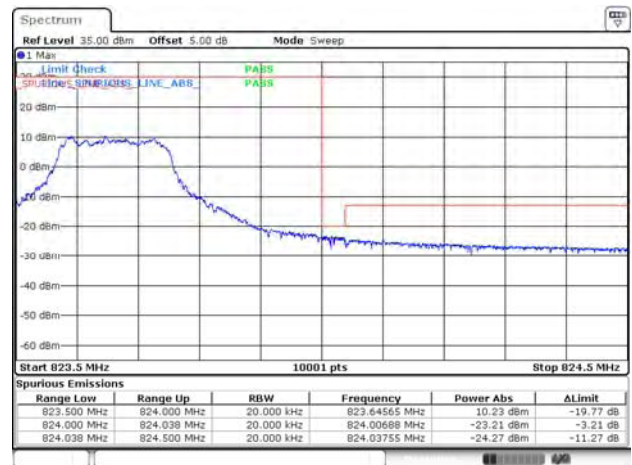
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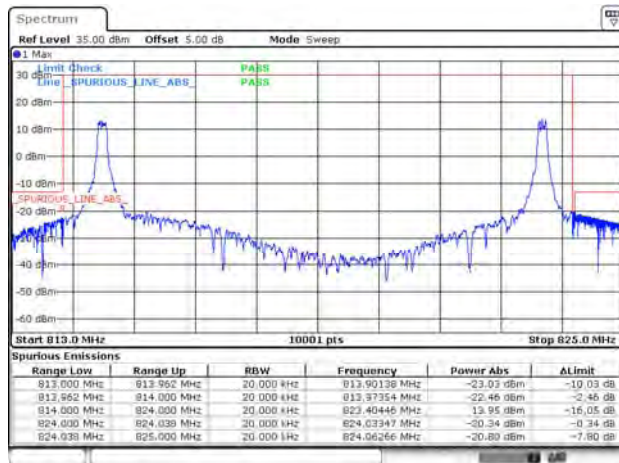
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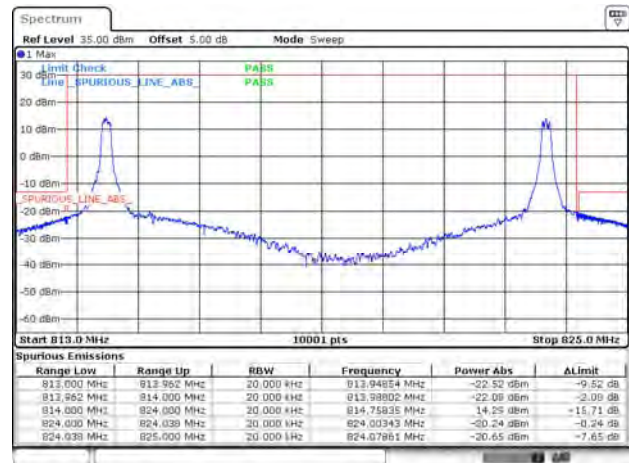


