

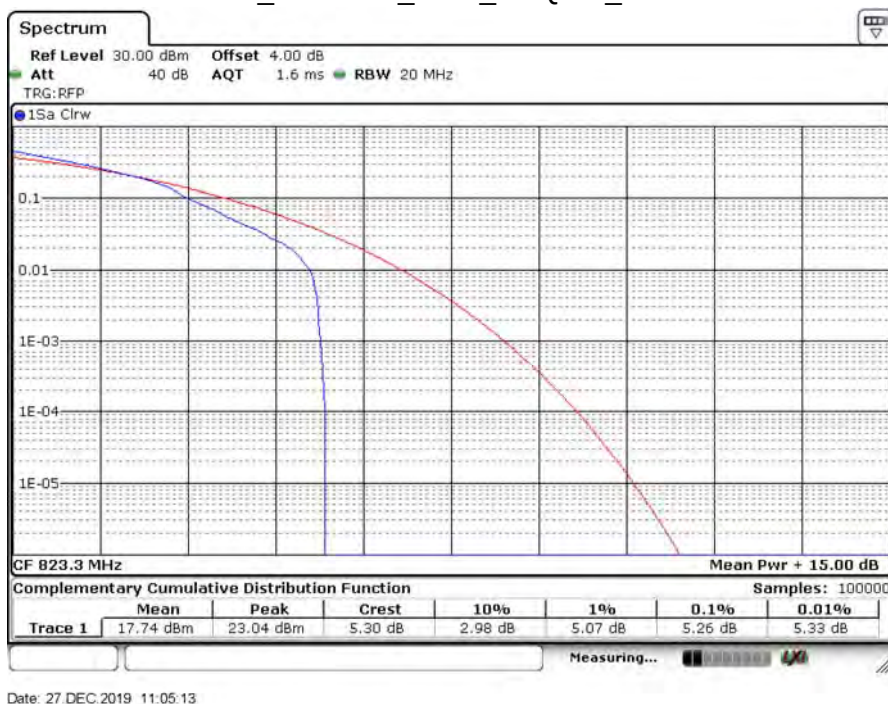
Product	M2M DATA MODULE		
Test Item	Peak To Average Ratio (Part 90)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/27	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26697	814.7	QPSK	22.71	18.24	4.46
			16-QAM	23.04	17.74	5.26
	26740	819	QPSK	24.14	20.73	4.39
			16-QAM	25.62	20.38	5.22
	26783	823.3	QPSK	25.11	20.63	4.46
			16-QAM	25.72	20.49	5.20
3M	26705	815.5	QPSK	25.29	20.96	4.33
			16-QAM	25.36	20.01	5.28
	26740	819	QPSK	25.29	20.93	4.35
			16-QAM	25.37	20.03	5.28
	26775	822.5	QPSK	25.21	20.87	4.35
			16-QAM	25.29	19.97	5.30
5M	26715	816.5	QPSK	25.27	20.94	4.30
			16-QAM	25.49	20.57	4.91
	26740	819	QPSK	25.46	21.19	4.24
			16-QAM	25.57	20.65	4.87
	26765	821.5	QPSK	25.19	20.89	4.28
			16-QAM	25.40	20.48	4.93
10M	26740	819 low	QPSK	24.81	20.48	4.30
			16-QAM	25.06	20.10	4.93
	26865	819 high	QPSK	24.96	20.66	4.28
			16-QAM	25.15	20.26	4.87

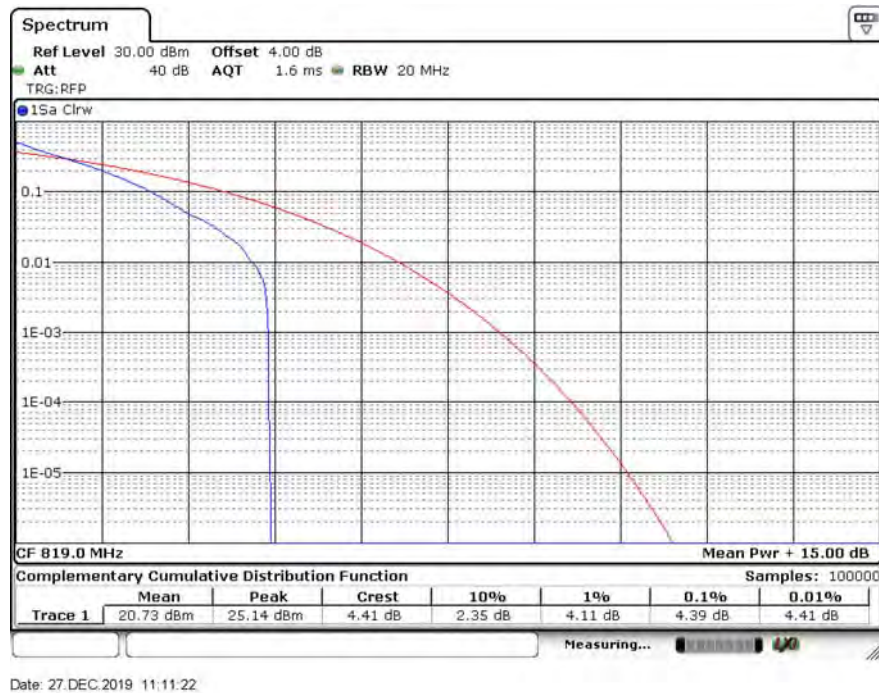
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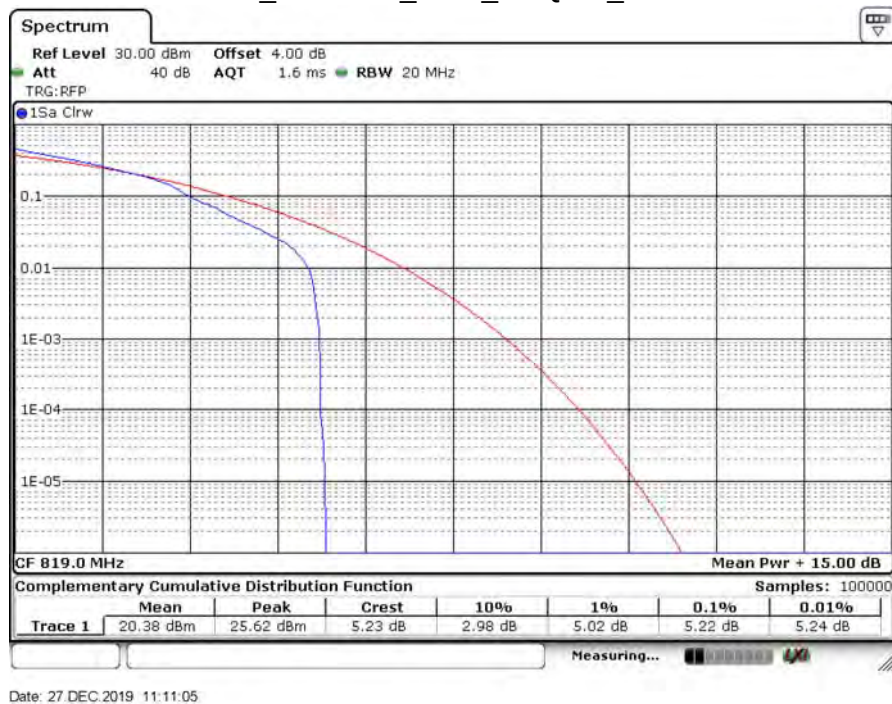
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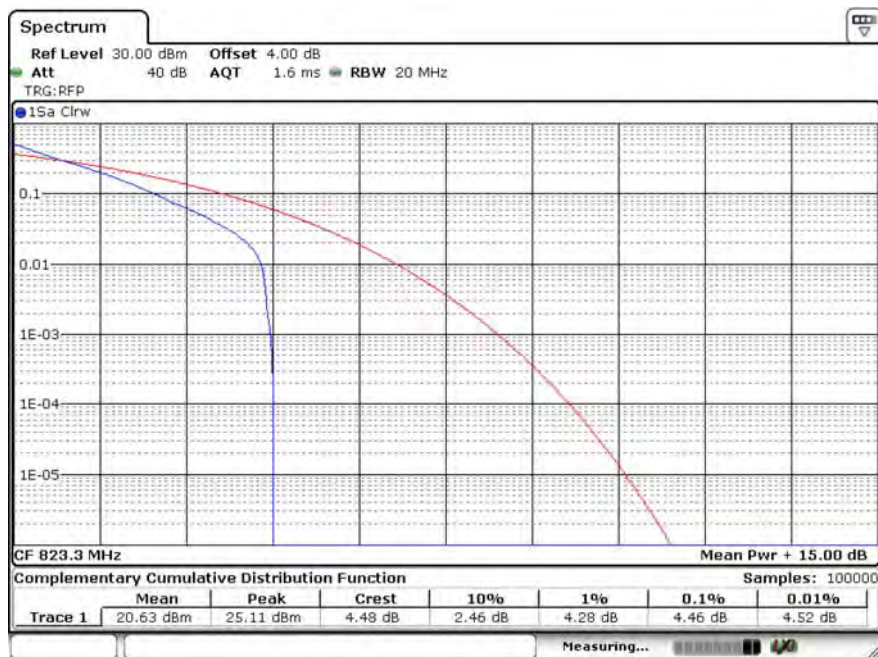
B26_CH26740_1.4M_QPSK_1RB0



B26_CH26740_1.4M_16-QAM_1RB0



B26_CH26783_1.4M_QPSK_1RB5



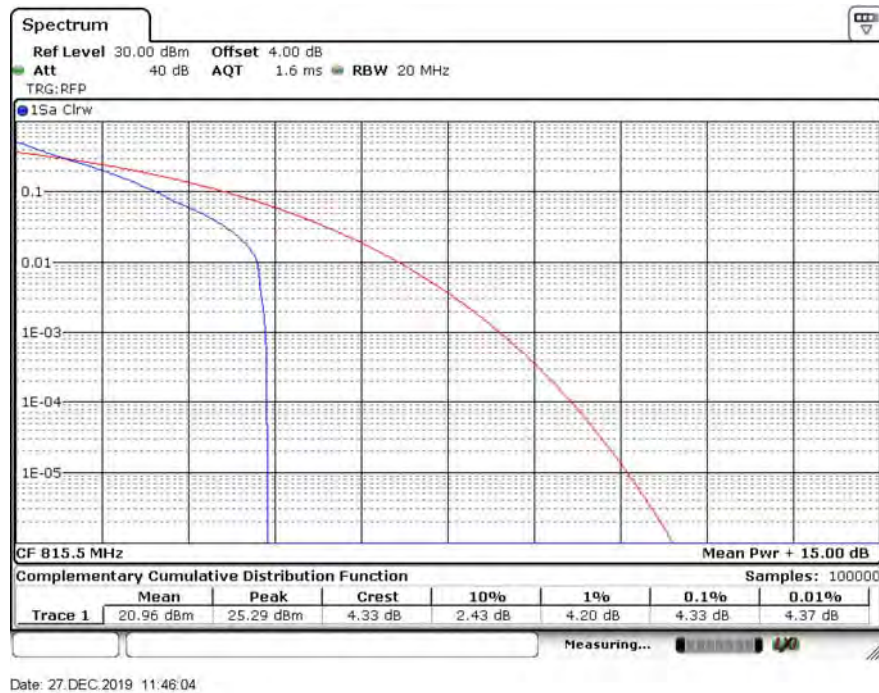
Date: 27 DEC 2019 11:04:11

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Date: 27 DEC 2019 11:03:52

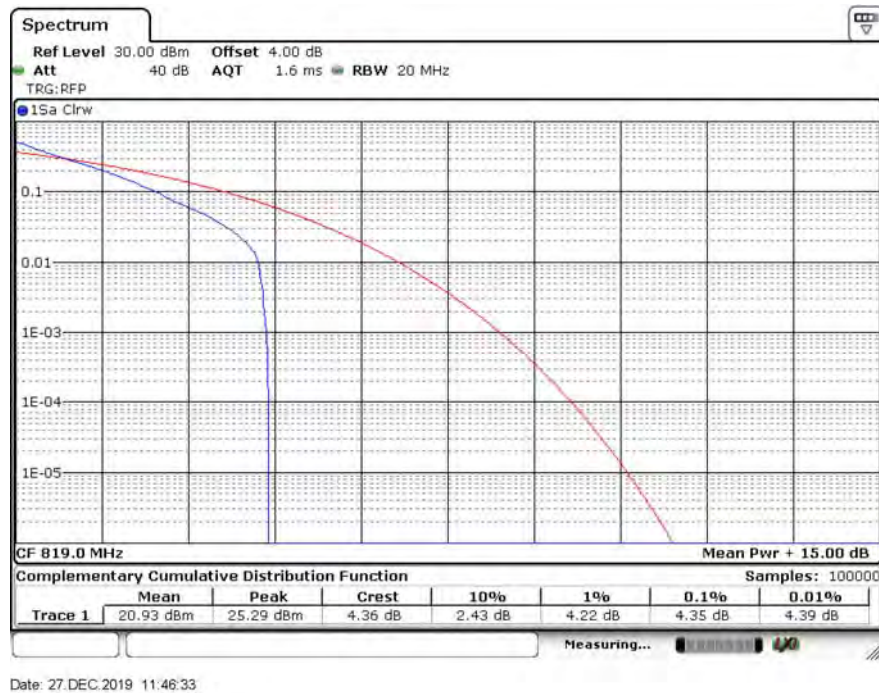
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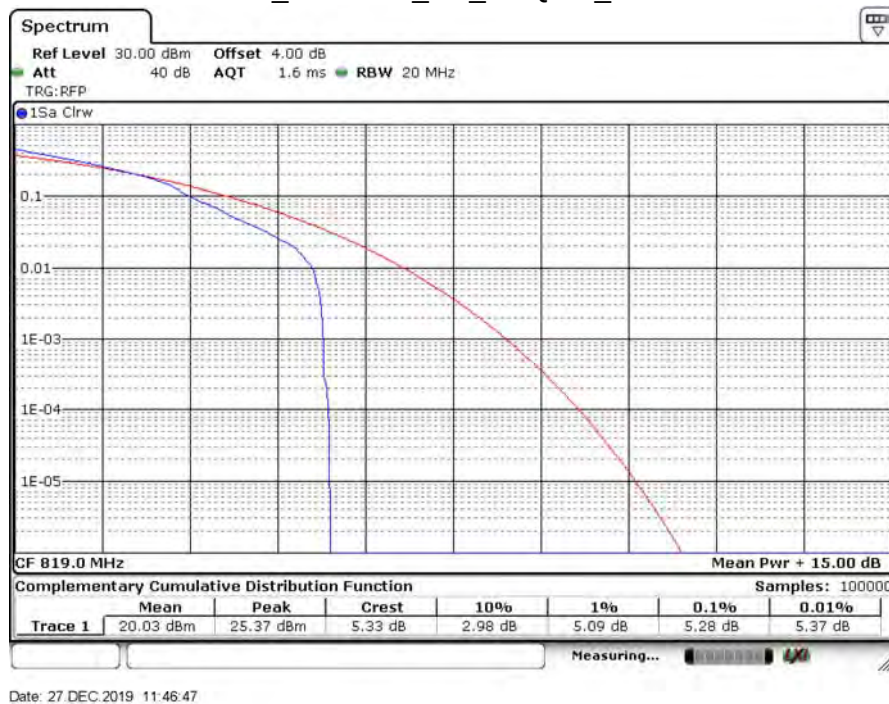
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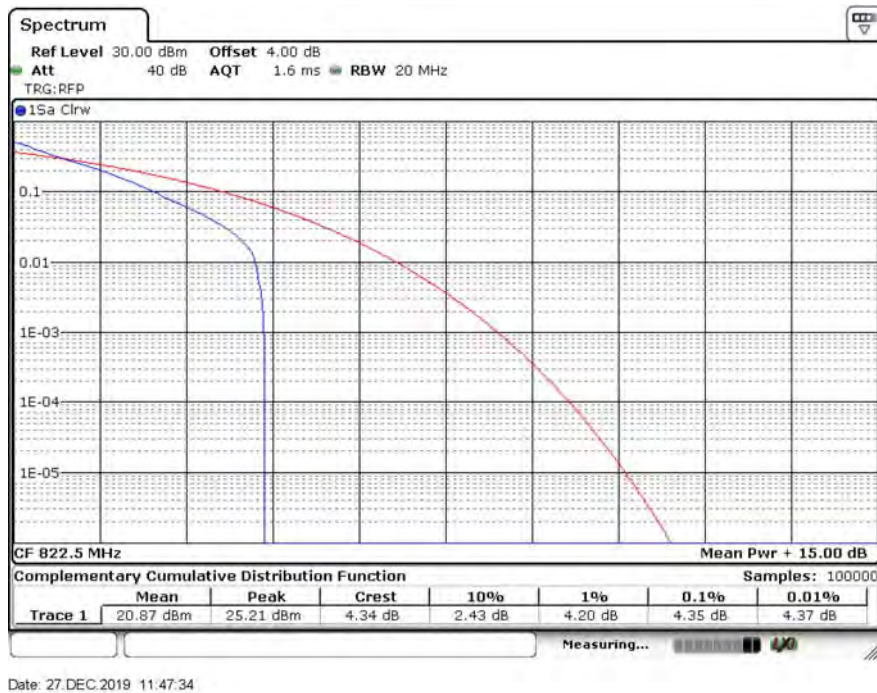
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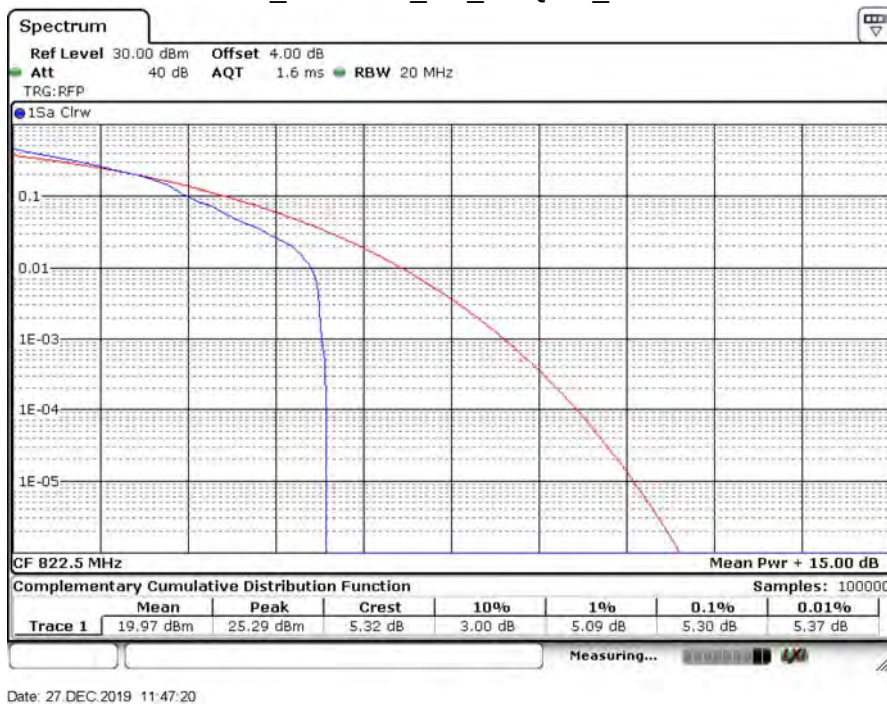
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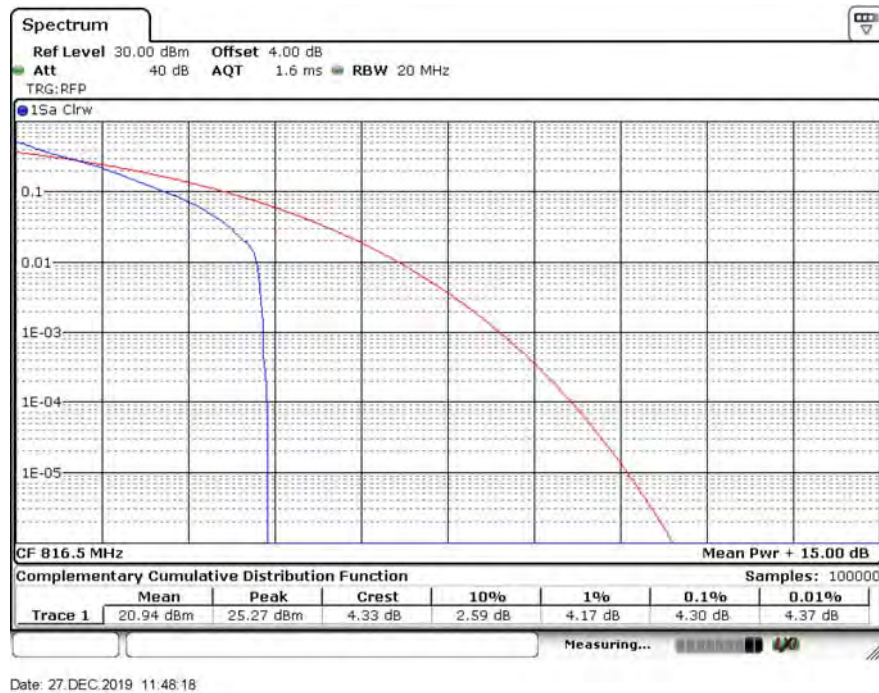
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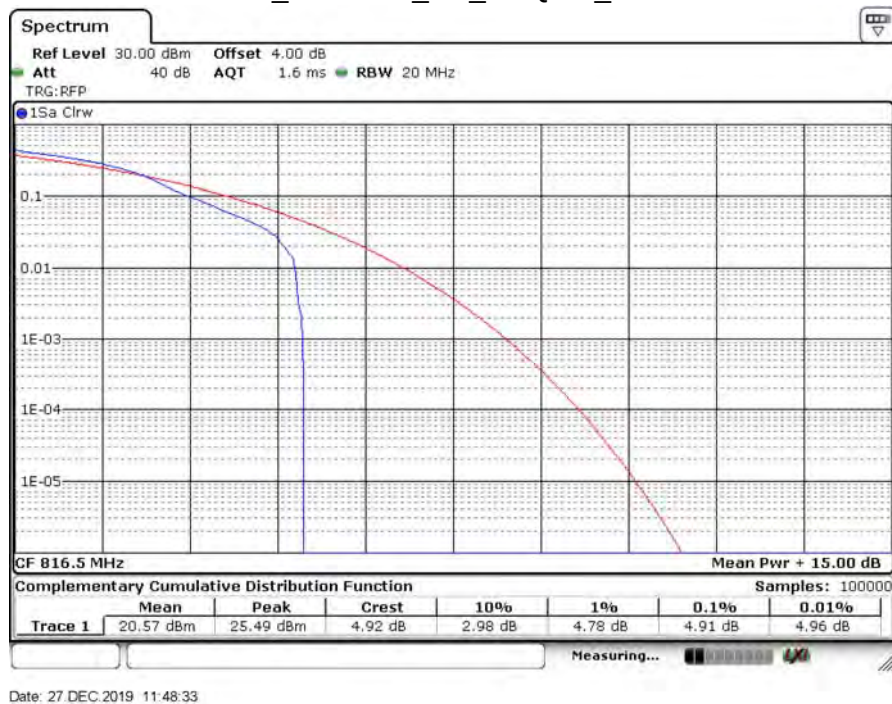
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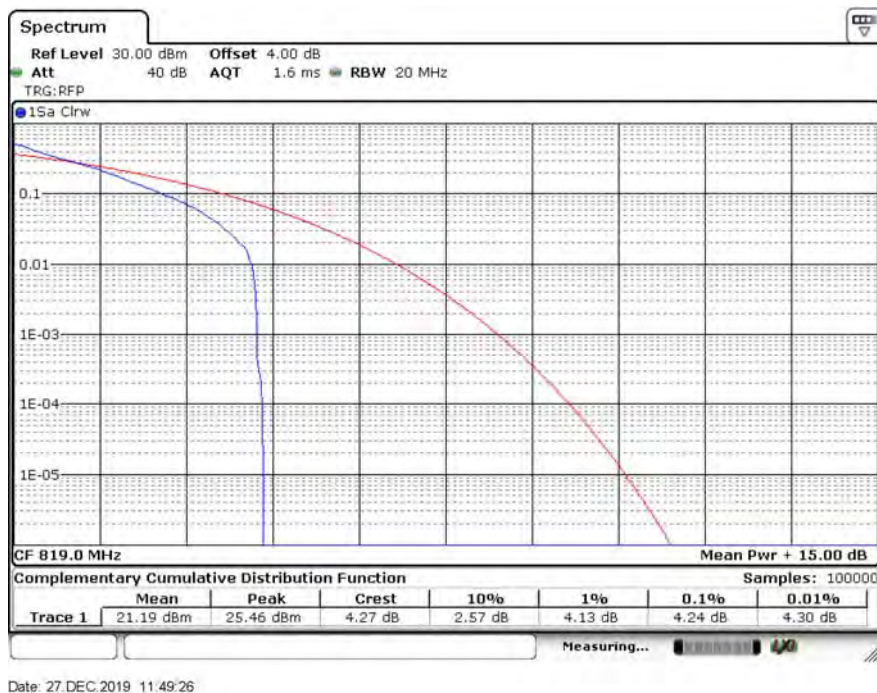
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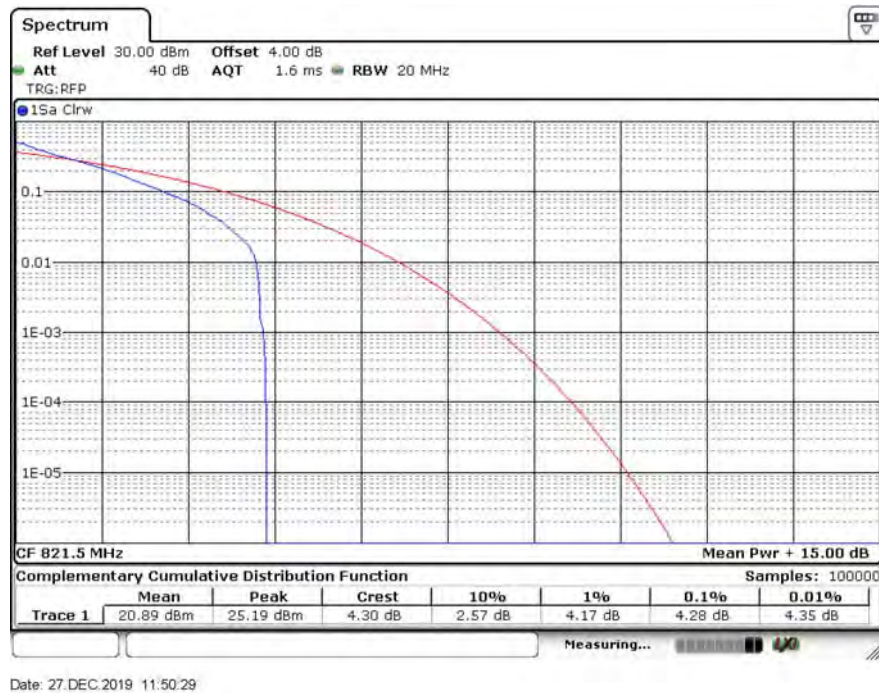
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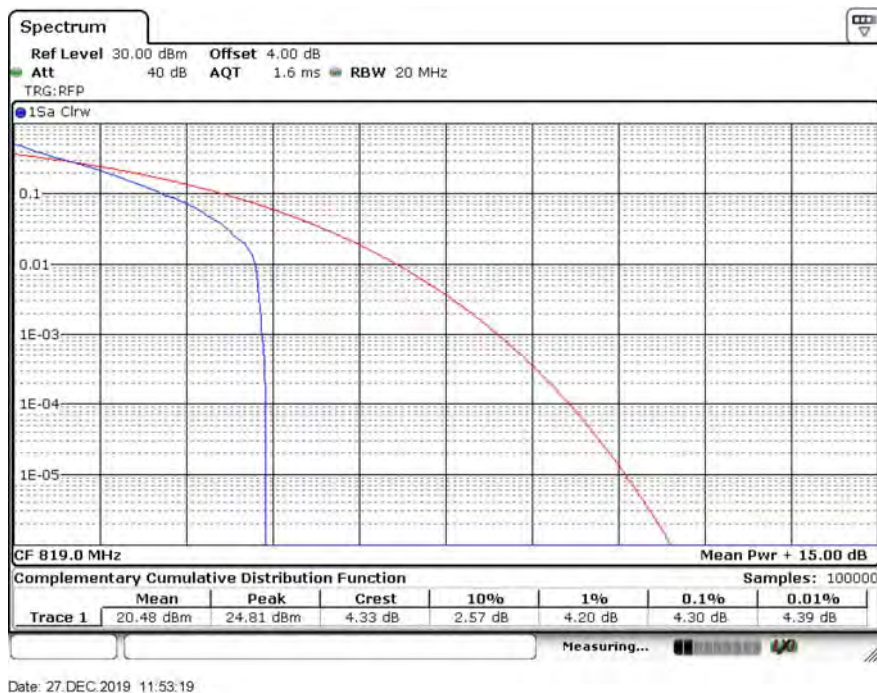
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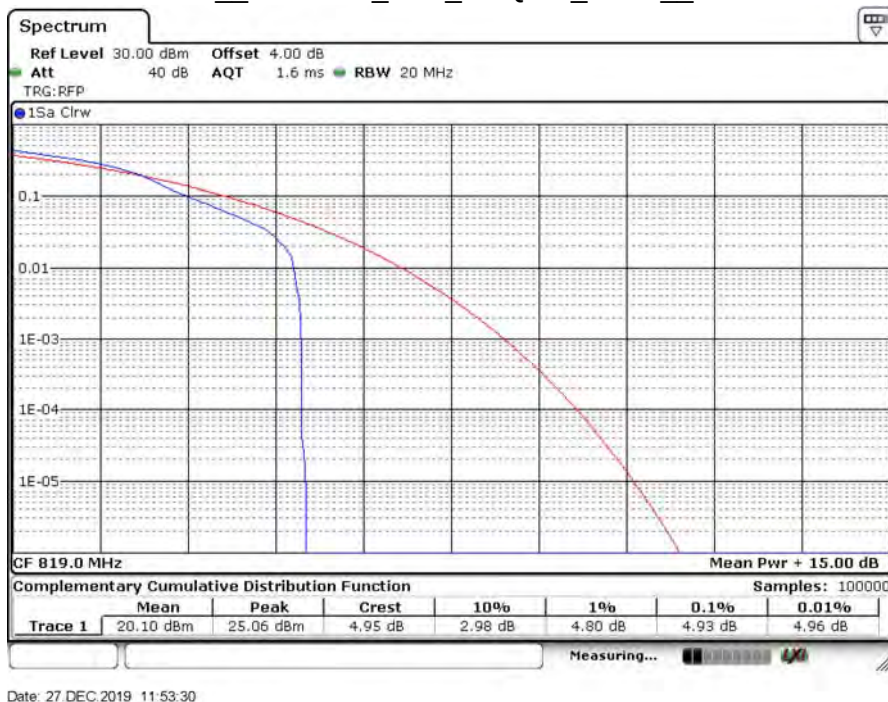
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B26__CH26740_10M_QPSK_1RB0__low



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B26_CH26740_10M_QPSK_1RB5_high



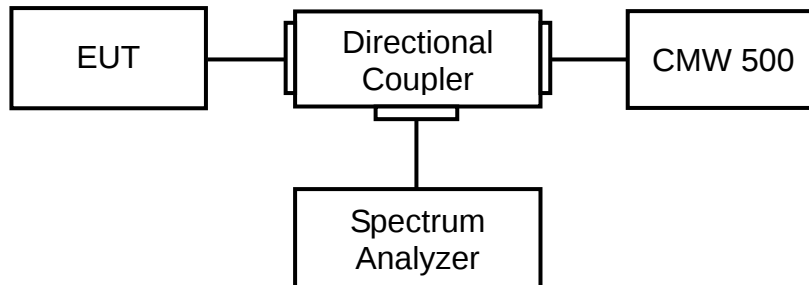
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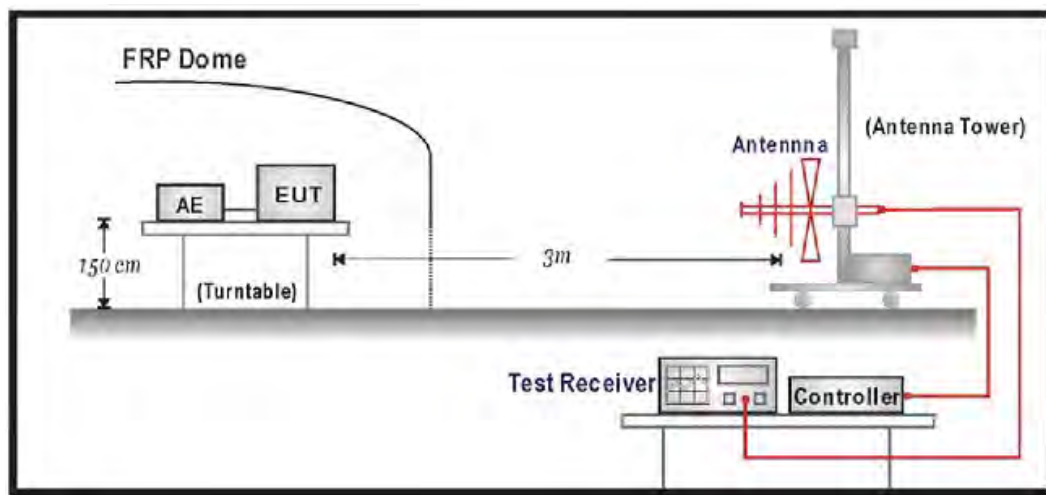
6. Spurious Emissions

6.1. Test Setup

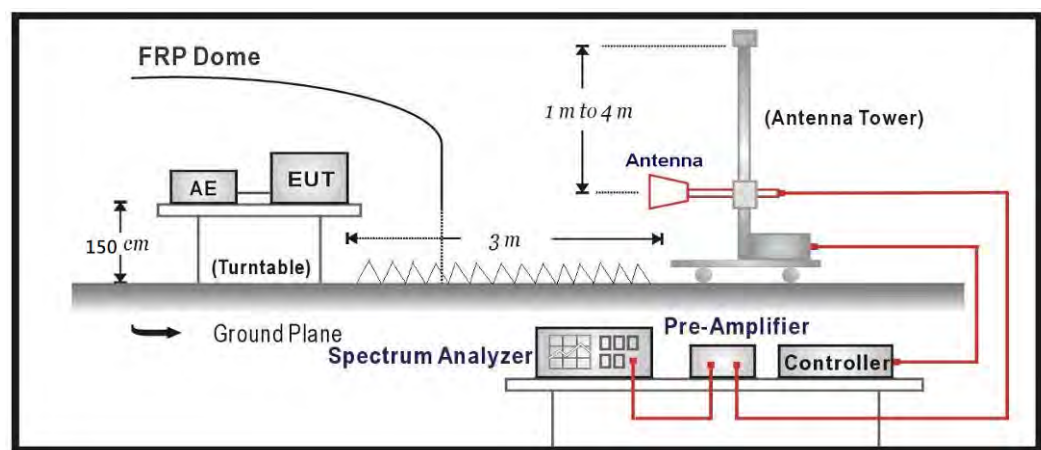
Conducted Spurious Measurement:



Radiated Spurious Measurement (below 1GHz)



Radiated Spurious Measurement (above 1GHz)



6.2. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) 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.

Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port
- i) Repeat step 7 to step 8 for another polarization.
- j) $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

6.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1
ANSI C63.26: 2015 Sub-clause 5.7

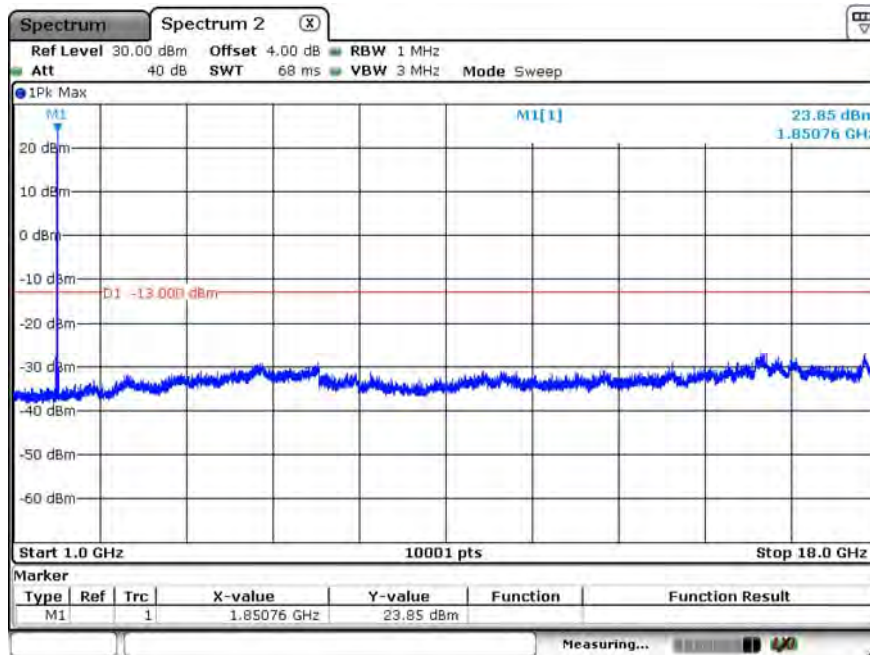
Radiated Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8
ANSI C63.26: 2015 Sub-clause 5.5.3.2

6.4. Test Result

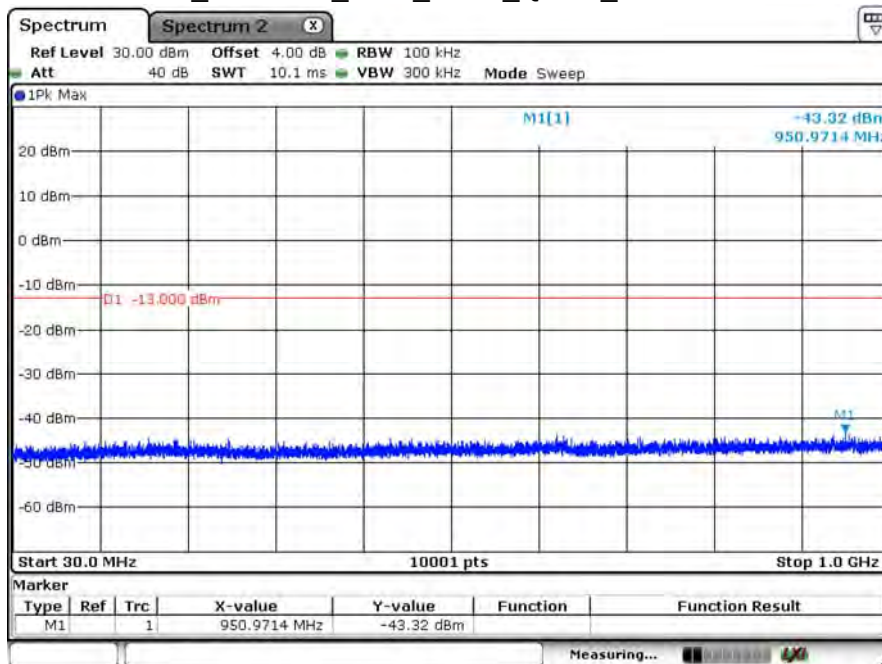
Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/12/30	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	61%RH

B2_CH18607_1.4M_1RB0_QPSK_Above 1G



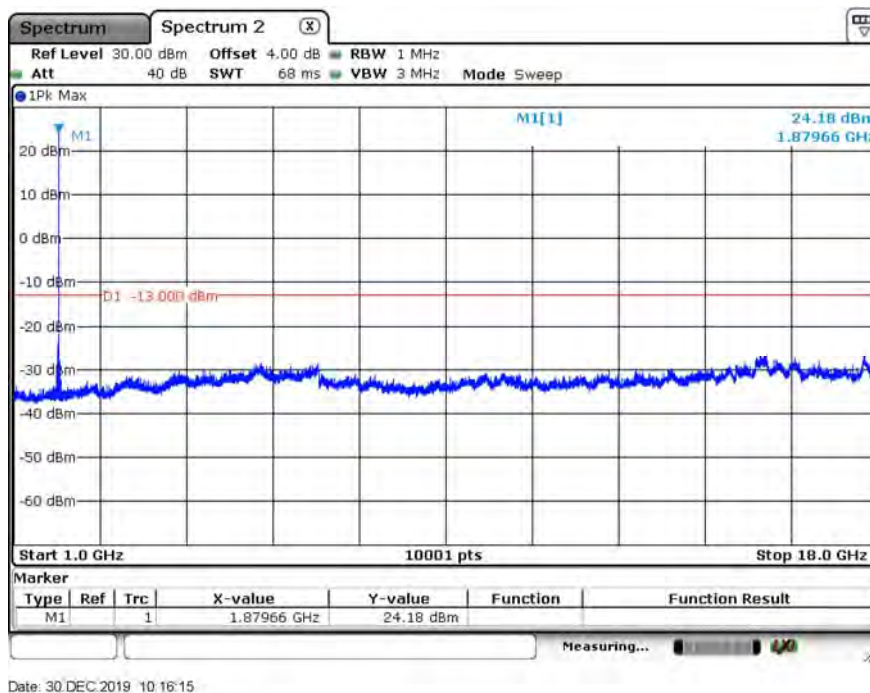
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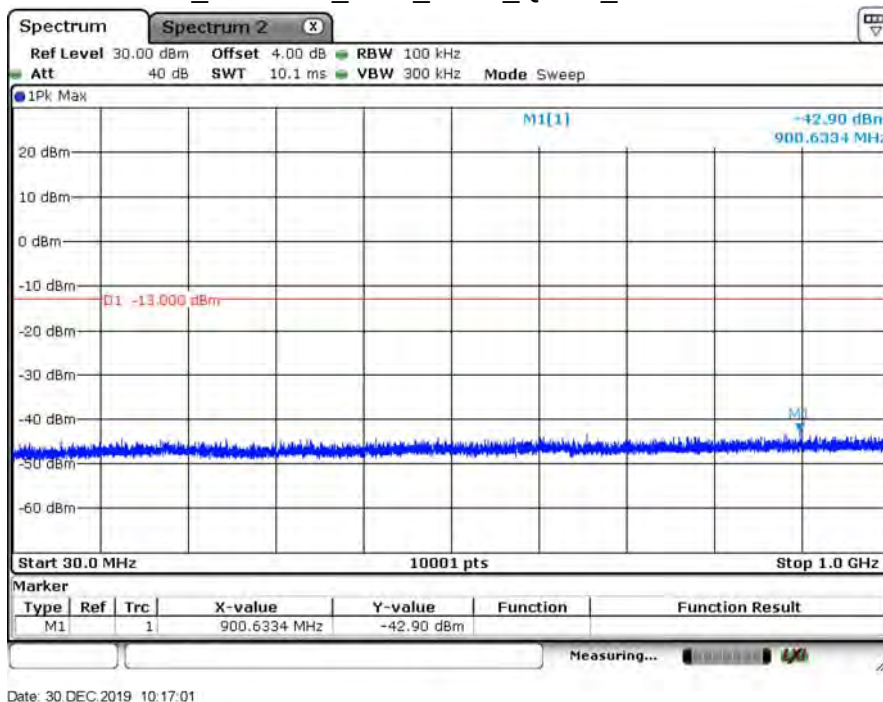