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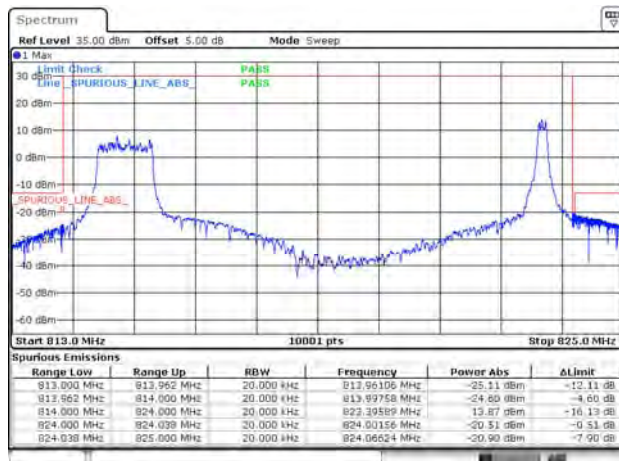
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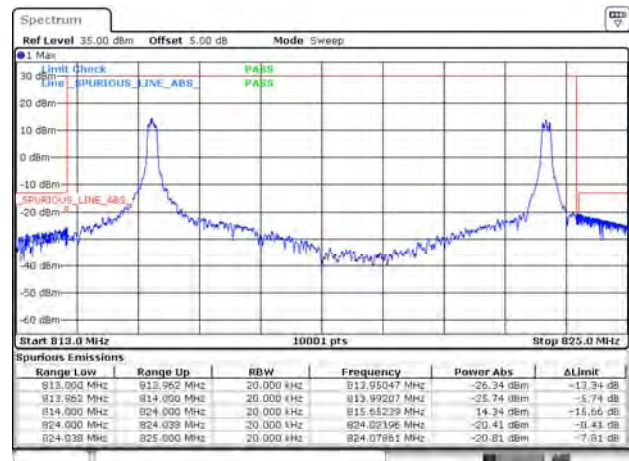
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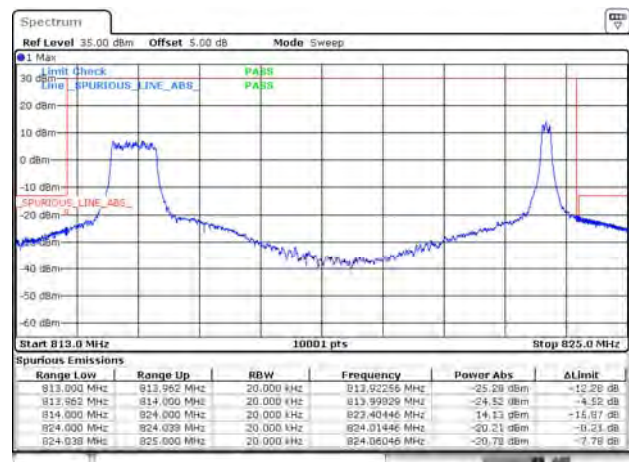
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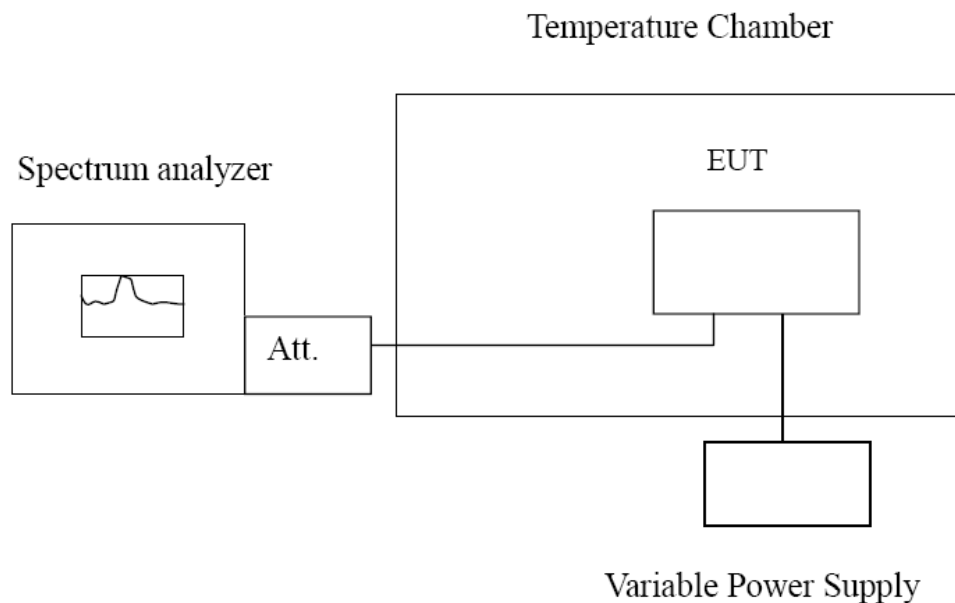
Cat M1_Band 26_CH26740_10M_16-QAM_5RB1



Date: 19 SEP 2018 17:53:11

8. Frequency Stability

8.1. Test Setup



8.2. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

8.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 9

ANSI C63.26: 2015 Sub-clause 5.6

8.4. Test Result

Product	ME910C1-WW		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/10	Test Site	SR10-H

CAT-M1 Band 2 – 1860MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	22	-0.0327
3.8	-5	0.0074
3.4	-13	0.0193

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-20	0.0297
-20	-3	0.0045
-10	-21	0.0312
0	9	-0.0134
10	-15	0.0223
20	24	-0.0357
30	14	-0.0208
40	7	-0.0104
50	14	-0.0208