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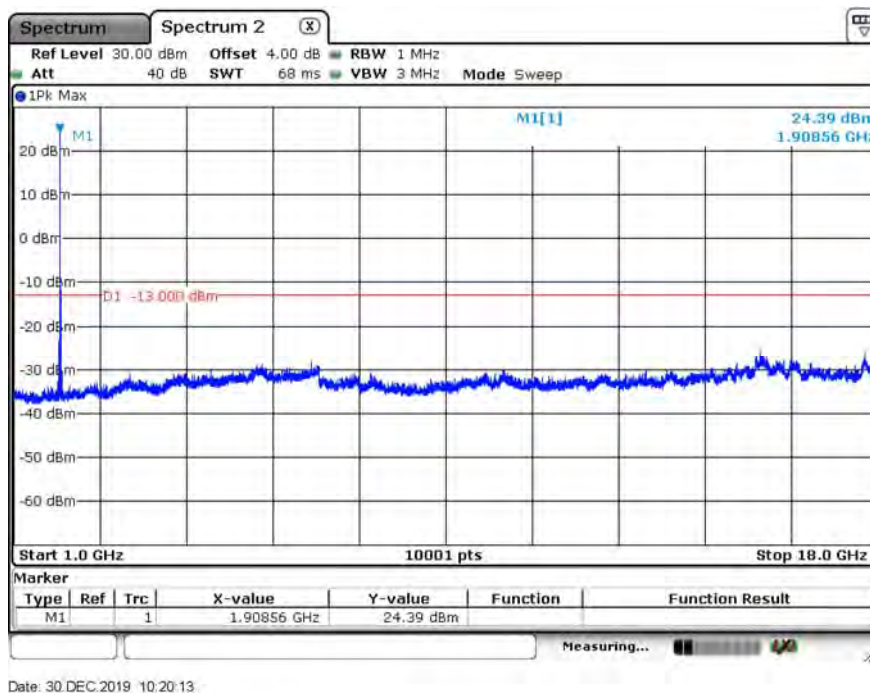
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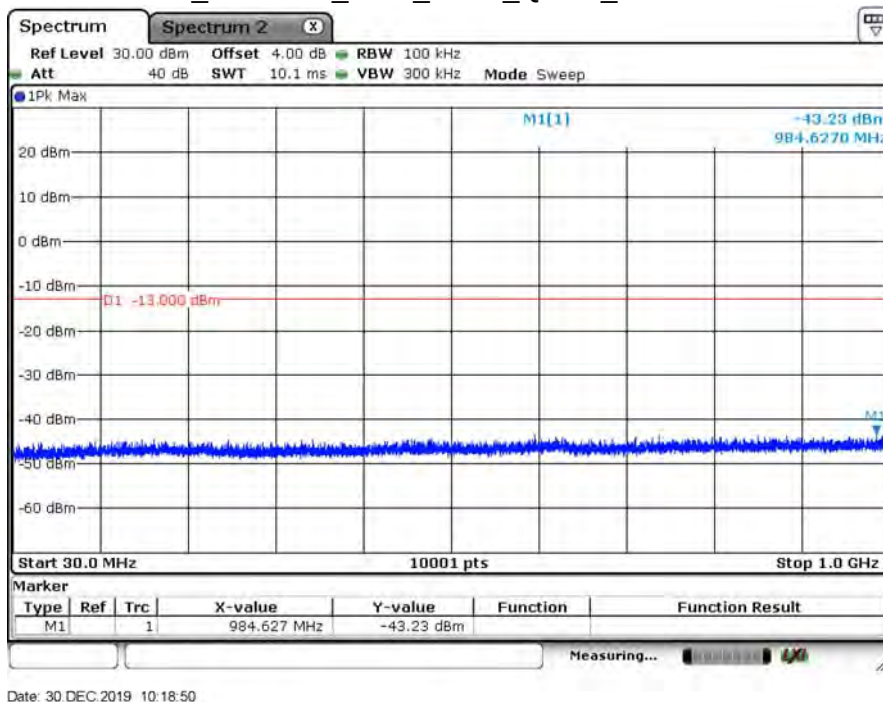
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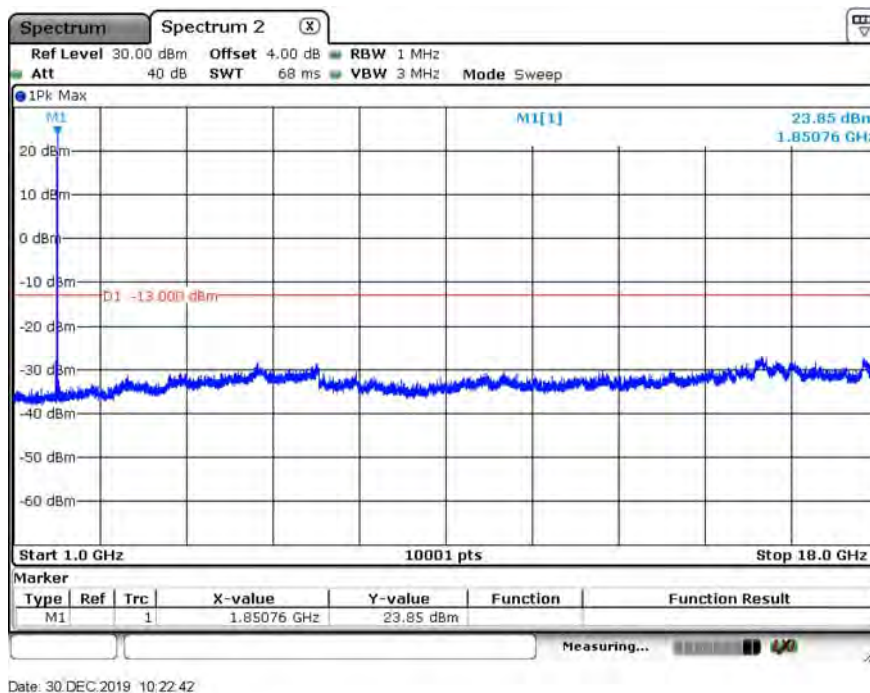
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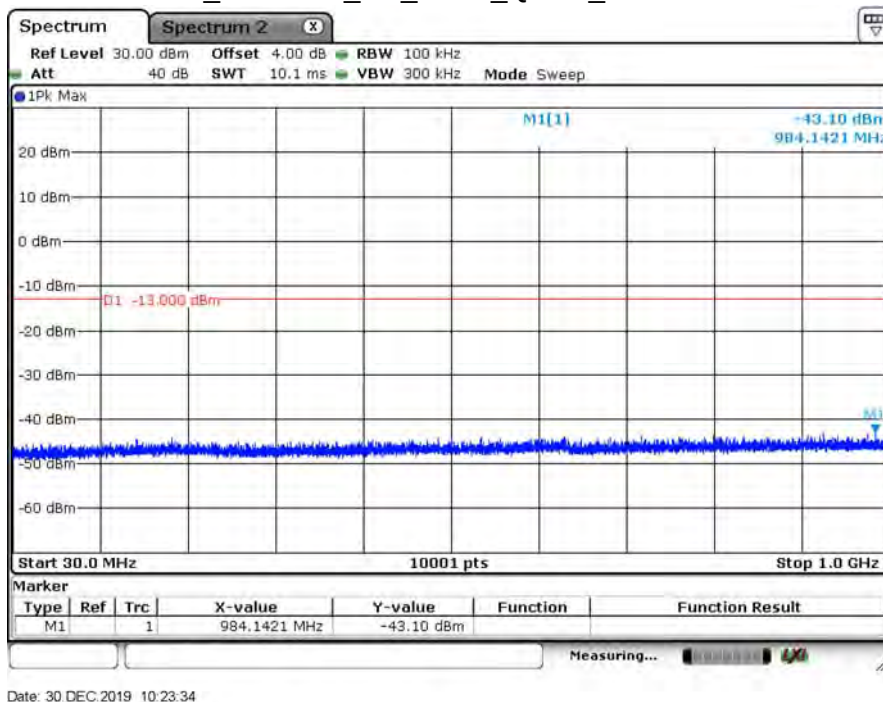
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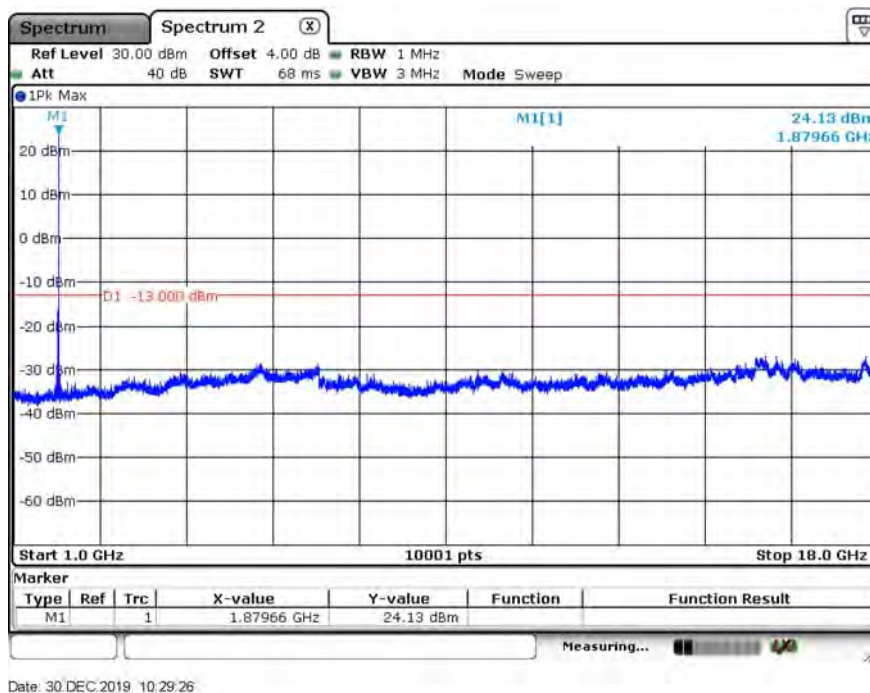
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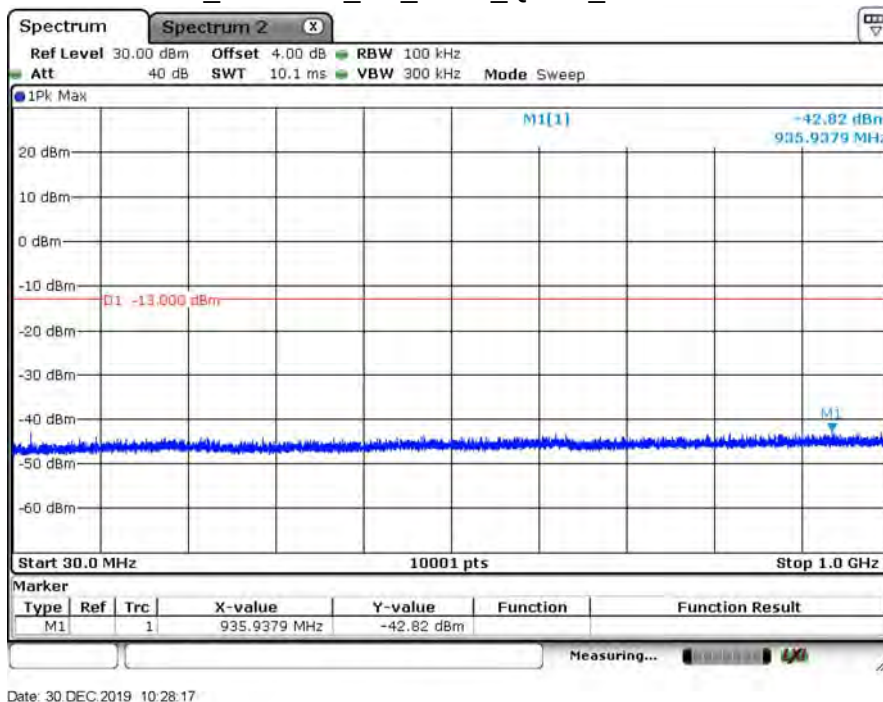
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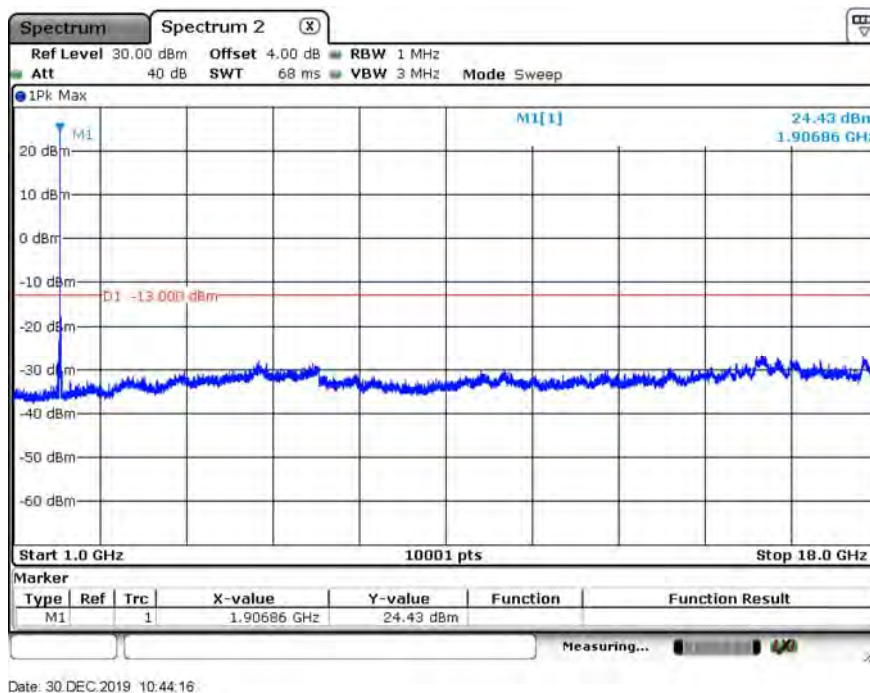
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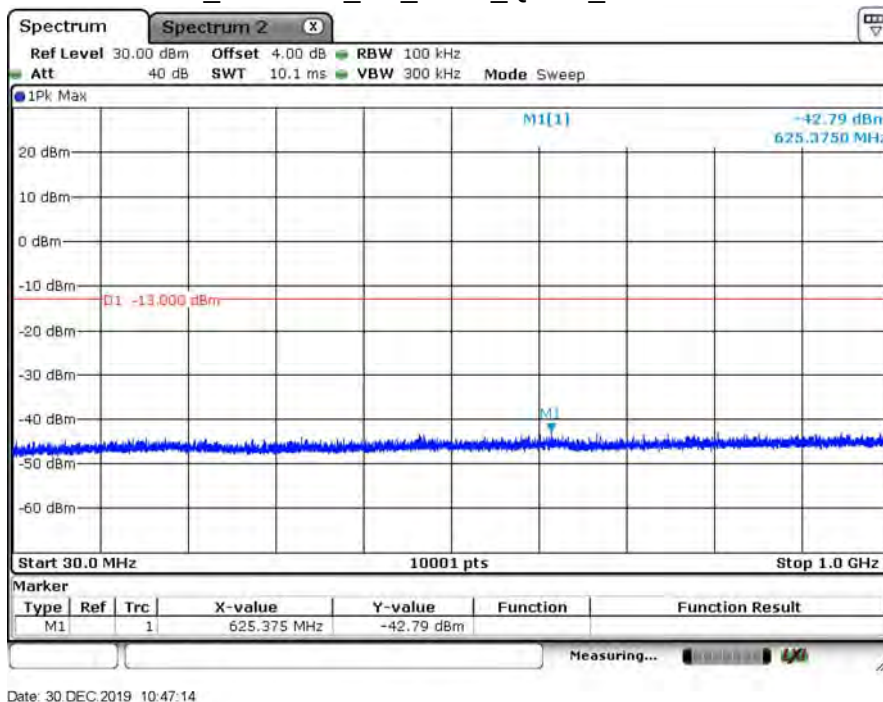
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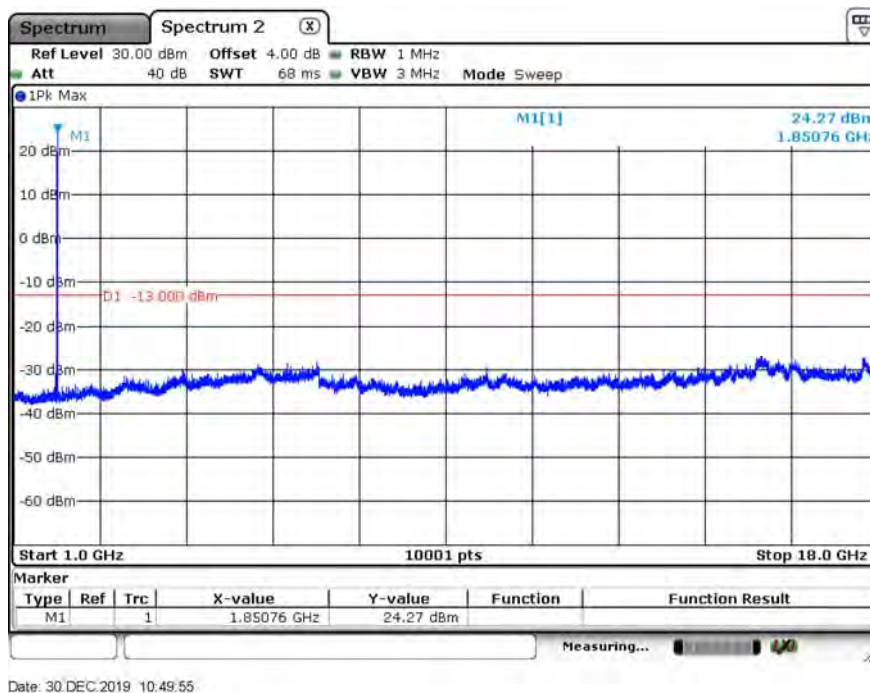
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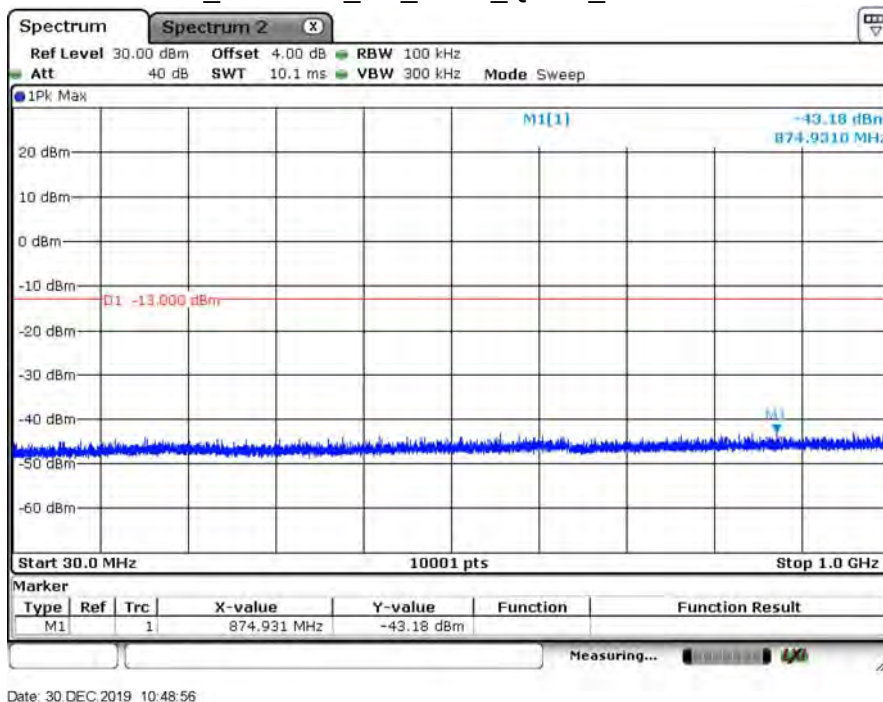
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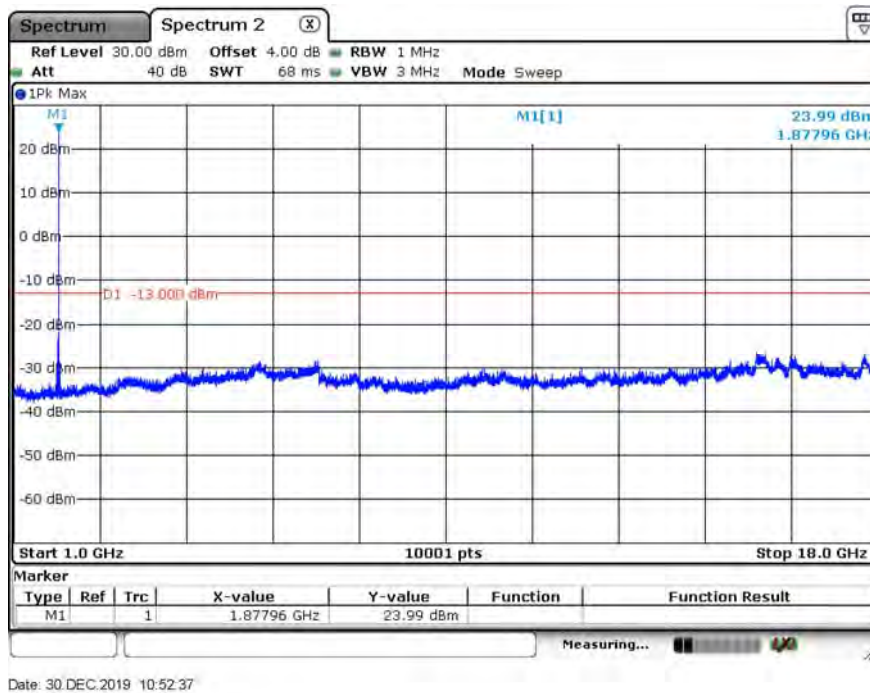
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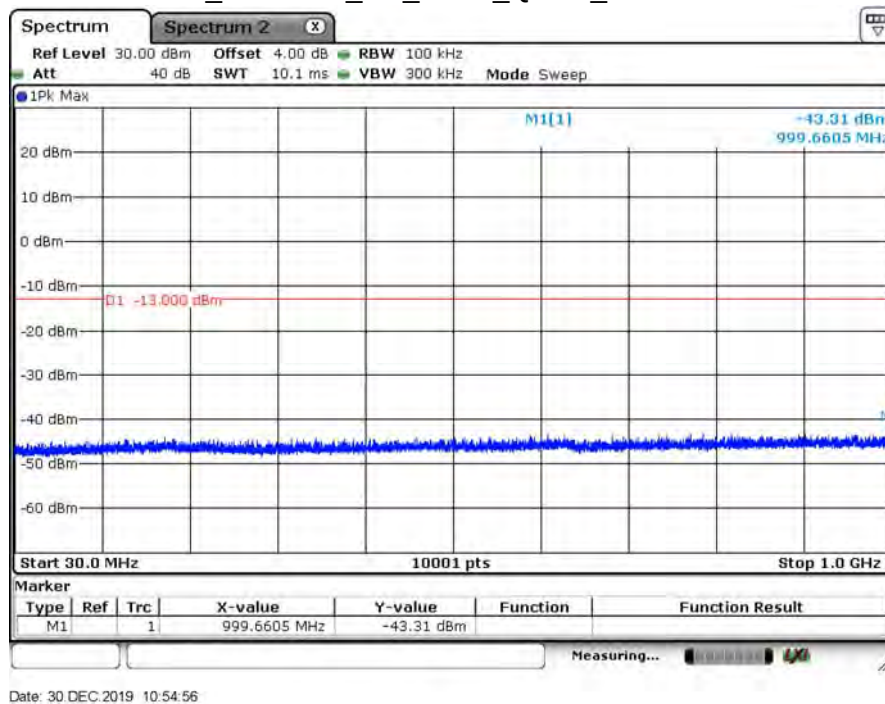
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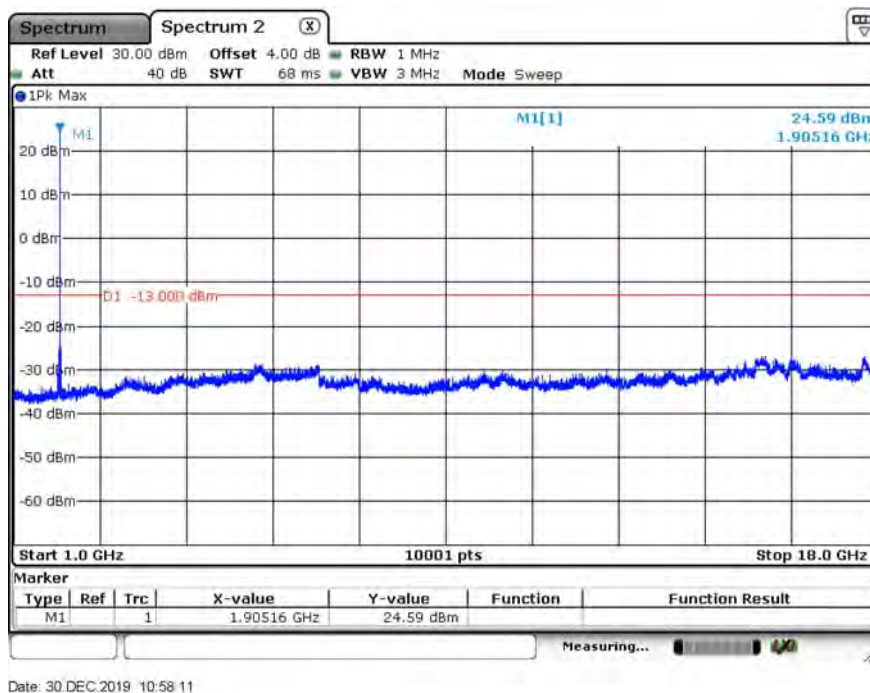
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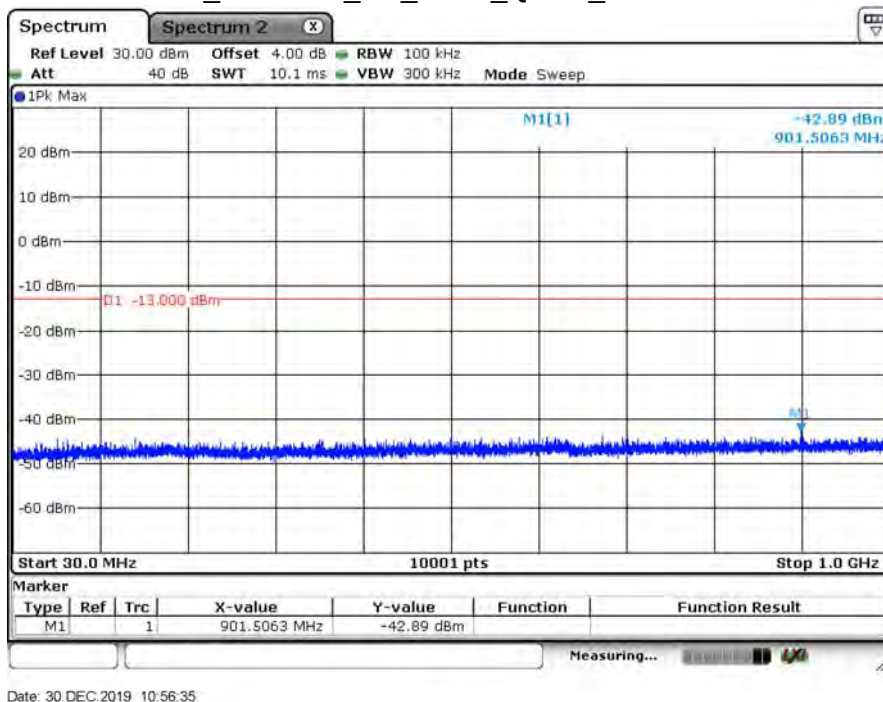
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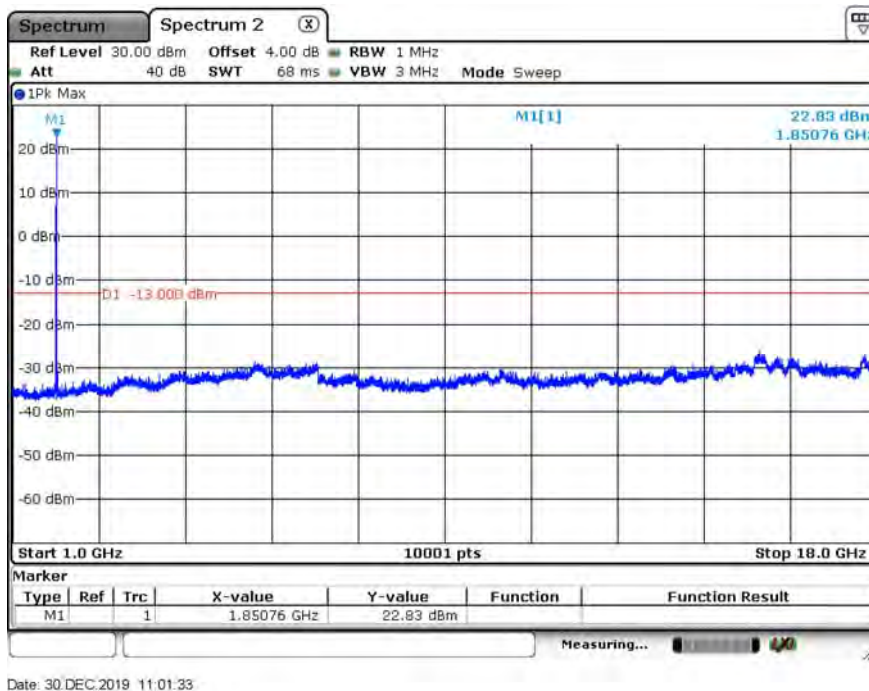
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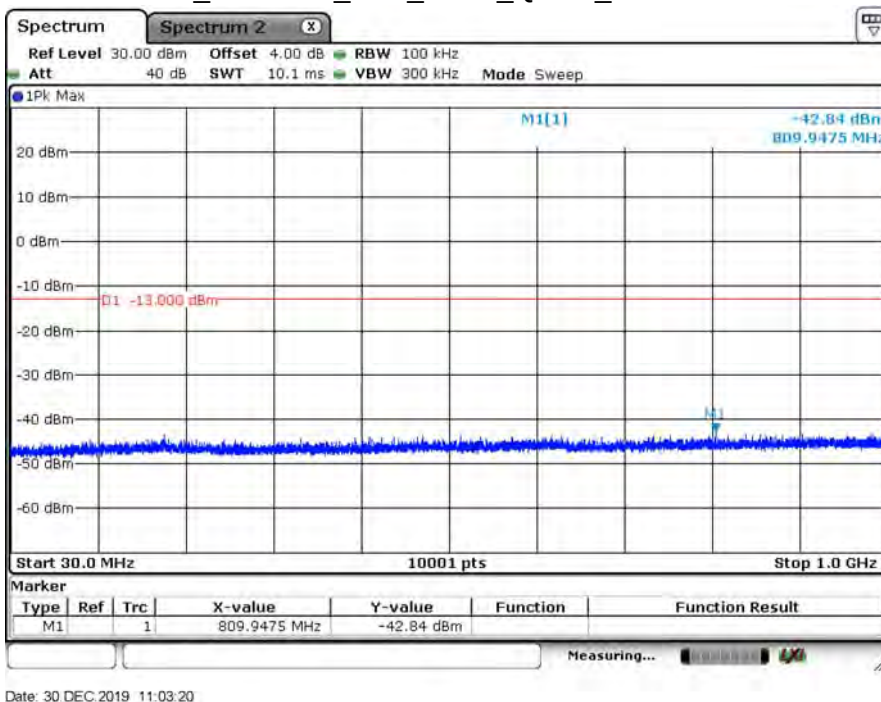
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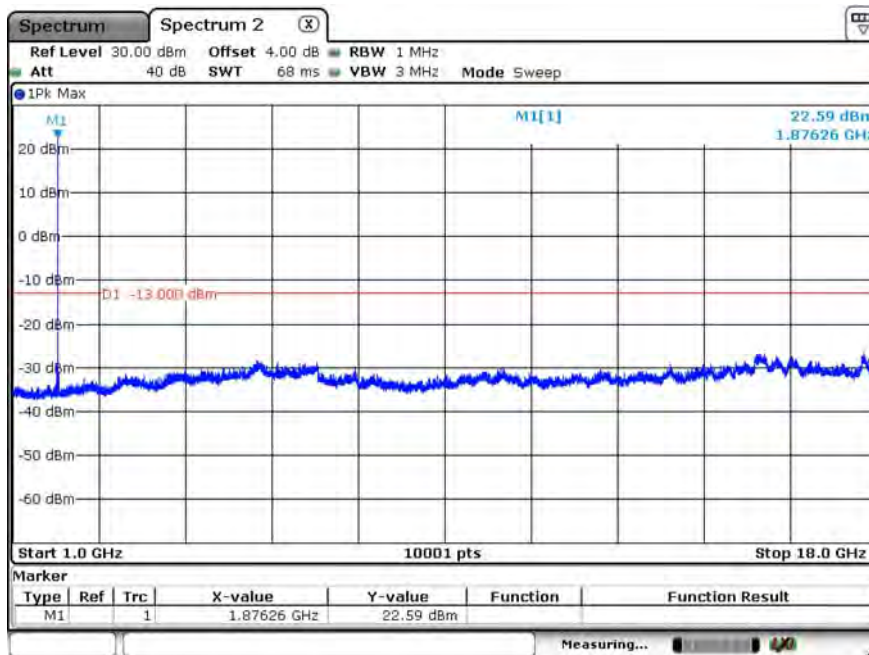
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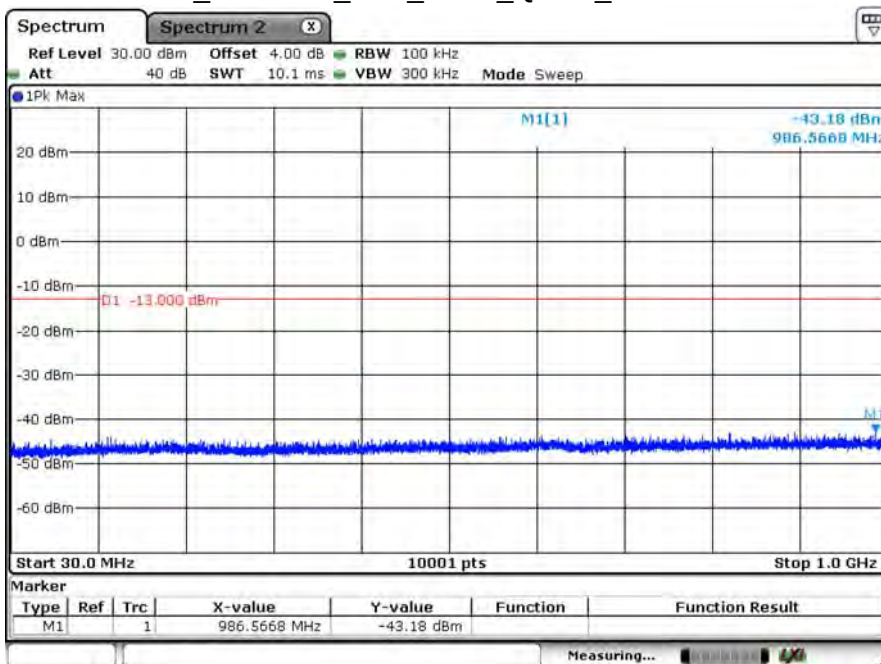


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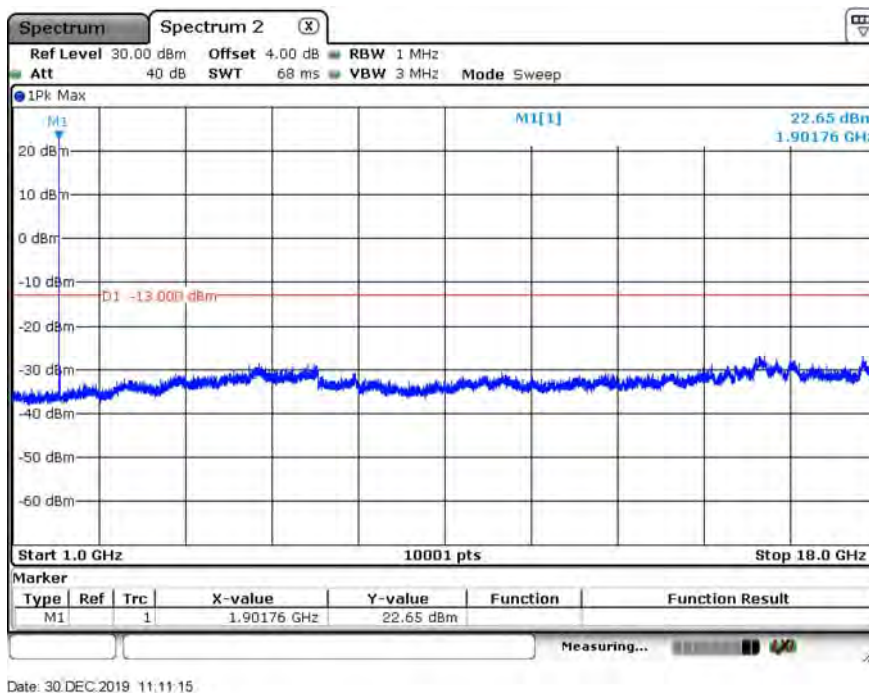
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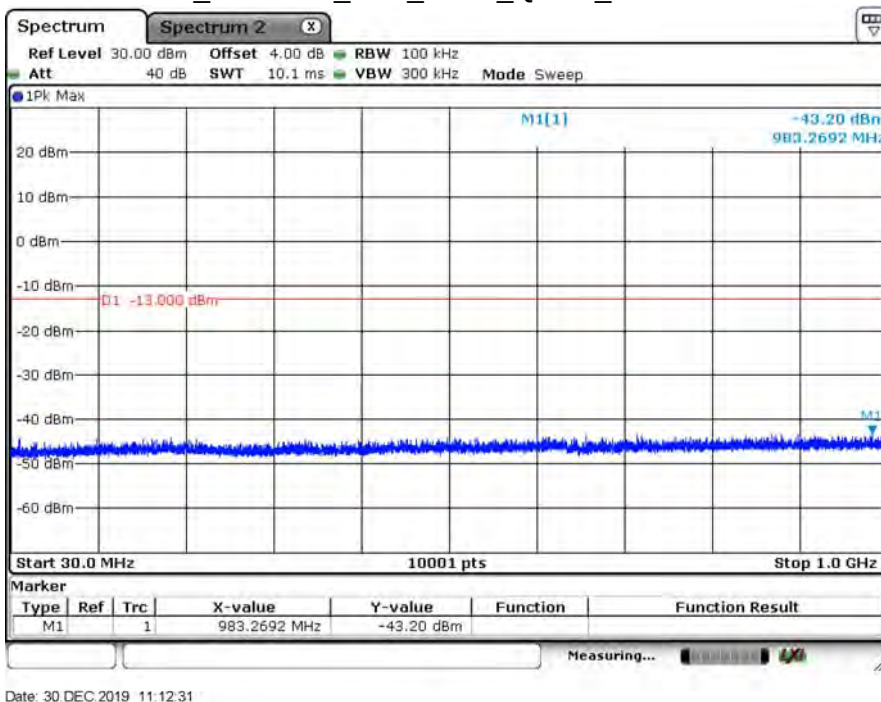


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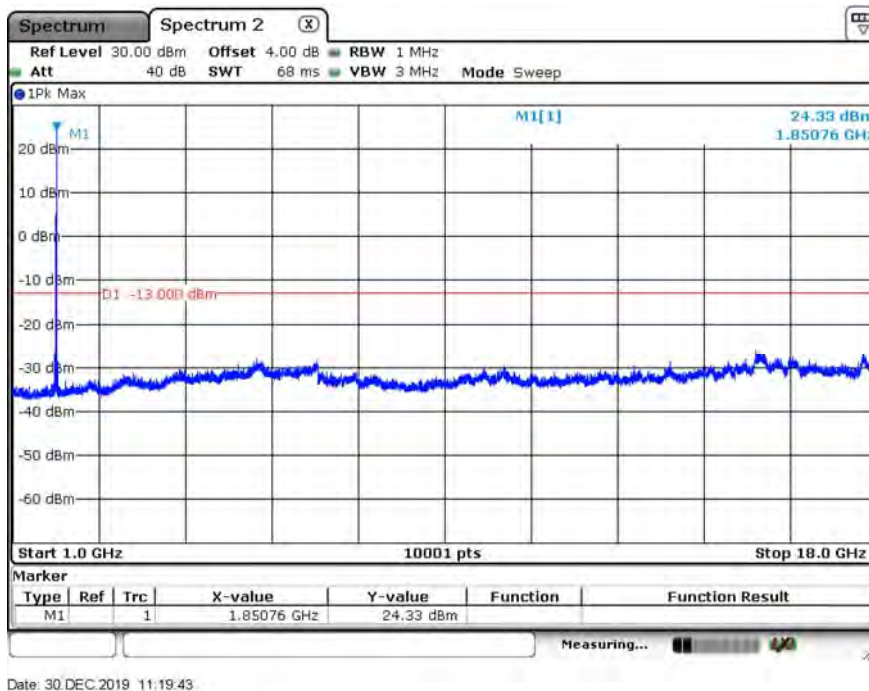
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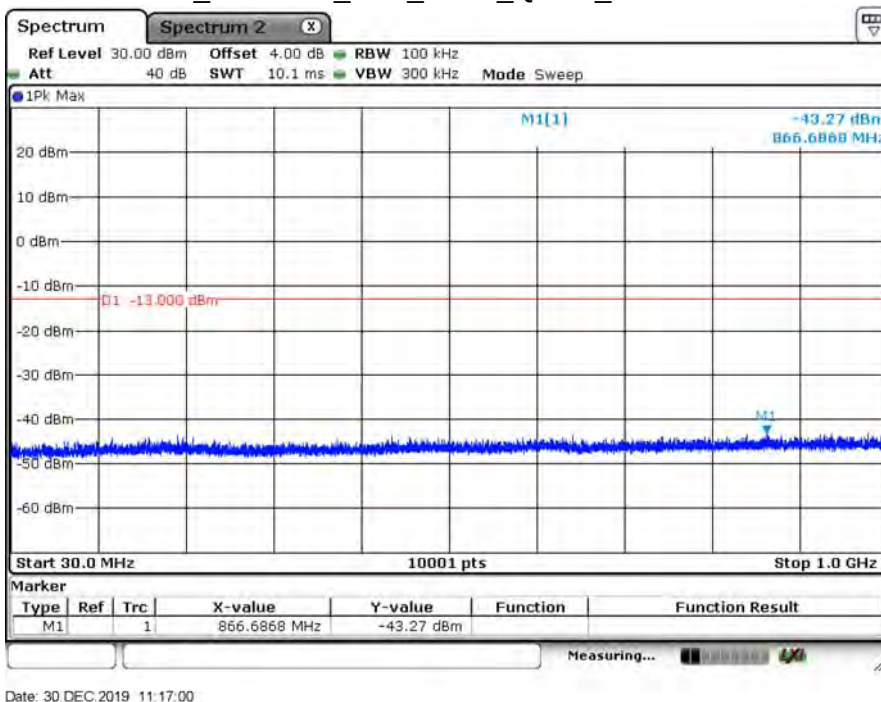
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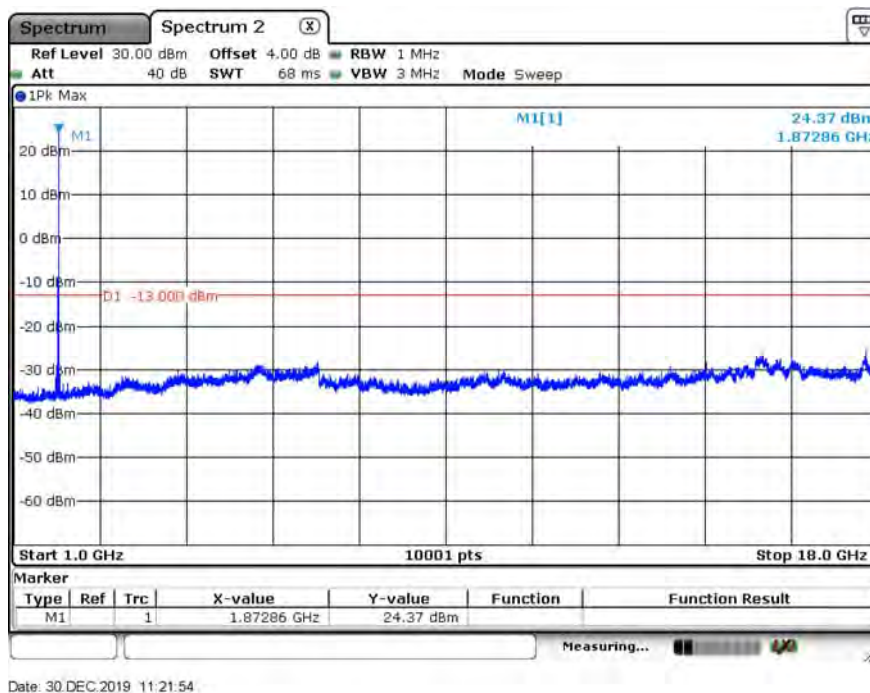
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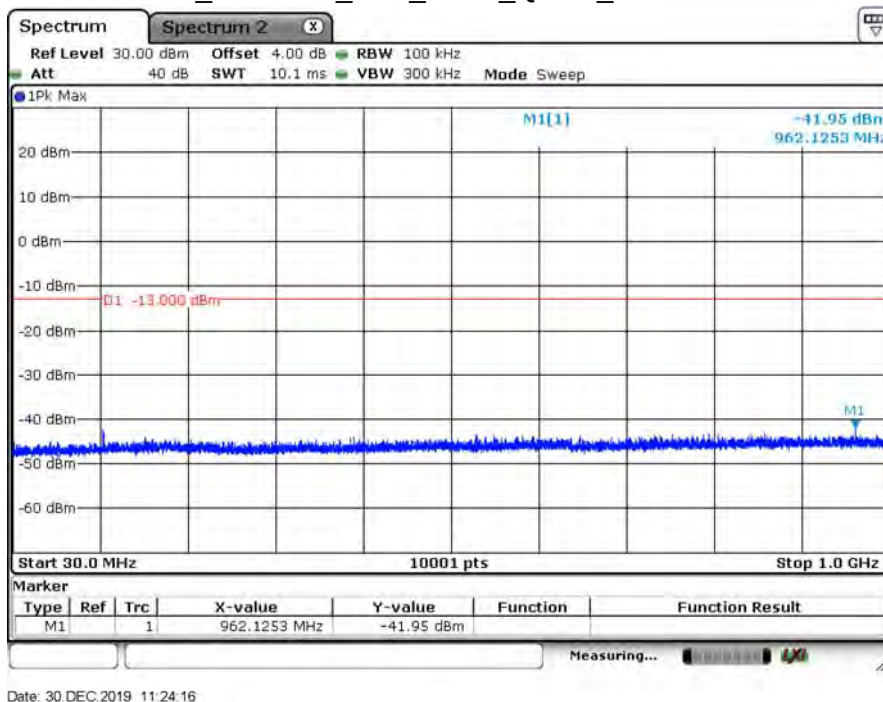
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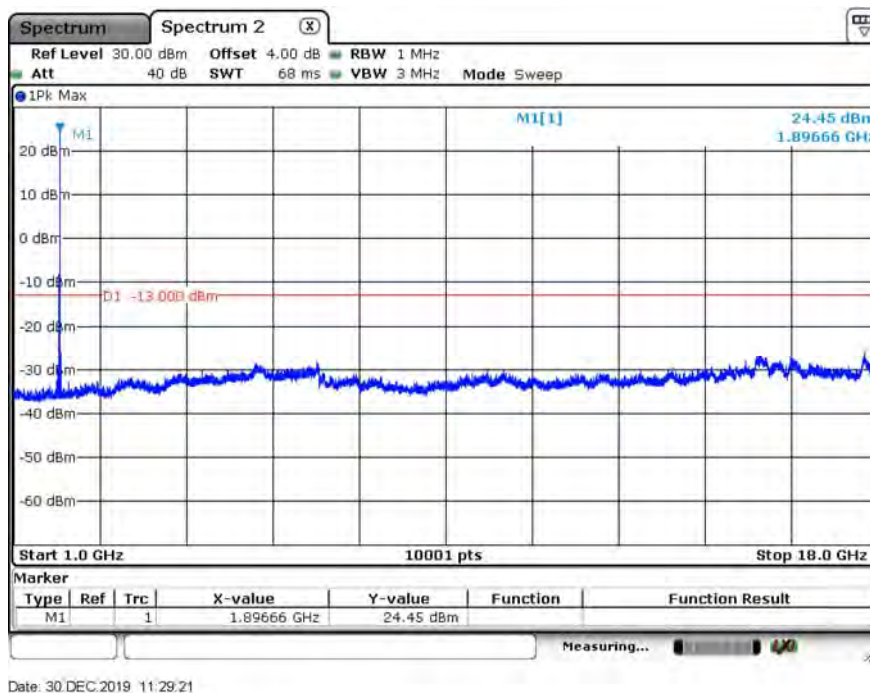
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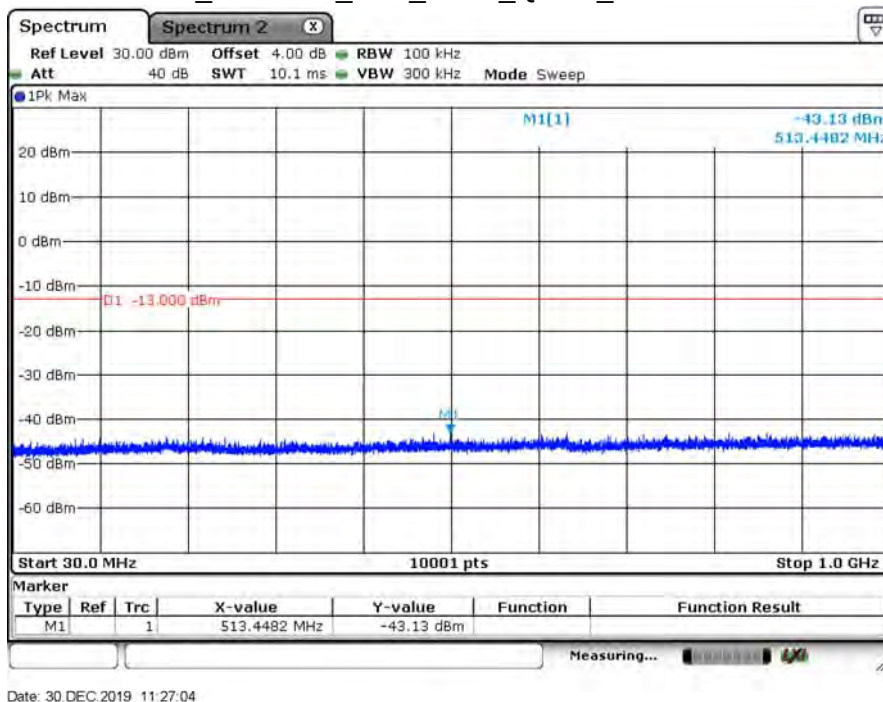
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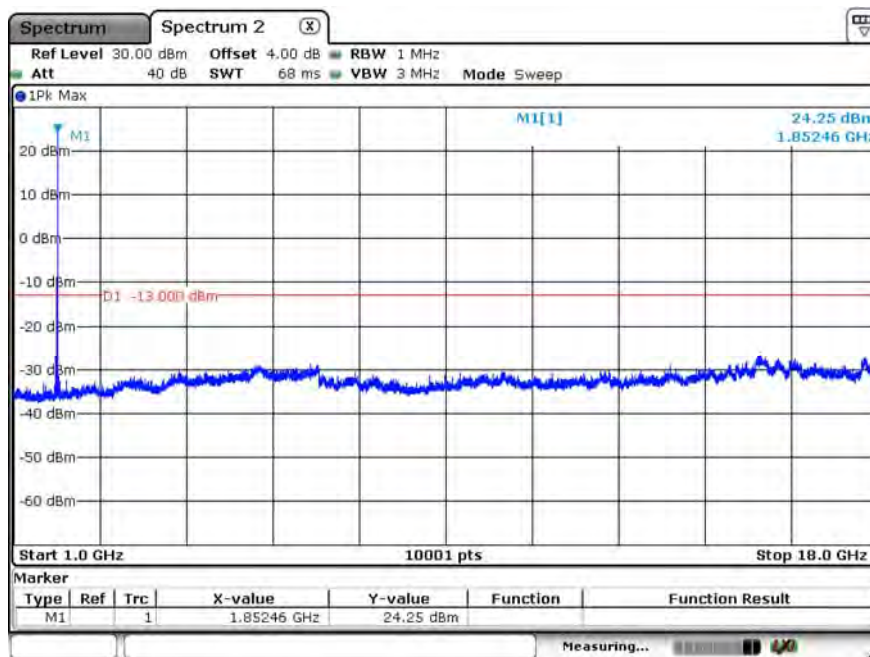
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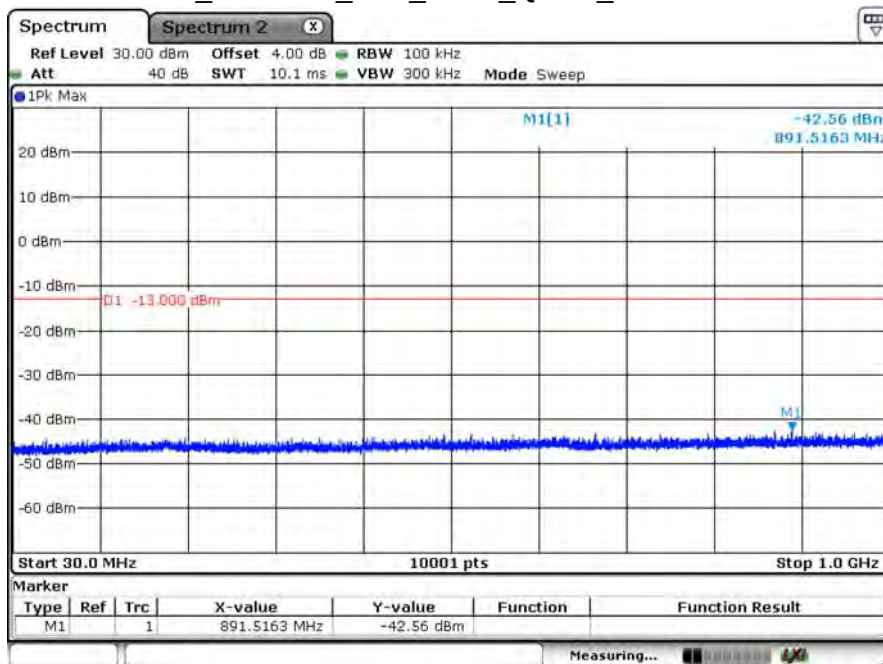


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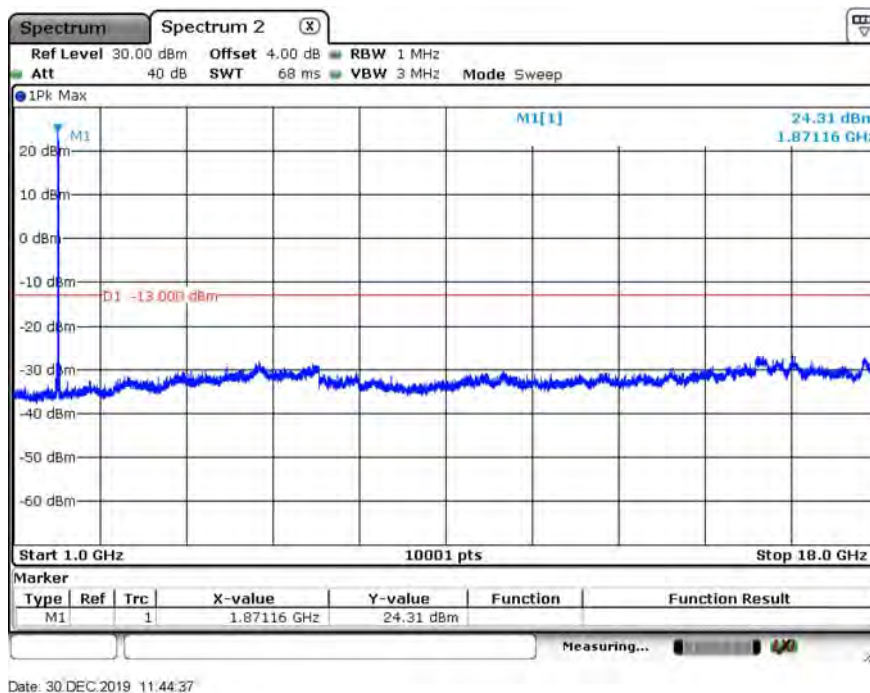
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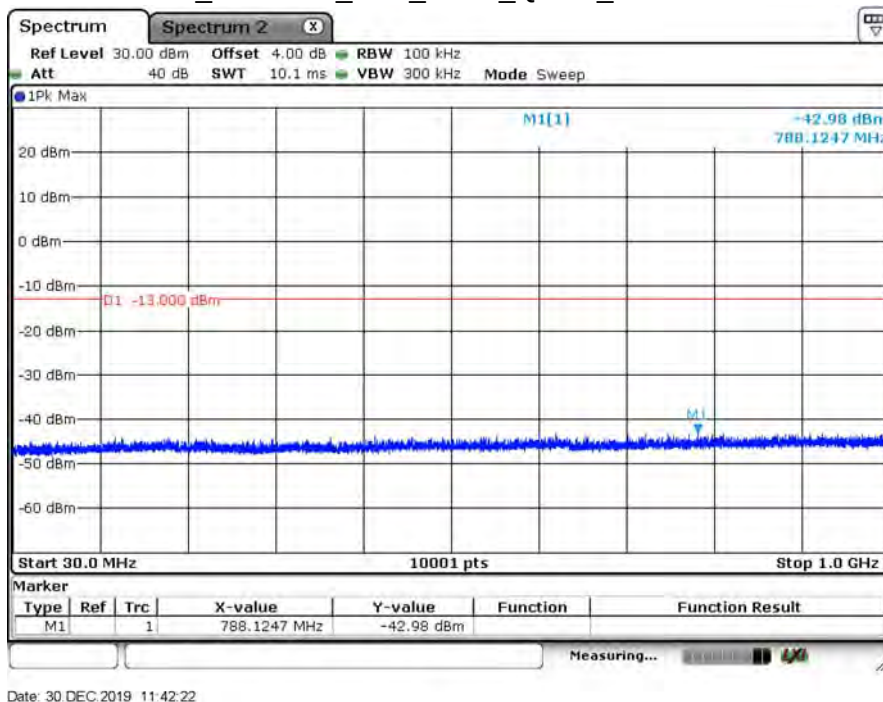


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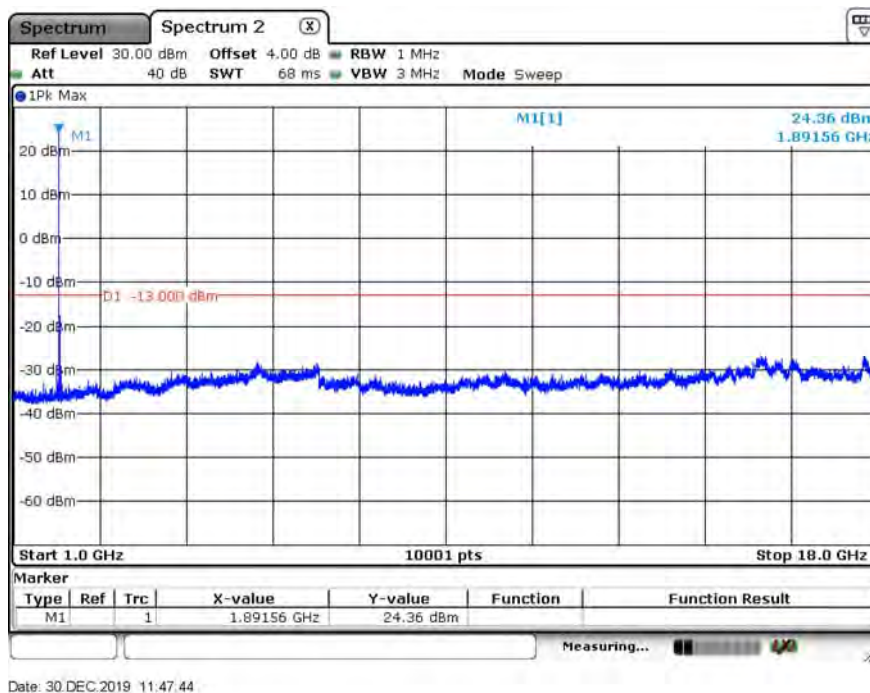
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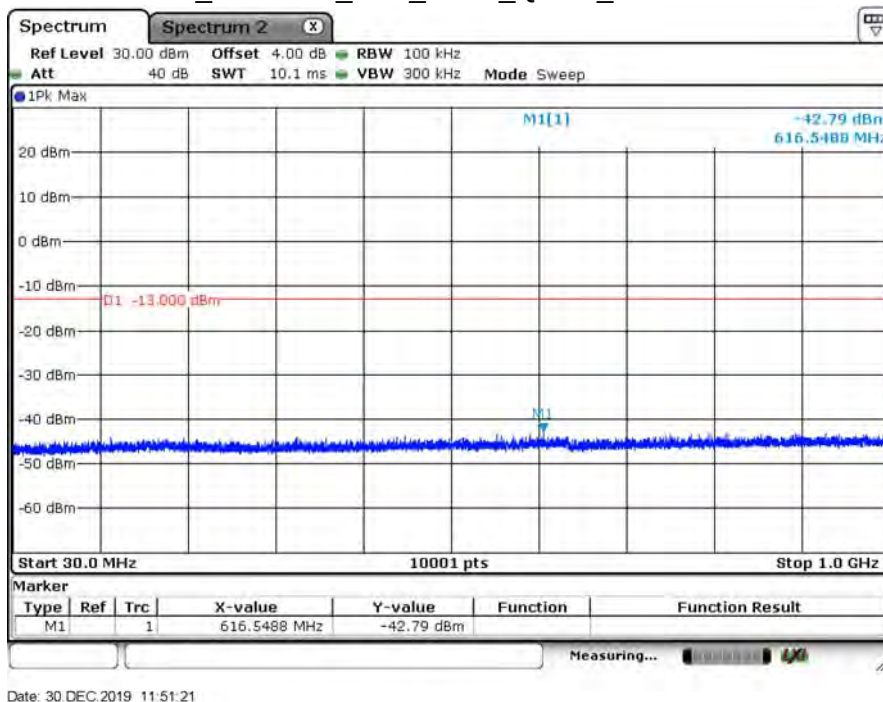
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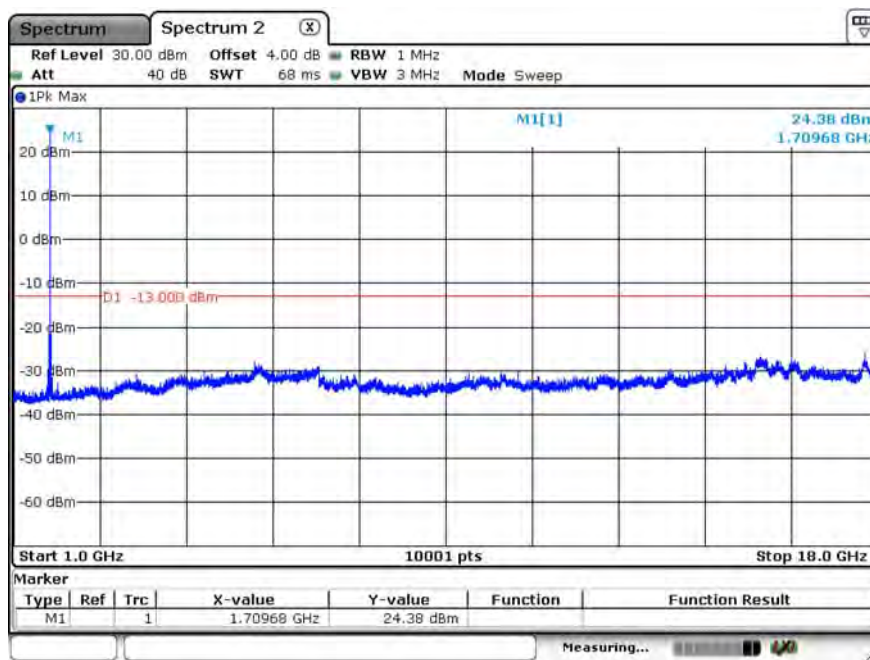


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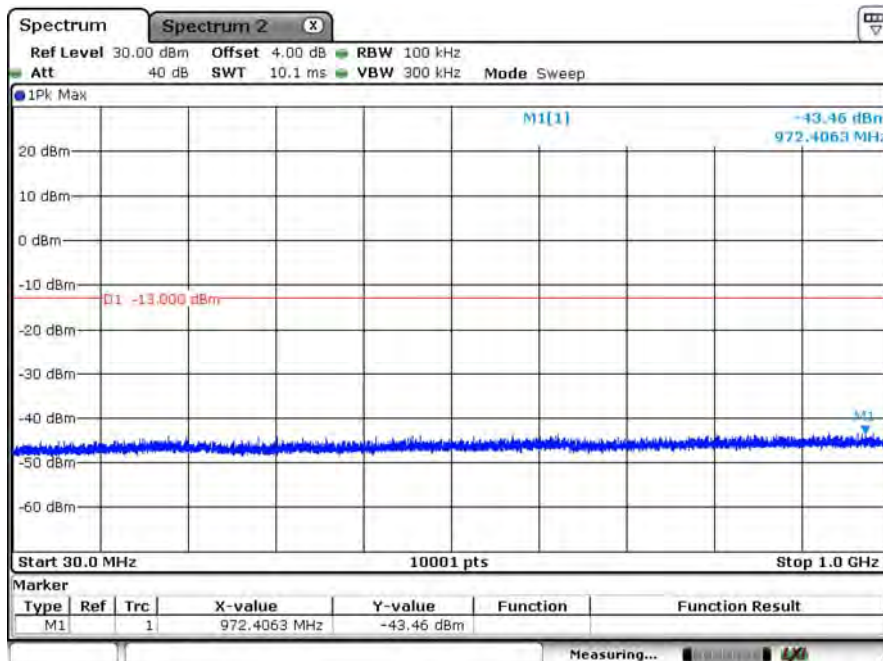
Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2019/12/30	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	61%RH

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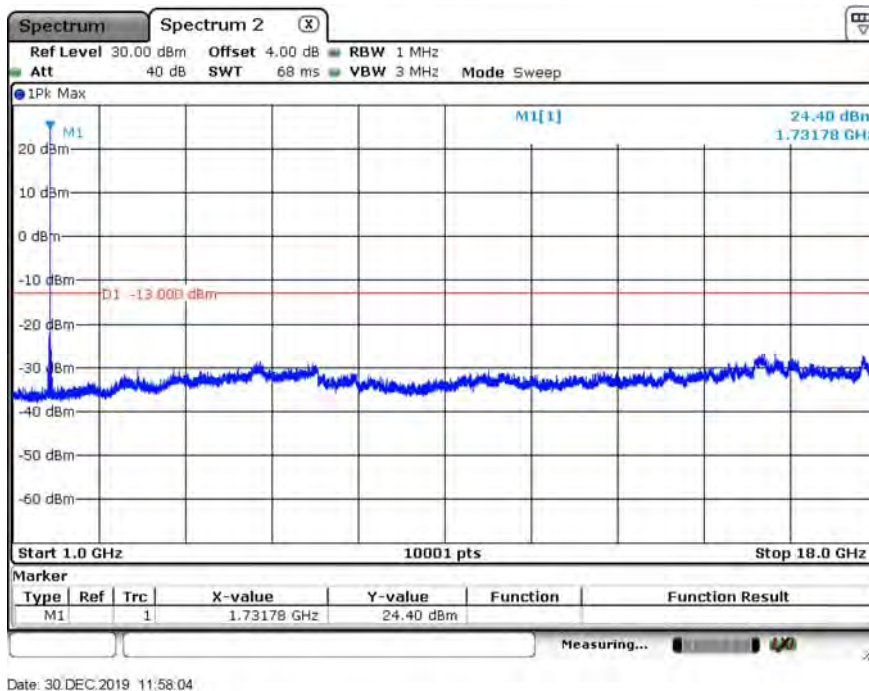
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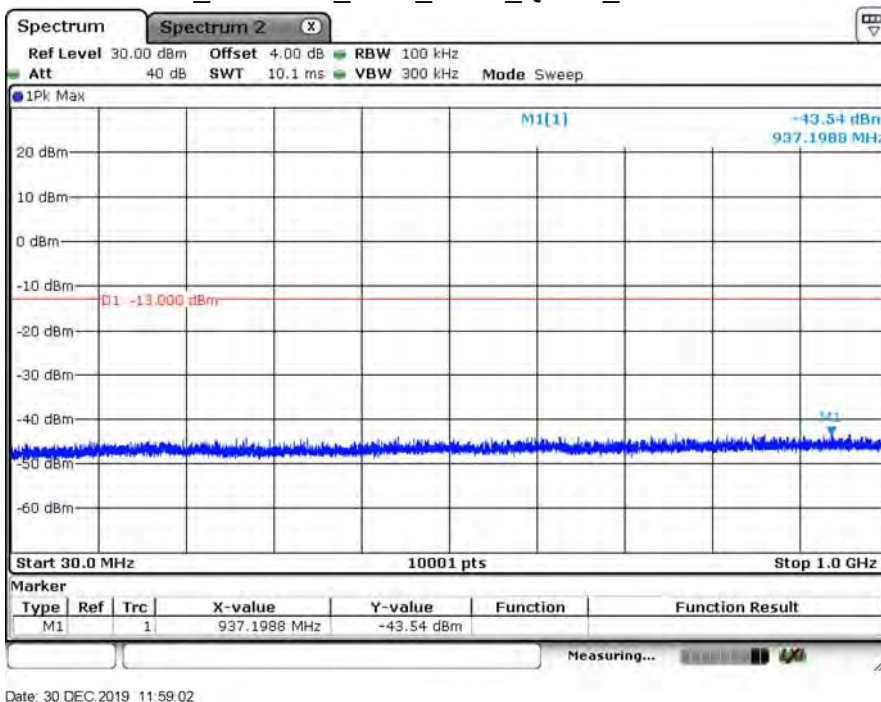


Date: 30 DEC 2019 11:55:00

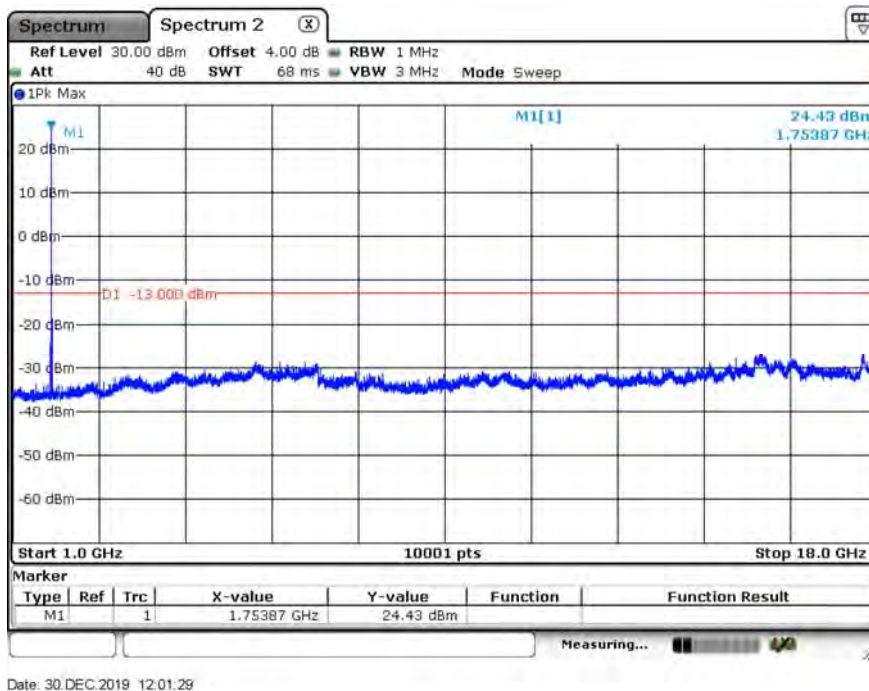
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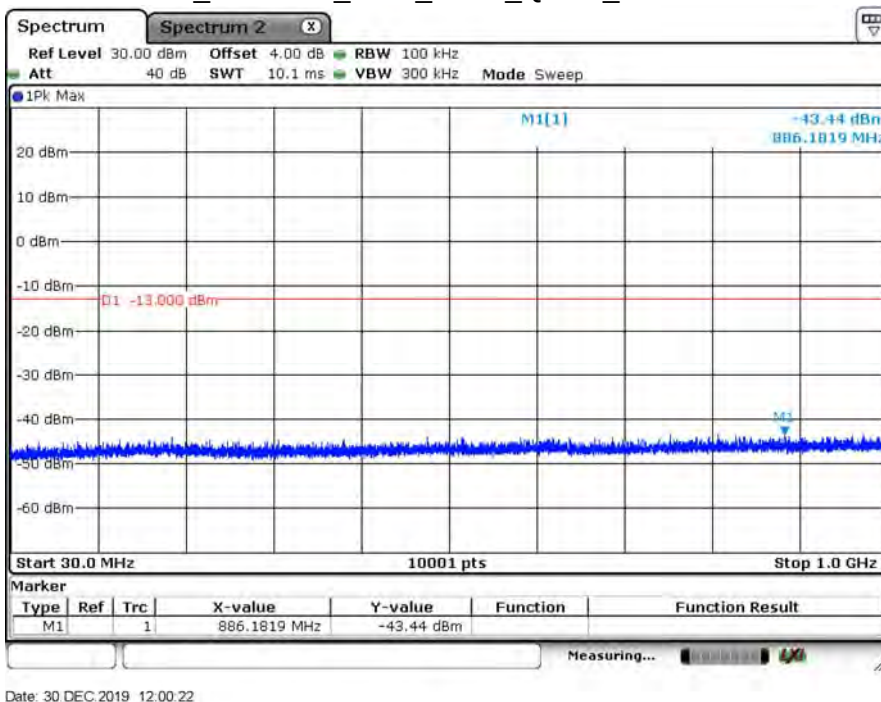
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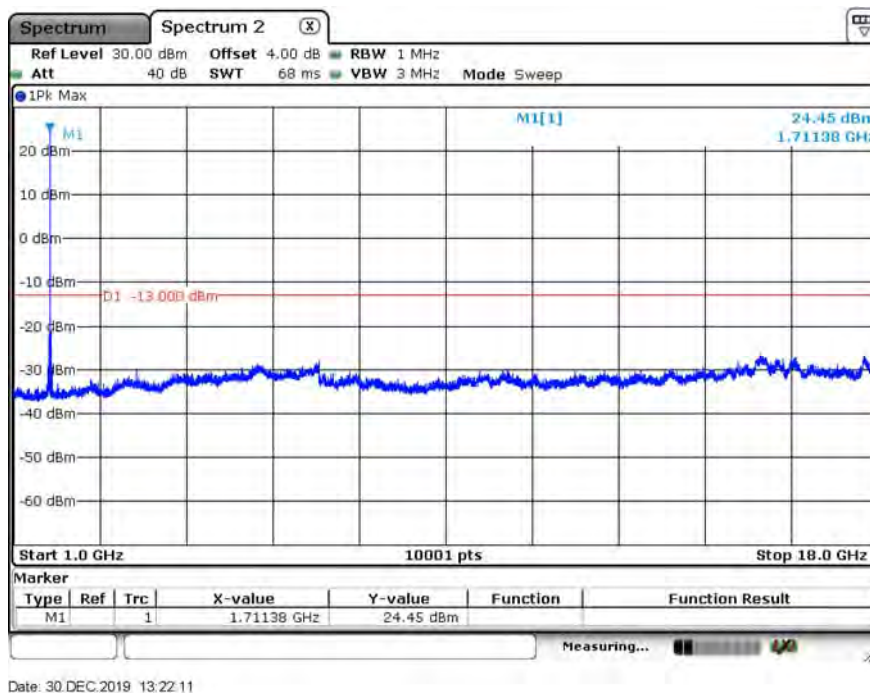
B4_CH20393_1.4M_1RB0_QPSK_Above1G



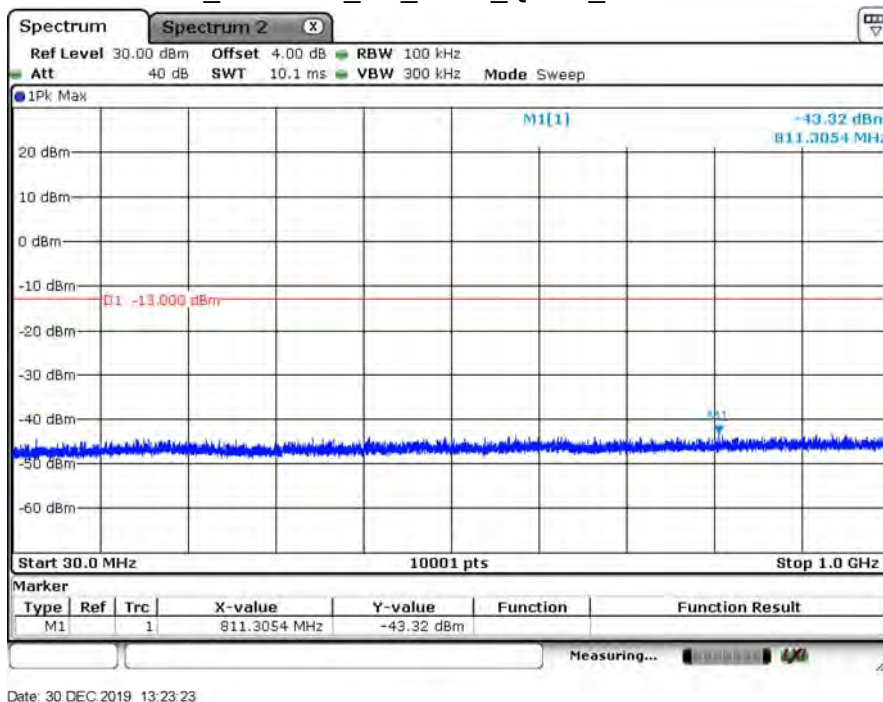
B4_CH20393_1.4M_1RB0_QPSK_Below1G



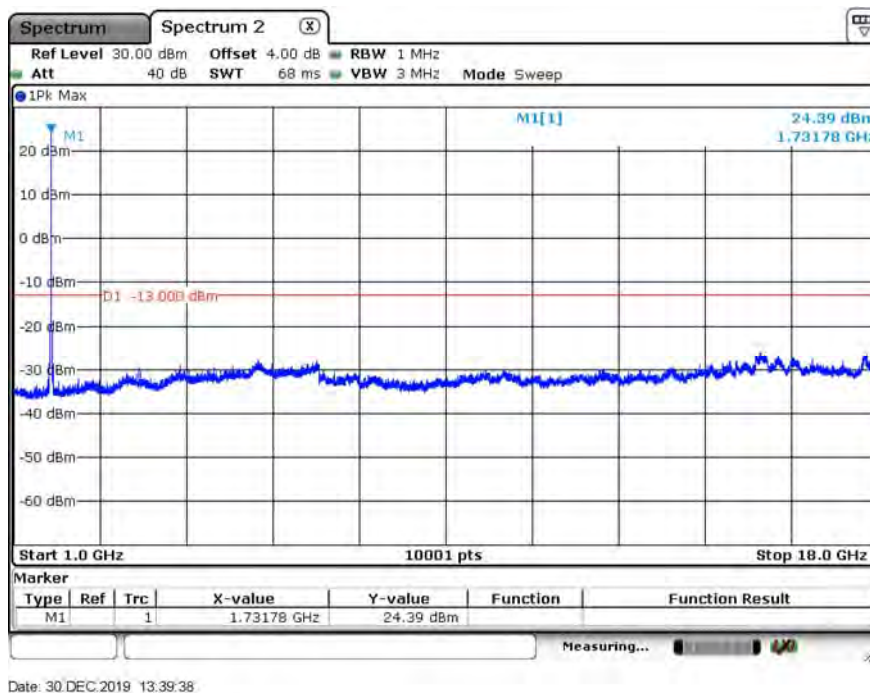
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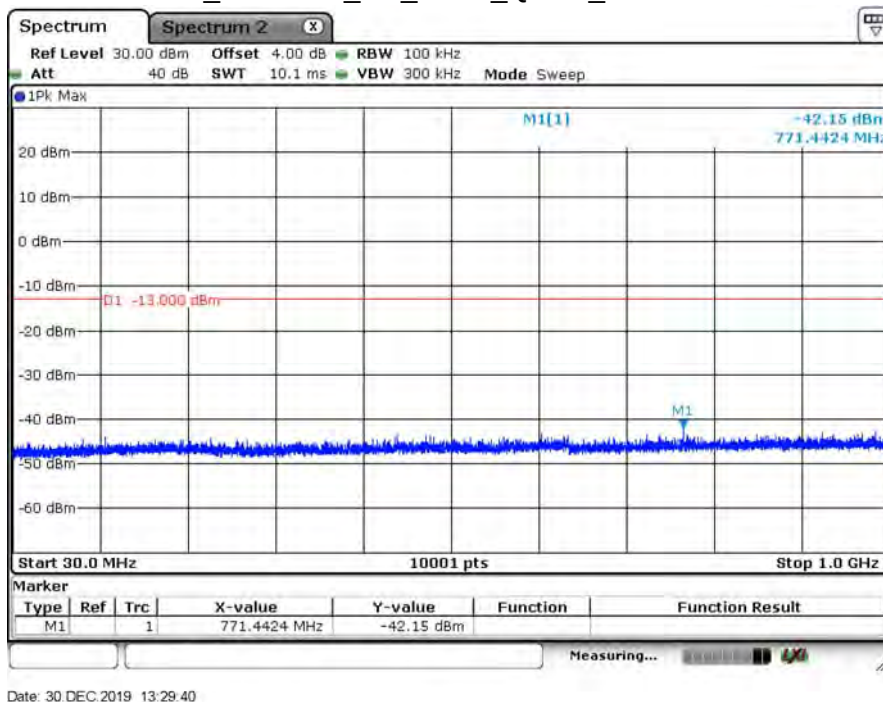
B4_CH19965_3M_1RB0_QPSK_Below 1G



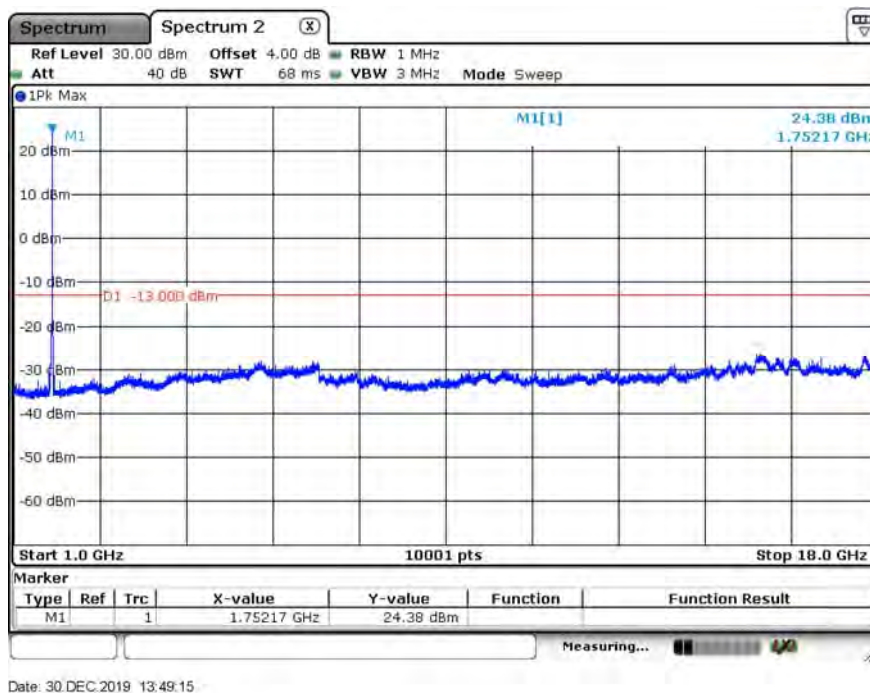
B4_CH20175_3M_1RB0_QPSK_Above 1G



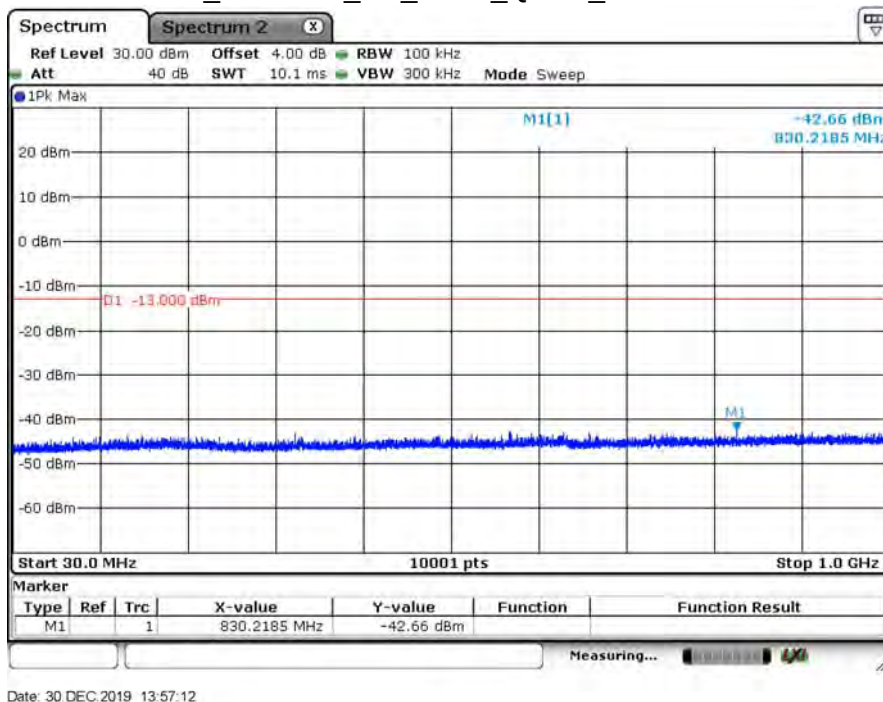
B4_CH20175_3M_1RB0_QPSK_Below 1G



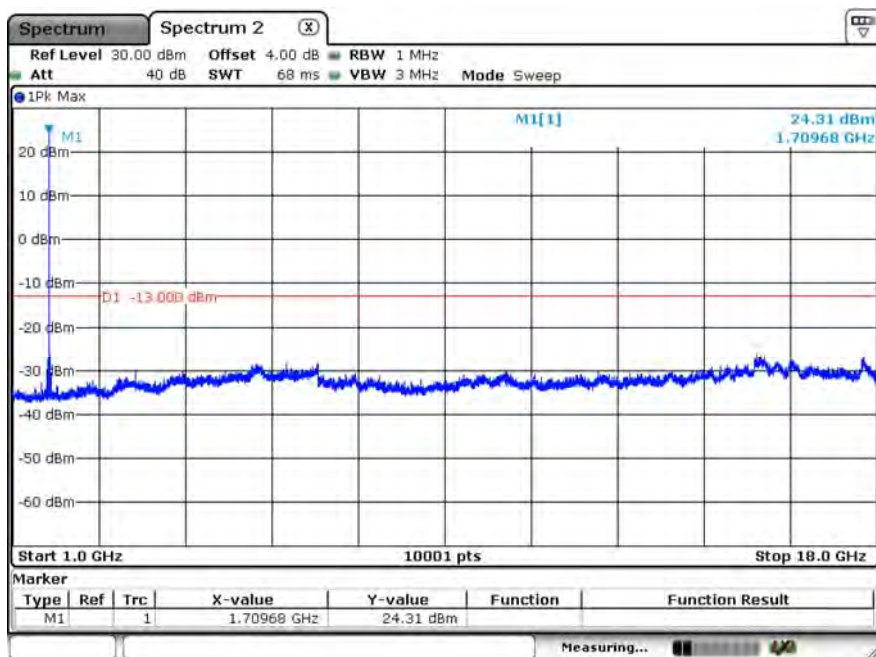
B4_CH20385_3M_1RB0_QPSK_Above 1G



B4_CH20385_3M_1RB0_QPSK_Below 1G

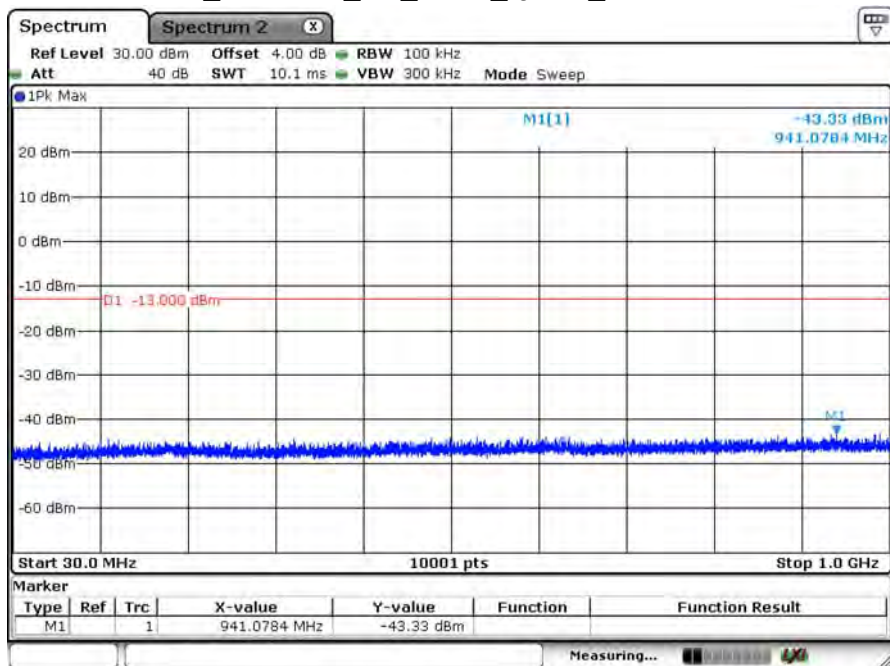


B4_CH19975_5M_1RB0_QPSK_Above 1G



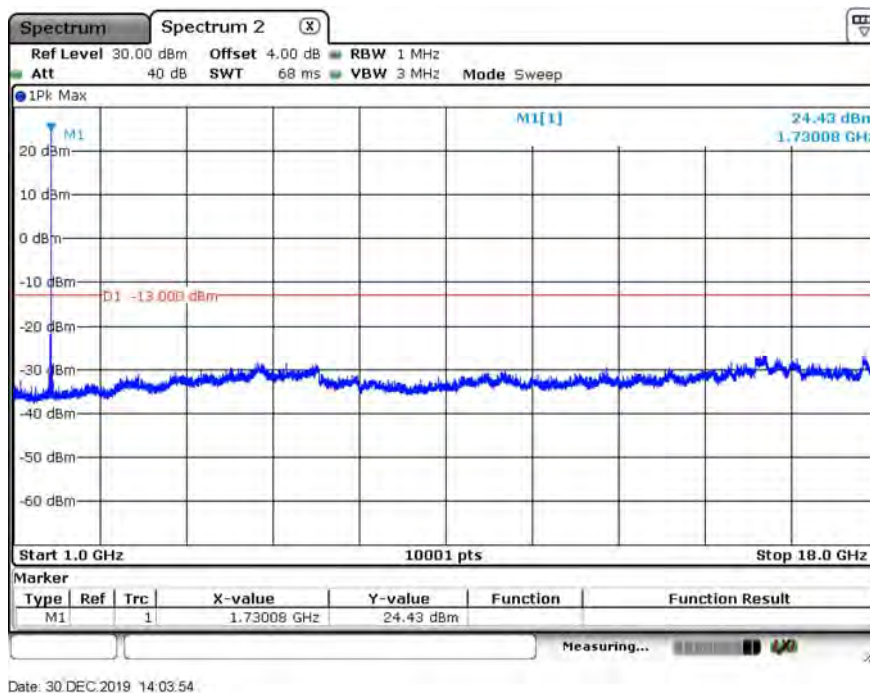
Date: 30 DEC 2019 14:01:13

B4_CH19975_5M_1RB0_QPSK_Below 1G

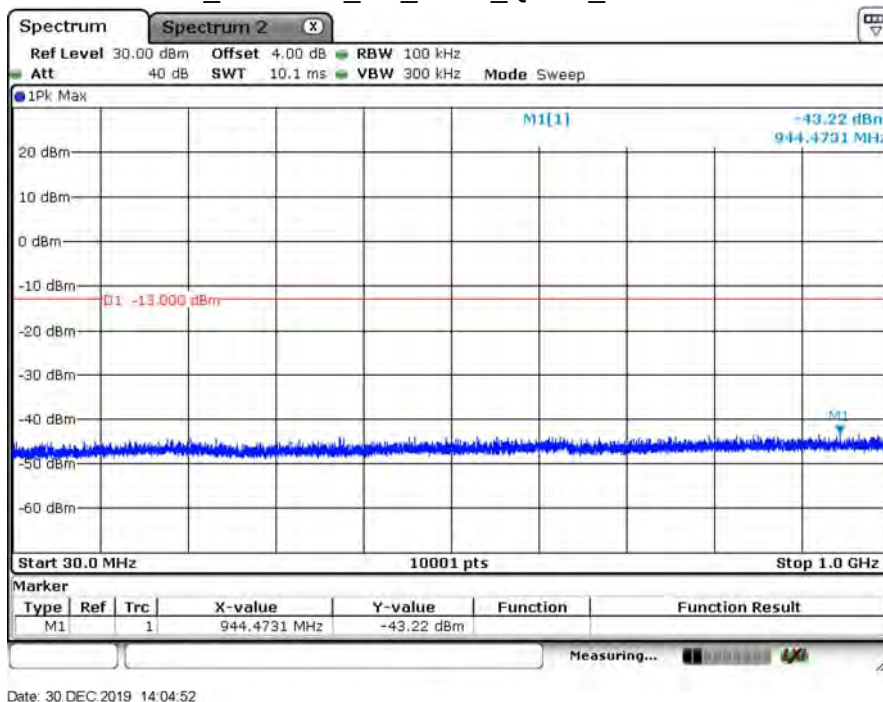


Date: 30 DEC 2019 13:58:16

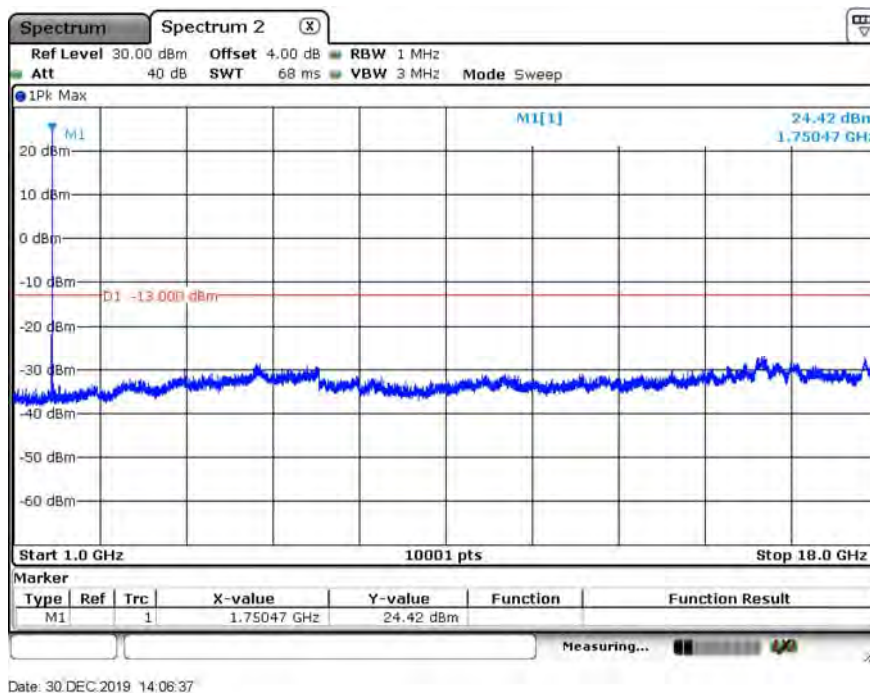
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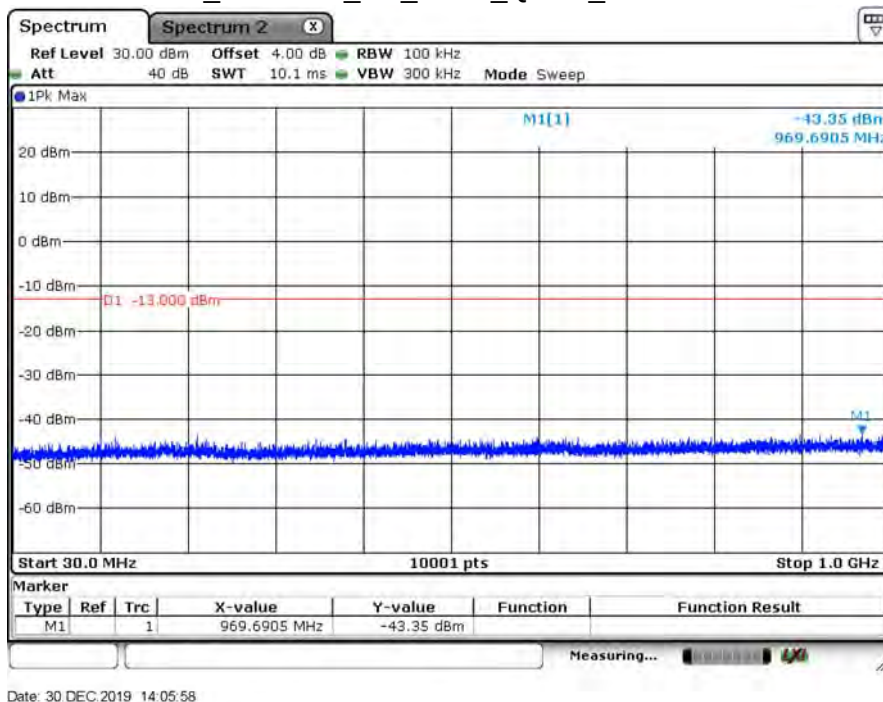
B4_CH20175_5M_1RB0_QPSK_Below 1G



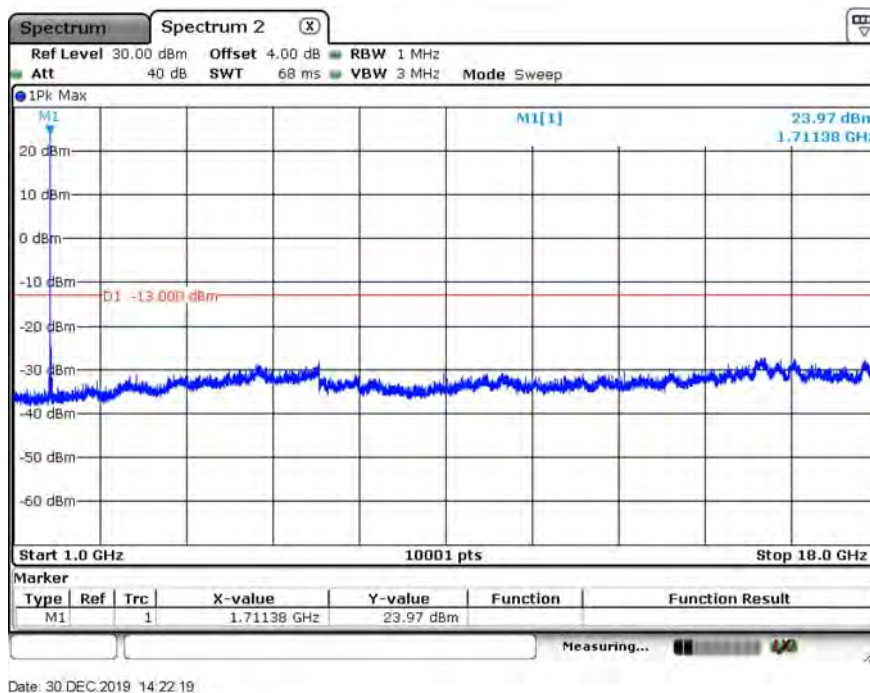
B4_CH20375_5M_1RB0_QPSK_Above 1G



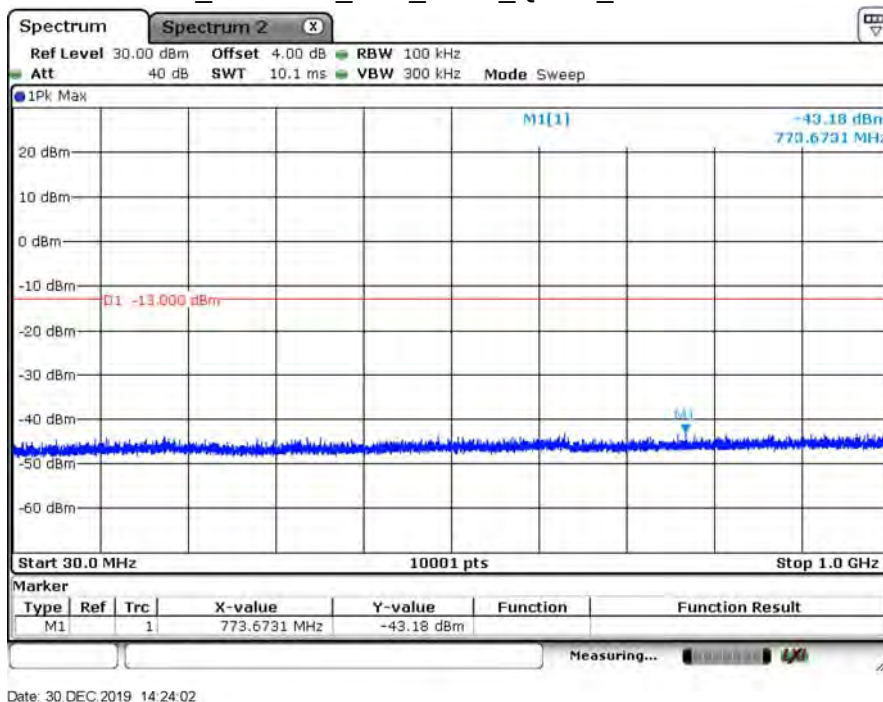
B4_CH20375_5M_1RB0_QPSK_Below 1G



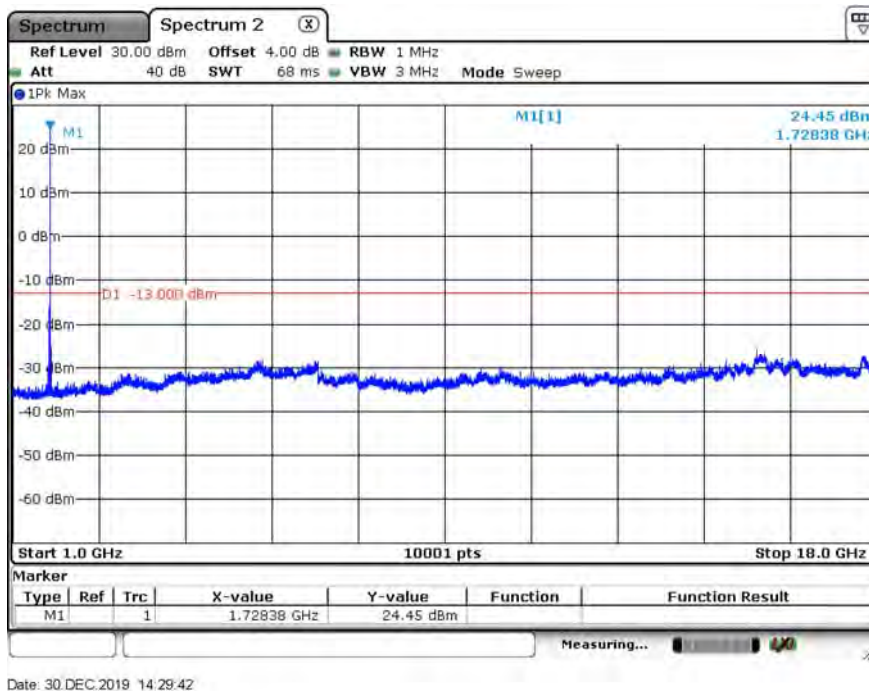
B4_CH20000_10M_1RB0_QPSK_Above 1G



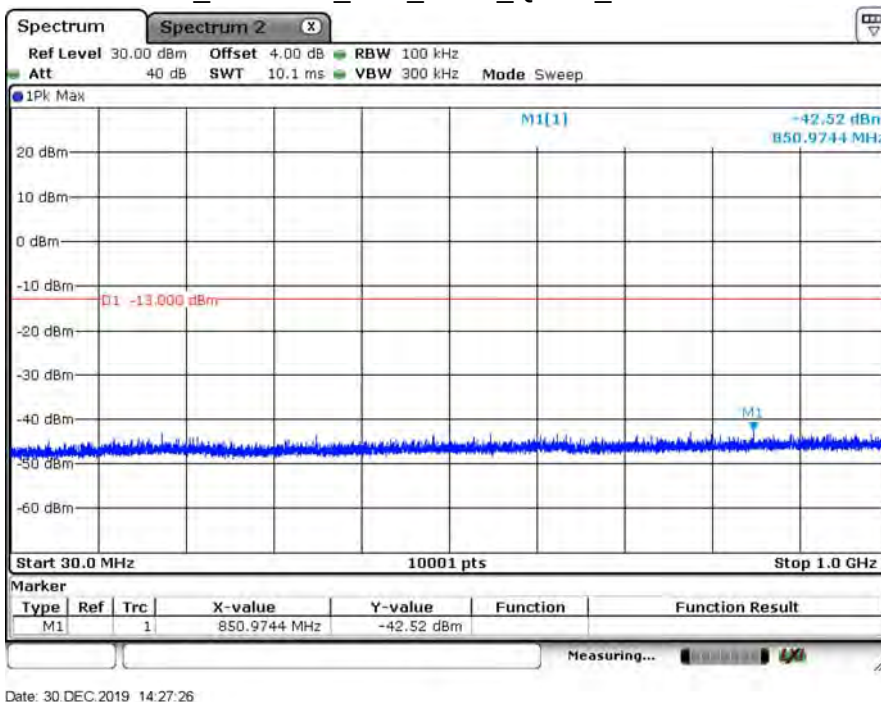
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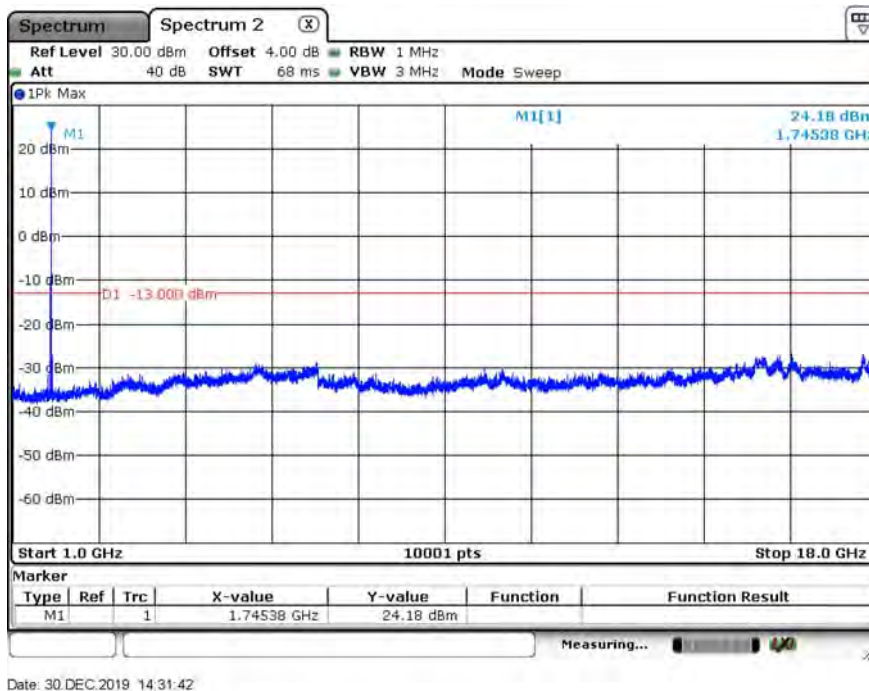
B4_CH20175_10M_1RB0_QPSK_Above 1G