CAT-M1 Band 2 – 1880MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-15	0.0223
3.8	-22	0.0327
3.4	-27	0.0401

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	8	-0.0119
-20	-5	0.0074
-10	6	-0.0089
0	-29	0.0431
10	18	-0.0267
20	6	-0.0089
30	3	-0.0045
40	-24	0.0357
50	-15	0.0223

CAT-M1 Band 2 – 1900MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	9	-0.0132
3.8	22	-0.0323
3.4	-11	0.0162

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-35	0.0514
-20	-20	0.0294
-10	-5	0.0073
0	-5	0.0073
10	20	-0.0294
20	23	-0.0338
30	9	-0.0132
40	-20	0.0294
50	-32	0.0470

Product	ME910C1-WW		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/10	Test Site	SR10-H

CAT-M1 Band 4 – 1720MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	4	-0.0058
3.8	-3	0.0043
3.4	-3	0.0043

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-38	0.0546
-20	15	-0.0216
-10	-1	0.0014
0	21	-0.0302
10	-29	0.0417
20	10	-0.0144
30	8	-0.0115
40	-27	0.0388
50	-7	0.0101

CAT-M1 Band 4 – 1732.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	5	-0.0072
3.8	15	-0.0216
3.4	-26	0.0374

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-13	0.0187
-20	24	-0.0345
-10	-27	0.0388
0	-29	0.0417
10	-40	0.0575
20	11	-0.0158
30	-10	0.0144
40	-42	0.0604
50	10	-0.0144

CAT-M1 Band 4 – 1745MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	20	-0.0294
3.8	3	-0.0044
3.4	-21	0.0309

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-3	0.0044
-20	-36	0.0529
-10	23	-0.0338
0	23	-0.0338
10	15	-0.0220
20	5	-0.0073
30	6	-0.0088
40	-28	0.0411
50	3	-0.0044

Product	ME910C1-WW		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/10	Test Site	SR10-H

CAT-M1 Band 5 – 829MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	7	-0.0104
3.8	-4	0.0059
3.4	15	-0.0223

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	17	-0.0253
-20	22	-0.0327
-10	-13	0.0193
0	25	-0.0371
10	21	-0.0312
20	-1	0.0015
30	3	-0.0045
40	-39	0.0579
50	-36	0.0535

CAT-M1 Band 5 – 836.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	9	-0.0132
3.8	-21	0.0309
3.4	-20	0.0294

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	14	-0.0206
-20	6	-0.0088
-10	-10	0.0147
0	-28	0.0411
10	-38	0.0558
20	-40	0.0588
30	8	-0.0118
40	-35	0.0514
50	17	-0.0250

CAT-M1 Band 5 – 844MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	5	-0.0072
3.8	-29	0.0417
3.4	-20	0.0288

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	13	-0.0187
-20	-37	0.0532
-10	-41	0.0590
0	-37	0.0532
10	-3	0.0043
20	-32	0.0460
30	6	-0.0086
40	-28	0.0403
50	22	-0.0316

Product	ME910C1-WW		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/10	Test Site	SR10-H

CAT-M1 Band 26 – 831.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-11	0.0158
3.8	17	-0.0250
3.4	9	-0.0132

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-4	0.0059
-20	8	-0.0118
-10	17	-0.0250
0	-20	0.0294
10	-28	0.0411
20	10	-0.0147
30	22	-0.0323
40	7	-0.0103
50	20	-0.0294

CAT-M1 Band 26 – 836.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-37	0.0550
3.8	15	-0.0223
3.4	-21	0.0312

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-31	0.0461
-20	22	-0.0327
-10	-26	0.0386
0	-25	0.0371
10	23	-0.0342
20	-5	0.0074
30	-40	0.0594
40	-31	0.0461
50	-27	0.0401

CAT-M1 Band 26 – 841.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	5	-0.0072
3.8	20	-0.0288
3.4	16	-0.0230

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-5	0.0072
-20	-31	0.0446
-10	-21	0.0302
0	17	-0.0244
10	14	-0.0201
20	-42	0.0604
30	-39	0.0561
40	8	-0.0115
50	19	-0.0273

Product	ME910C1-WW		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/10	Test Site	SR10-H

CAT-M1 Band 26 – 816.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-21	0.0312
3.8	-26	0.0386
3.4	-15	0.0223