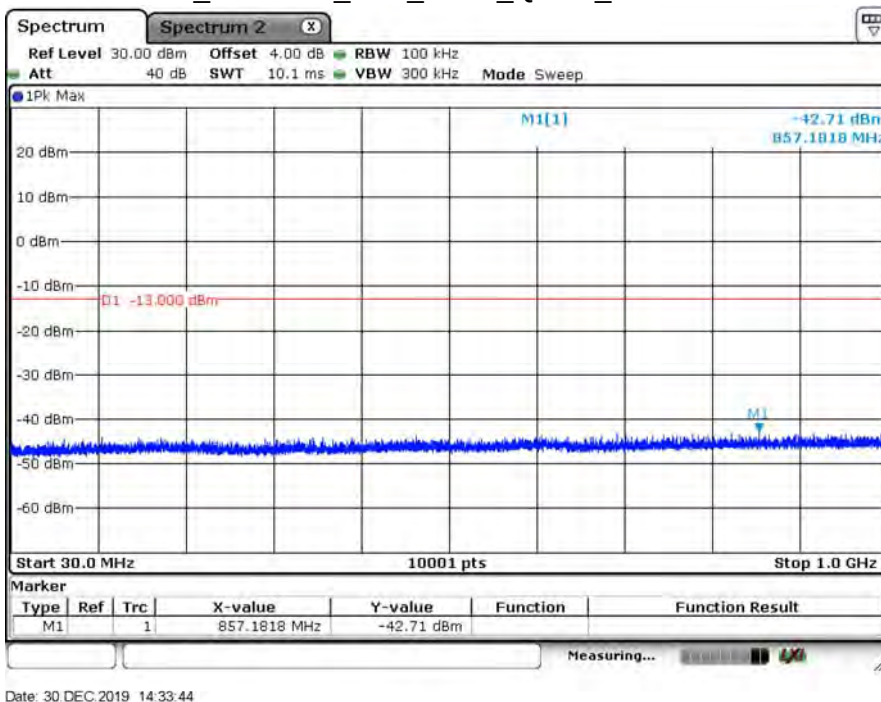
B4_CH20175_10M_1RB0_QPSK_Below 1G



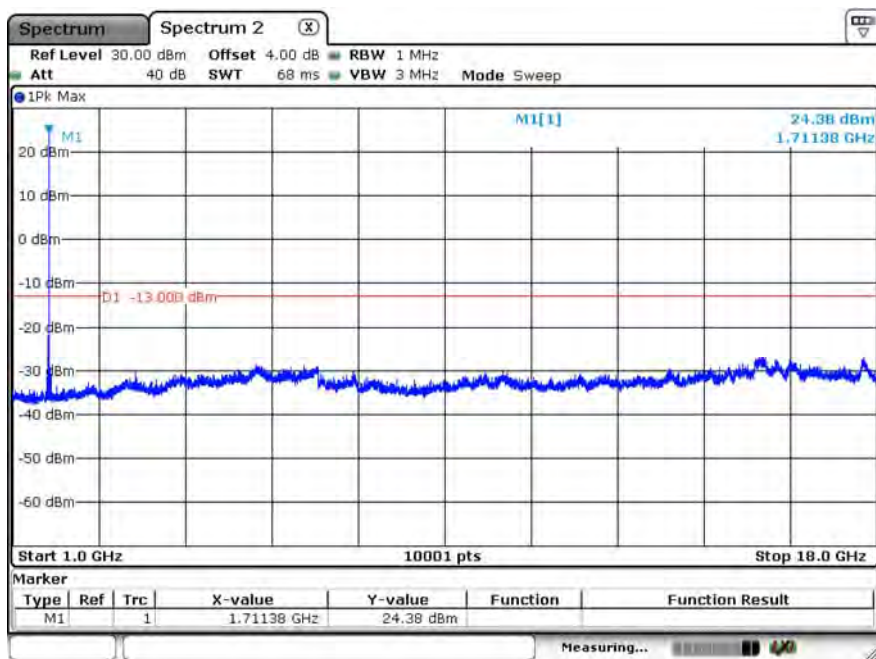
B4_CH20350_10M_1RB0_QPSK_Above 1G



B4_CH20350_10M_1RB0_QPSK_Below 1G

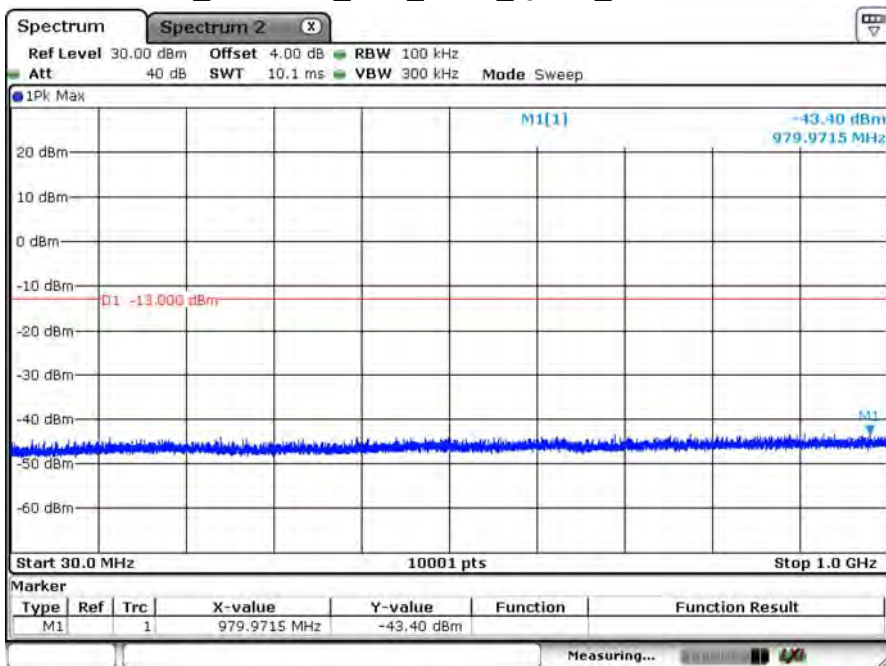


B4_CH20025_15M_1RB0_QPSK_Above 1G



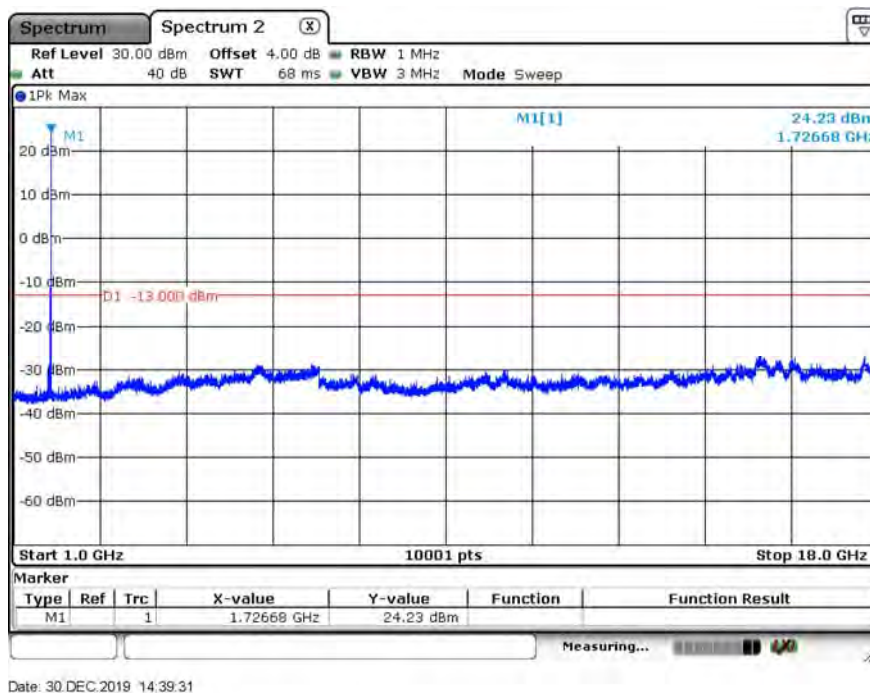
Date: 30 DEC 2019 14:37:50

B4_CH20025_15M_1RB0_QPSK_Below 1G

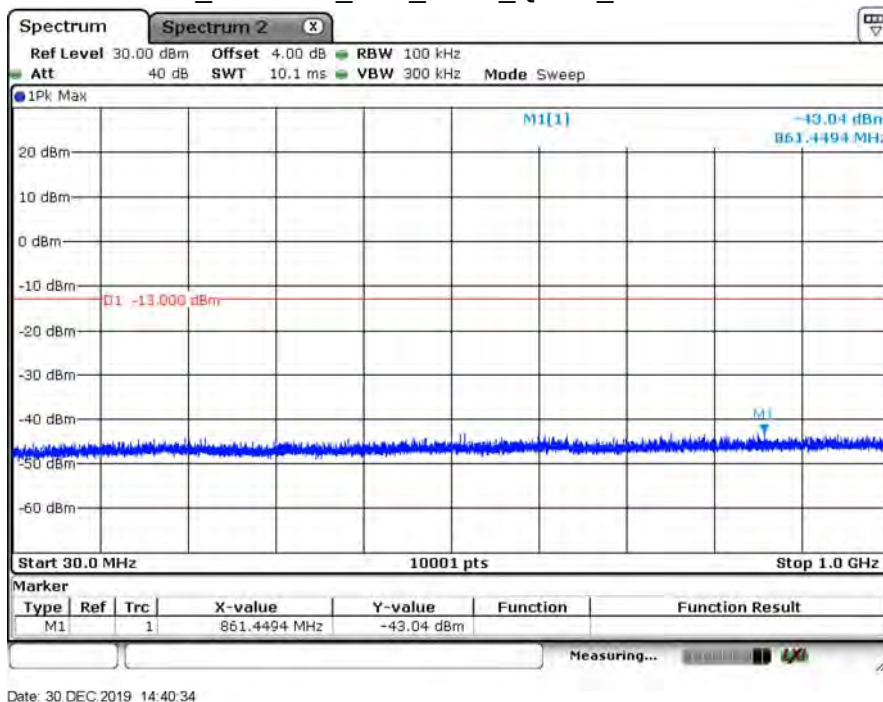


Date: 30 DEC 2019 14:36:11

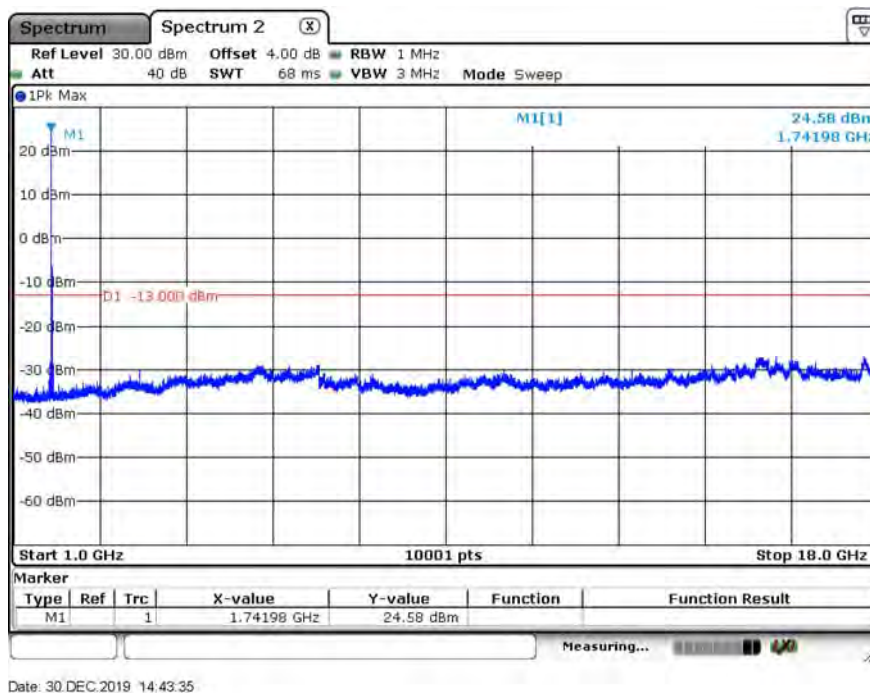
B4_CH20175_15M_1RB0_QPSK_Above 1G



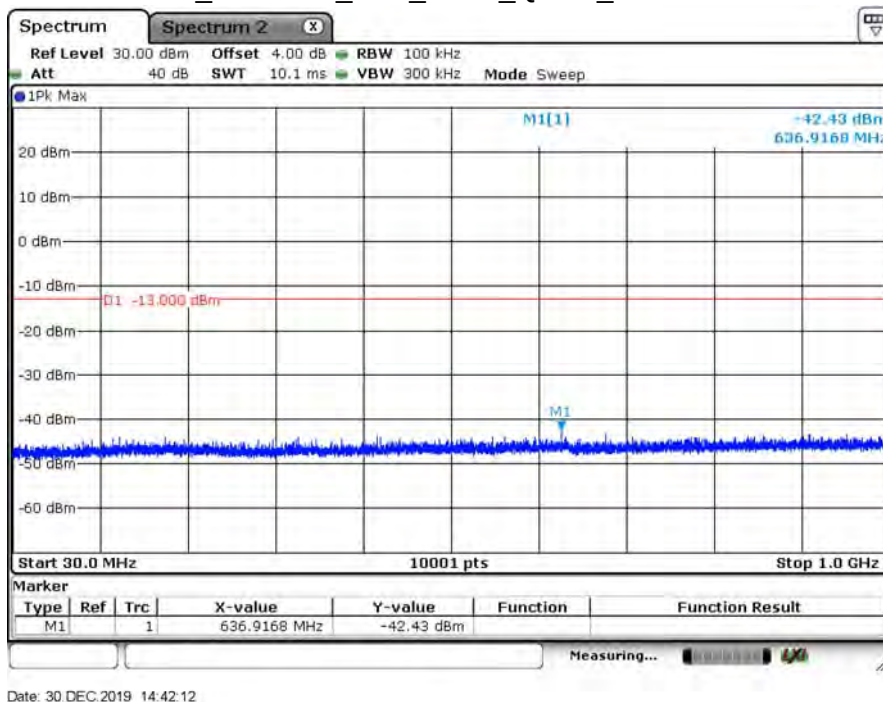
B4_CH20175_15M_1RB0_QPSK_Below 1G



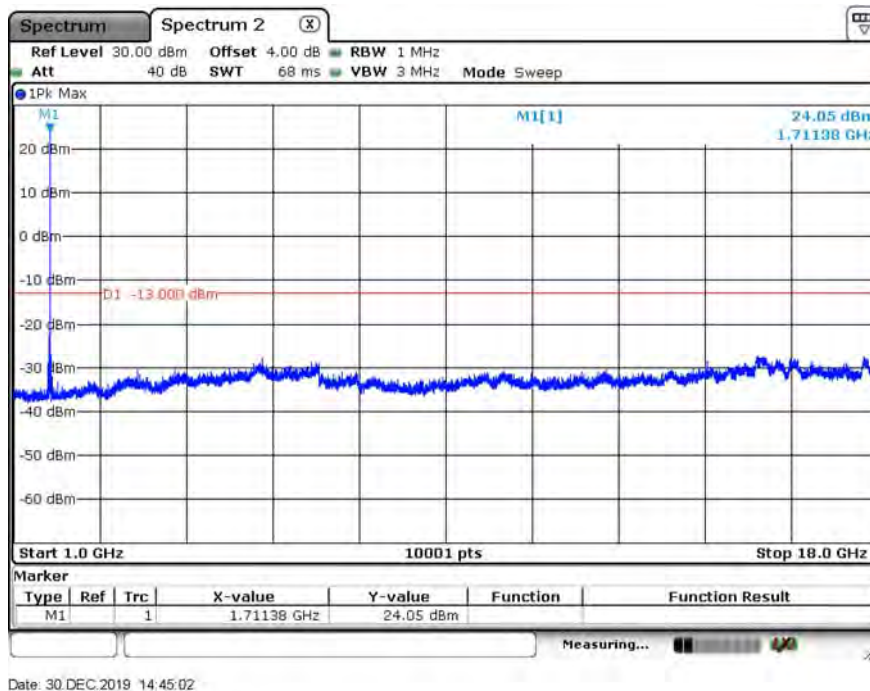
B4_CH20325_15M_1RB0_QPSK_Above 1G



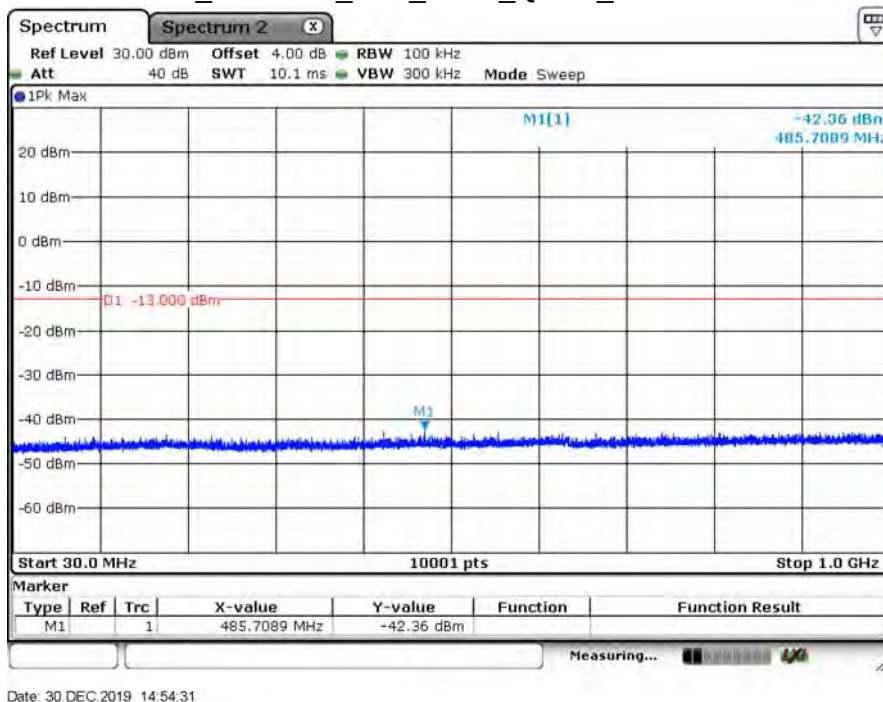
B4_CH20325_15M_1RB0_QPSK_Below 1G



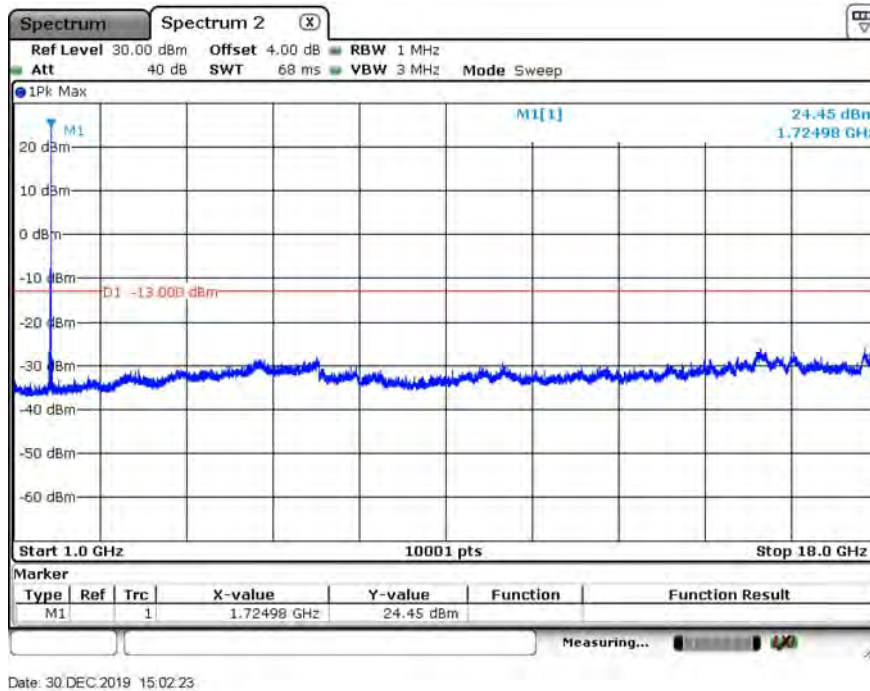
B4_CH20050_20M_1RB0_QPSK_Above 1G



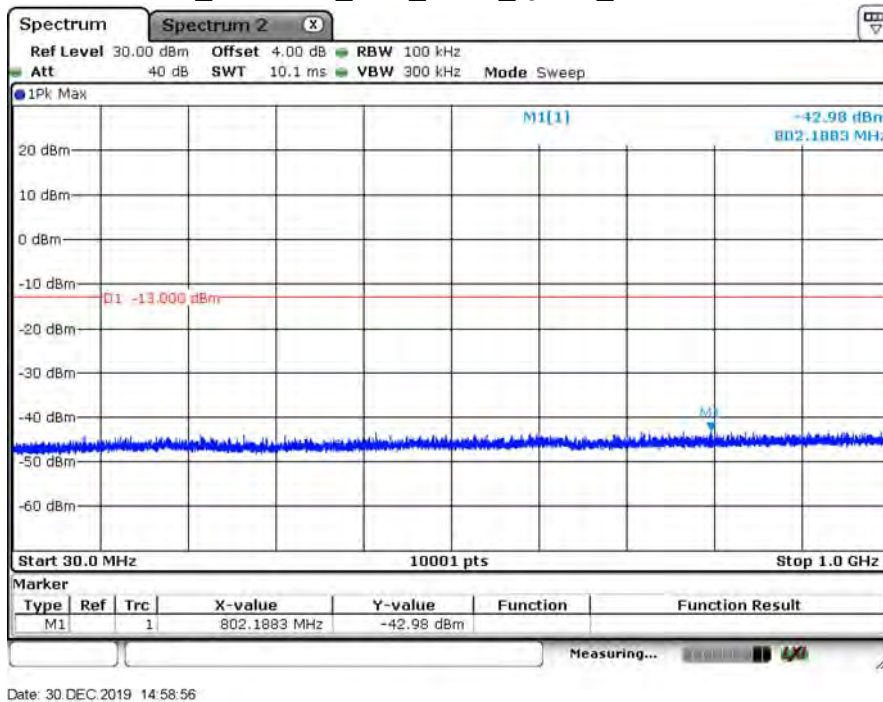
B4_CH20050_20M_1RB0_QPSK_Below 1G



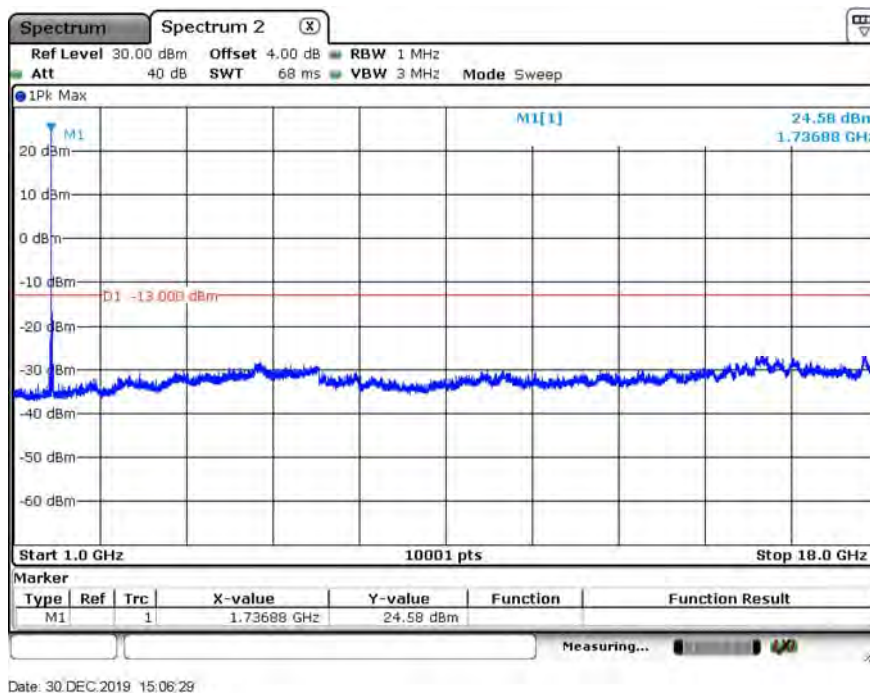
B4_CH20175_20M_1RB0_QPSK_Above 1G



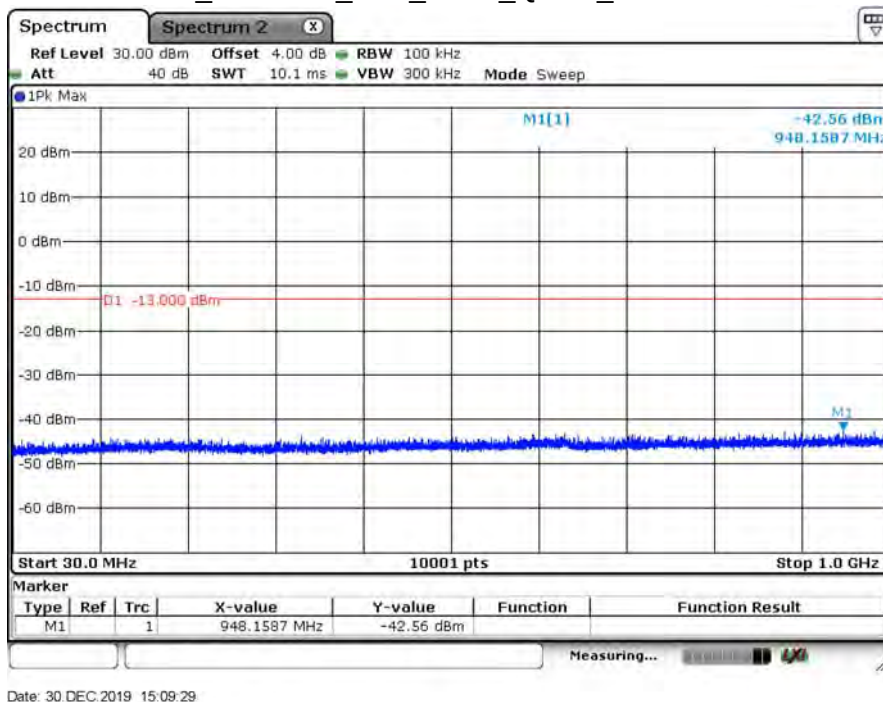
B4_CH20175_20M_1RB0_QPSK_Below 1G



B4_CH20300_20M_1RB0_QPSK_Above 1G

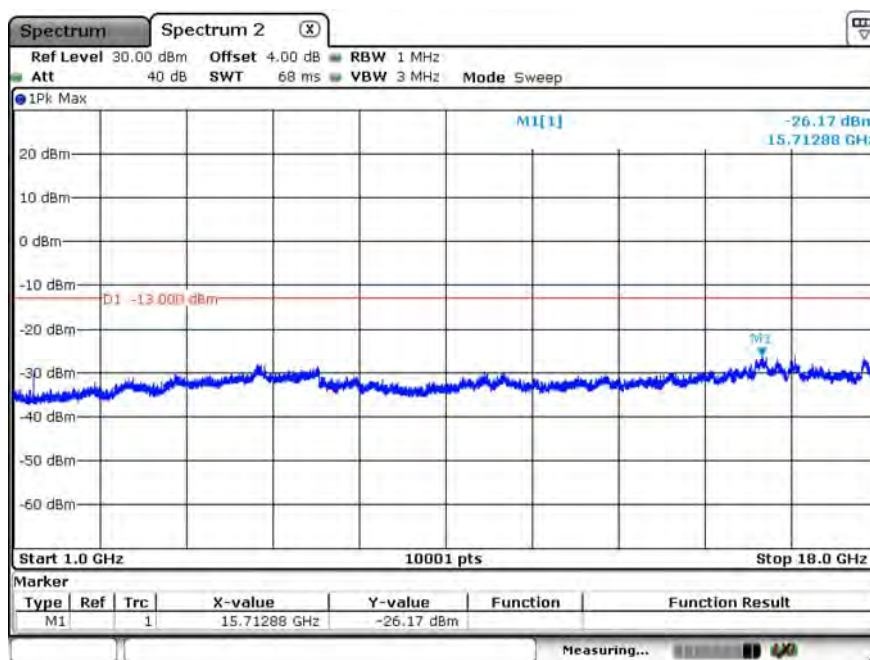


B4_CH20300_20M_1RB0_QPSK_Below 1G



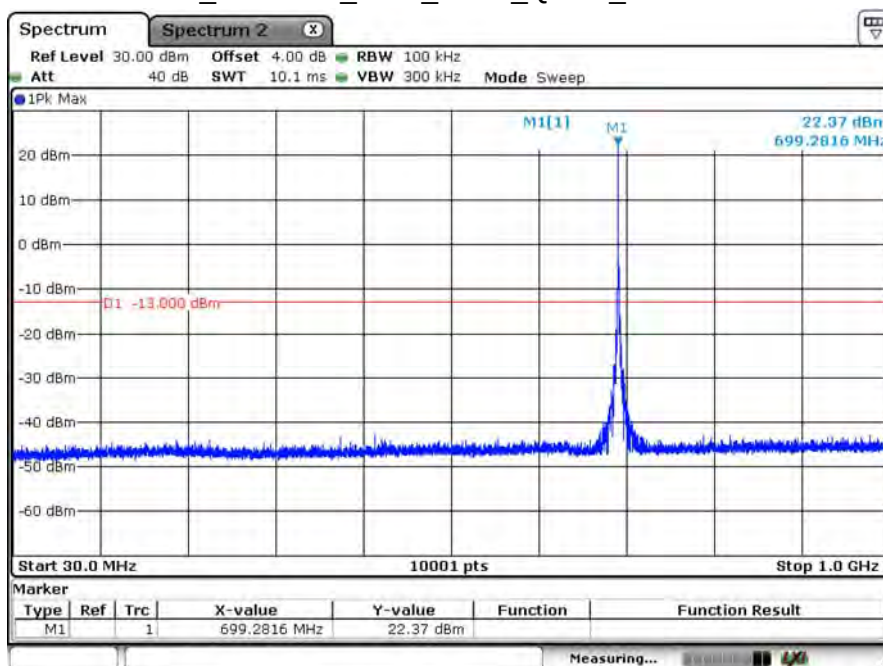
Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 3: LTE Band 12		
Date of Test	2019/12/30	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	61%RH

B12_CH23017_1.4M_1RB0_QPSK_Above 1G



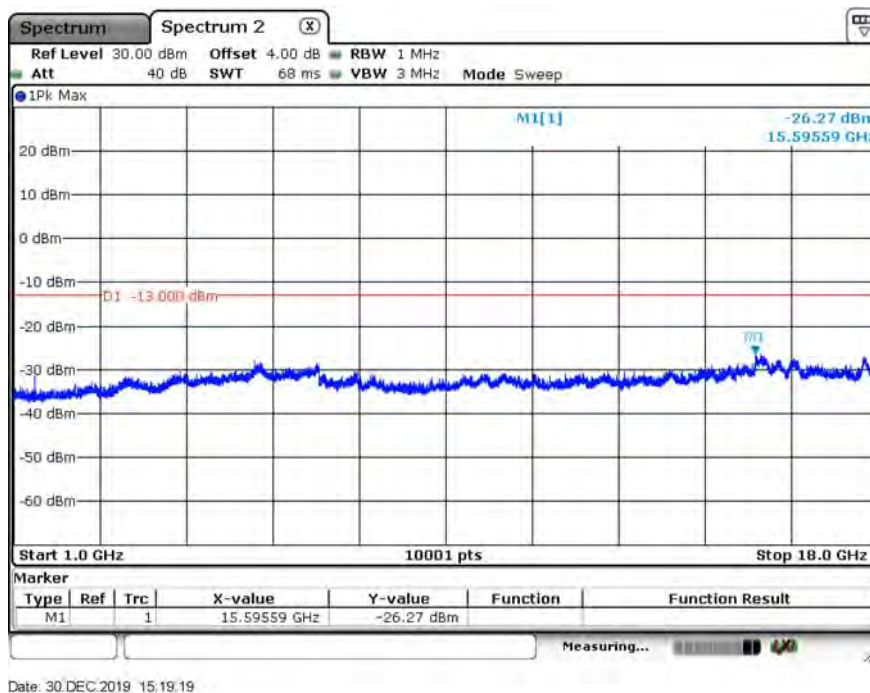
Date: 30 DEC 2019 15:16:23

B12_CH23017_1.4M_1RB0_QPSK_Below 1G

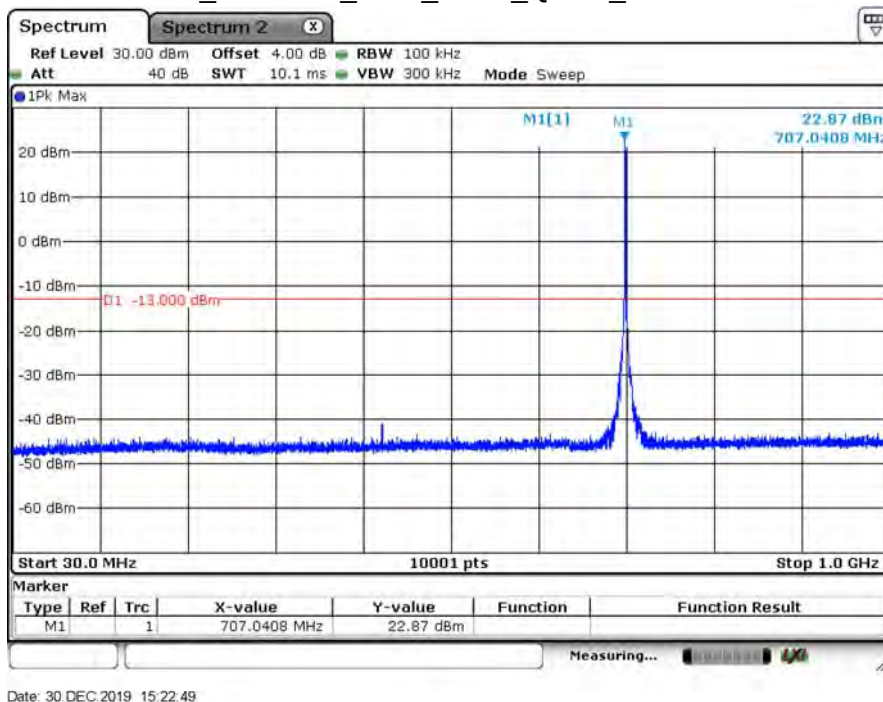


Date: 30 DEC 2019 15:13:04

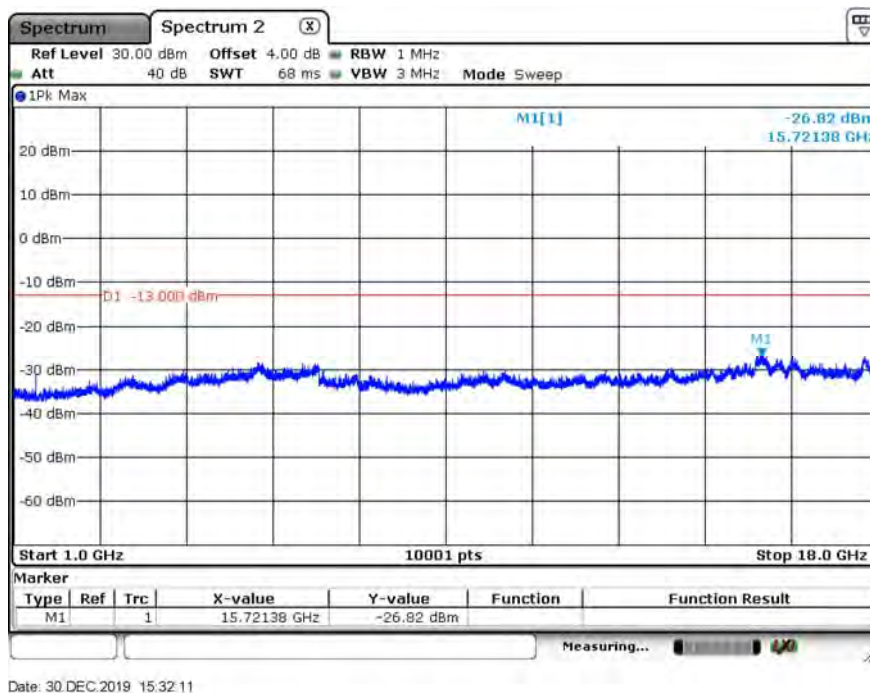
B12_CH23095_1.4M_1RB0_QPSK_Above 1G



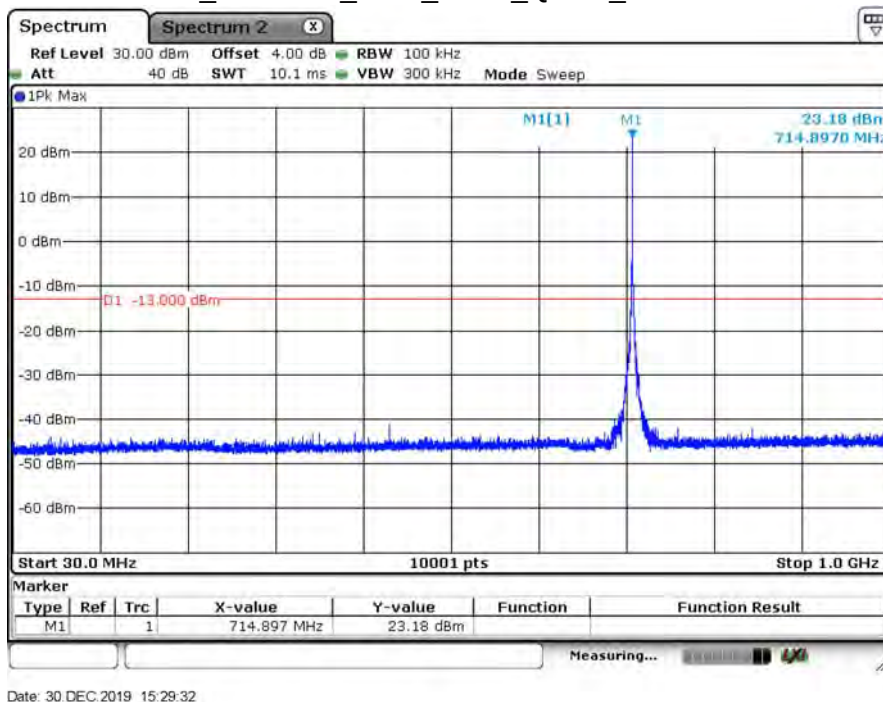
B12_CH23095_1.4M_1RB0_QPSK_Below 1G



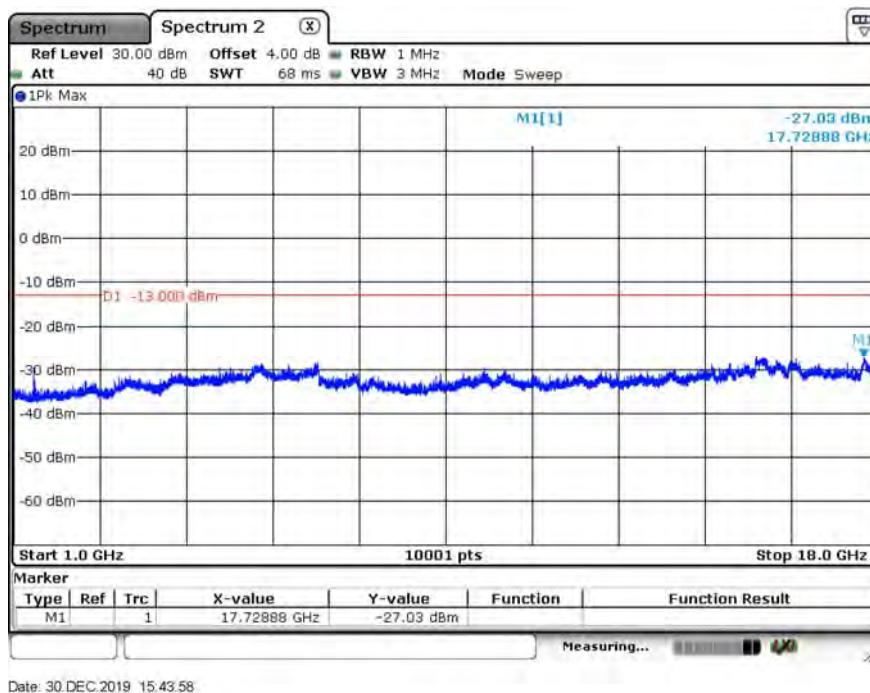
B12_CH23173_1.4M_1RB0_QPSK_Above 1G



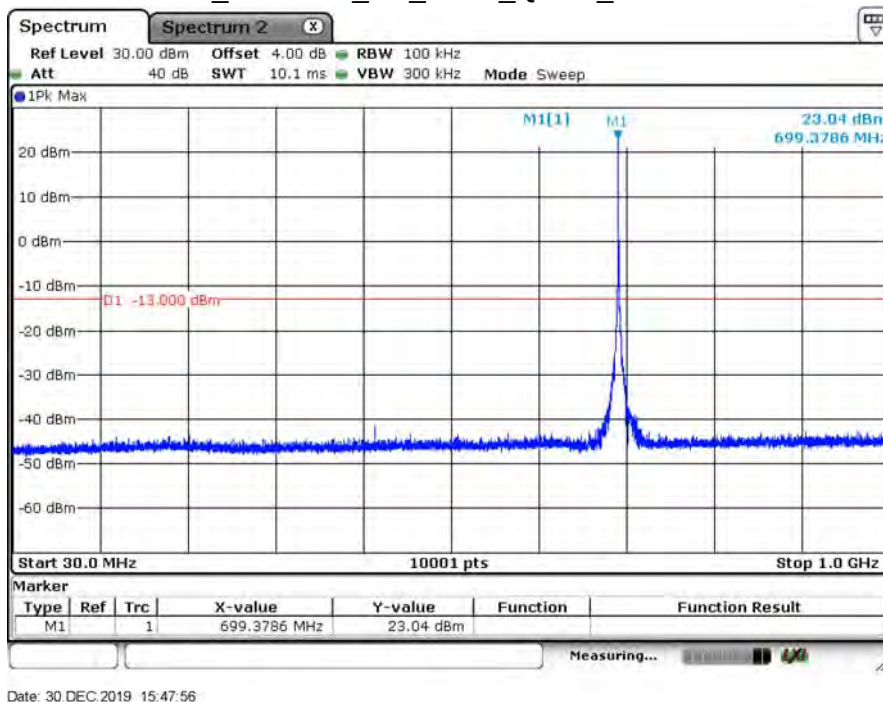
B12_CH23173_1.4M_1RB0_QPSK_Below 1G



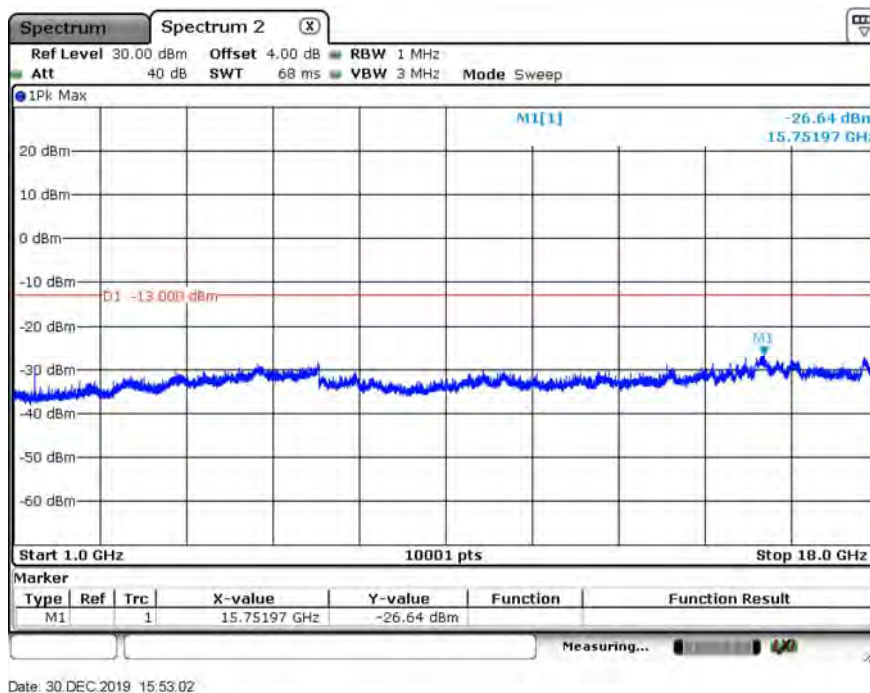
B12_CH23025_3M_1RB0_QPSK_Above 1G



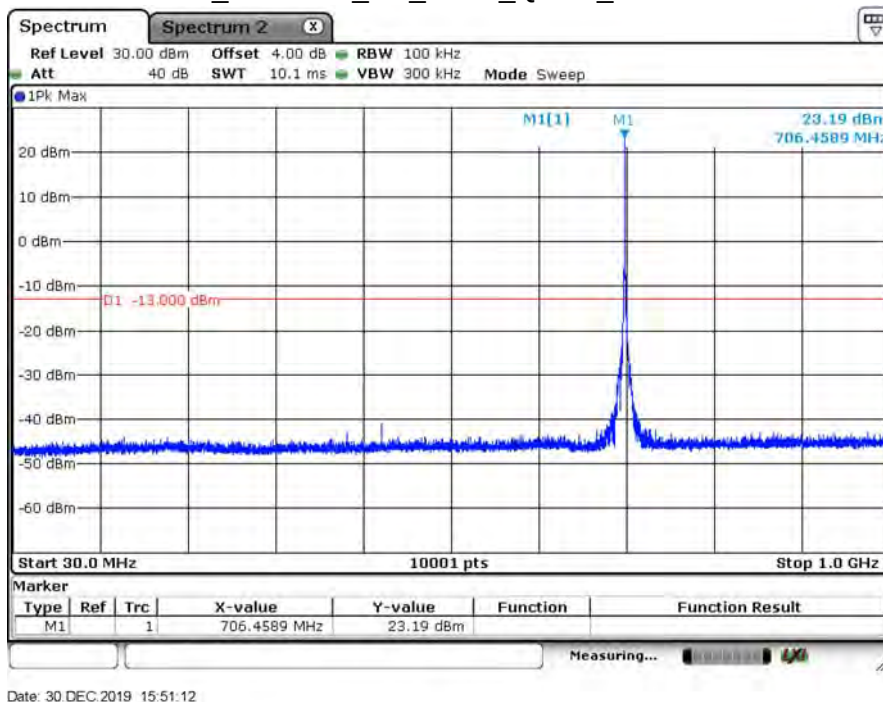
B12_CH23025_3M_1RB0_QPSK_Below 1G



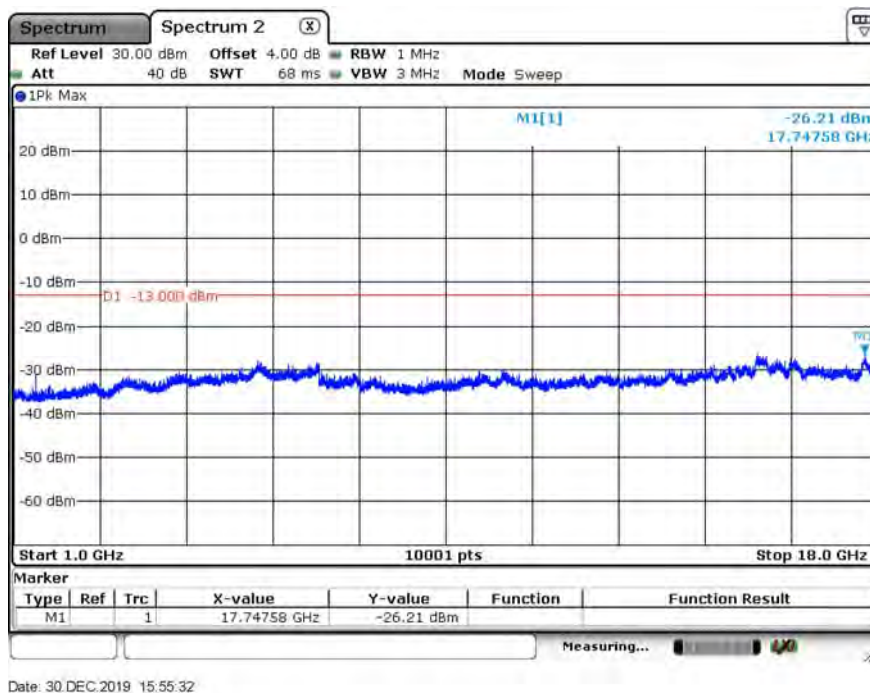
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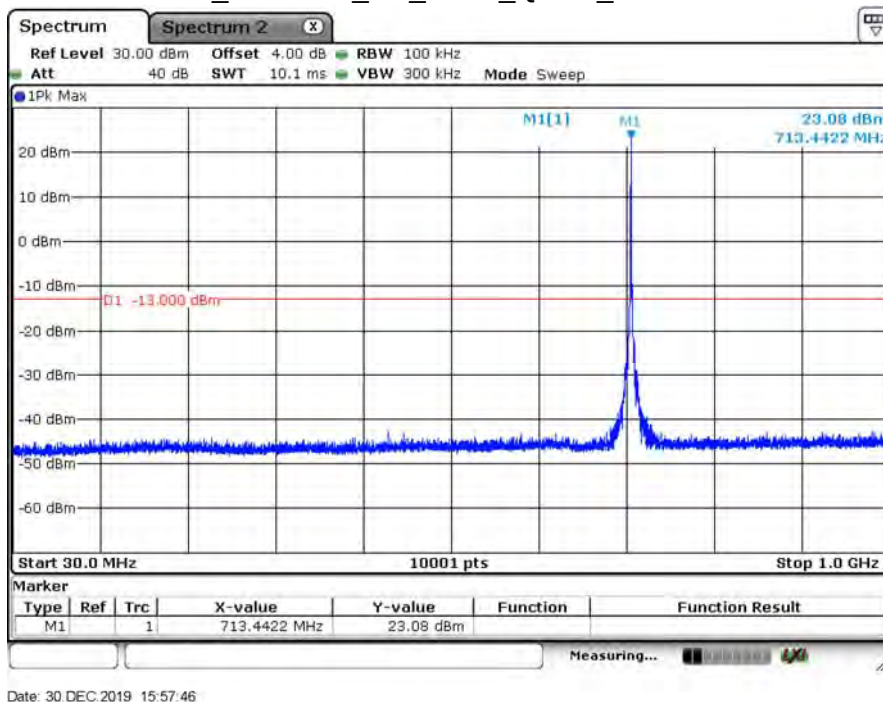
B12_CH23095_3M_1RB0_QPSK_Below 1G