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-27	0.0401
-20	-34	0.0505
-10	23	-0.0342
0	-32	0.0475
10	-10	0.0149
20	-1	0.0015
30	-3	0.0045
40	-6	0.0089
50	-34	0.0505

CAT-M1 Band 26 – 819MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-40	0.0588
3.8	-37	0.0544
3.4	-23	0.0338

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	17	-0.0250
-20	1	-0.0015
-10	8	-0.0118
0	-27	0.0397
10	-7	0.0103
20	-36	0.0529
30	-33	0.0485
40	17	-0.0250
50	-27	0.0397

CAT-M1 Band 26 – 821.5MHz

Voltage

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	5	-0.0072
3.8	21	-0.0302
3.4	-23	0.0331

Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-30	0.0431
-20	3	-0.0043
-10	6	-0.0086
0	9	-0.0129
10	-23	0.0331
20	3	-0.0043
30	20	-0.0288
40	-18	0.0259
50	-25	0.0359

Attachment 1

➤ **Test Setup Photograph** **<Radiated Emission>**

Description : Front View of Radiated Emission Test Setup (Bilog)



Description : Back View of Radiated Emission Test Setup (Bilog)



Description : Front View of Radiated Emission Test Setup (Horn)



Description : Back View of Radiated Emission Test Setup (Horn)



Description: Detailed View of Radiated emission Test Setup



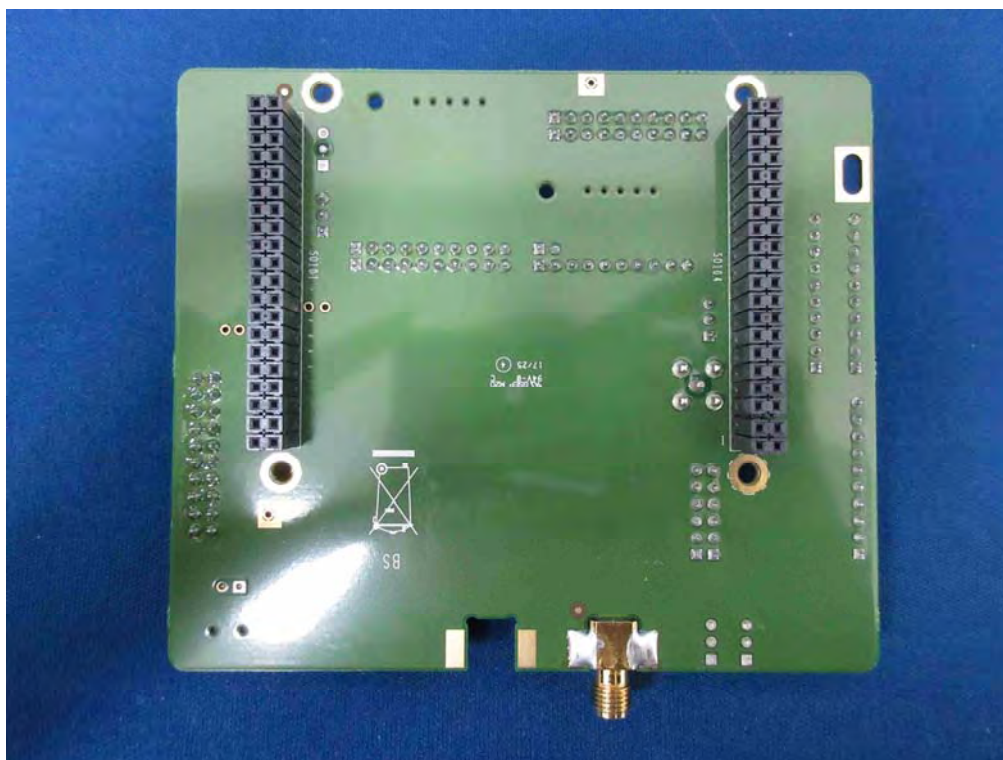
Attachment 2

➤ EUT External Photograph

(1) EUT Photo



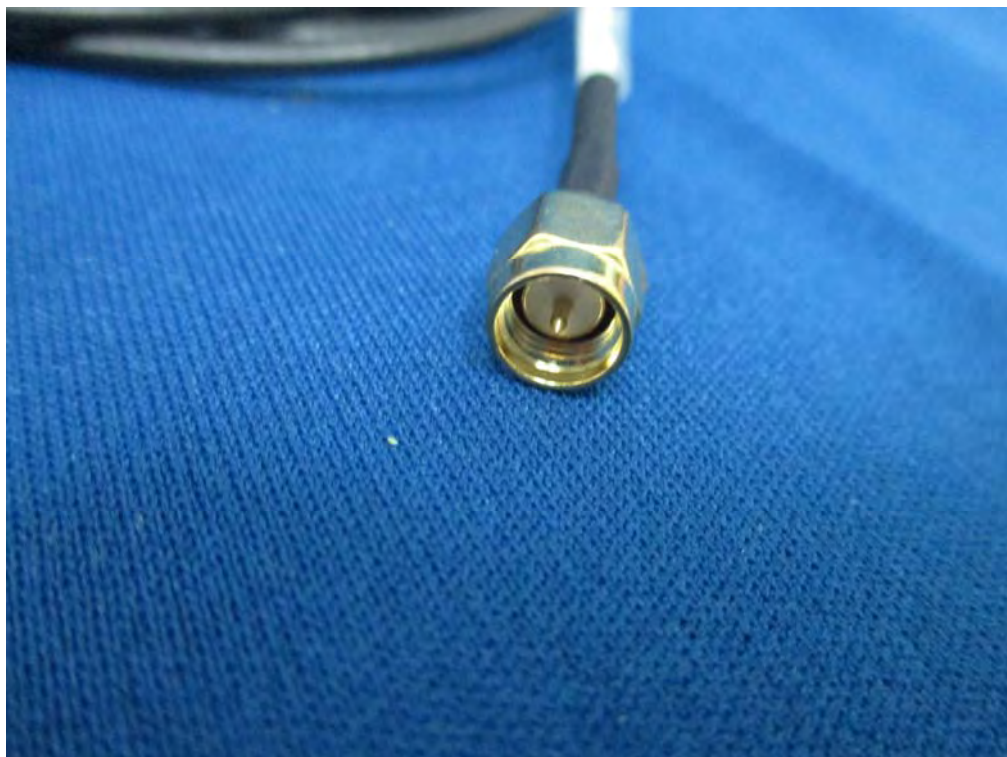
(2) EUT Photo



(3) EUT Photo (Antenna)