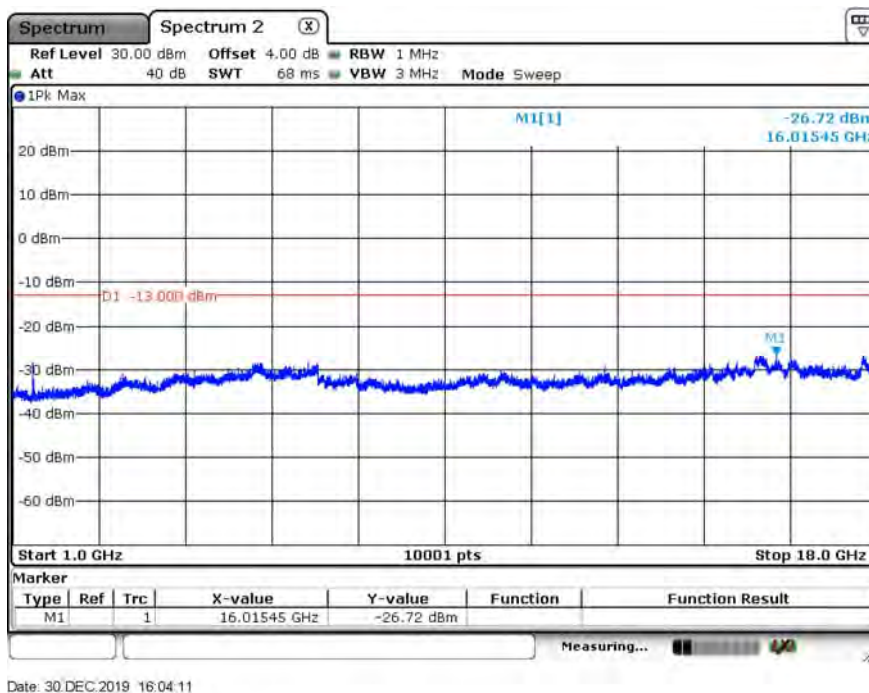
B12_CH23165_3M_1RB0_QPSK_Above 1G



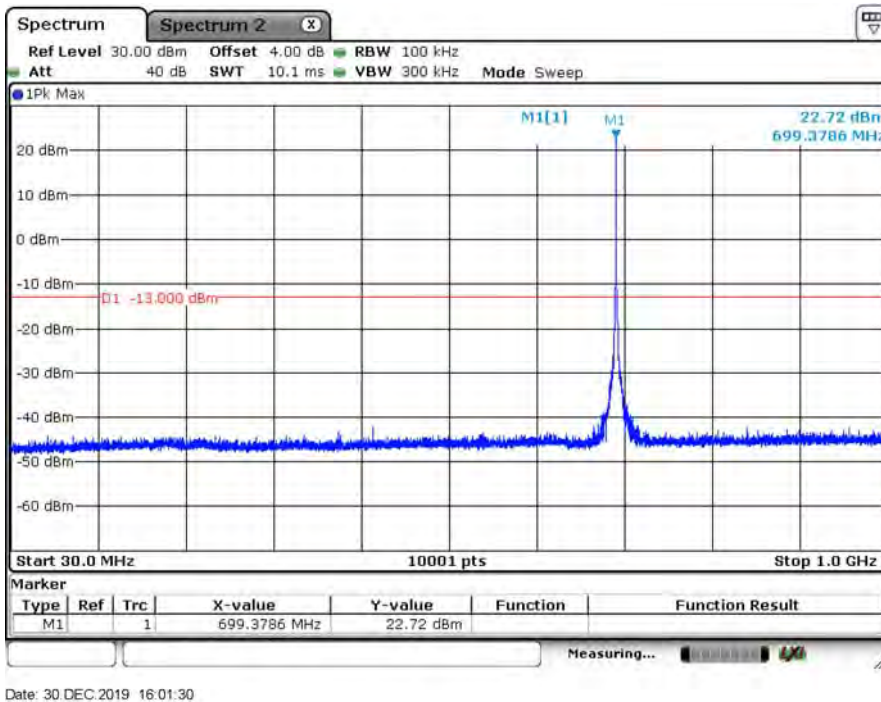
B12_CH23165_3M_1RB0_QPSK_Below 1G



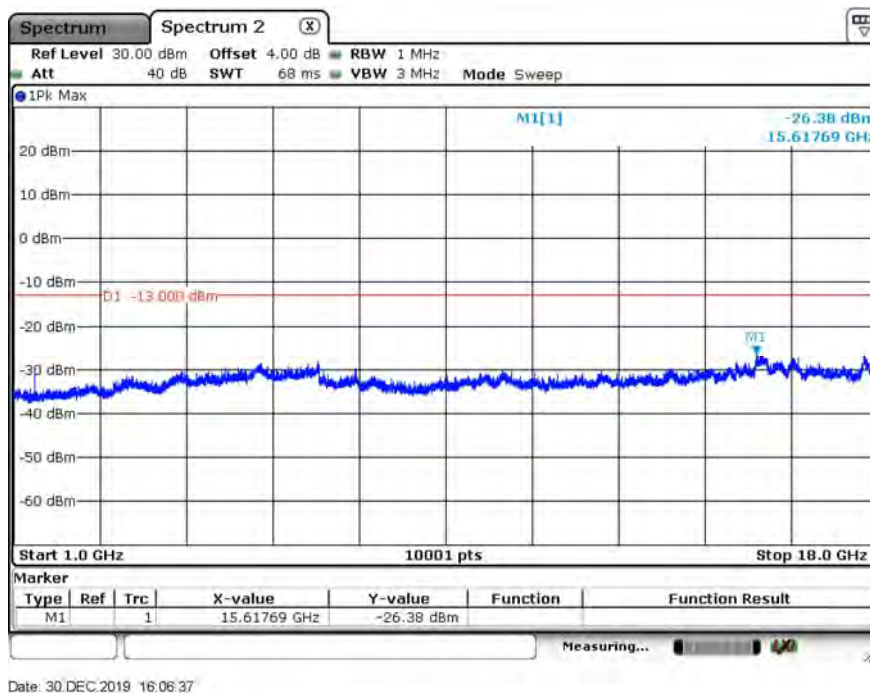
B12_CH23035_5M_1RB0_QPSK_above 1G



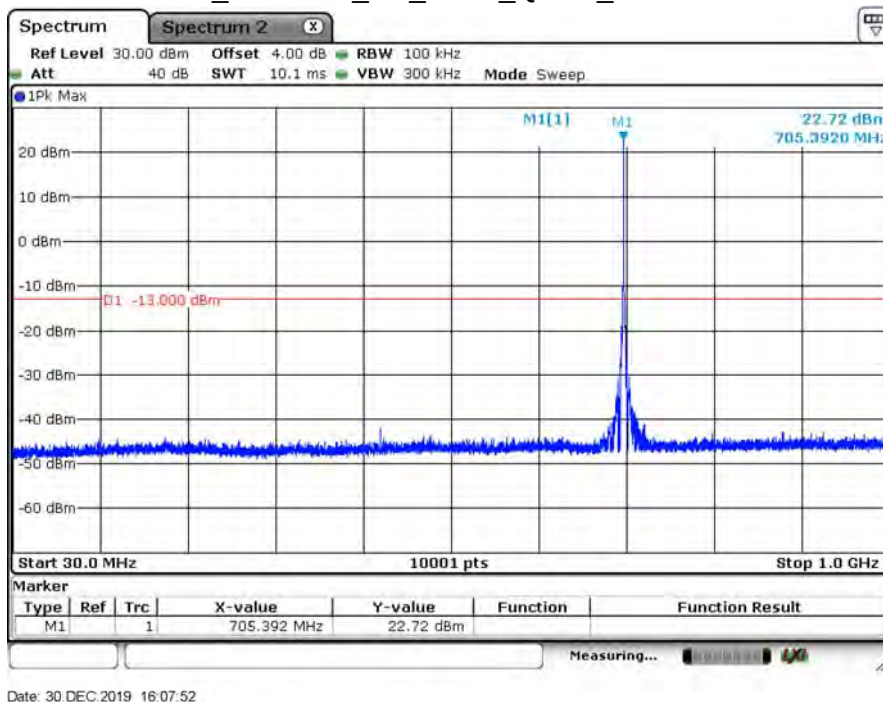
B12_CH23035_5M_1RB0_QPSK_Below 1G



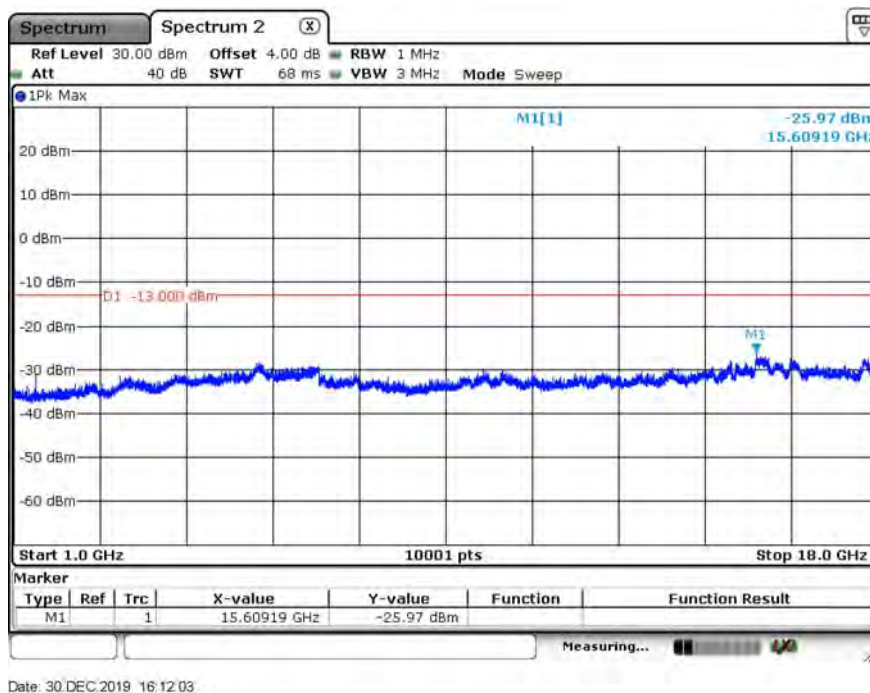
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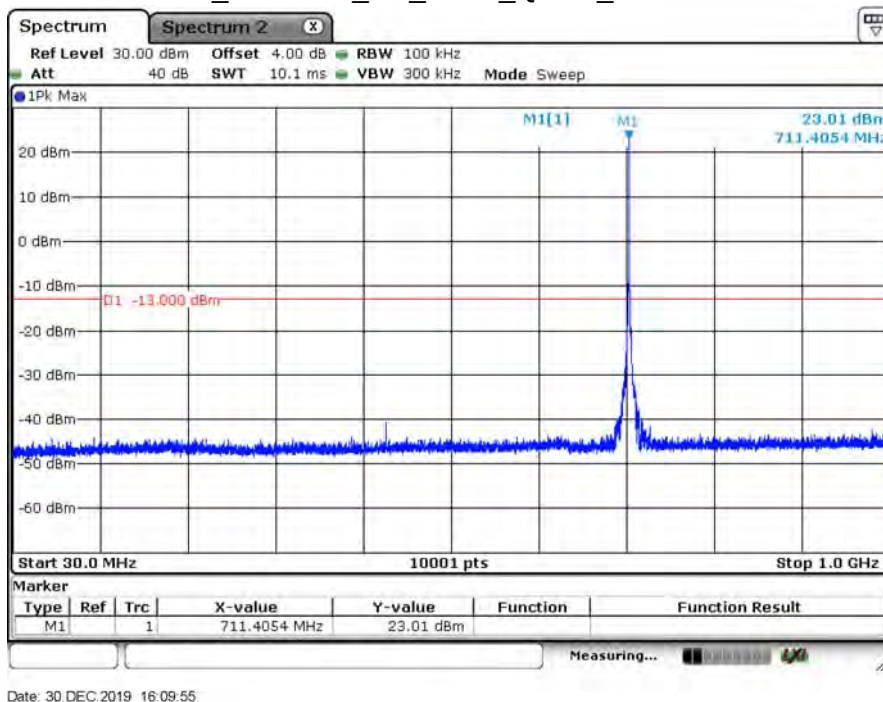
B12_CH23095_5M_1RB0_QPSK_Below 1G



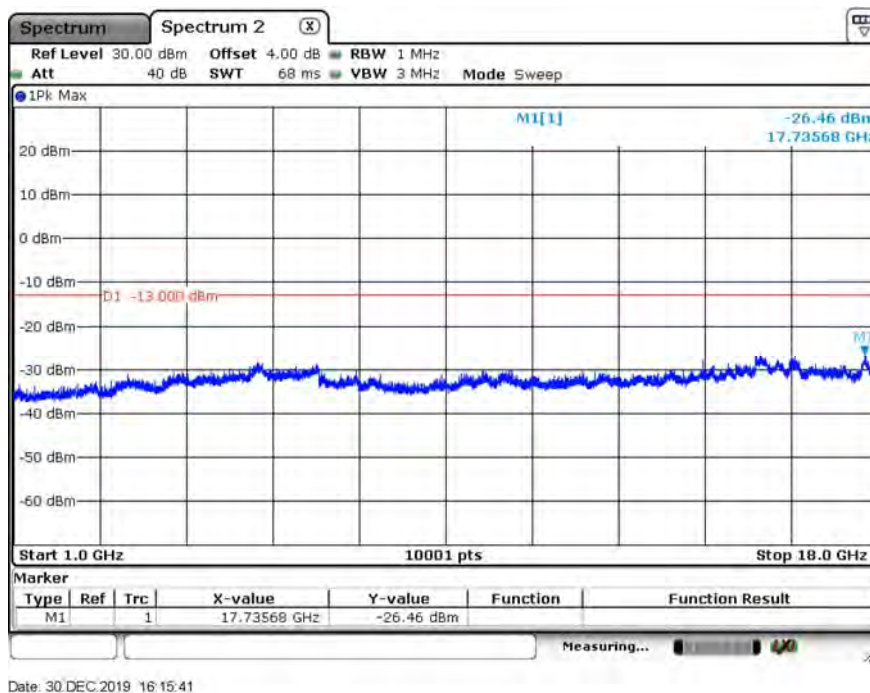
B12_CH23155_5M_1RB0_QPSK_above 1G



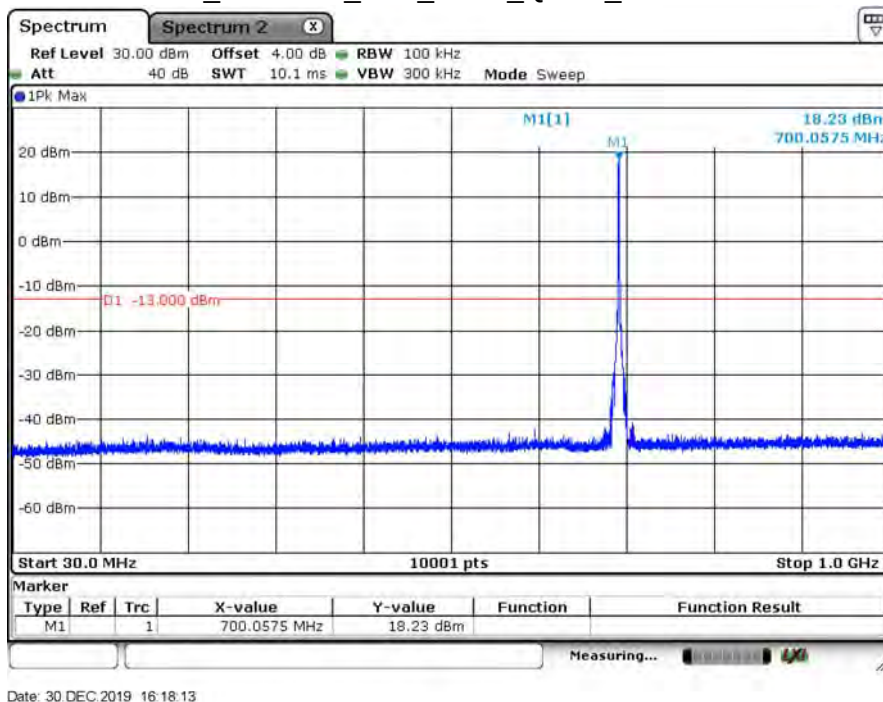
B12_CH23155_5M_1RB0_QPSK_Below 1G



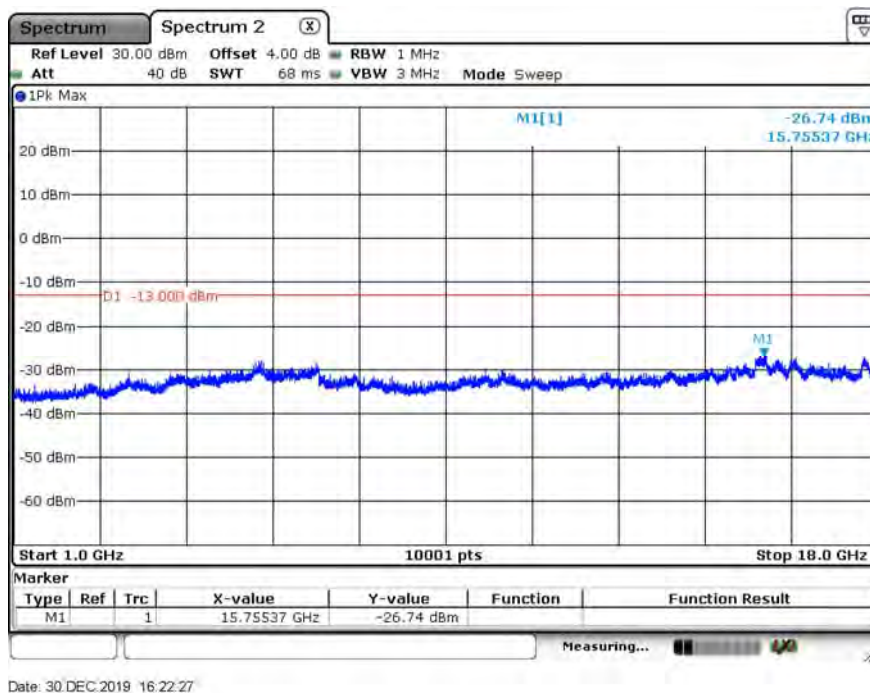
B12_CH23060_10M_1RB0_QPSK_above 1G



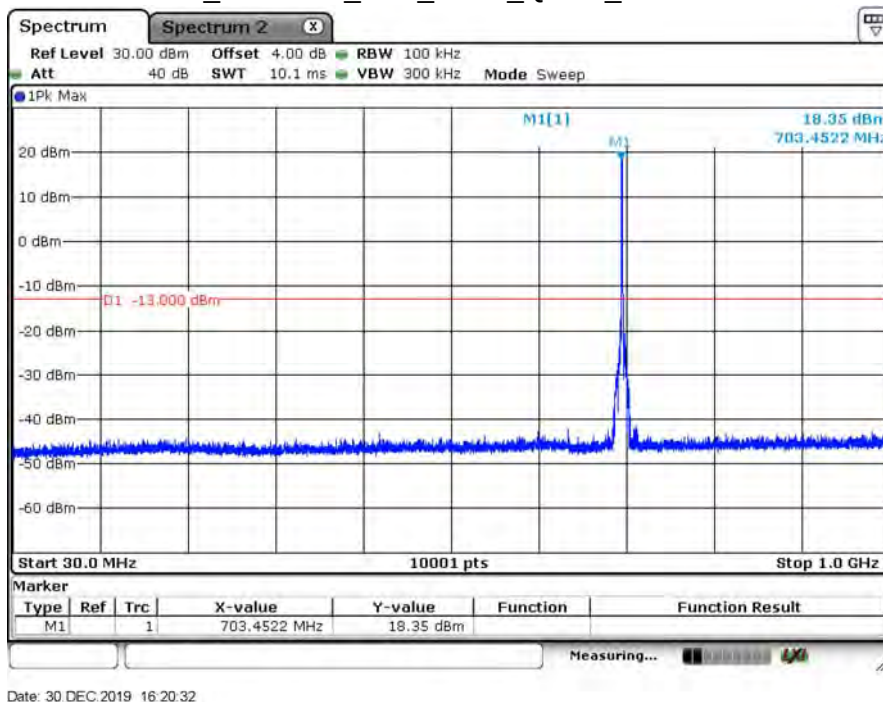
B12_CH23060_10M_1RB0_QPSK_Below 1G



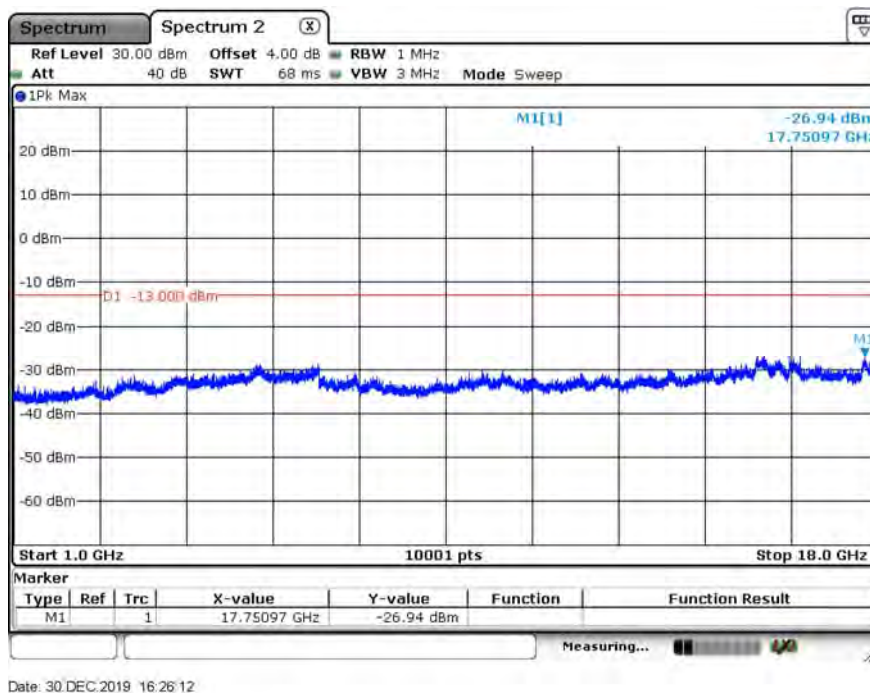
B12_CH23095_10M_1RB0_QPSK_above 1G



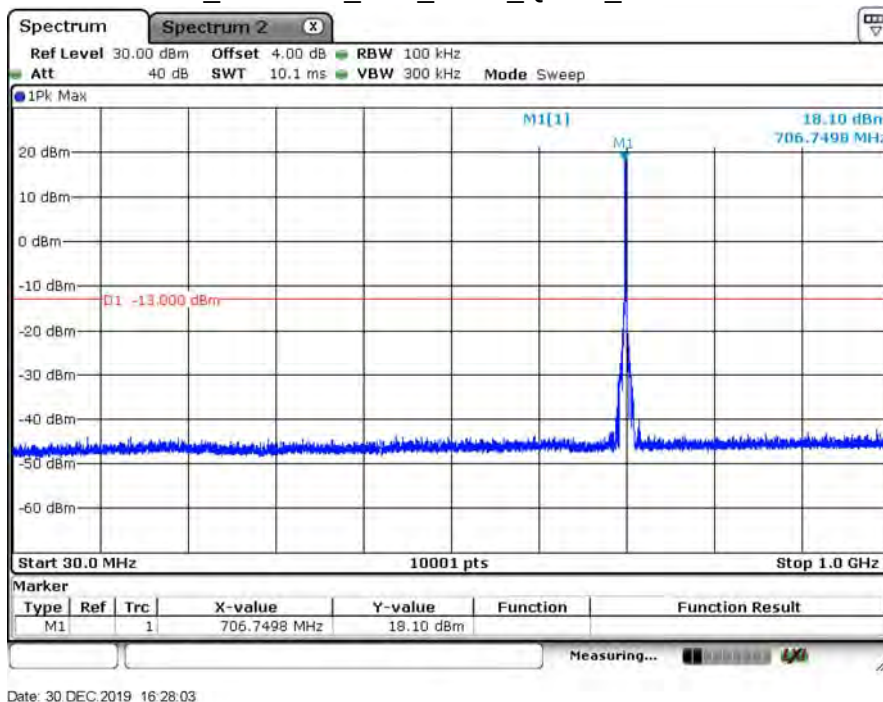
B12_CH23095_10M_1RB0_QPSK_Below 1G



B12_CH23130_10M_1RB0_QPSK_above 1G

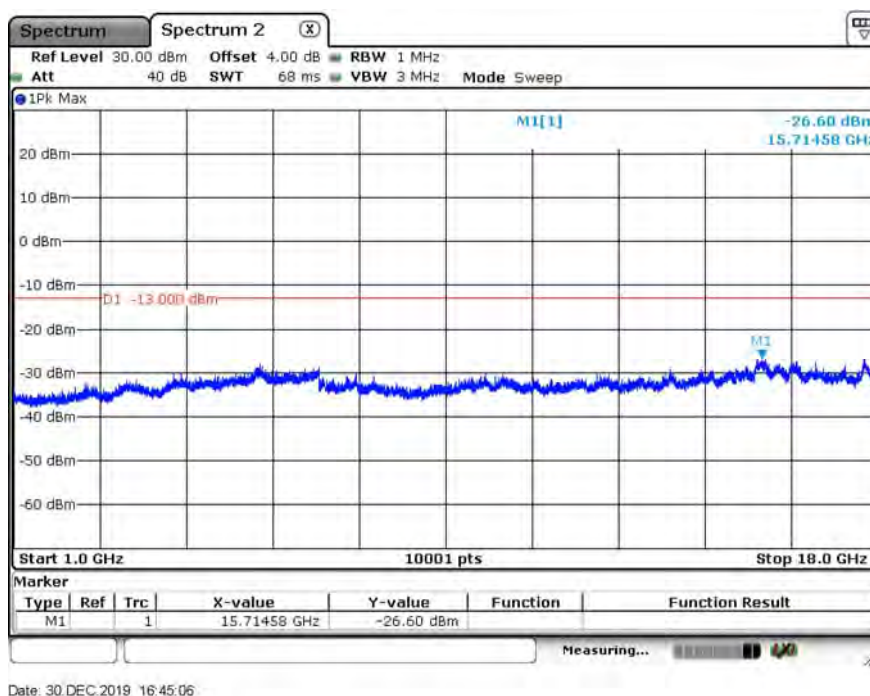


B12_CH23130_10M_1RB0_QPSK_Below 1G

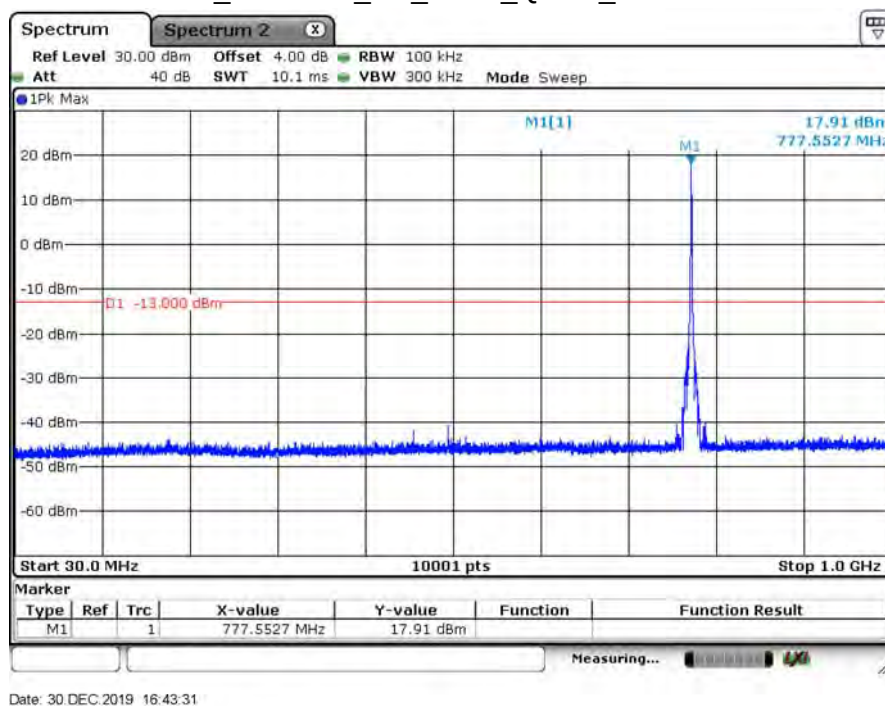


Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 4: LTE Band 13		
Date of Test	2019/12/30	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	61%RH

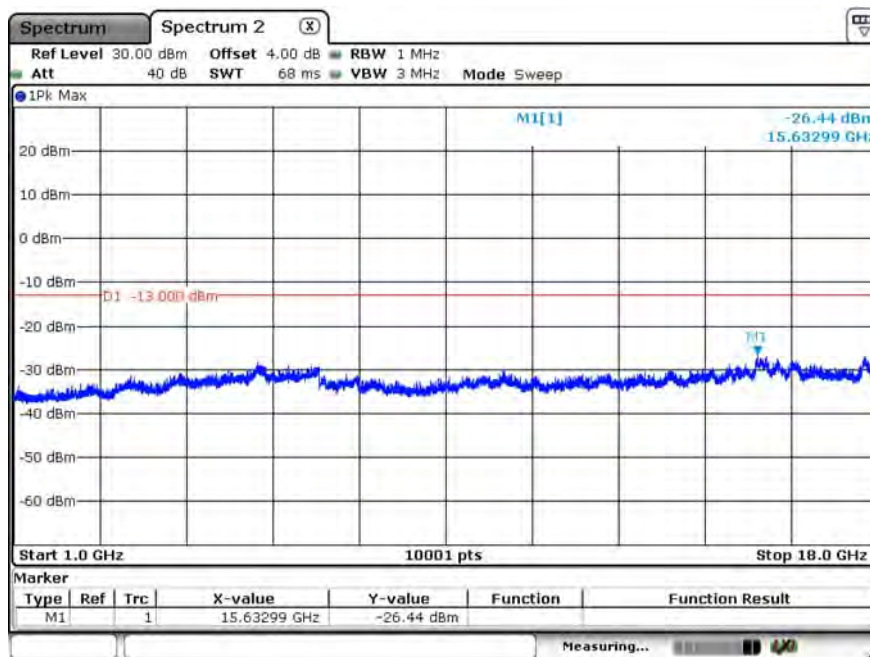
B13_CH23205_5M_1RB0_QPSK_above 1G



B13_CH23205_5M_1RB0_QPSK_Below 1G

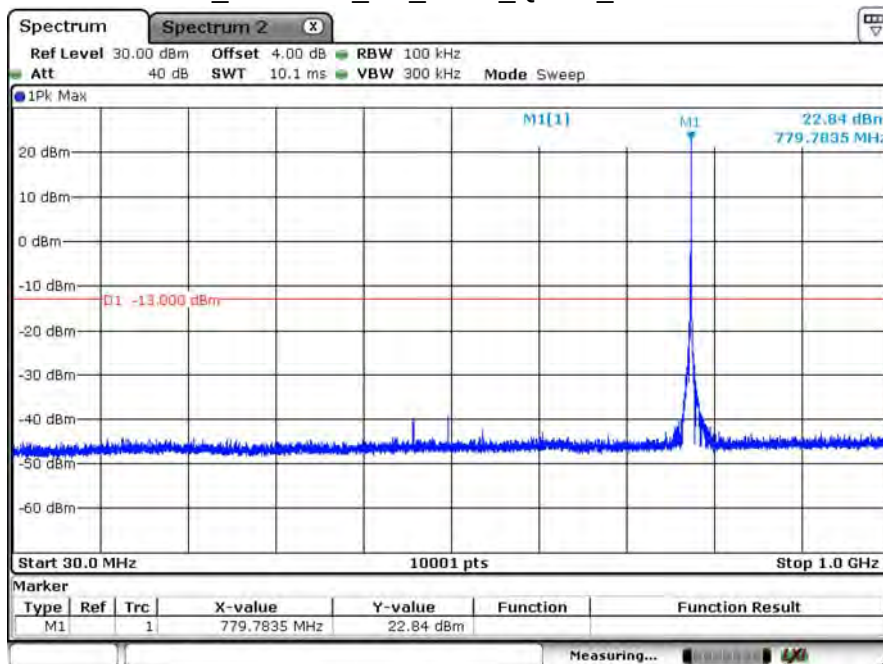


B13_CH23230_5M_1RB0_QPSK_above 1G



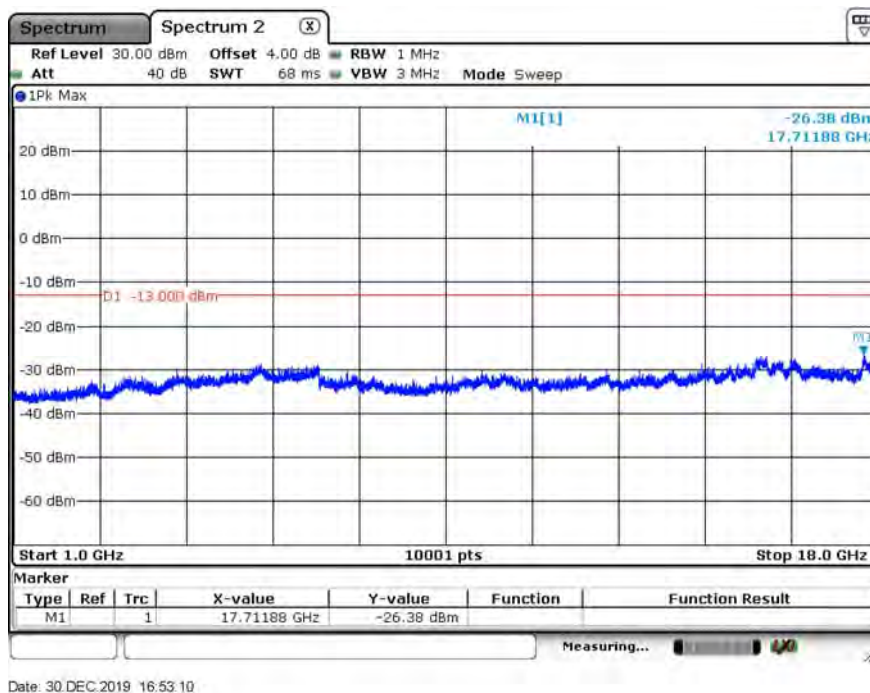
Date: 30 DEC 2019 16:47:33

B13_CH23230_5M_1RB0_QPSK_Below 1G

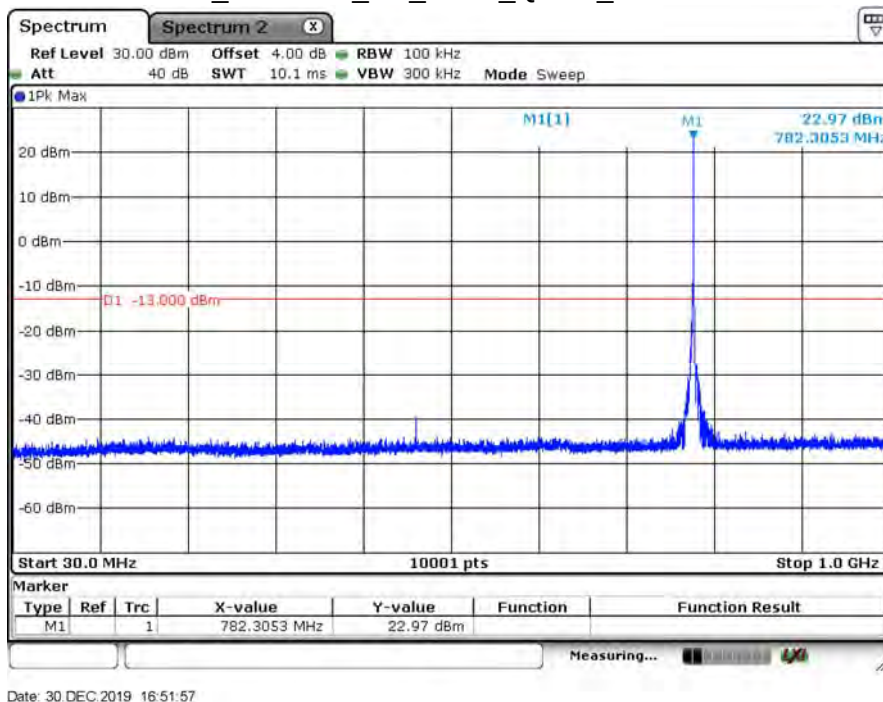


Date: 30 DEC 2019 16:49:14

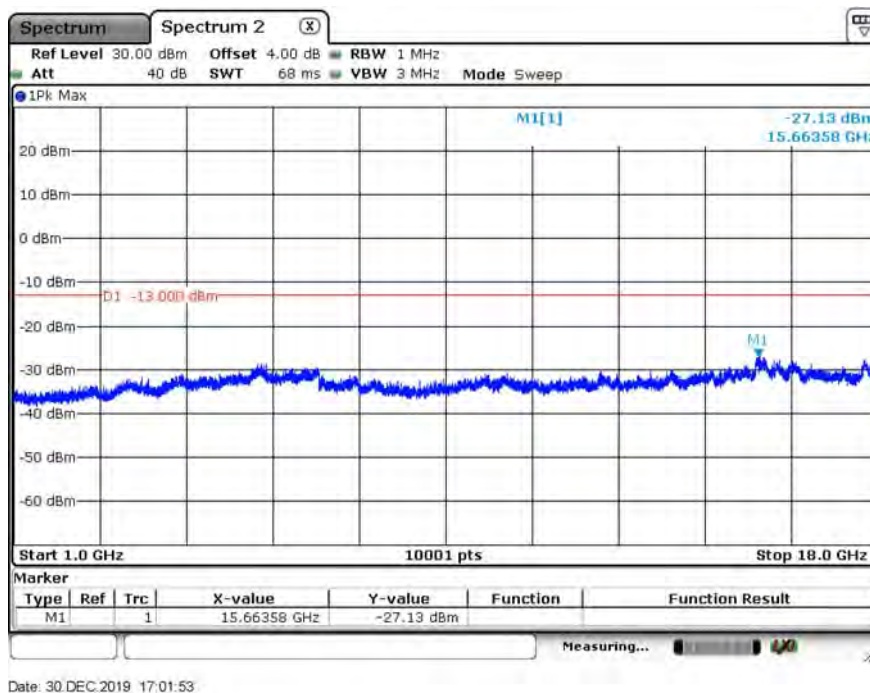
B13_CH23255_5M_1RB0_QPSK_above 1G



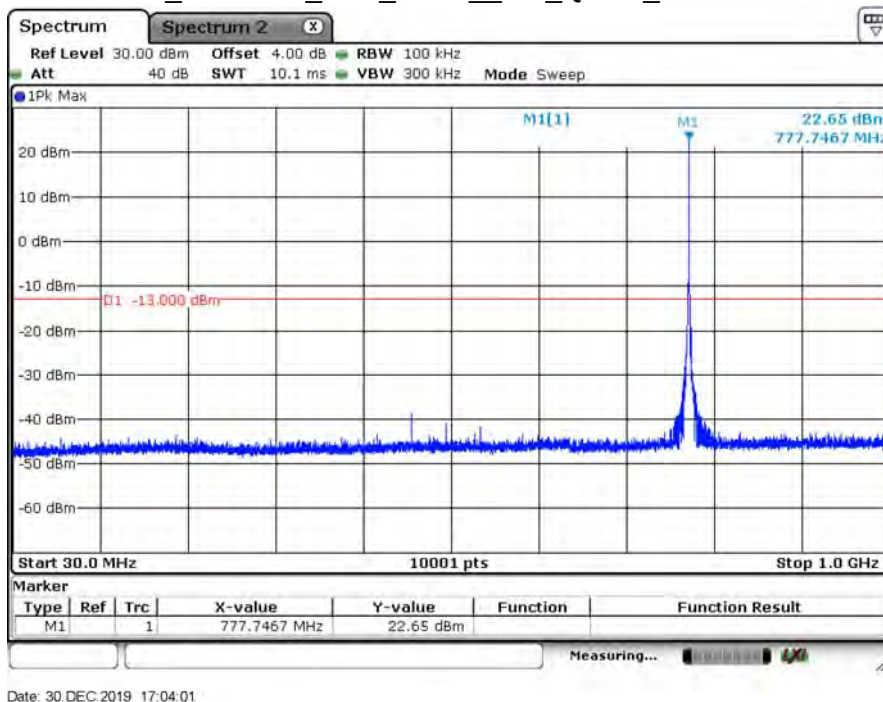
B13_CH23255_5M_1RB0_QPSK_Below 1G



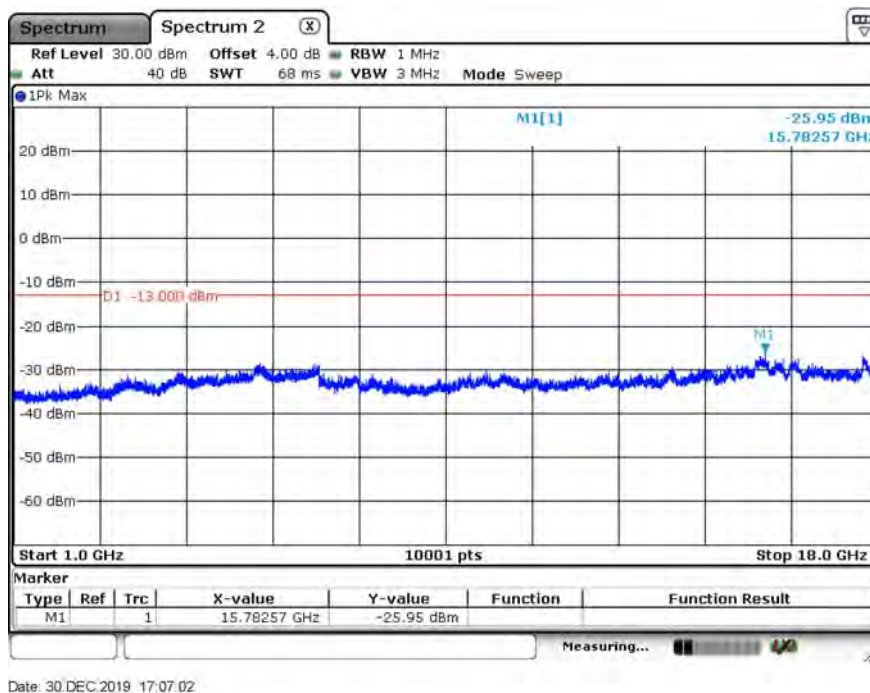
B13_CH23230_10M_1RB0__low_QPSK_above 1G



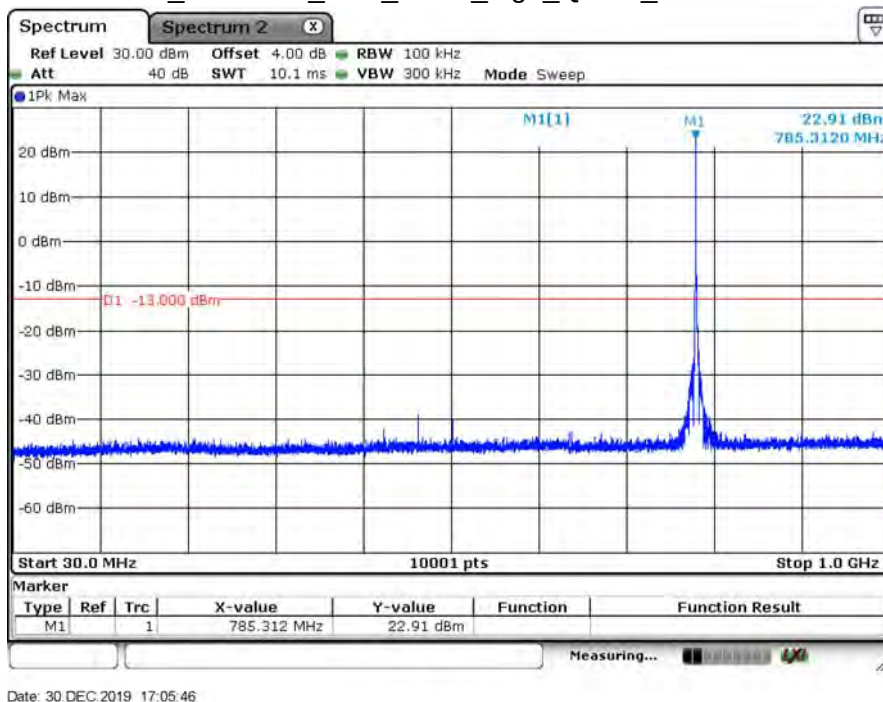
B13_CH23230_10M_1RB0__low_QPSK_Below 1G



B13_CH23230_10M_1RB0_high_QPSK_above 1G

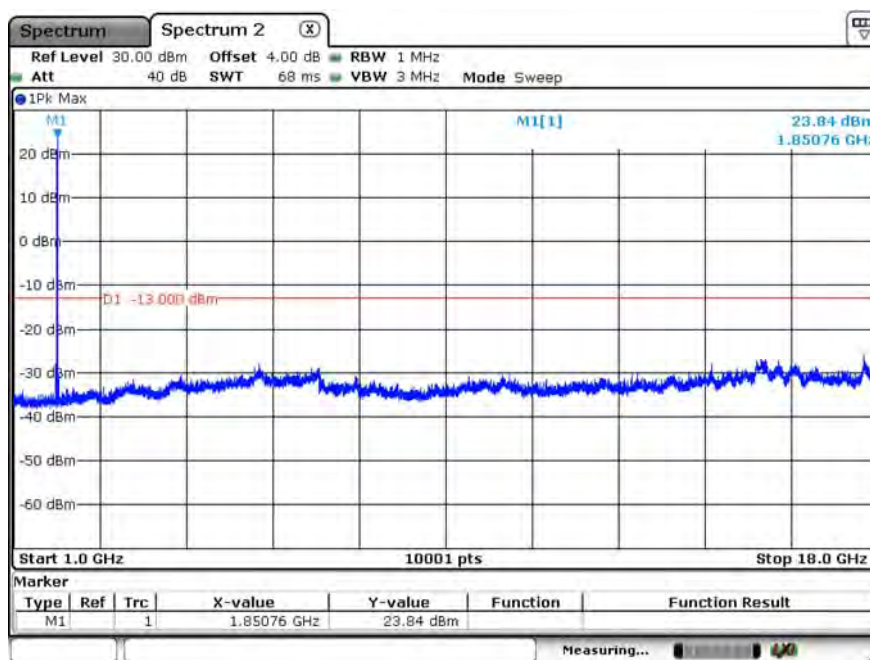


B13_CH23230_10M_1RB0_high_QPSK_Below 1G



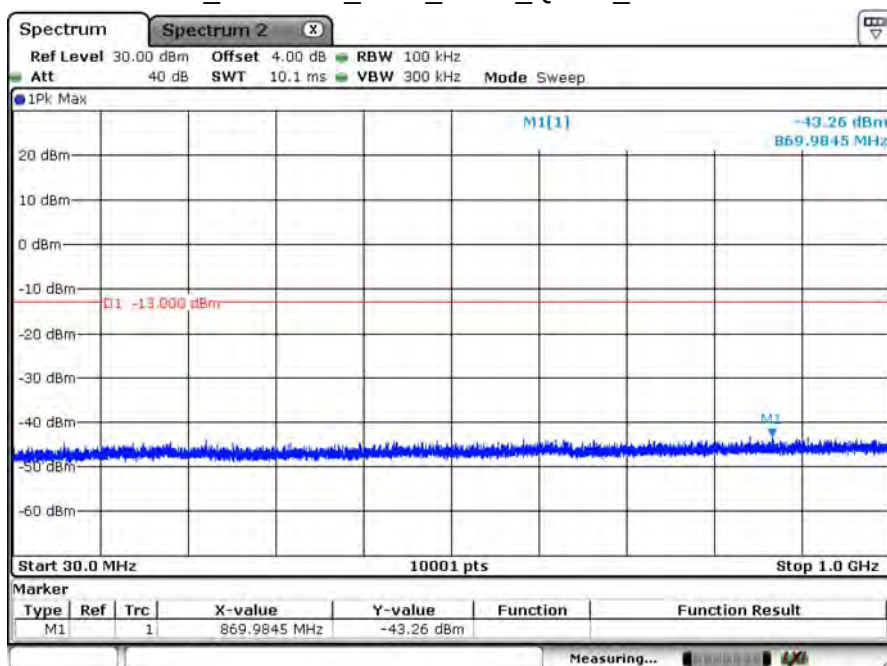
Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 5: LTE Band 25		
Date of Test	2019/12/30~2019/12/31	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	61%RH