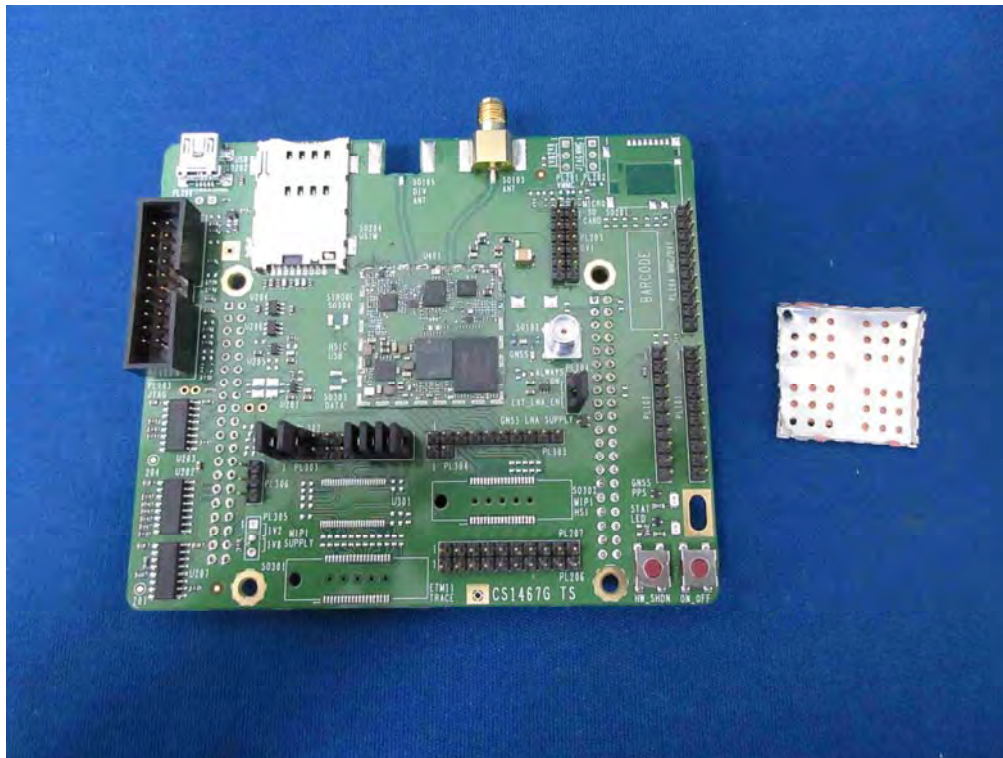
(4) EUT Photo



Attachment 3

➤ EUT Internal Photograph

(1) EUT Photo



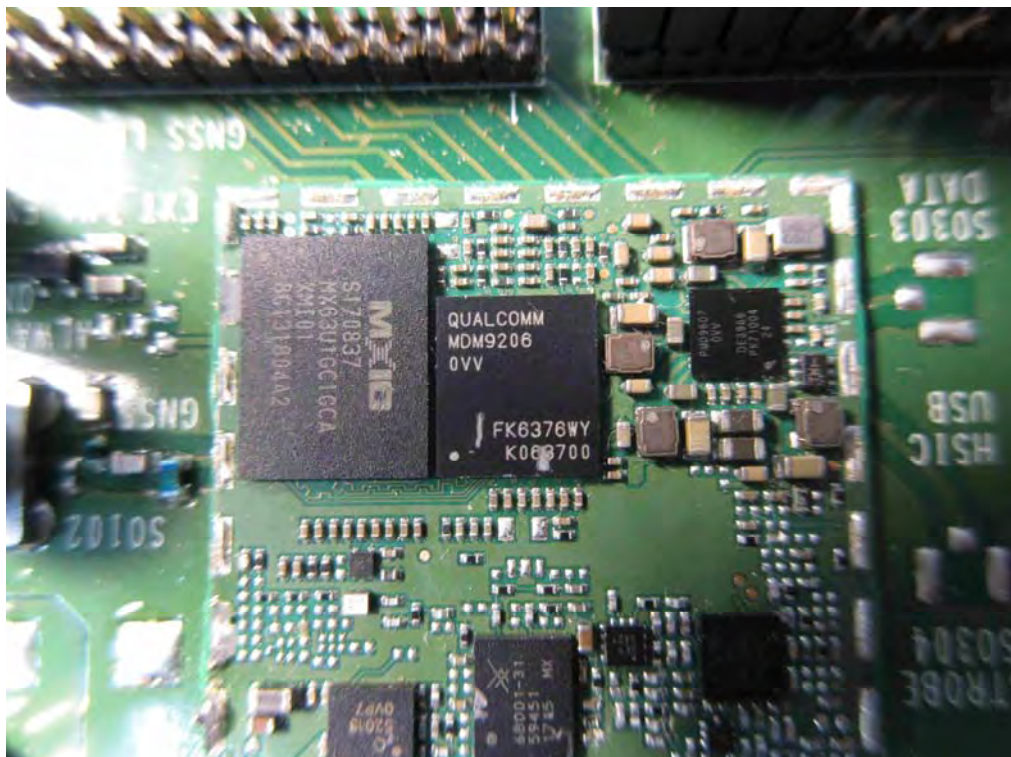
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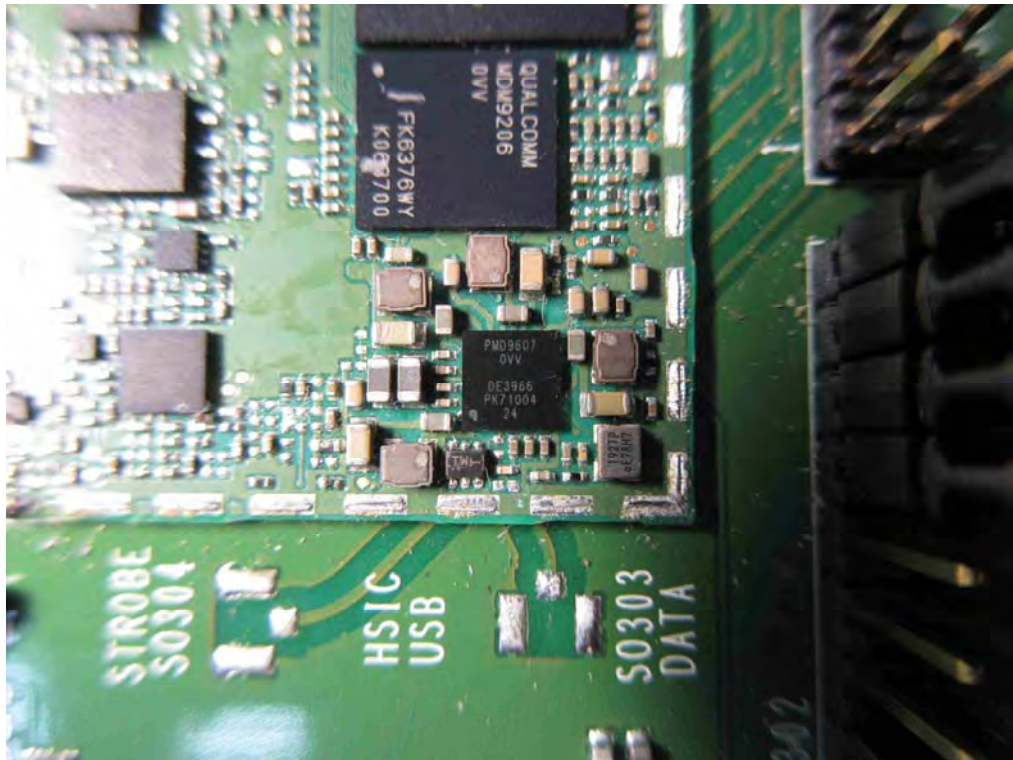