B25_CH26047_1.4M_1RB0_QPSK_Above1G



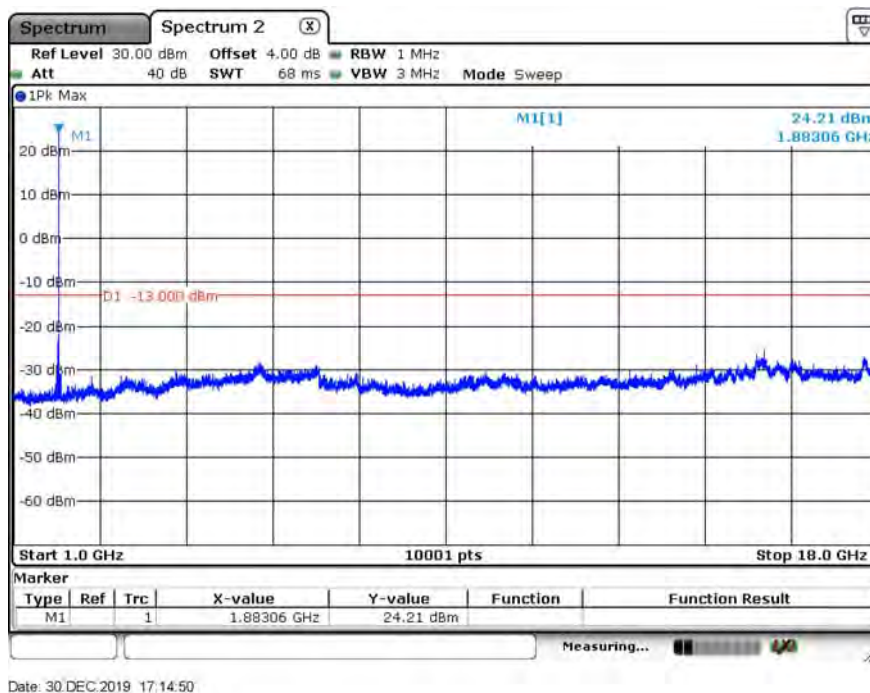
Date: 30 DEC 2019 17:12:06

B25_CH26047_1.4M_1RB0_QPSK_Below1G

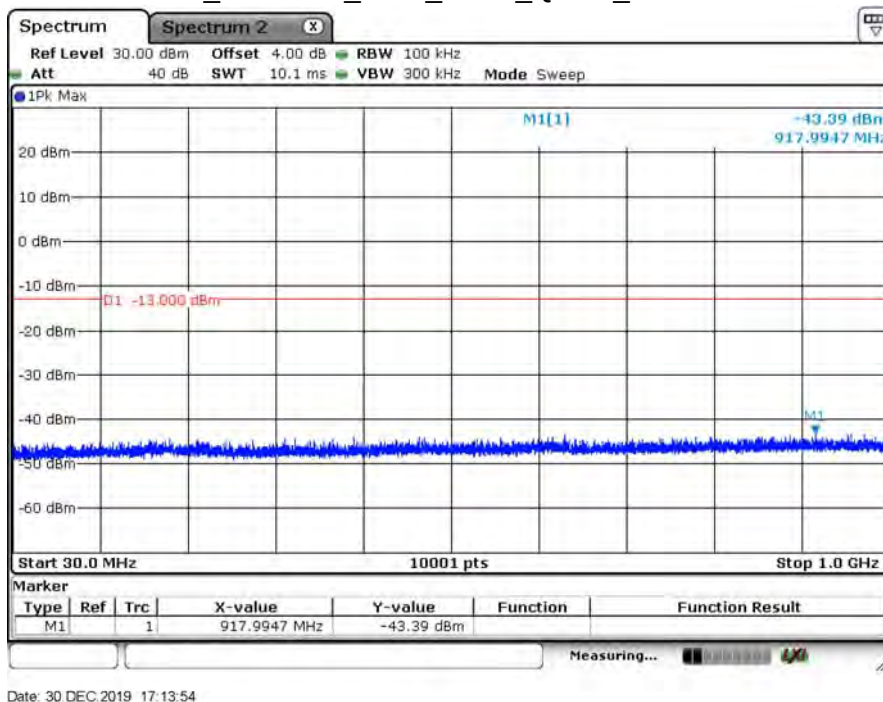


Date: 30 DEC 2019 17:12:56

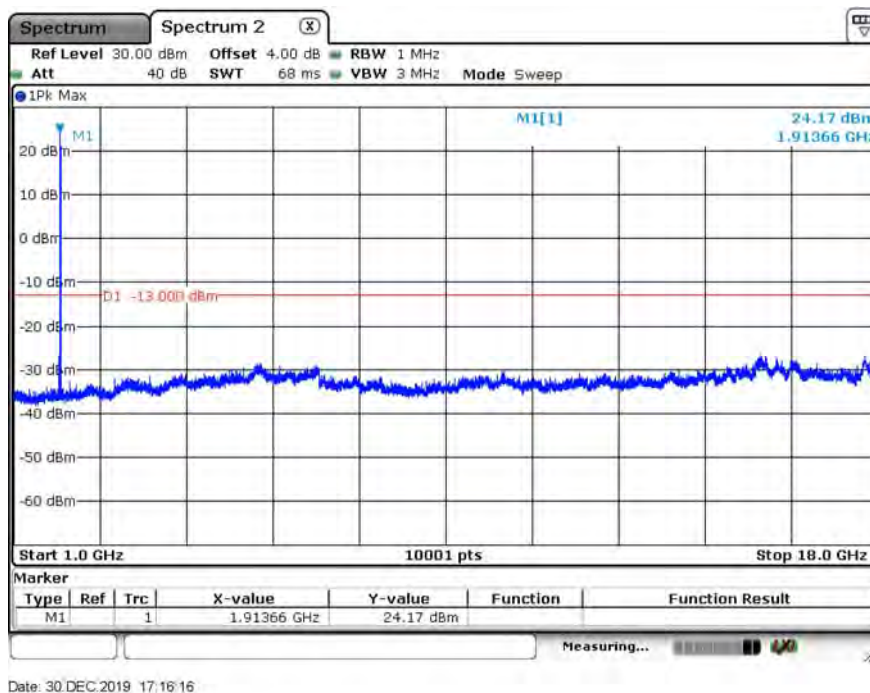
B25_CH26365_1.4M_1RB0_QPSK_Above1G



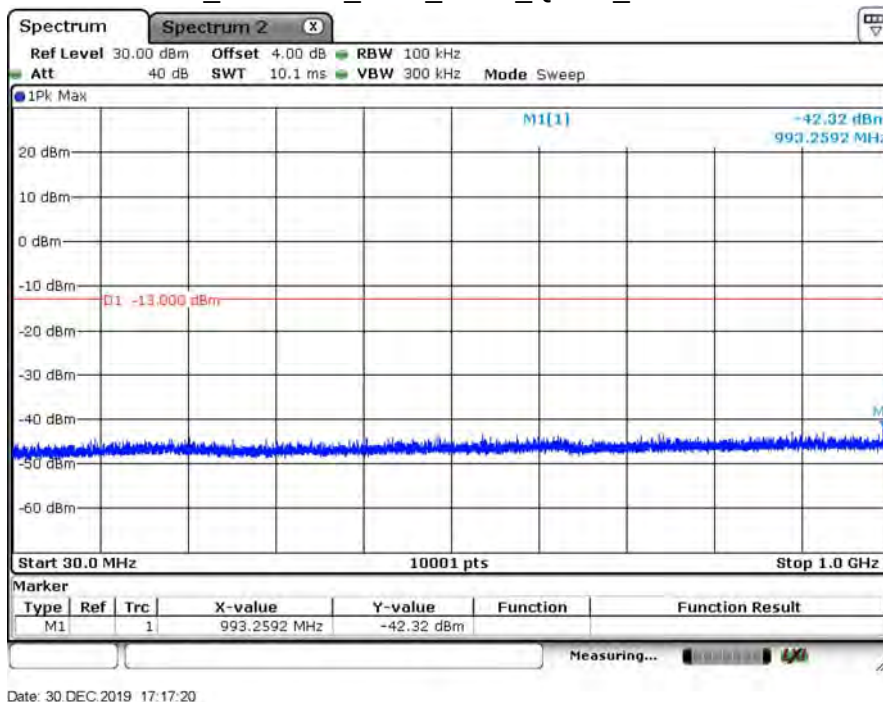
B25_CH26365_1.4M_1RB0_QPSK_Below1G



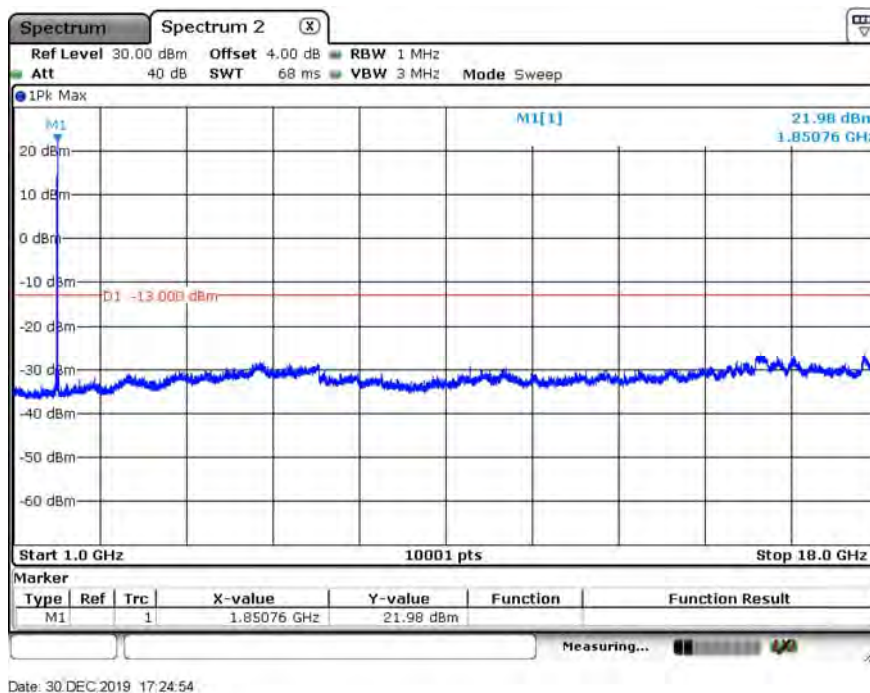
B25_CH26683_1.4M_1RB0_QPSK_Above1G



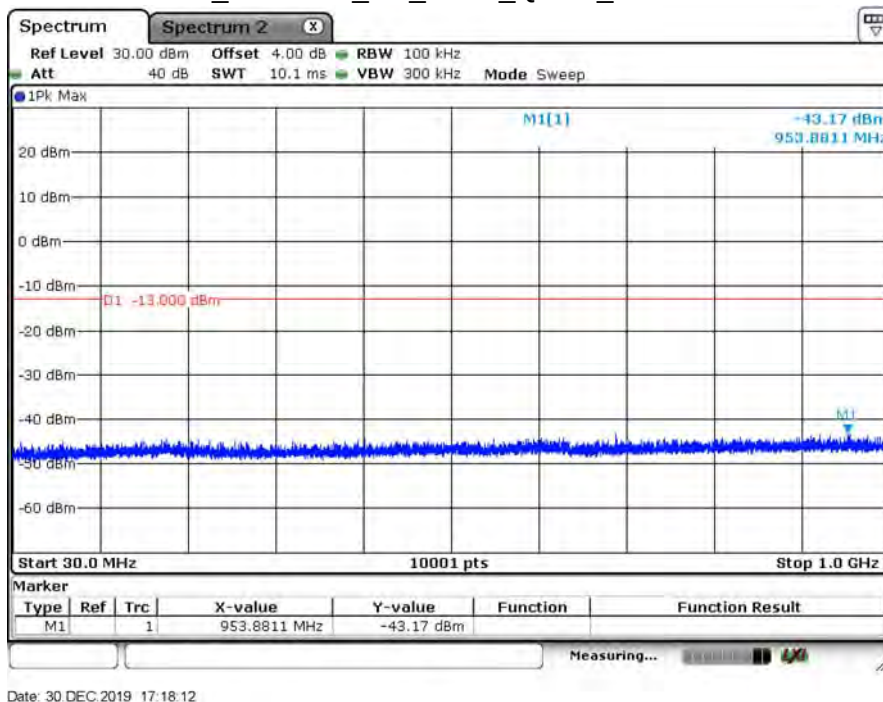
B25_CH26683_1.4M_1RB0_QPSK_Below1G



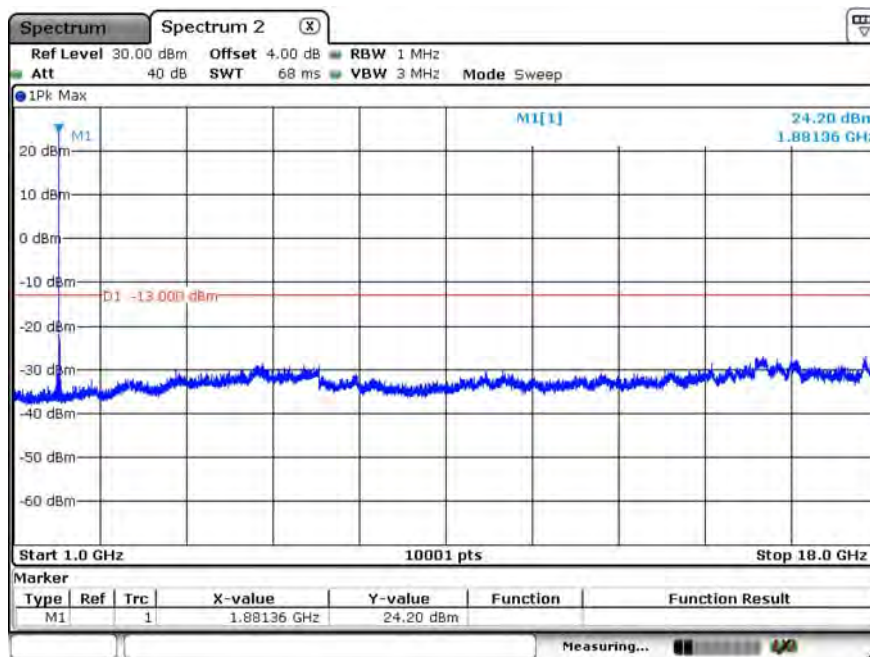
B25_CH26055_3M_1RB0_QPSK_Above 1G



B25_CH26055_3M_1RB0_QPSK_Below 1G

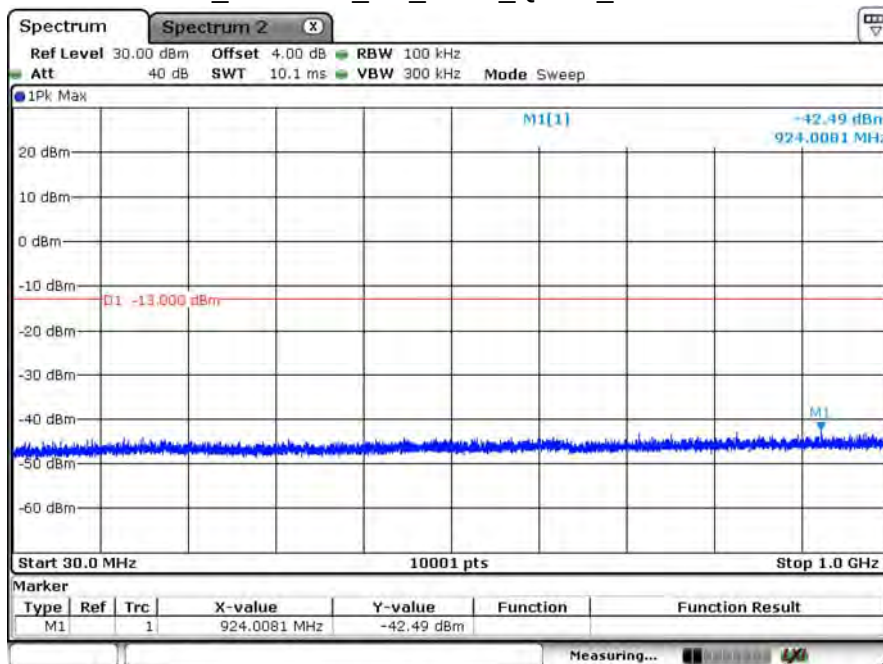


B25_CH26365_3M_1RB0_QPSK_Above 1G



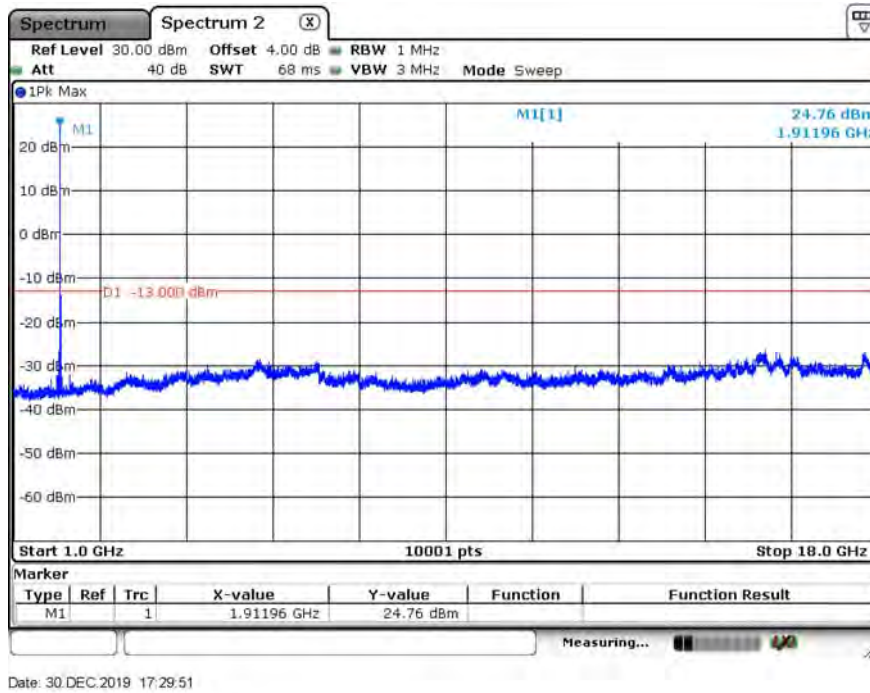
Date: 30 DEC.2019 17:26:13

B25_CH26365_3M_1RB0_QPSK_Below 1G

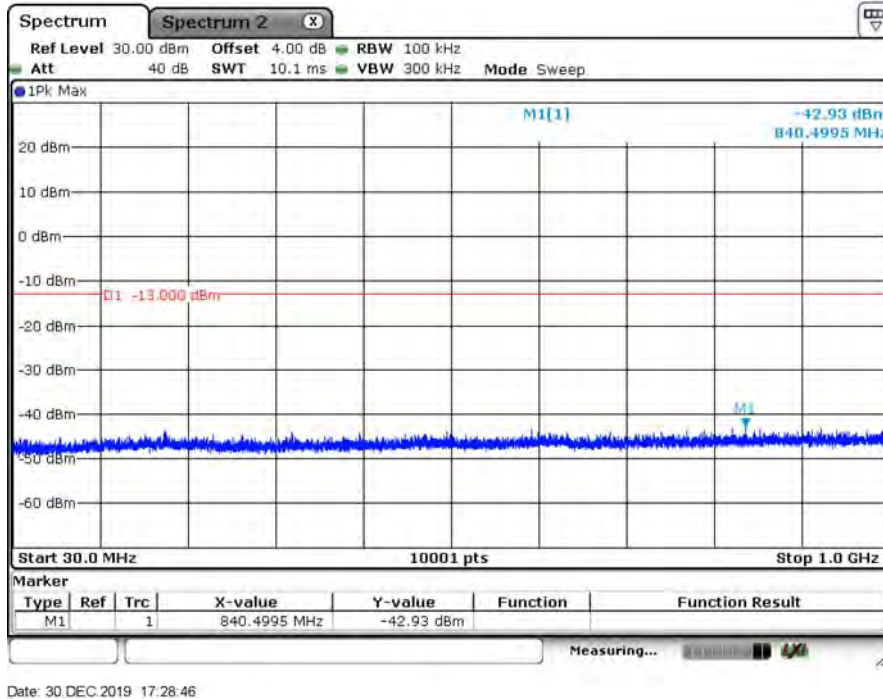


Date: 30 DEC.2019 17:27:36

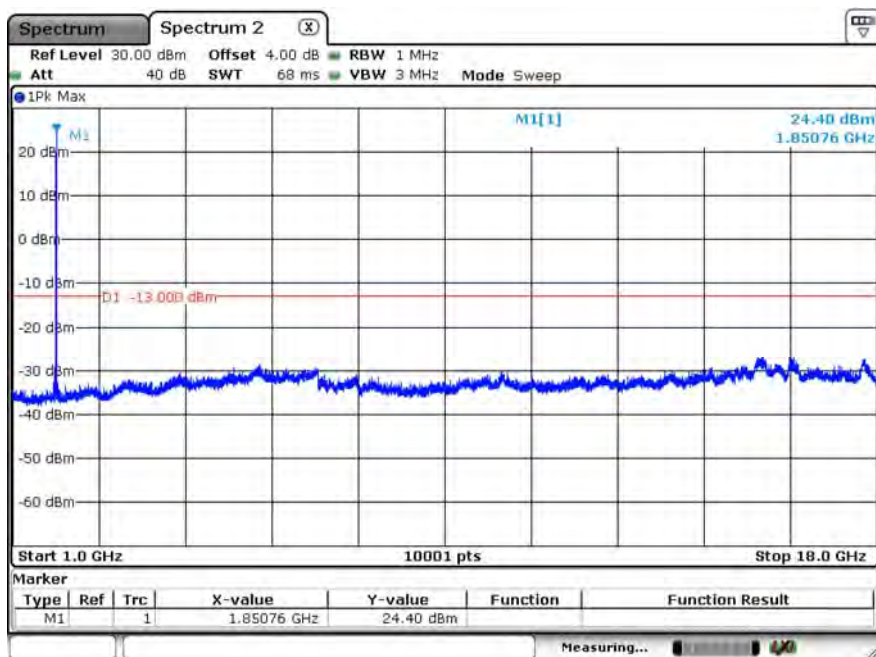
B25_CH26675_3M_1RB0_QPSK_Above 1G



B25_CH26675_3M_1RB0_QPSK_Below 1G

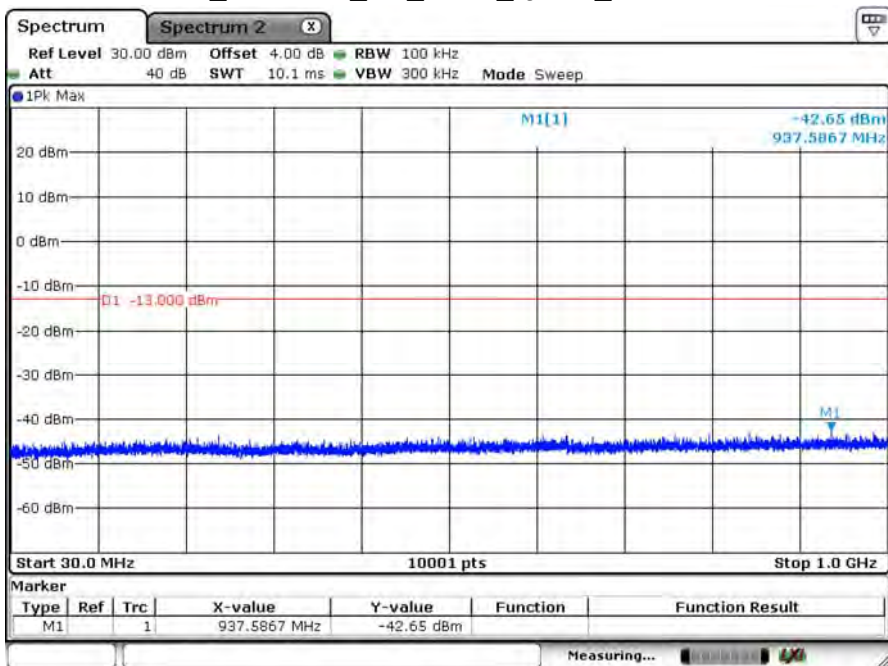


B25_CH26065_5M_1RB0_QPSK_Above 1G



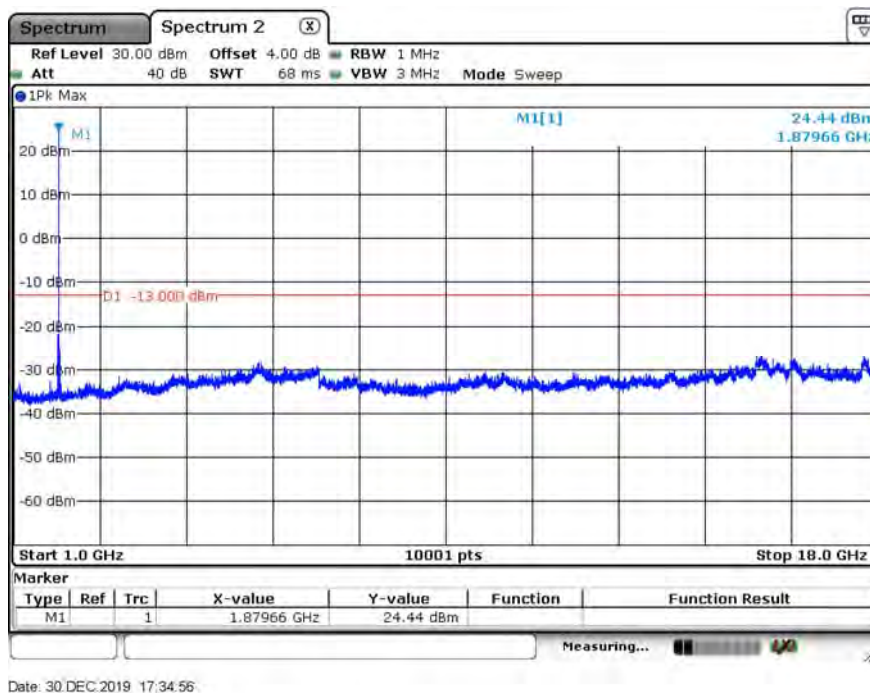
Date: 30 DEC 2019 17:31:20

B25_CH26065_5M_1RB0_QPSK_Below 1G

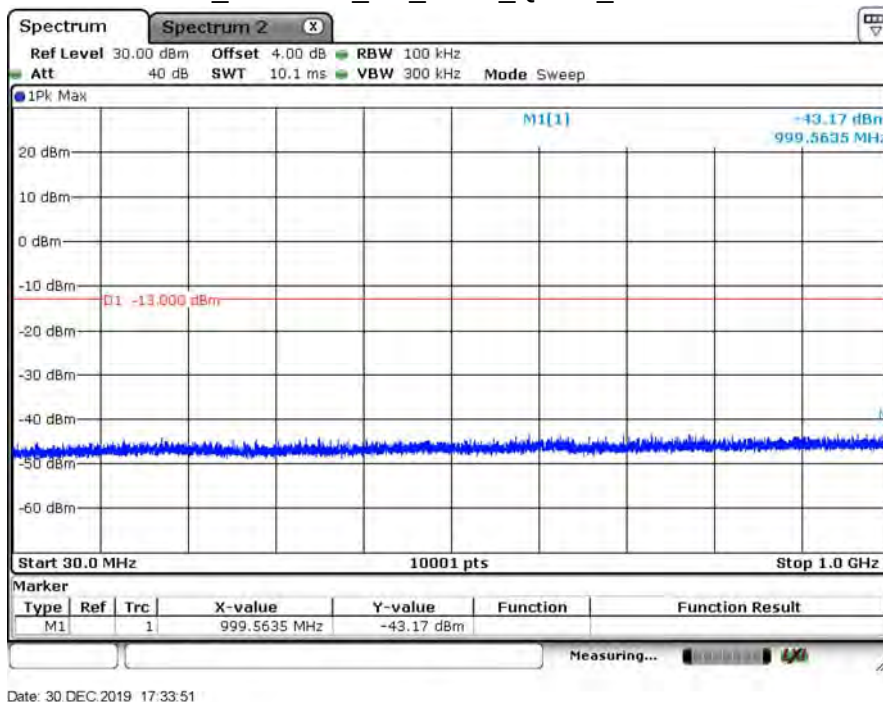


Date: 30 DEC 2019 17:32:34

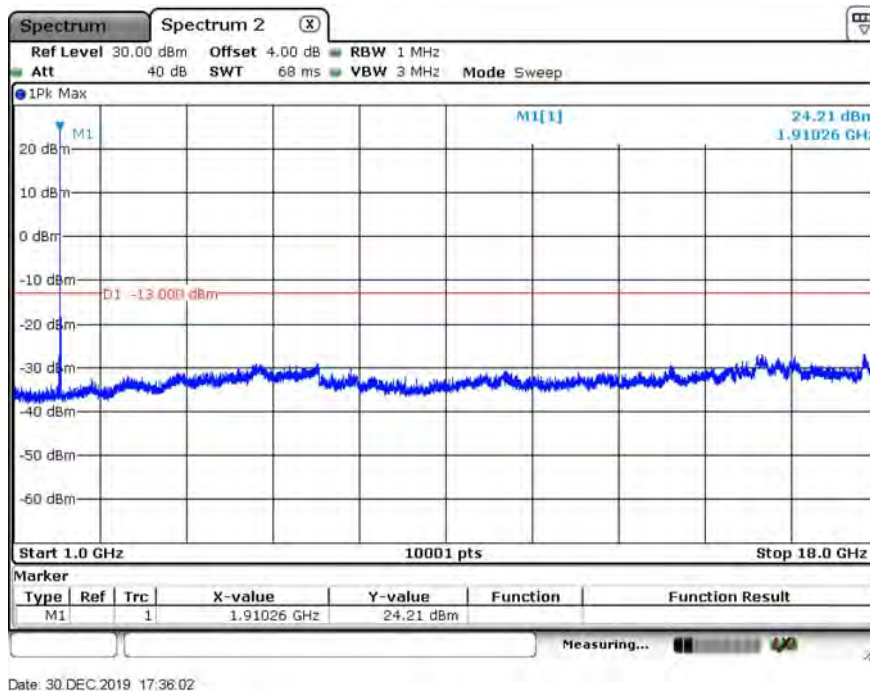
B25_CH26365_5M_1RB0_QPSK_Above 1G



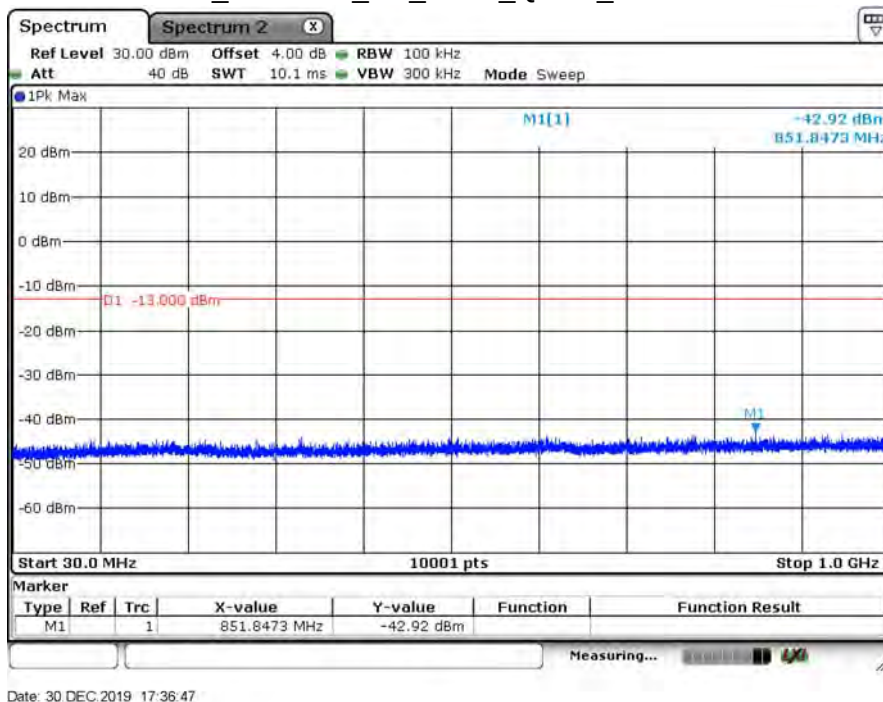
B25_CH26365_5M_1RB0_QPSK_Below 1G



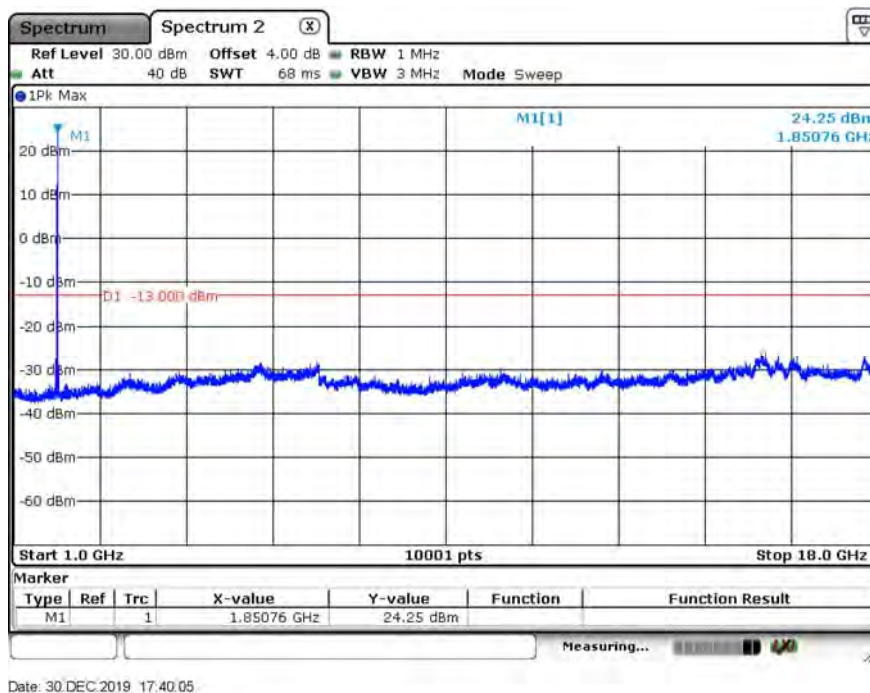
B25_CH26665_5M_1RB0_QPSK_Above 1G



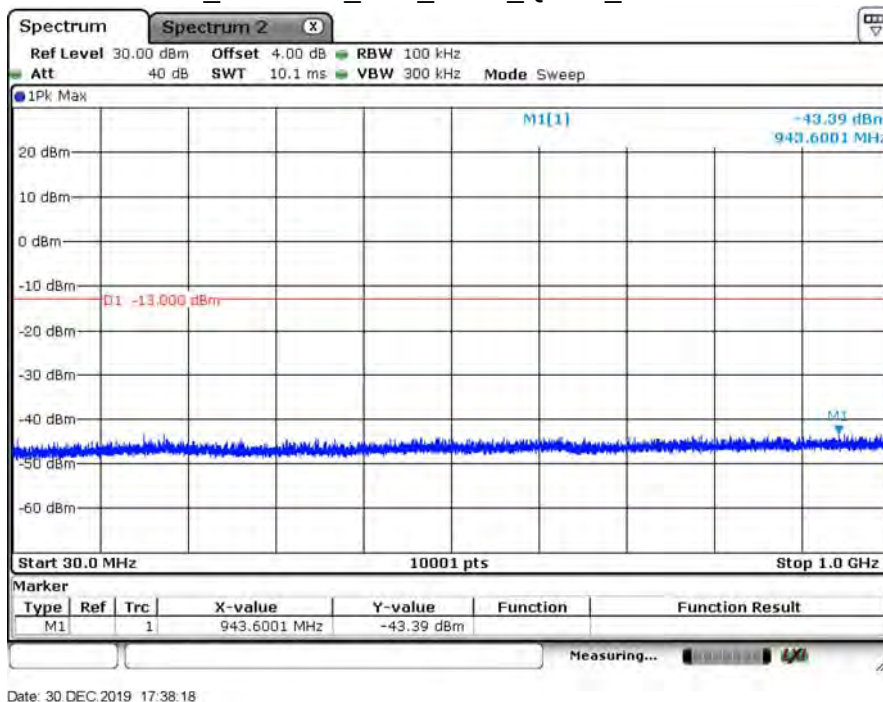
B25_CH26665_5M_1RB0_QPSK_Below 1G

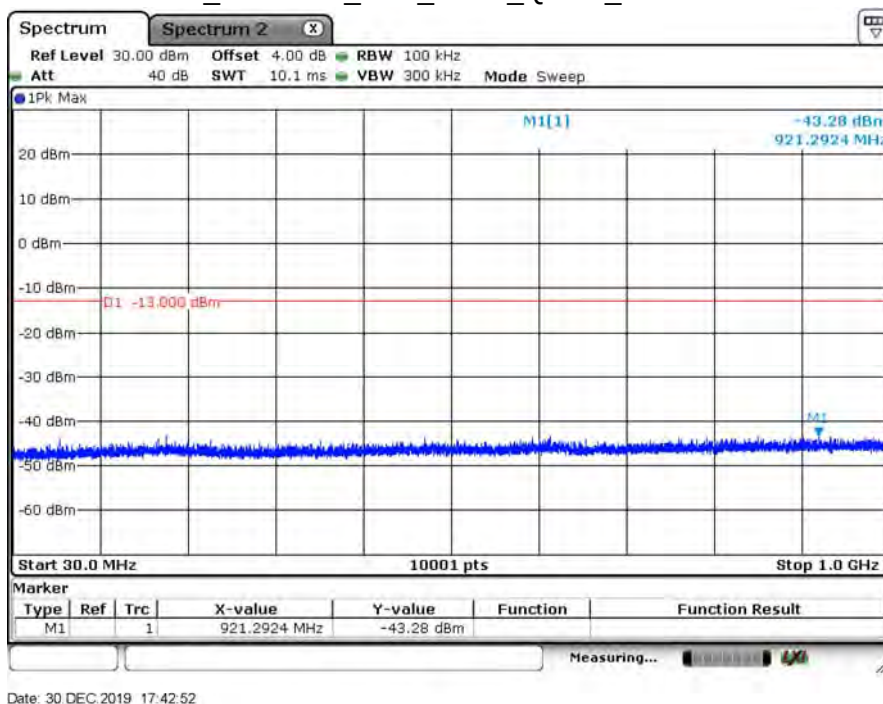
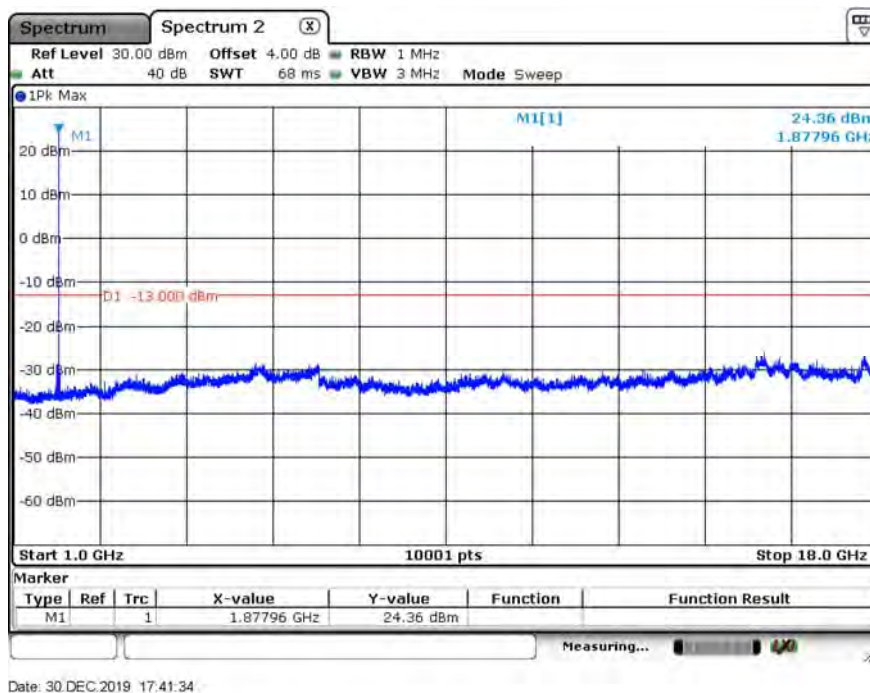