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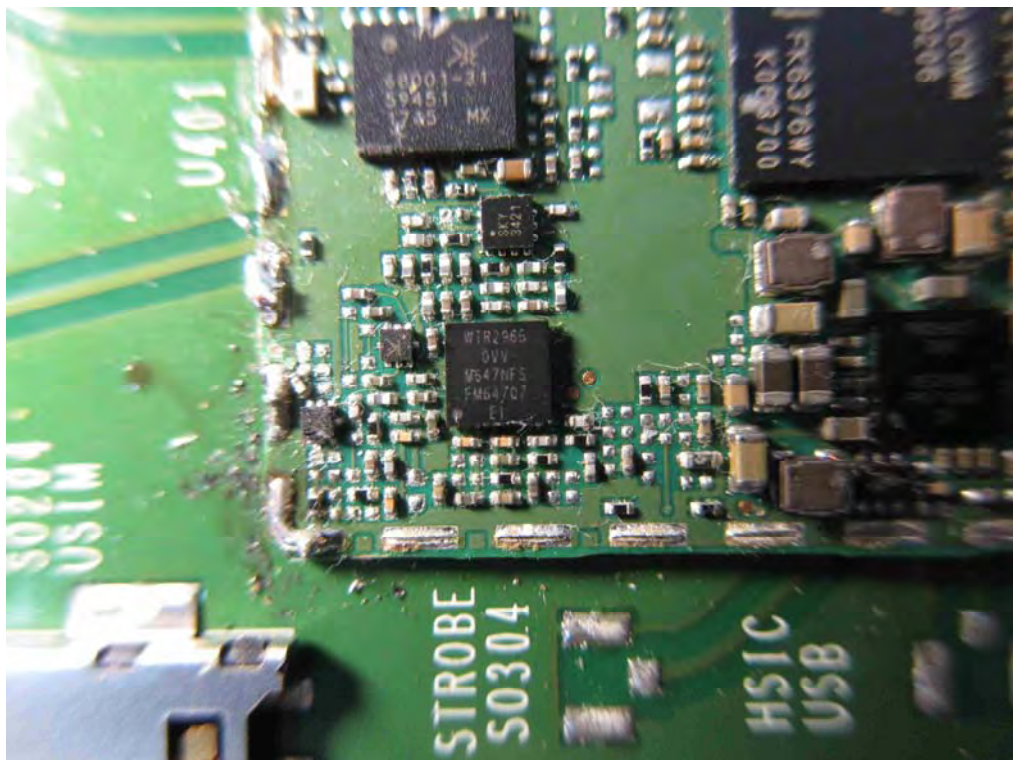
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(5) EUT Photo



(6) EUT Photo



(7) EUT Photo