B25_CH26090_10M_1RB0_QPSK_Above 1G

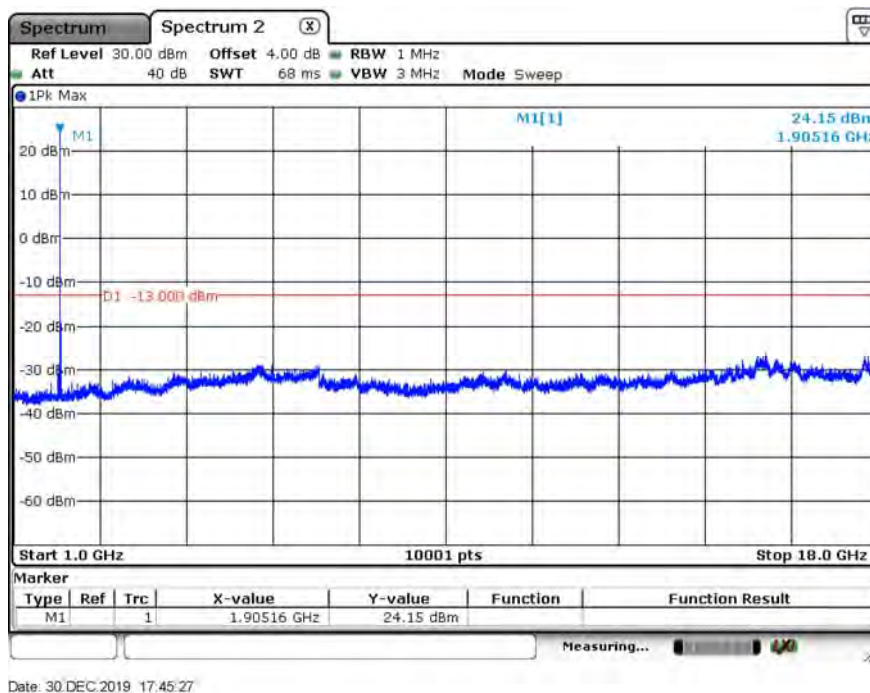


B25_CH26090_10M_1RB0_QPSK_Below 1G

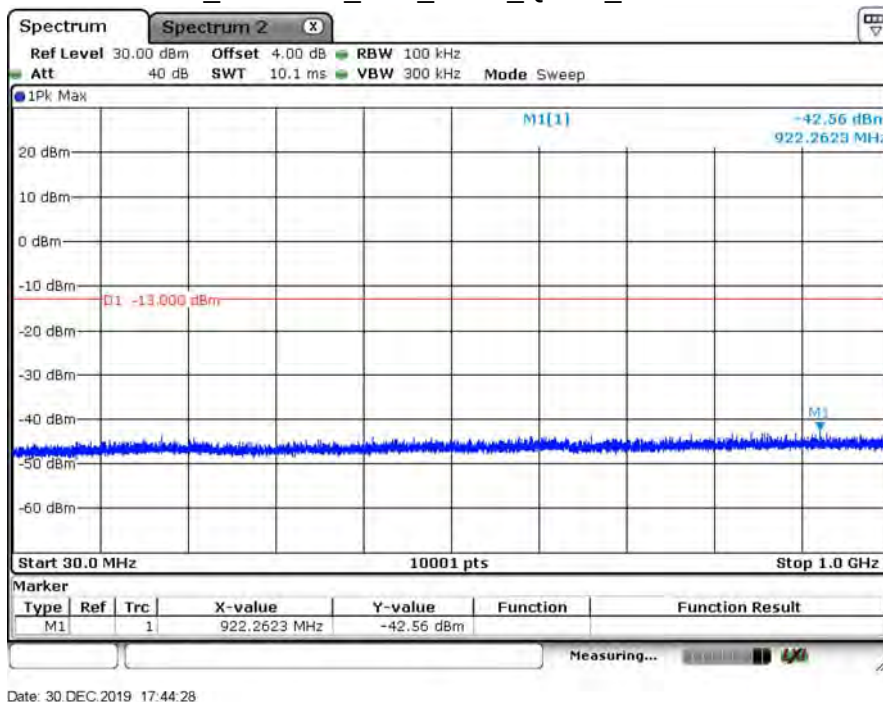




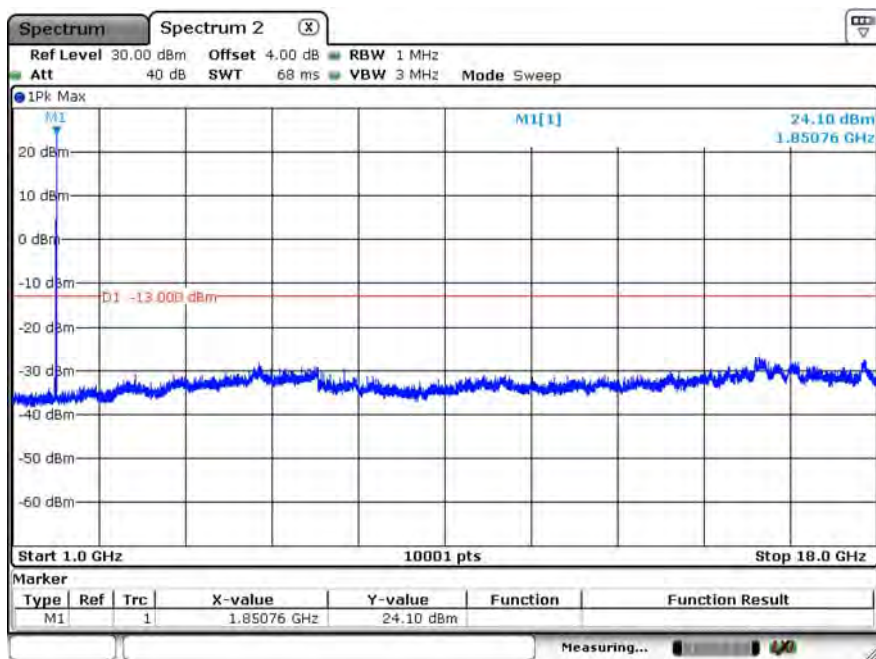
B25_CH26640_10M_1RB0_QPSK_Above 1G



B25_CH26640_10M_1RB0_QPSK_Below 1G

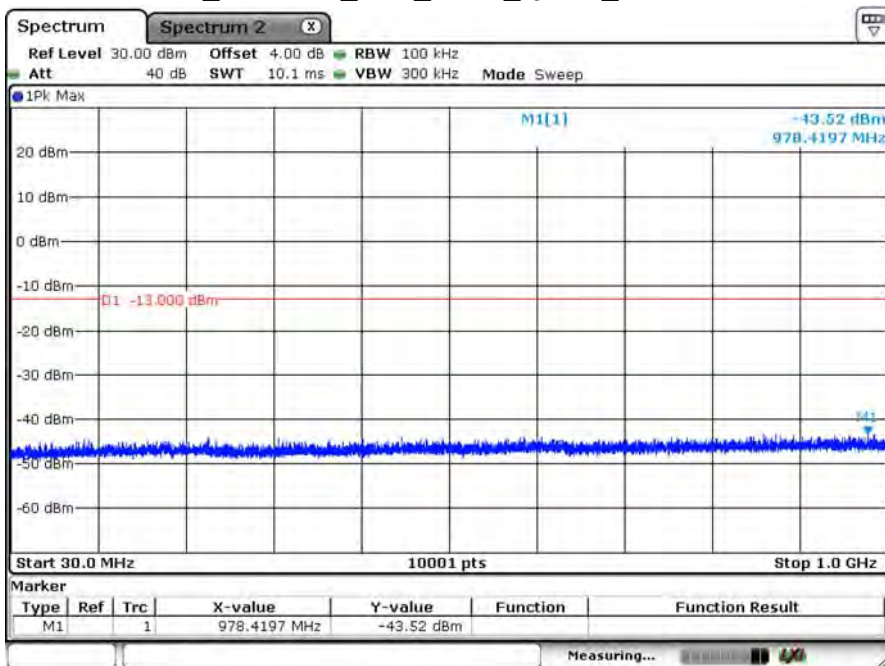


B25_CH26115_15M_1RB0_QPSK_Above 1G



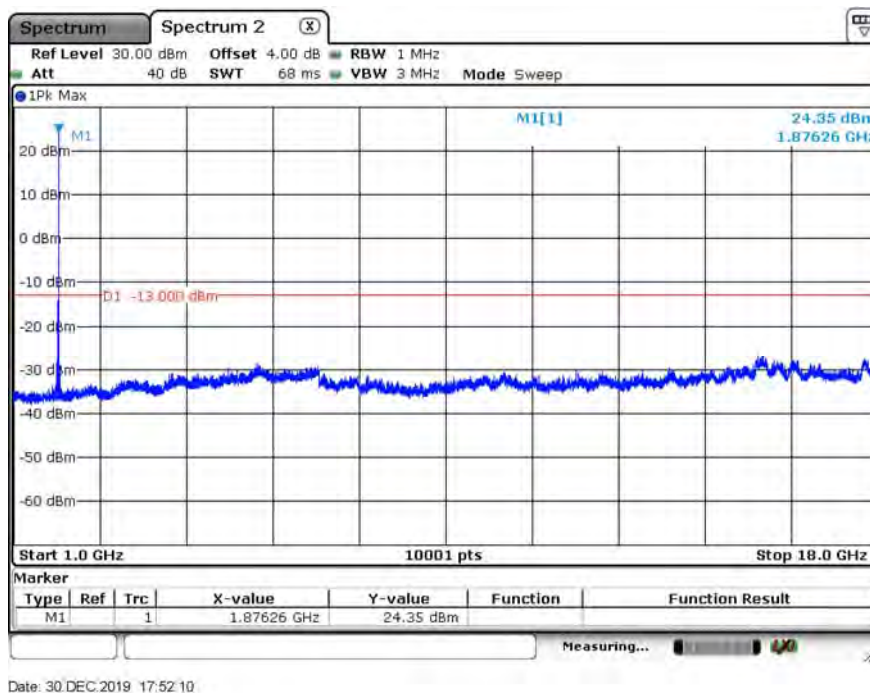
Date: 30 DEC 2019 17:49:17

B25_CH26115_15M_1RB0_QPSK_Below 1G

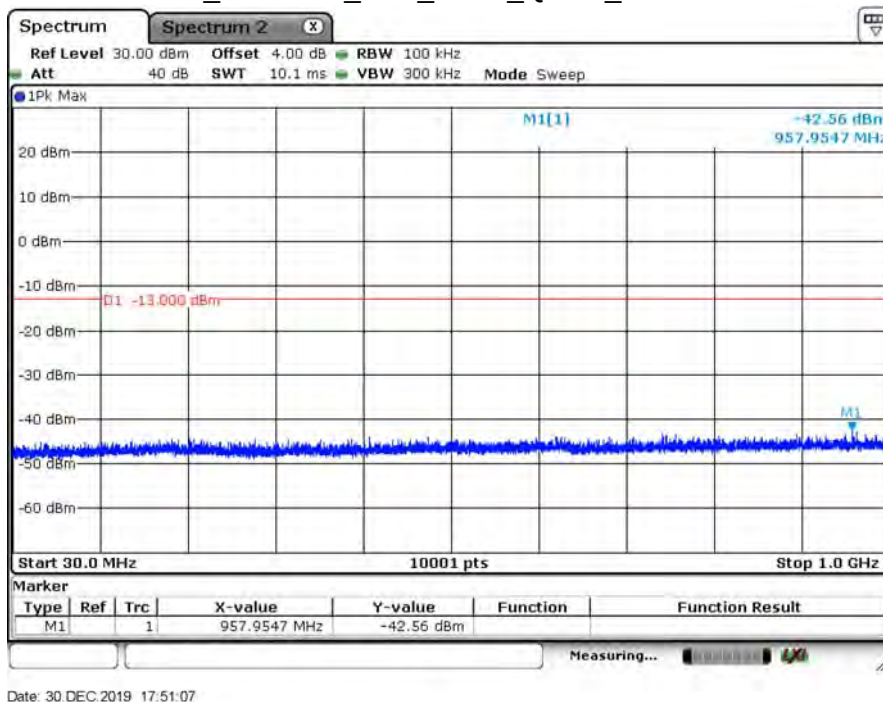


Date: 30 DEC 2019 17:50:06

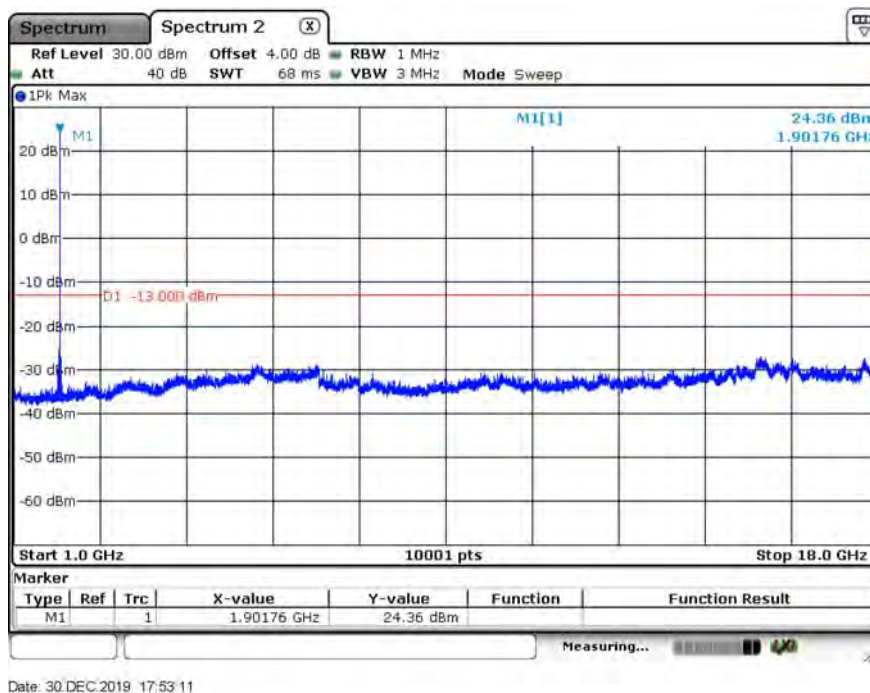
B25_CH26365_15M_1RB0_QPSK_Above 1G



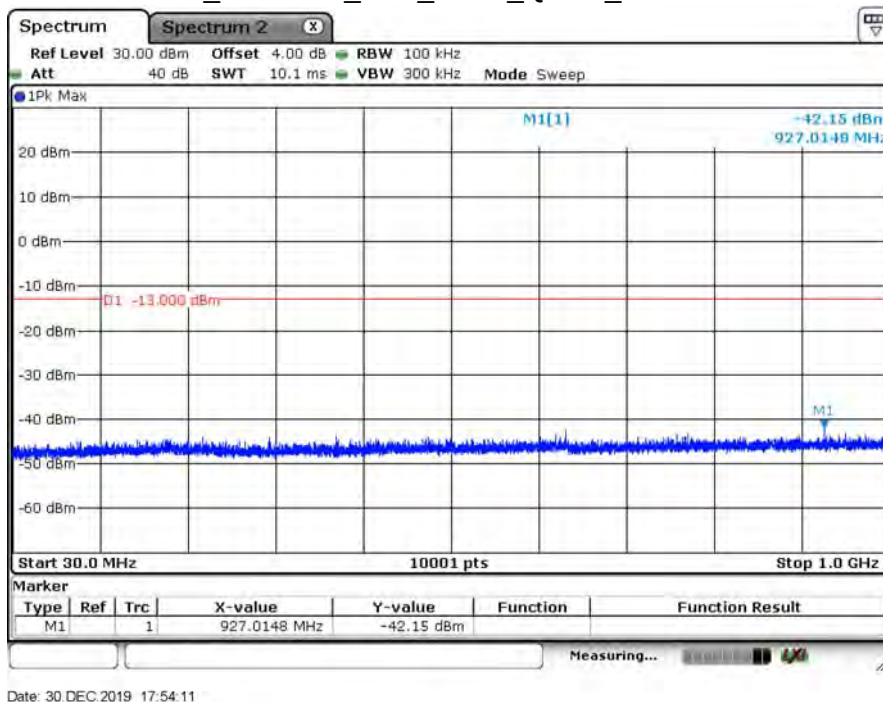
B25_CH26365_15M_1RB0_QPSK_Below 1G



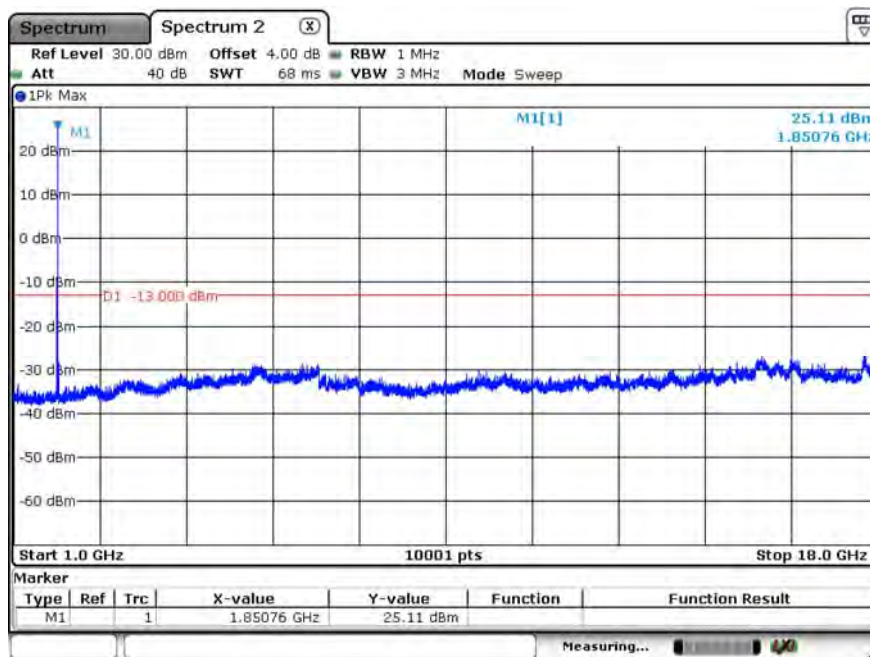
B25_CH26615_15M_1RB0_QPSK_Above 1G



B25_CH26615_15M_1RB0_QPSK_Below 1G

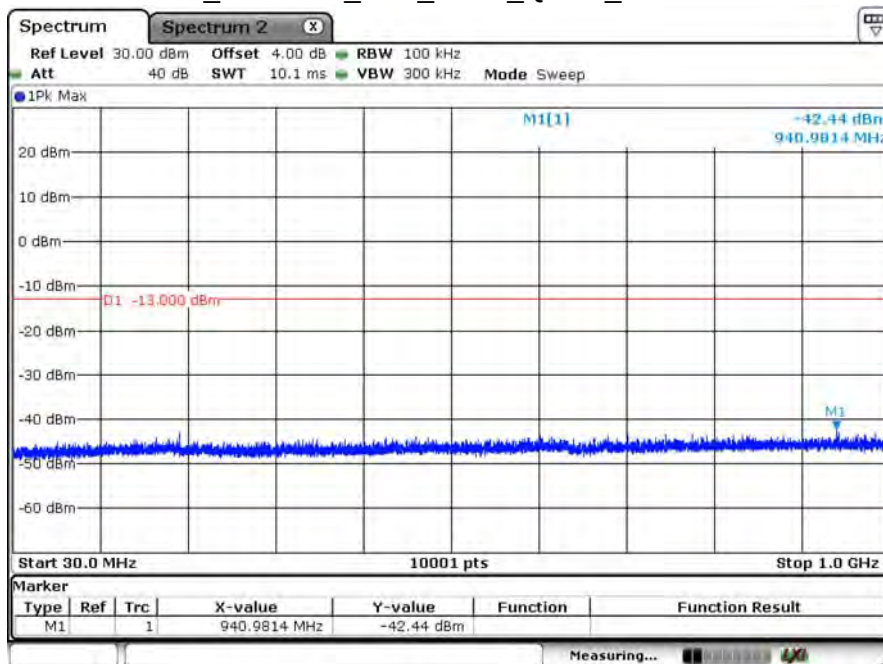


B25_CH26140_20M_1RB0_QPSK_Above 1G



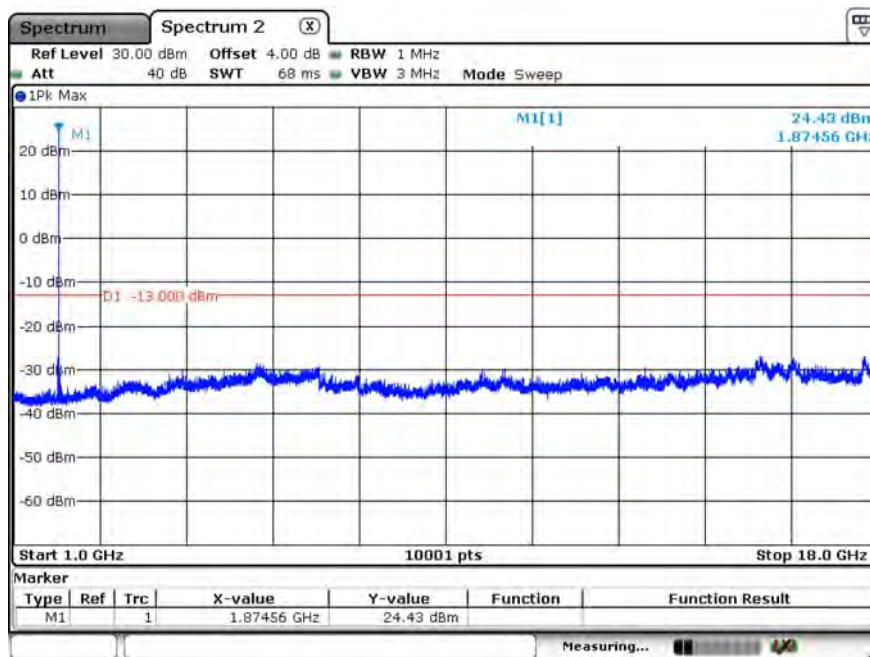
Date: 31.DEC.2019 09:12:15

B25_CH26140_20M_1RB0_QPSK_Below 1G



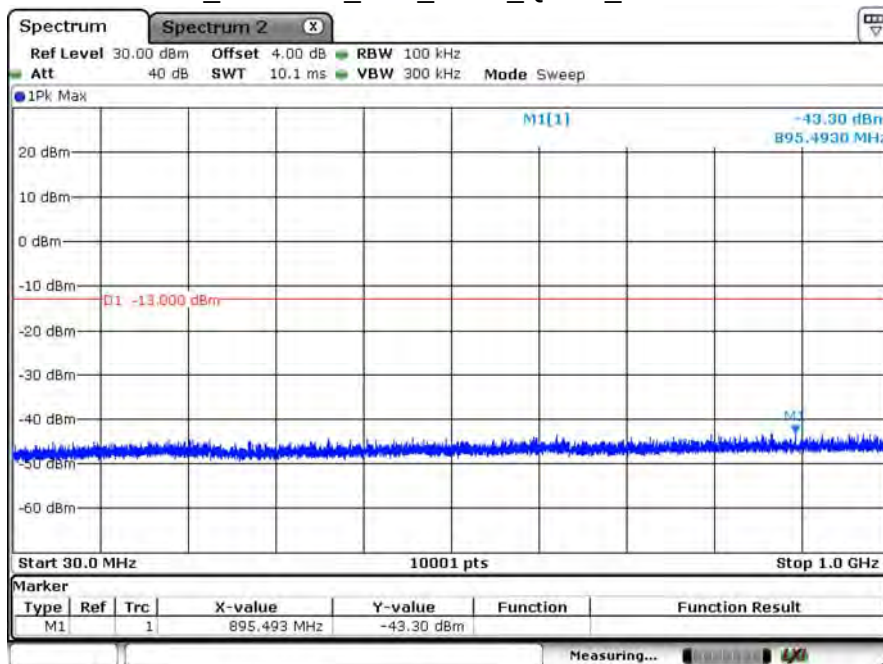
Date: 31.DEC.2019 09:08:02

B25_CH26365_20M_1RB0_QPSK_Above 1G



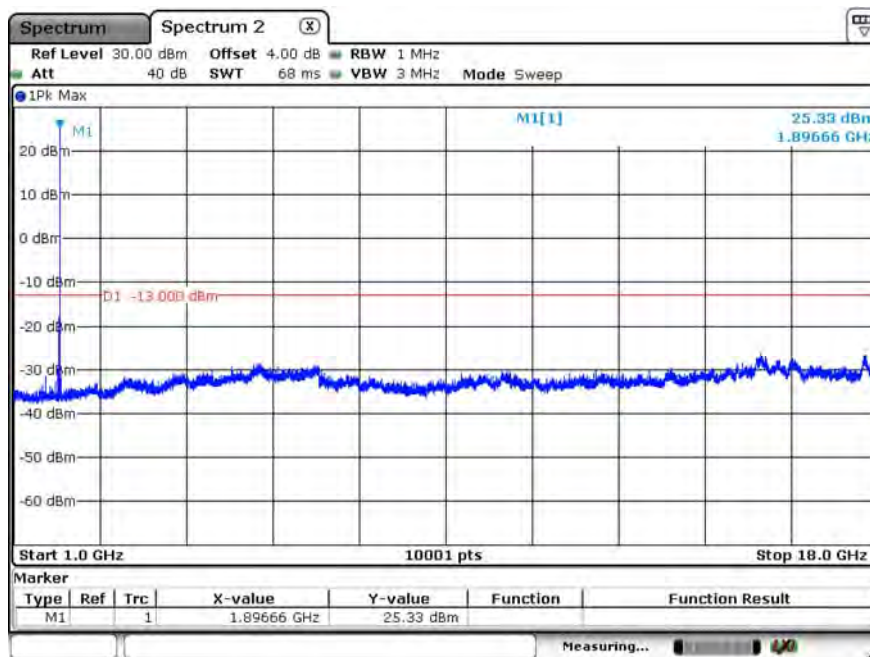
Date: 31.DEC.2019 09:11:21

B25_CH26365_20M_1RB0_QPSK_Below 1G



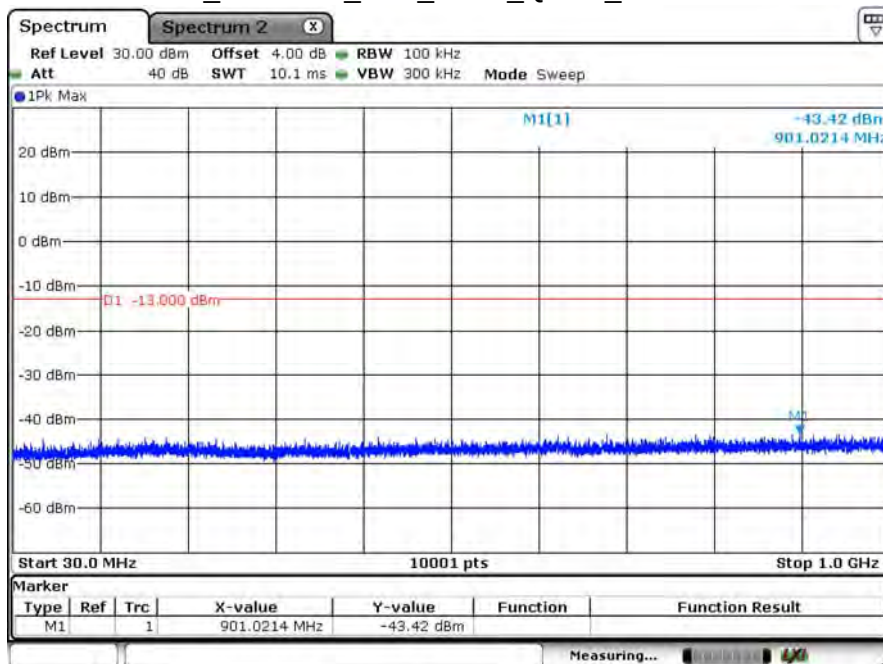
Date: 31.DEC.2019 09:10:58

B25_CH26590_20M_1RB0_QPSK_Above 1G



Date: 31.DEC.2019 09:13:39

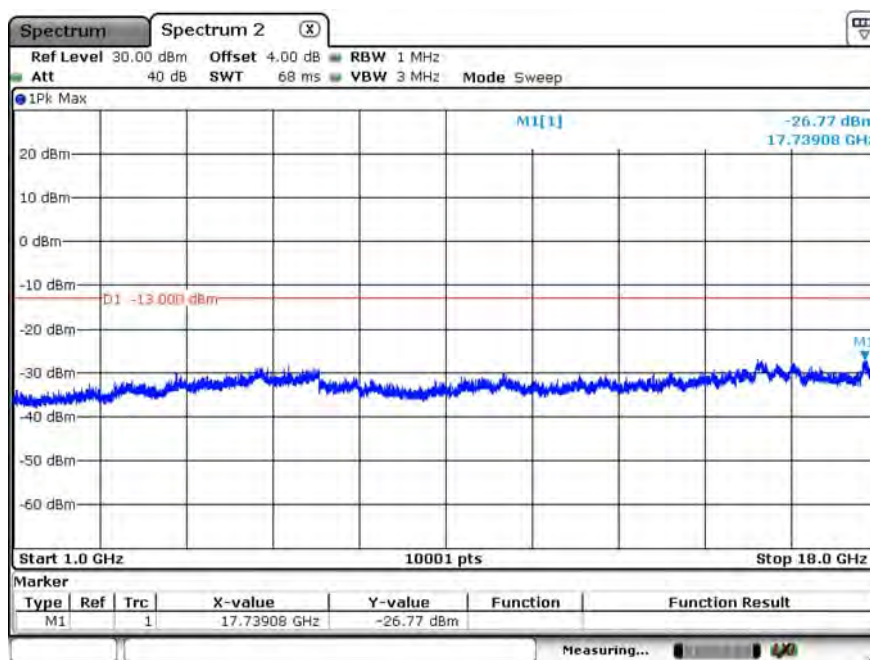
B25_CH26590_20M_1RB0_QPSK_Below 1G



Date: 31.DEC.2019 09:14:14

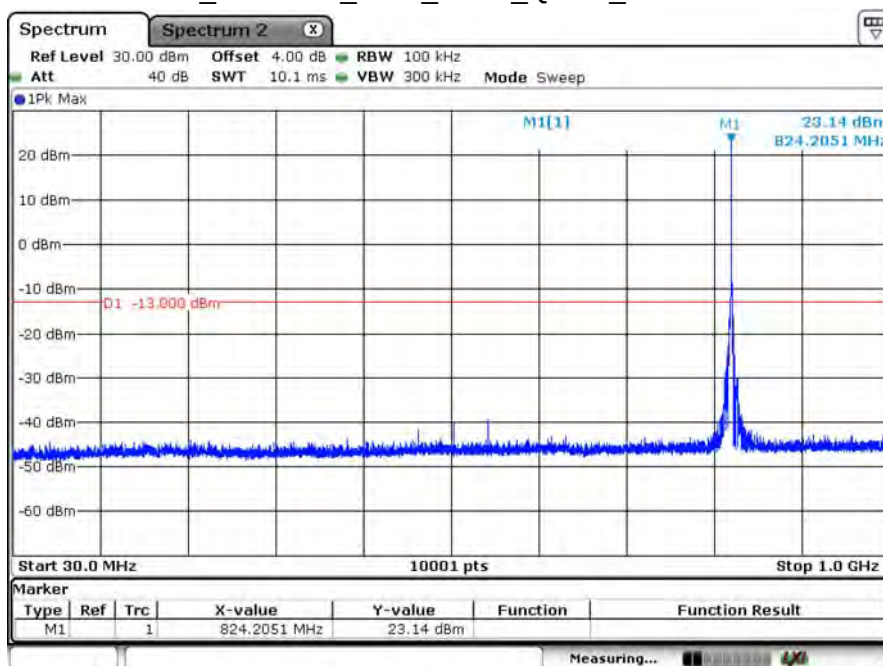
Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions (Part 22)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/31	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

B26_CH26797_1.4M_1RB0_QPSK_Above 1G



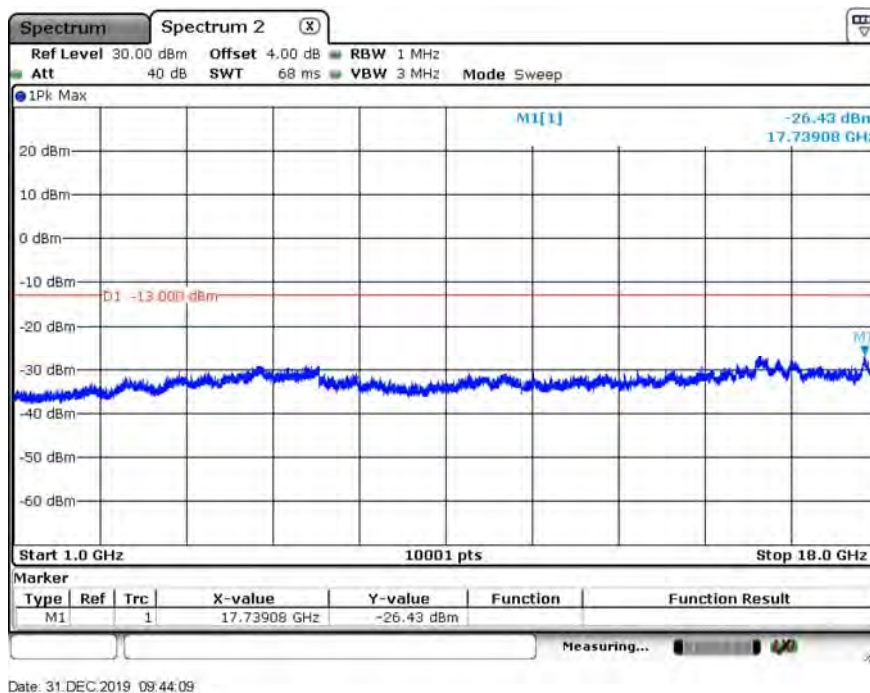
Date: 31.DEC.2019 09:18:33

B26_CH26797_1.4M_1RB0_QPSK_Below 1G

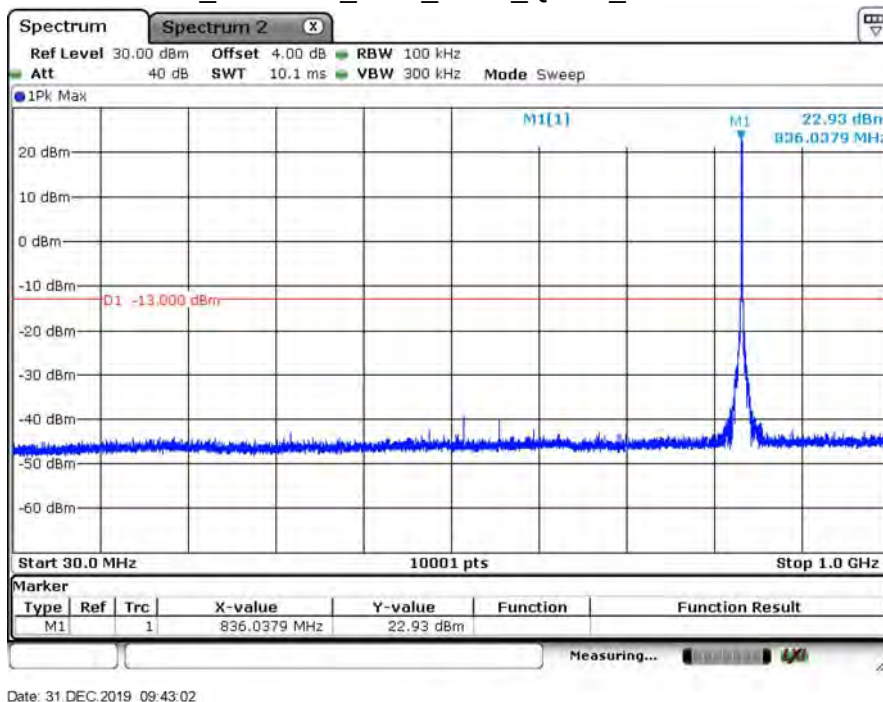


Date: 31.DEC.2019 09:19:59

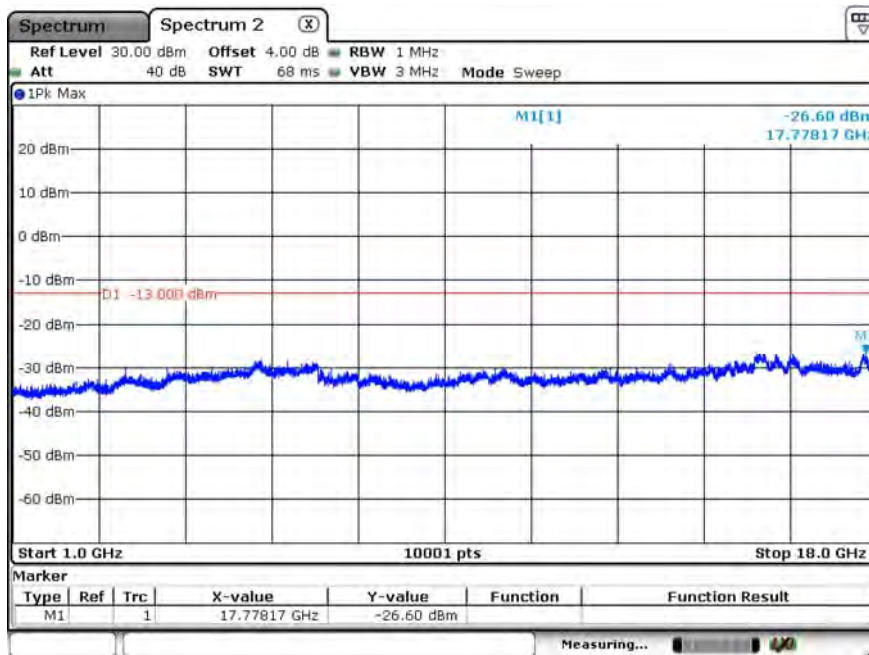
B26_CH26915_1.4M_1RB0_QPSK_Above 1G



B26_CH26915_1.4M_1RB0_QPSK_Below 1G

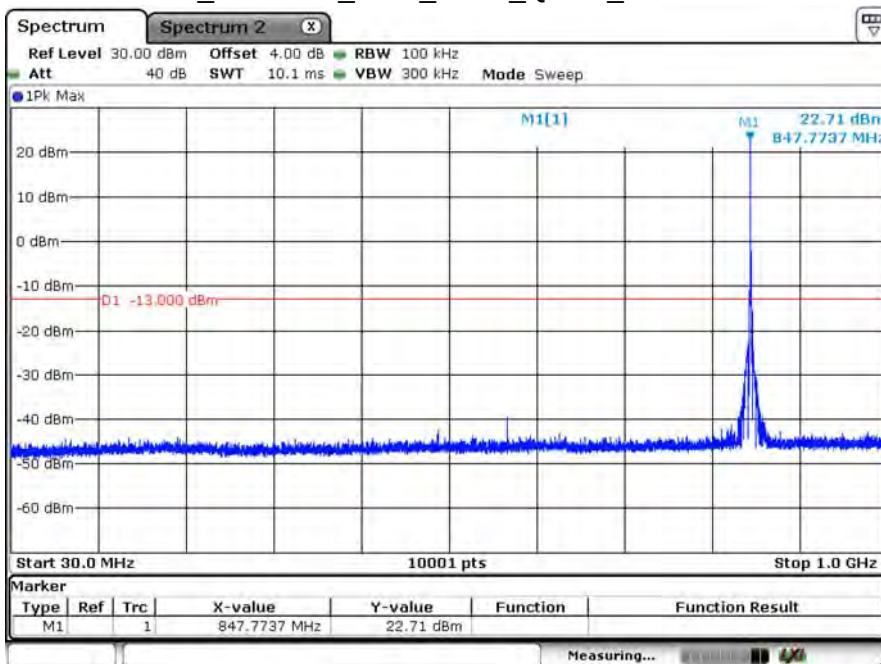


B26_CH27033_1.4M_1RB0_QPSK_Above 1G



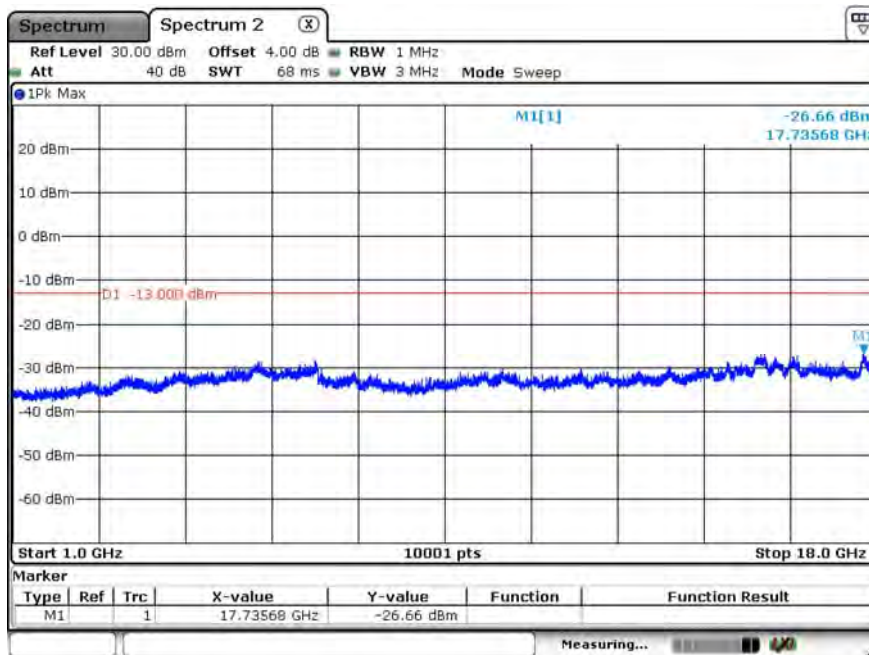
Date: 31.DEC.2019 09:47:53

B26_CH27033_1.4M_1RB0_QPSK_Below 1G



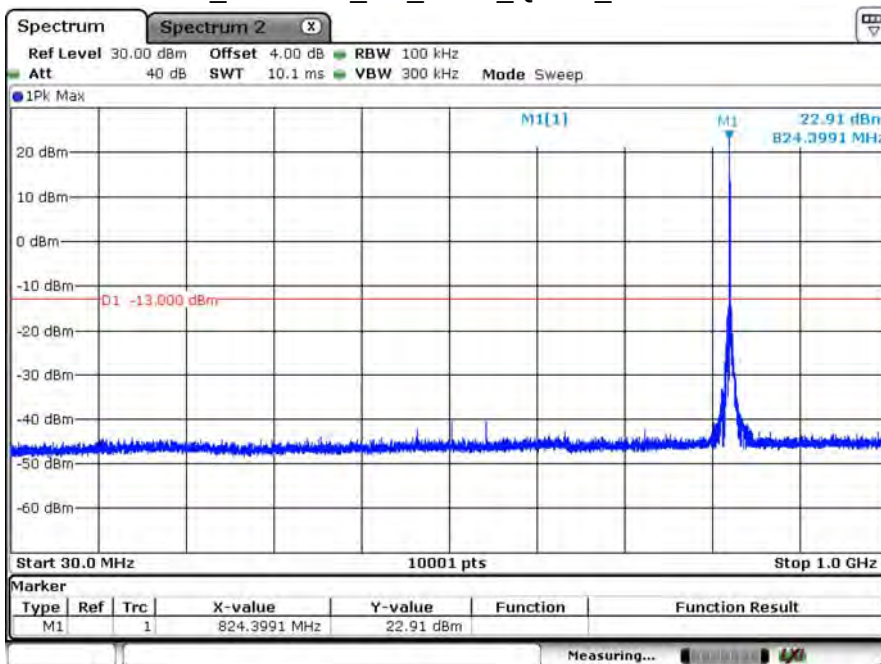
Date: 31.DEC.2019 09:49:10

B26_CH26805_3M_1RB0_QPSK_Above 1G



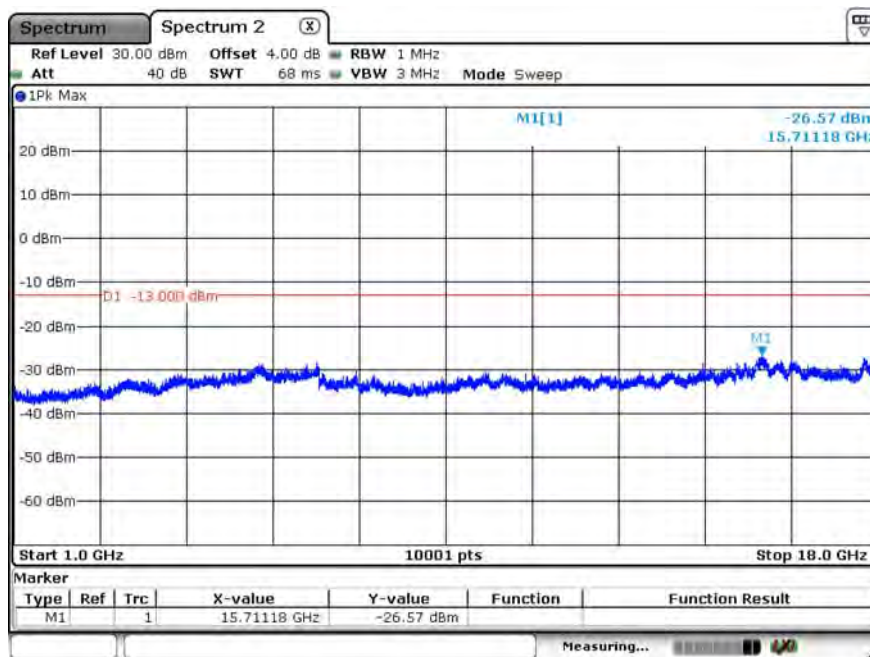
Date: 31.DEC.2019 09:59:34

B26_CH26805_3M_1RB0_QPSK_Below 1G



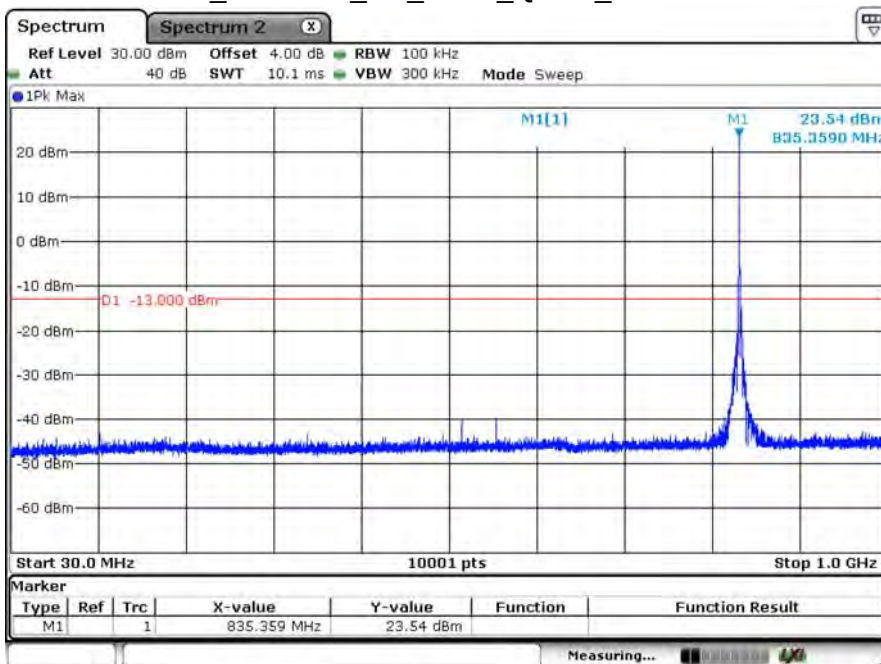
Date: 31.DEC.2019 10:01:23

B26_CH26915_3M_1RB0_QPSK_Above 1G



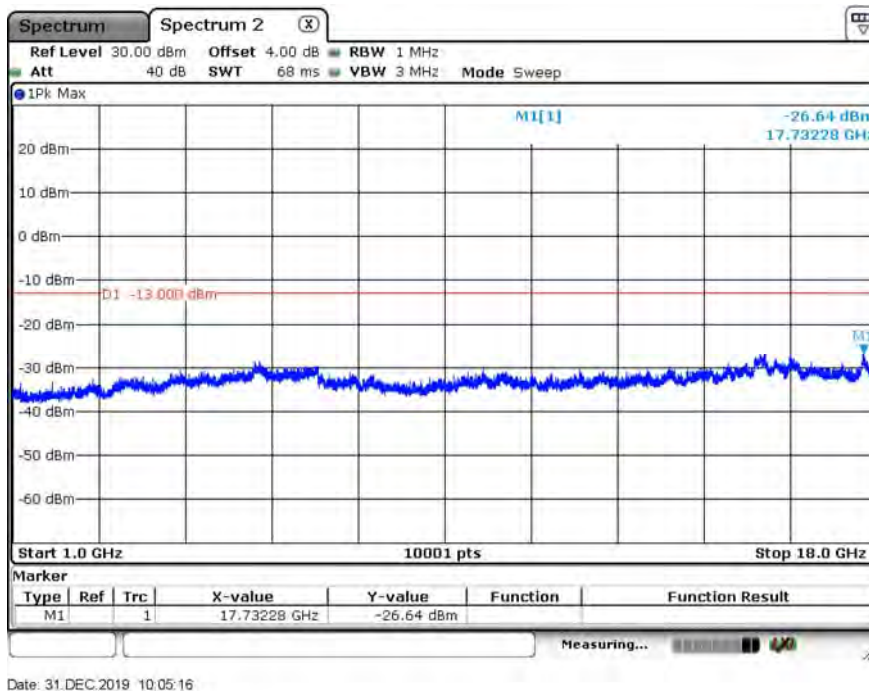
Date: 31.DEC.2019 10:04:23

B26_CH26915_3M_1RB0_QPSK_Below 1G

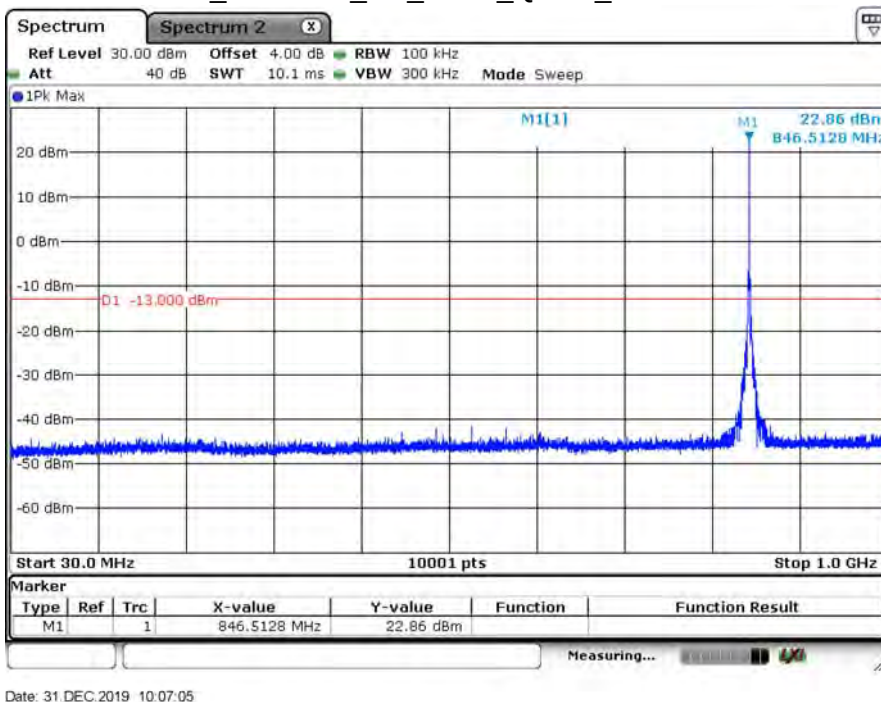


Date: 31.DEC.2019 10:03:25

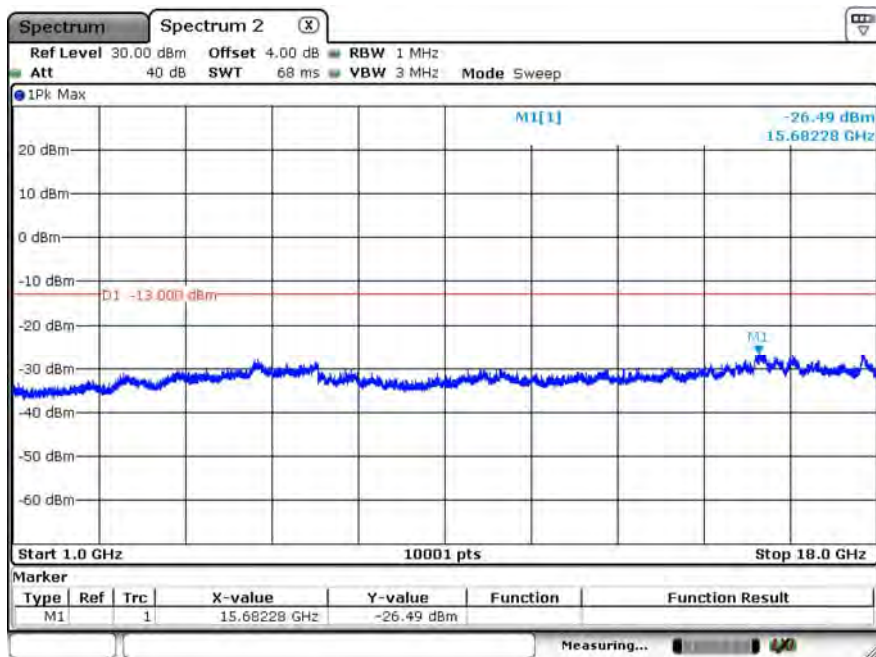
B26_CH27025_3M_1RB0_QPSK_Above 1G



B26_CH27025_3M_1RB0_QPSK_Below 1G

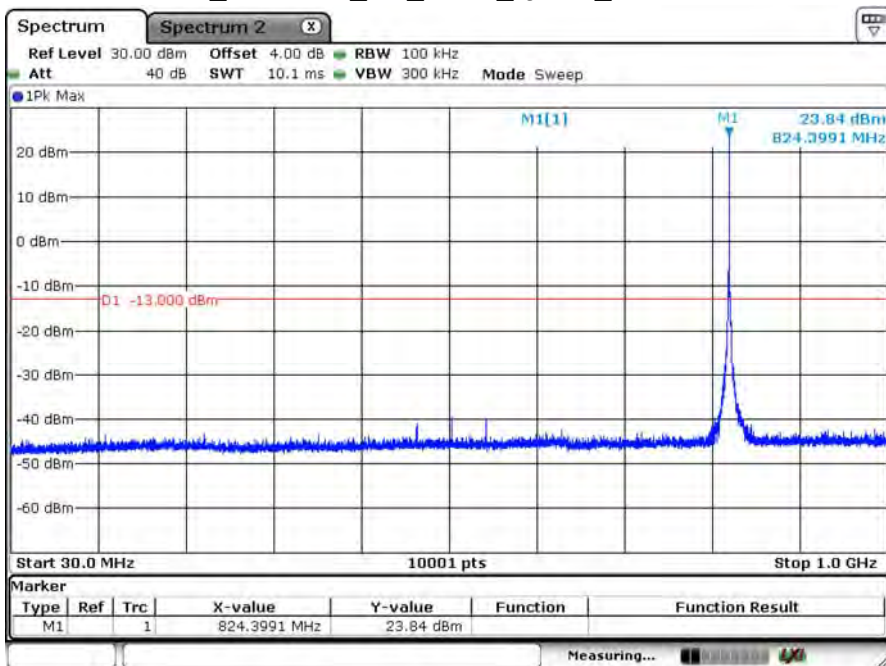


B26_CH26815_5M_1RB0_QPSK_Above 1G



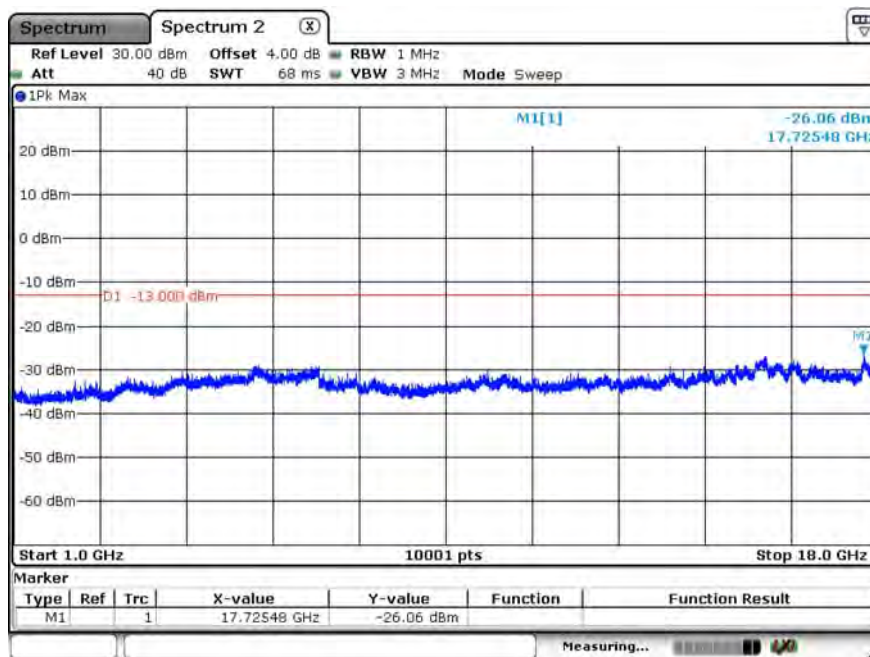
Date: 31.DEC.2019 10:23:25

B26_CH26815_5M_1RB0_QPSK_Below 1G



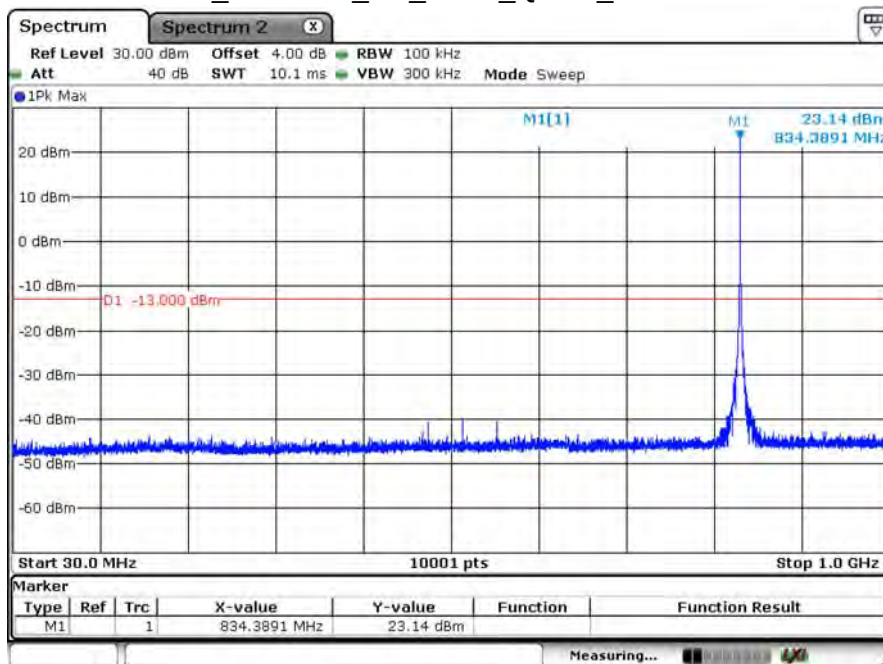
Date: 31.DEC.2019 10:28:01

B26_CH26915_5M_1RB0_QPSK_Above 1G



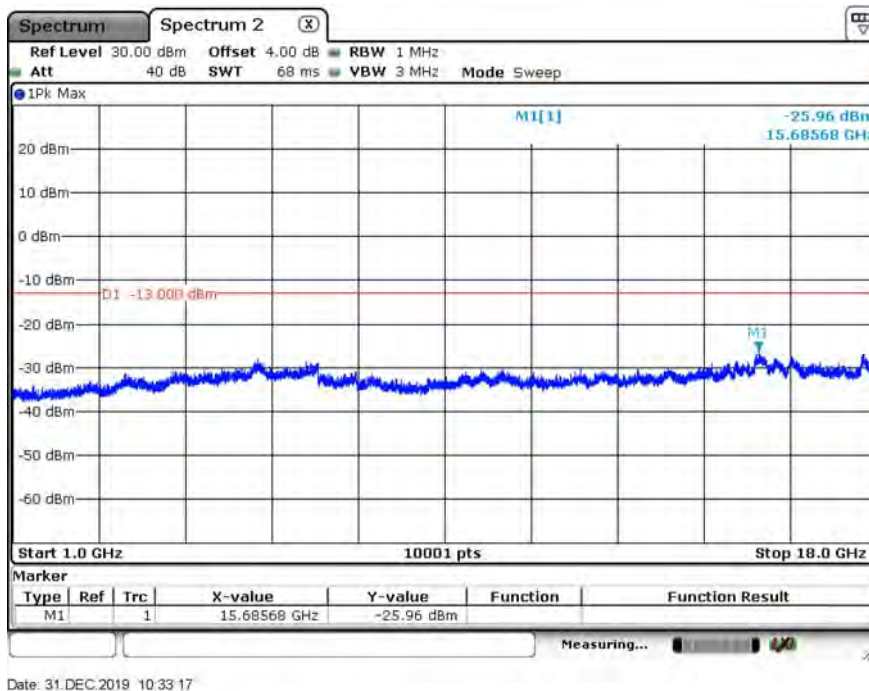
Date: 31.DEC.2019 10:31:49

B26_CH26915_5M_1RB0_QPSK_Below 1G

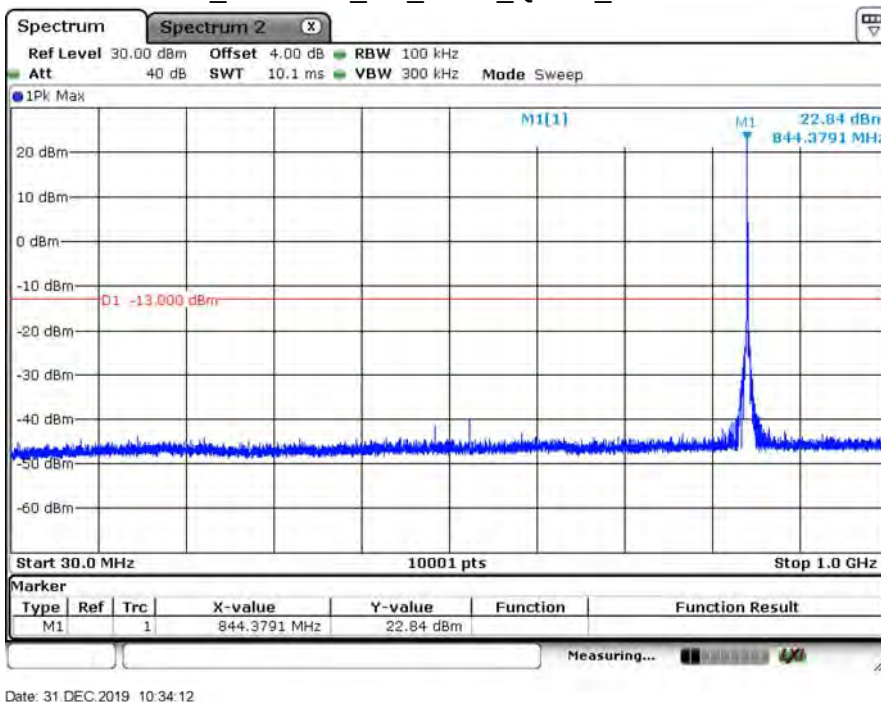


Date: 31.DEC.2019 10:31:07

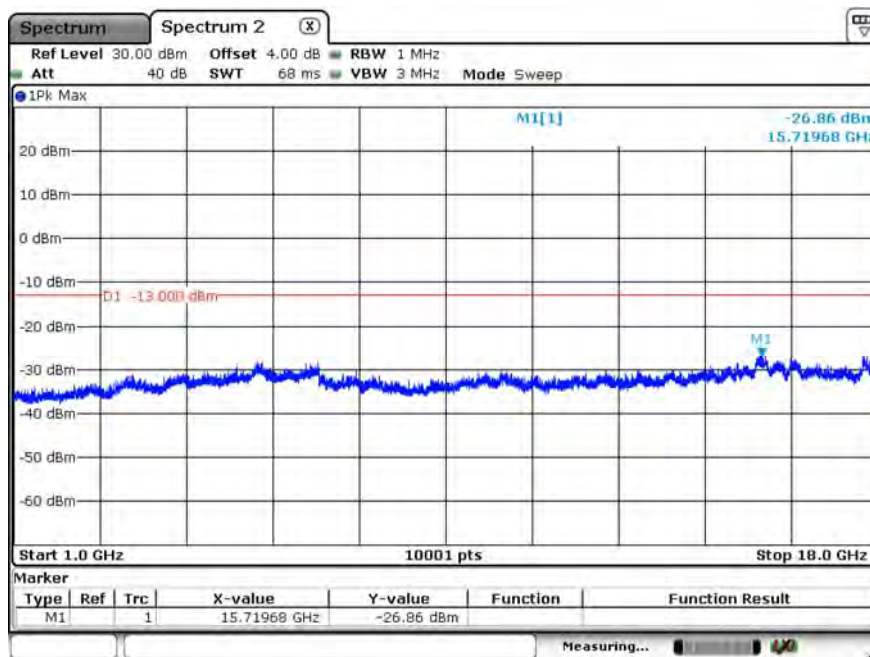
B26_CH27015_5M_1RB0_QPSK_Above 1G



B26_CH27015_5M_1RB0_QPSK_Below 1G

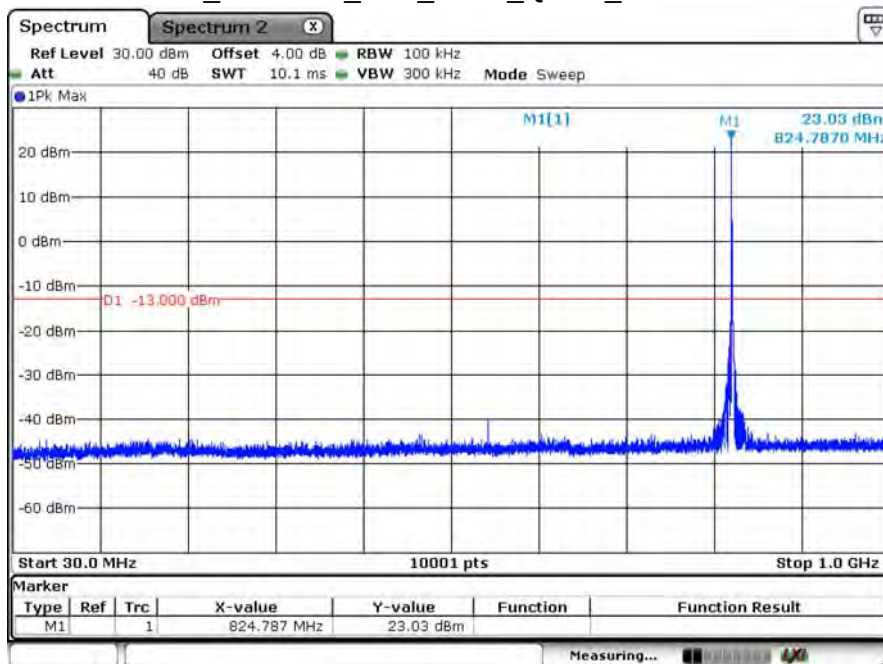


B26_CH26840_10M_1RB0_QPSK_Above 1G



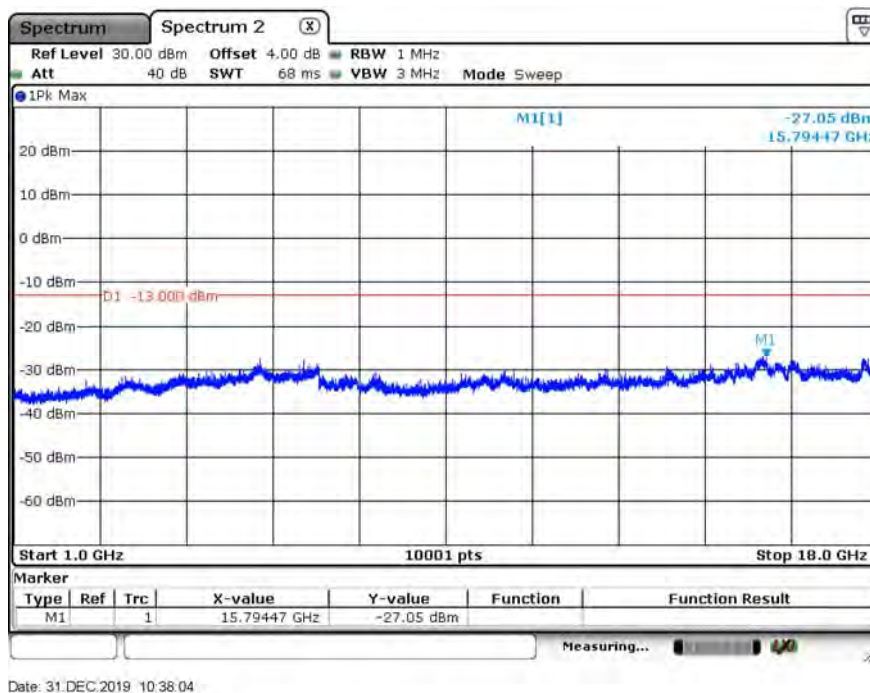
Date: 31.DEC.2019 10:38:41

B26_CH26840_10M_1RB0_QPSK_Below 1G

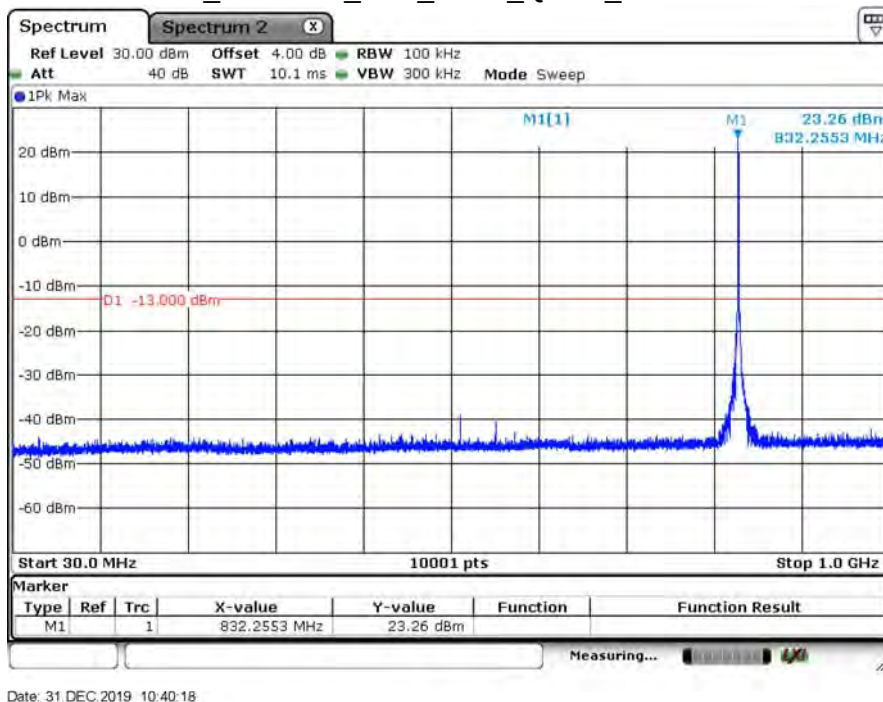


Date: 31.DEC.2019 10:35:22

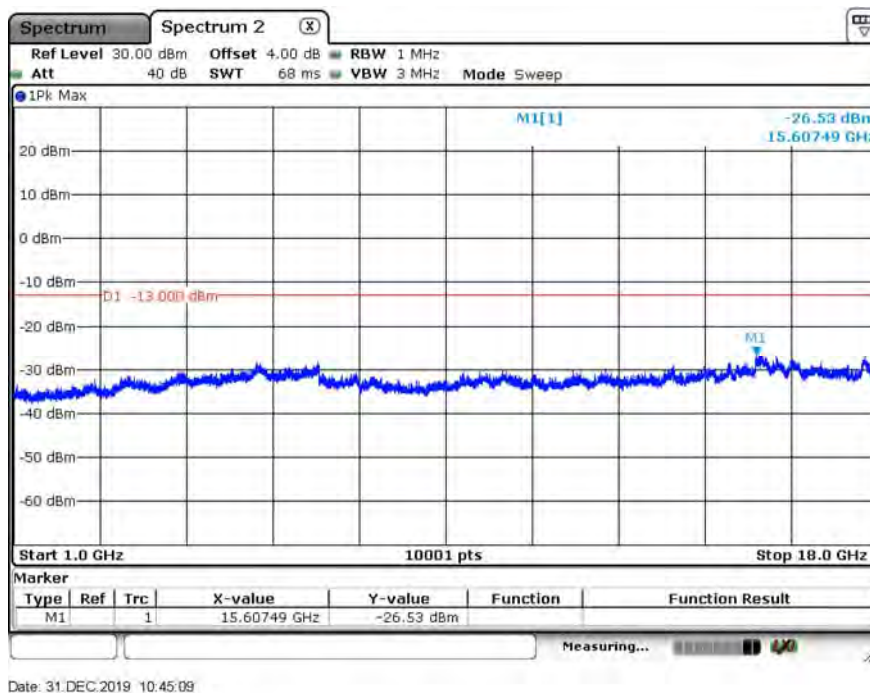
B26_CH26915_10M_1RB0_QPSK_Above 1G



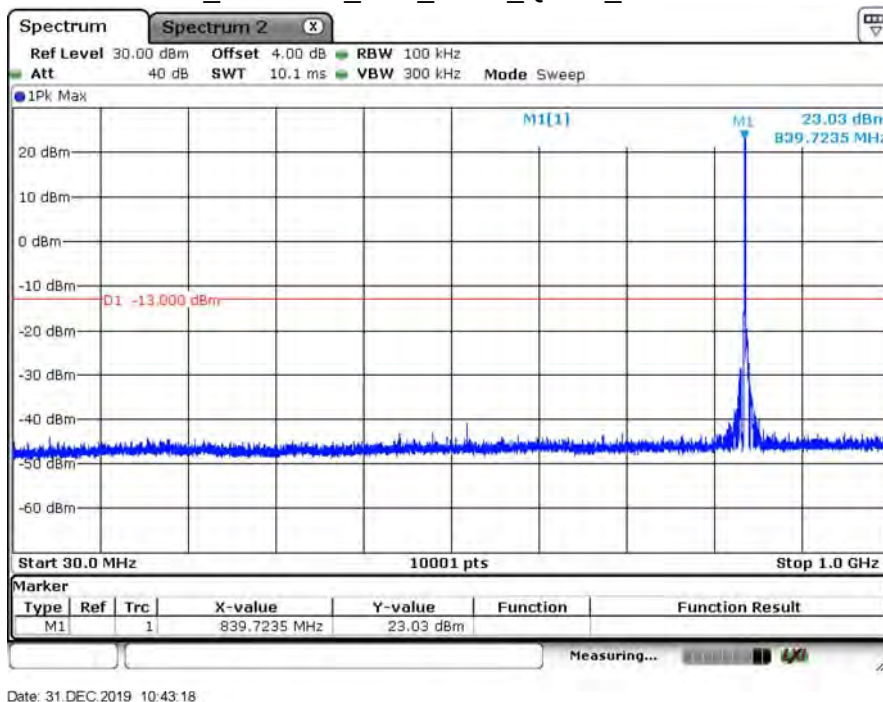
B26_CH26915_10M_1RB0_QPSK_Below 1G



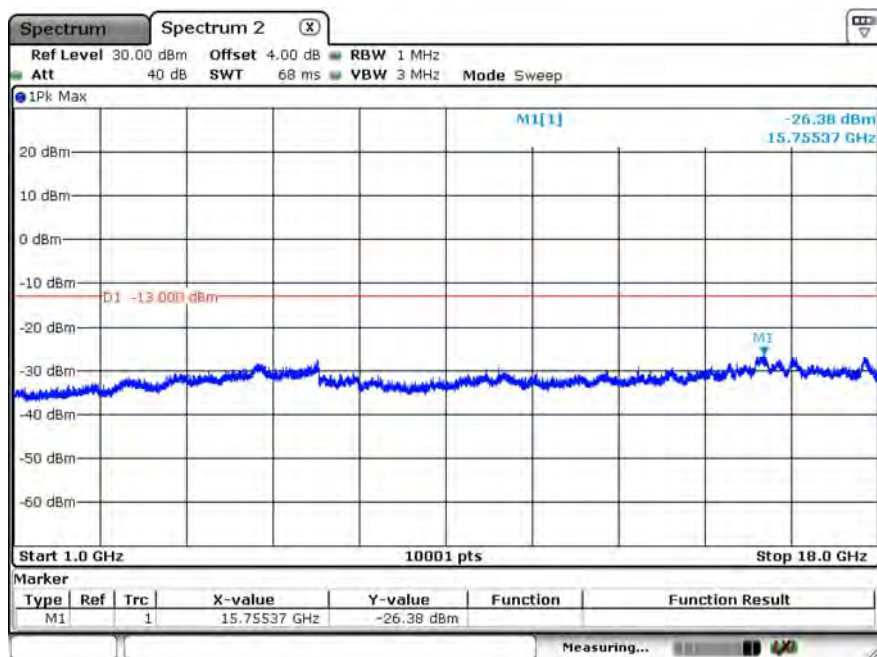
B26_CH26990_10M_1RB0_QPSK_Above 1G



B26_CH26990_10M_1RB0_QPSK_Below 1G

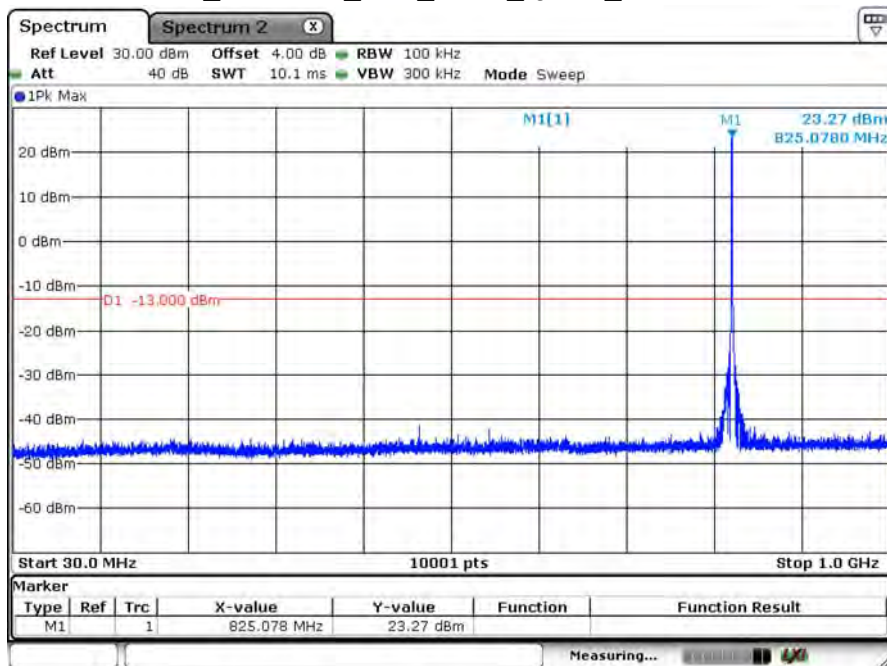


B26_CH26865_15M_1RB0_QPSK_Above 1G



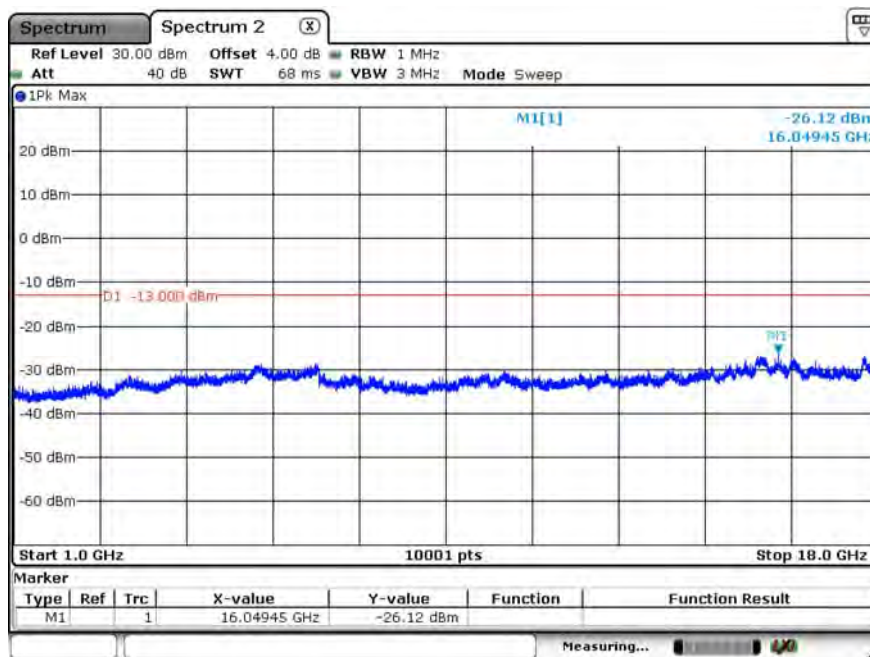
Date: 31.DEC.2019 10:57:12

B26_CH26865_15M_1RB0_QPSK_Below 1G



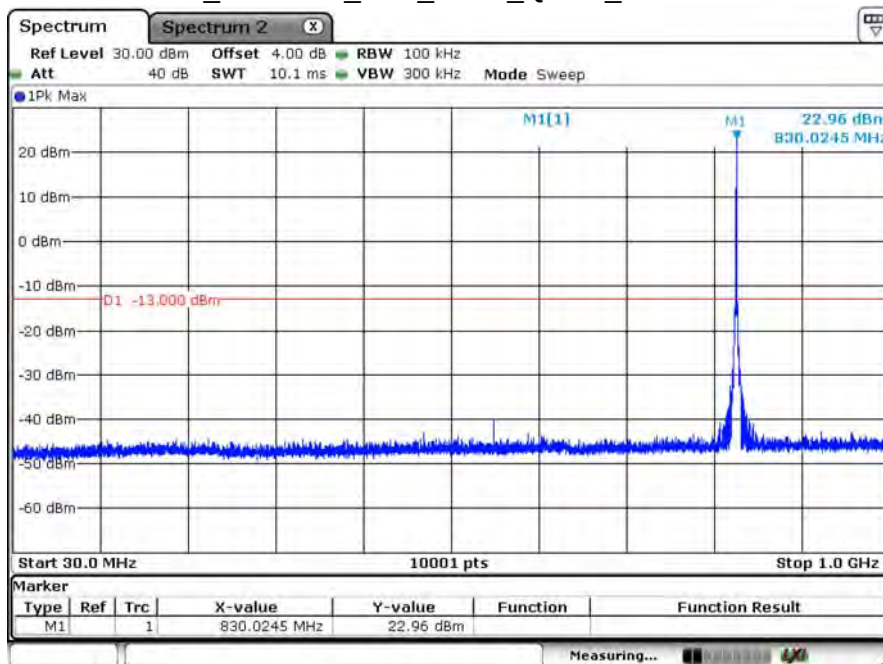
Date: 31.DEC.2019 10:58:24

B26_CH26915_15M_1RB0_QPSK_Above 1G



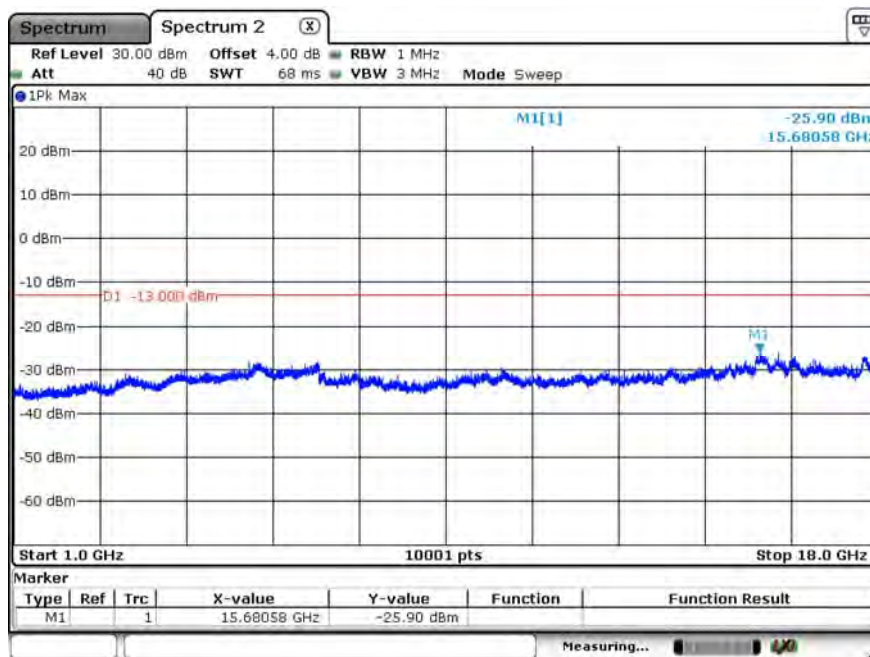
Date: 31.DEC.2019 11:02:26

B26_CH26915_15M_1RB0_QPSK_Below 1G



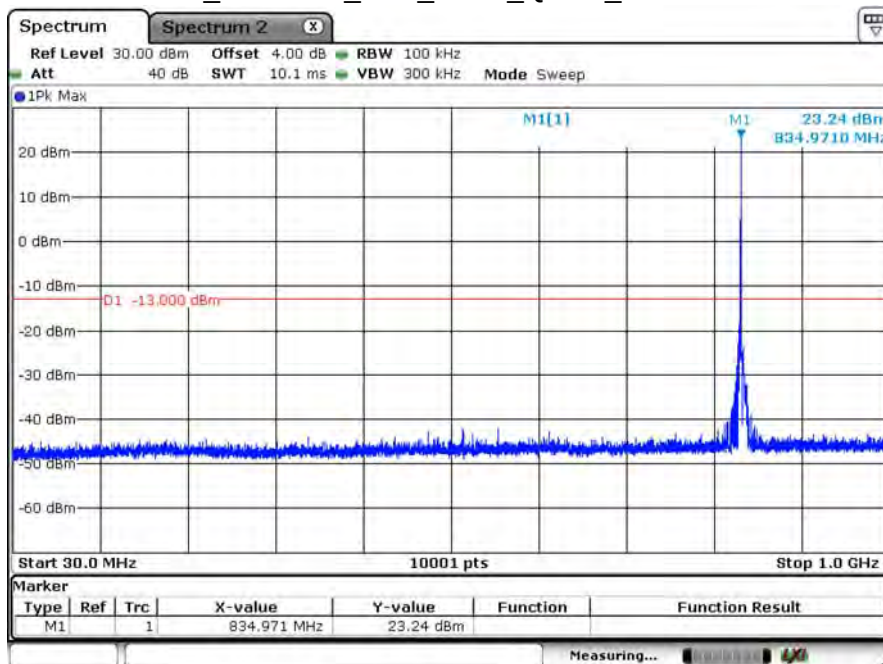
Date: 31.DEC.2019 11:00:40

B26_CH26965_15M_1RB0_QPSK_Above 1G



Date: 31.DEC.2019 11:05:19

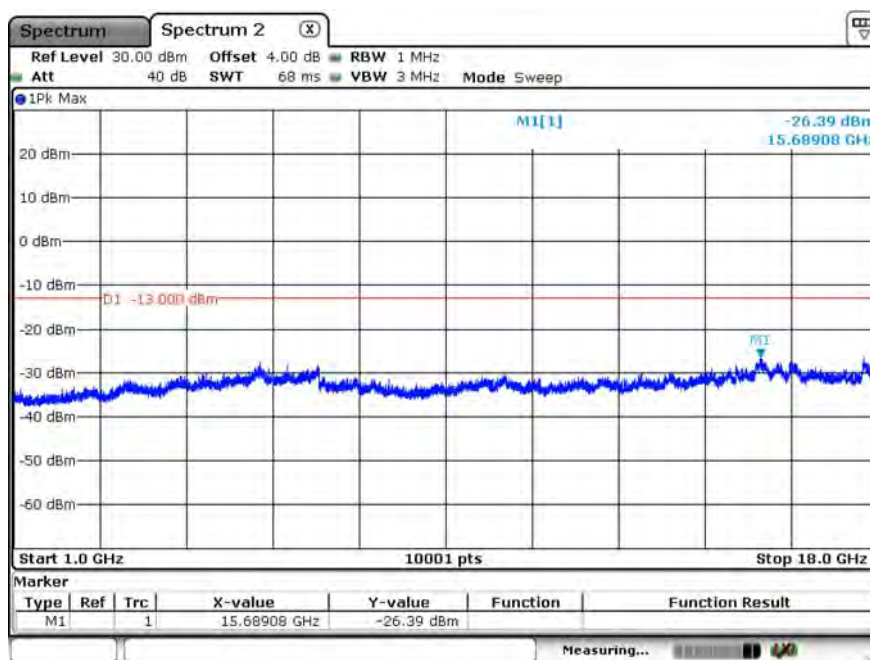
B26_CH26965_15M_1RB0_QPSK_Below 1G



Date: 31.DEC.2019 11:05:59

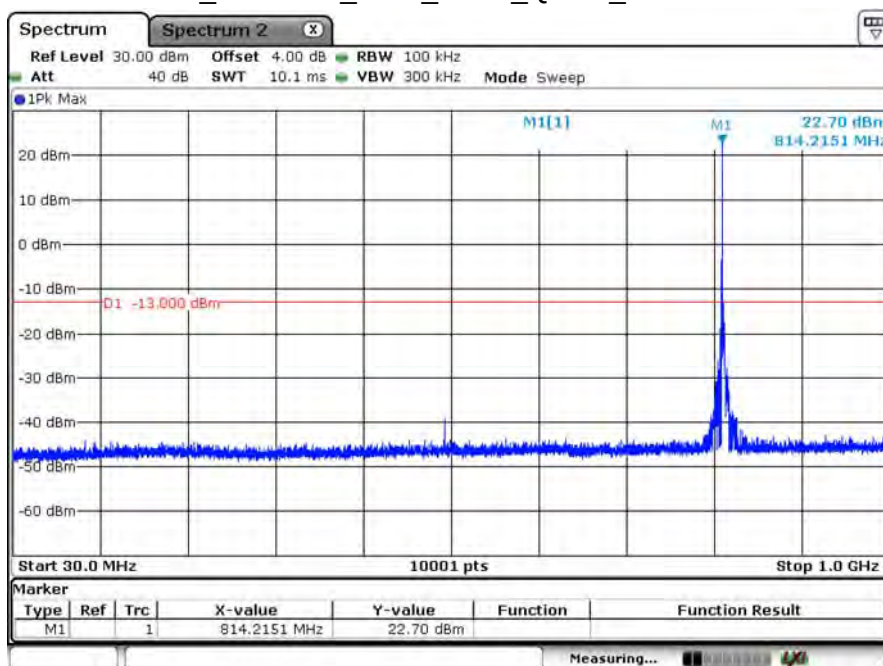
Product	M2M DATA MODULE		
Test Item	Conducted Spurious Emissions (Part 90)		
Test Mode	Mode 6: LTE Band 26		
Date of Test	2019/12/31	Test Site	SR12-H
Temperature (°C)	21.0°C	Humidity (%RH)	60%RH

B26_CH26697_1.4M_1RB0_QPSK_Above 1G



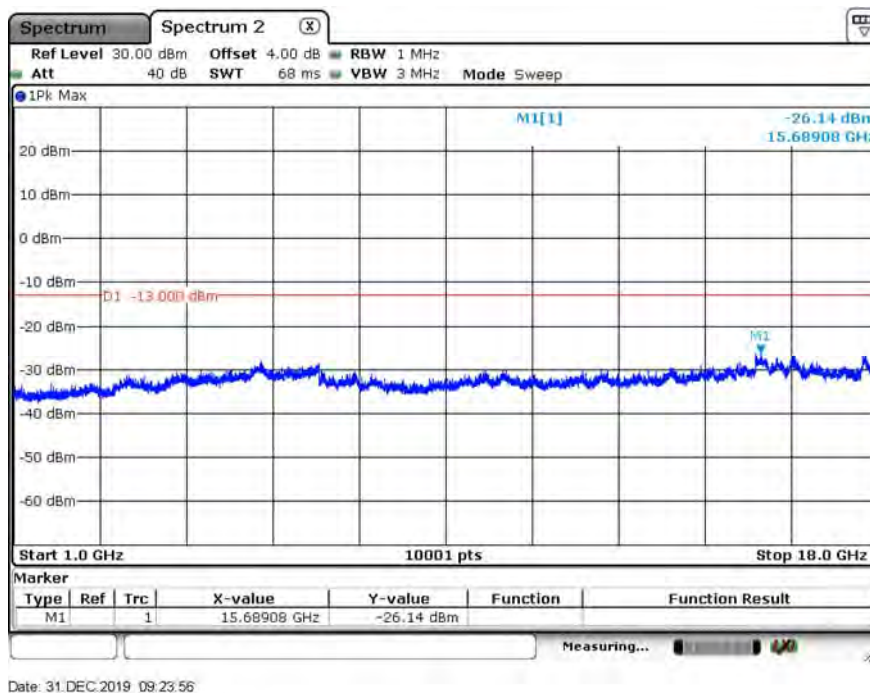
Date: 31.DEC.2019 09:17:19

B26_CH26697_1.4M_1RB0_QPSK_Below 1G

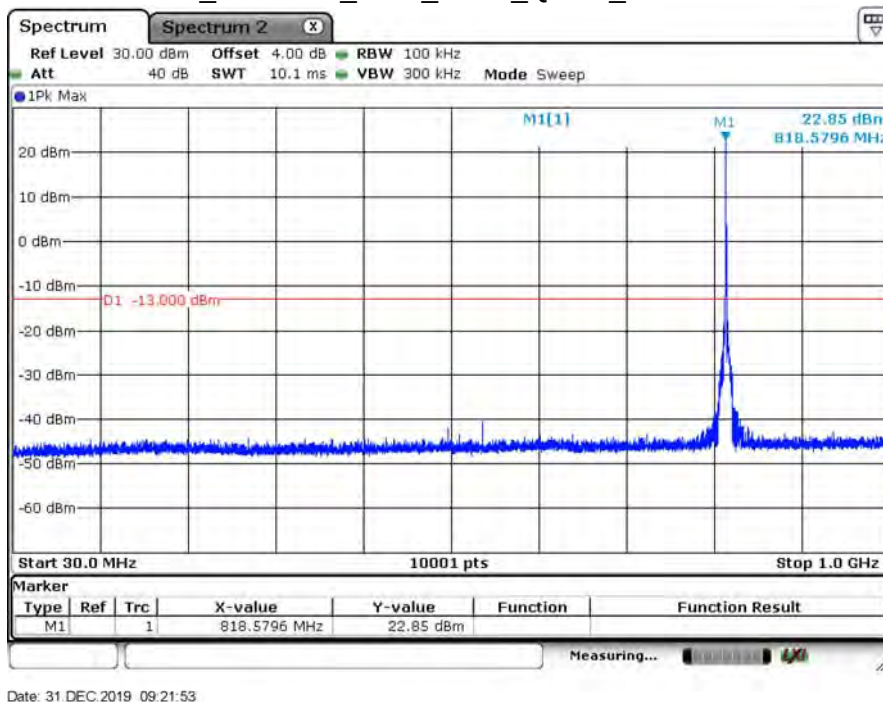


Date: 31.DEC.2019 09:16:11

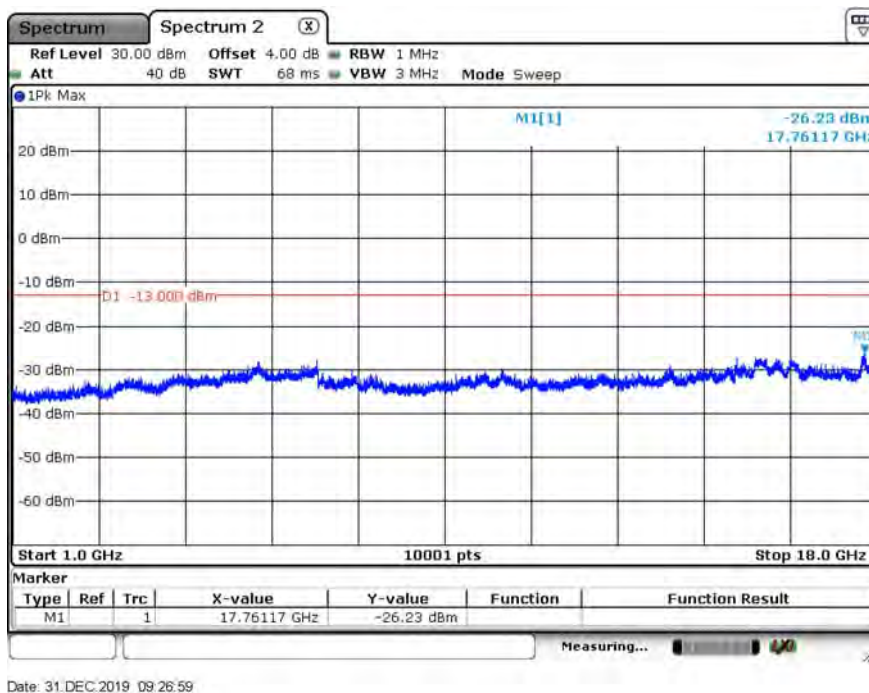
B26_CH26740_1.4M_1RB0_QPSK_Above 1G



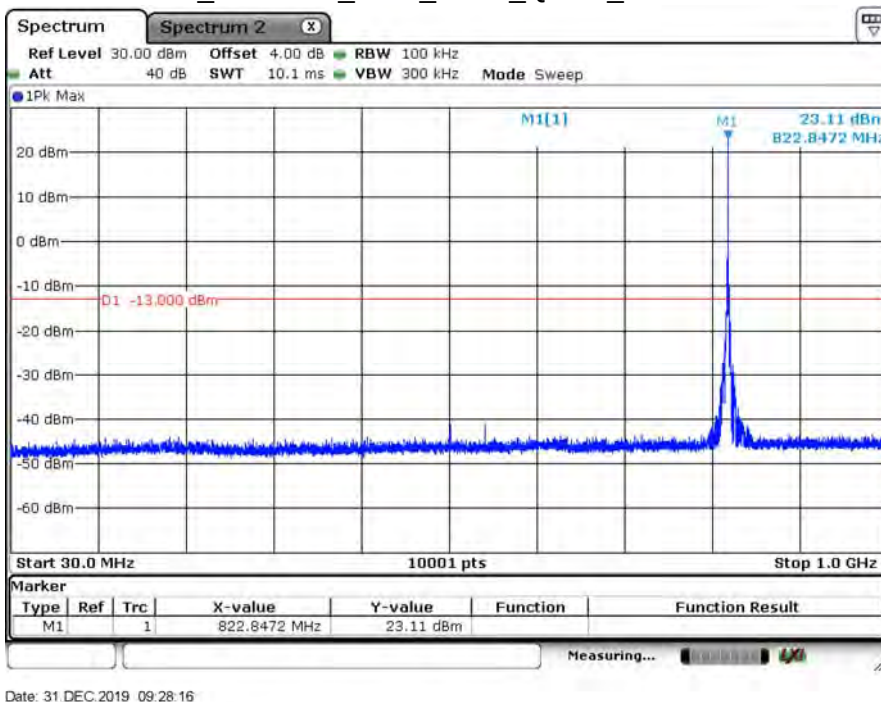
B26_CH26740_1.4M_1RB0_QPSK_Below 1G



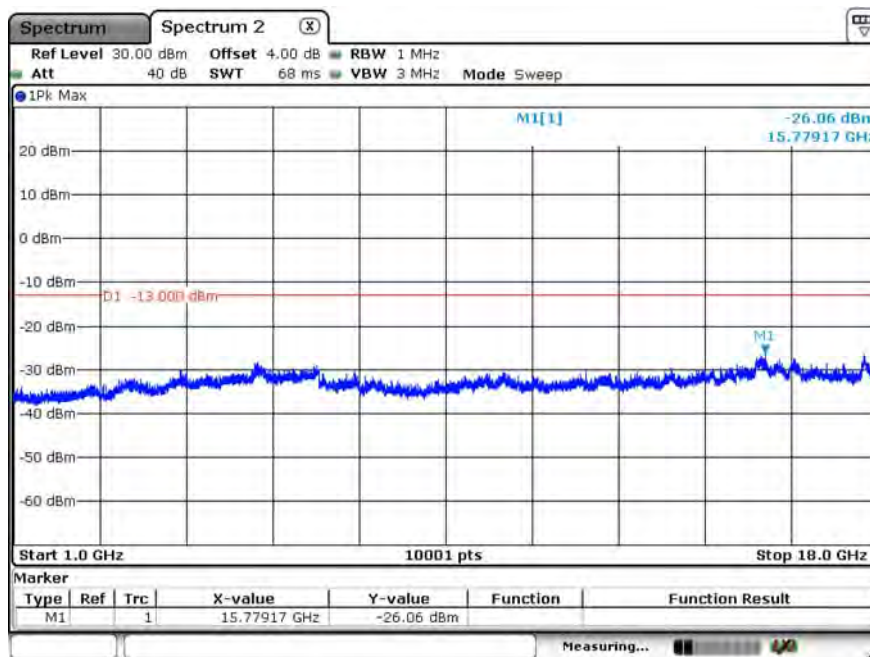
B26_CH26783_1.4M_1RB0_QPSK_Above 1G



B26_CH26783_1.4M_1RB0_QPSK_Below 1G

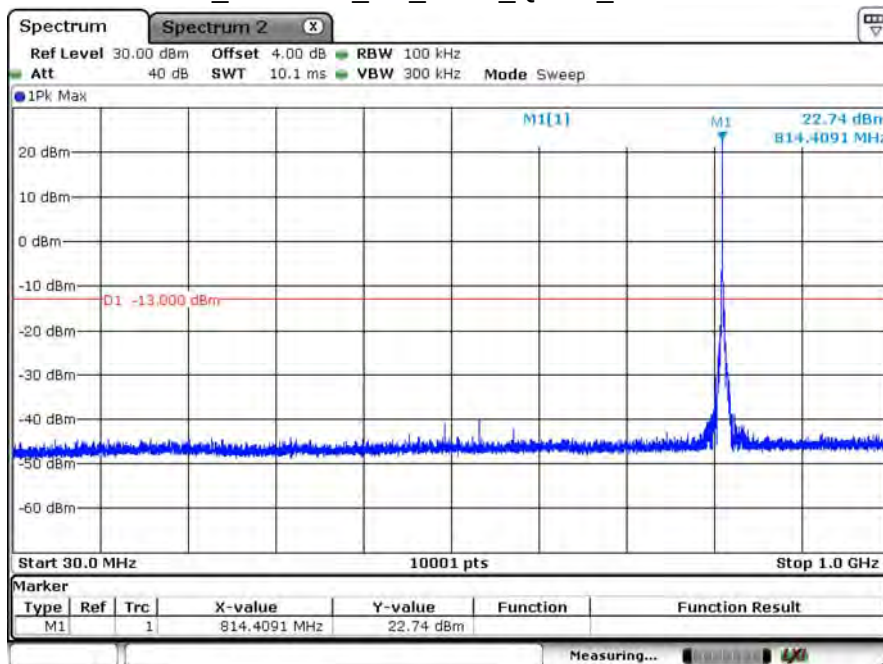


B26_CH26705_3M_1RB0_QPSK_Above 1G



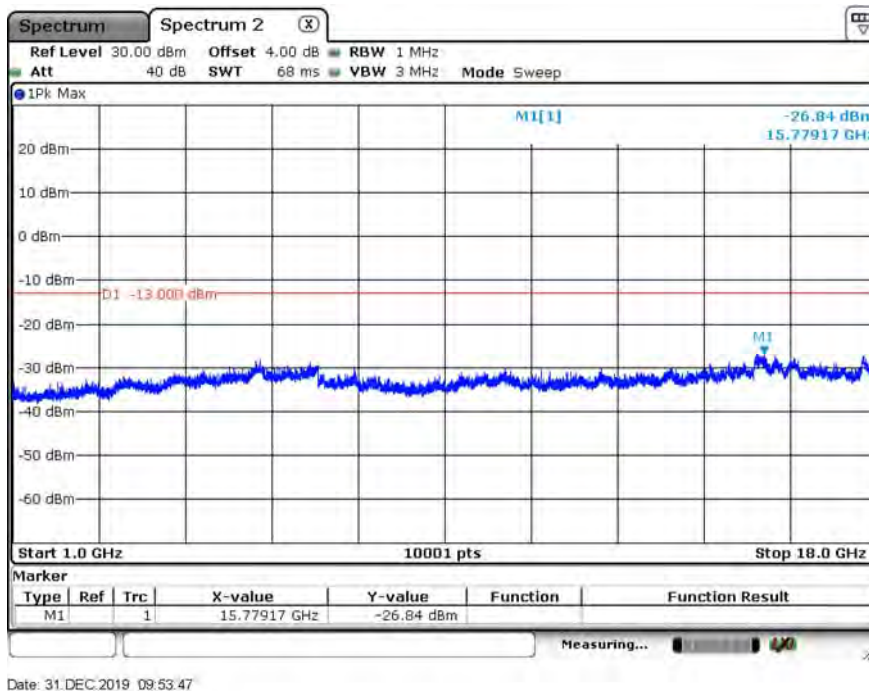
Date: 31.DEC.2019 09:52:51

B26_CH26705_3M_1RB0_QPSK_Below 1G

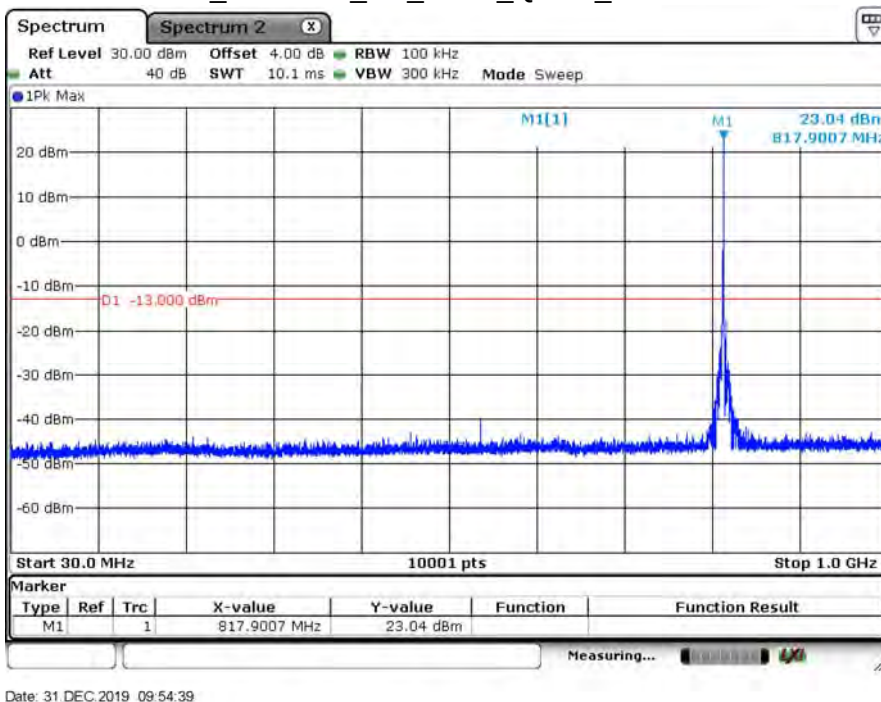


Date: 31.DEC.2019 09:52:02

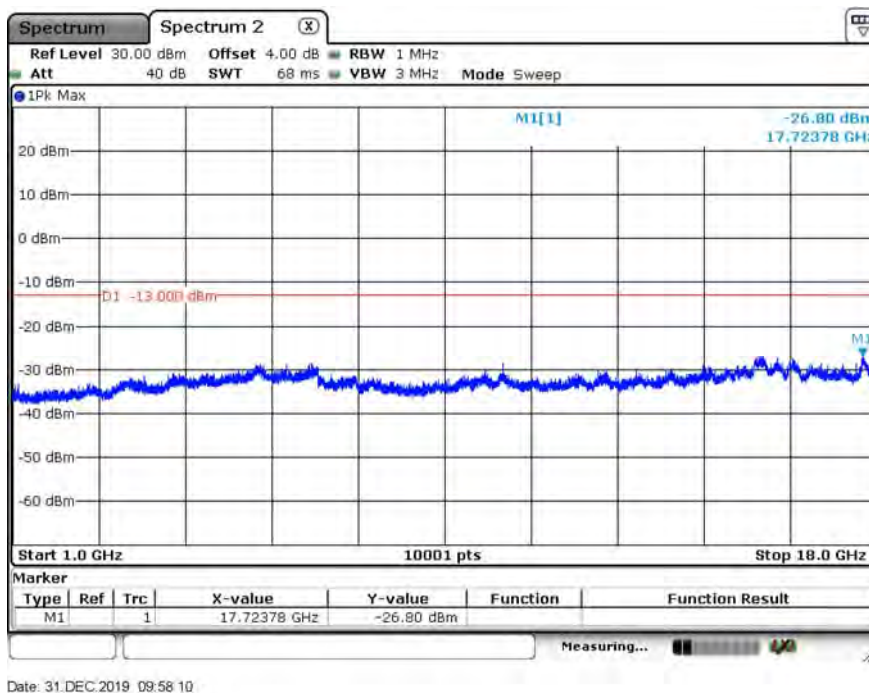
B26_CH26740_3M_1RB0_QPSK_Above 1G



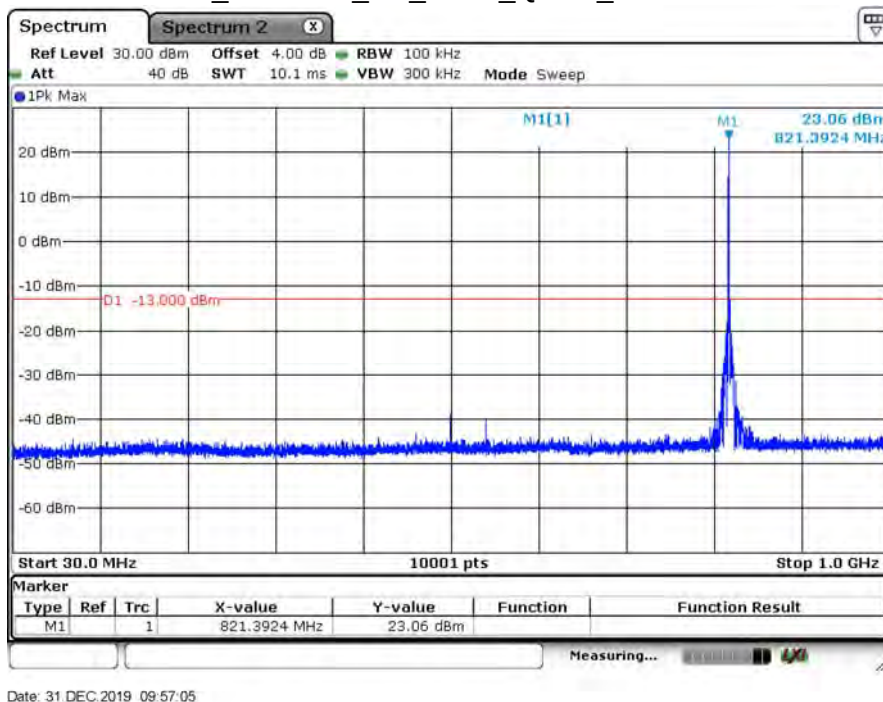
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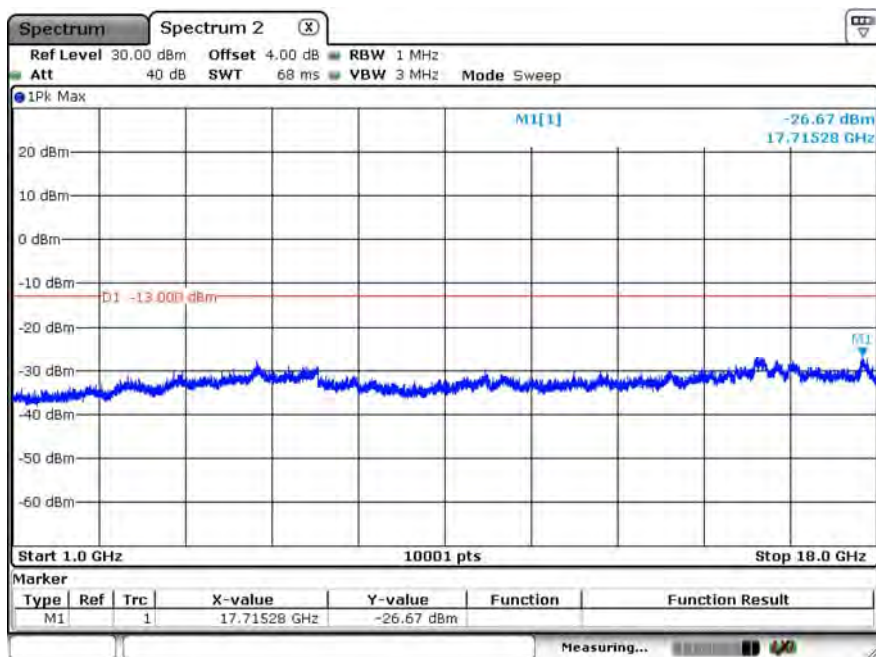
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B26_CH26775_3M_1RB0_QPSK_Below 1G

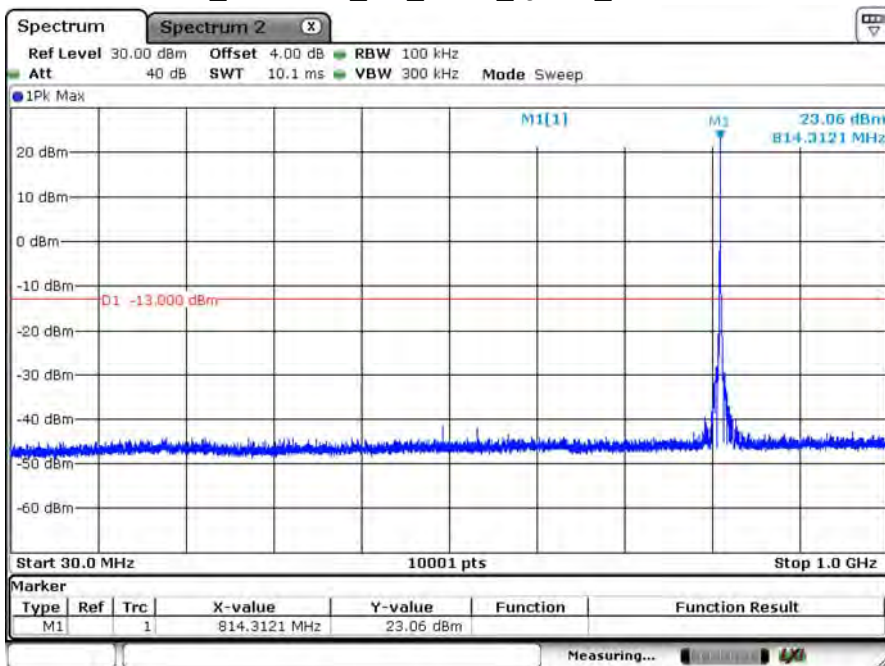


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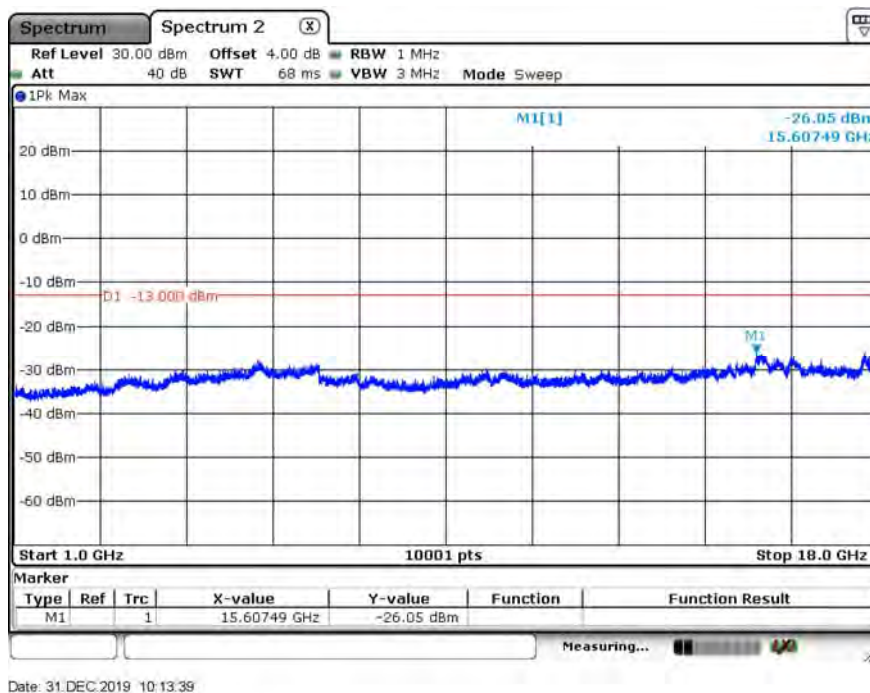
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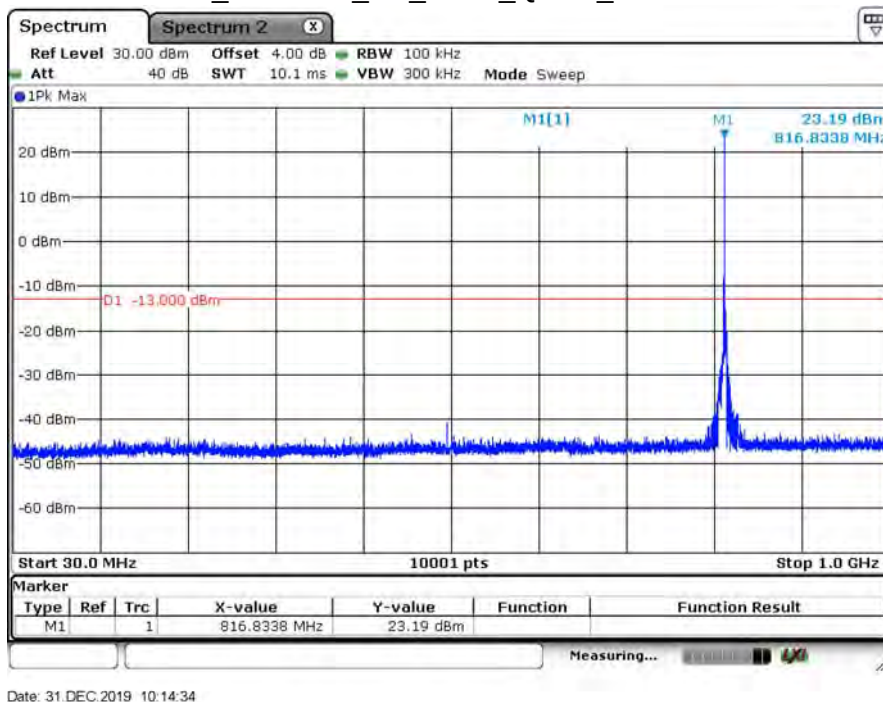


Date: 31.DEC.2019 10:09:00

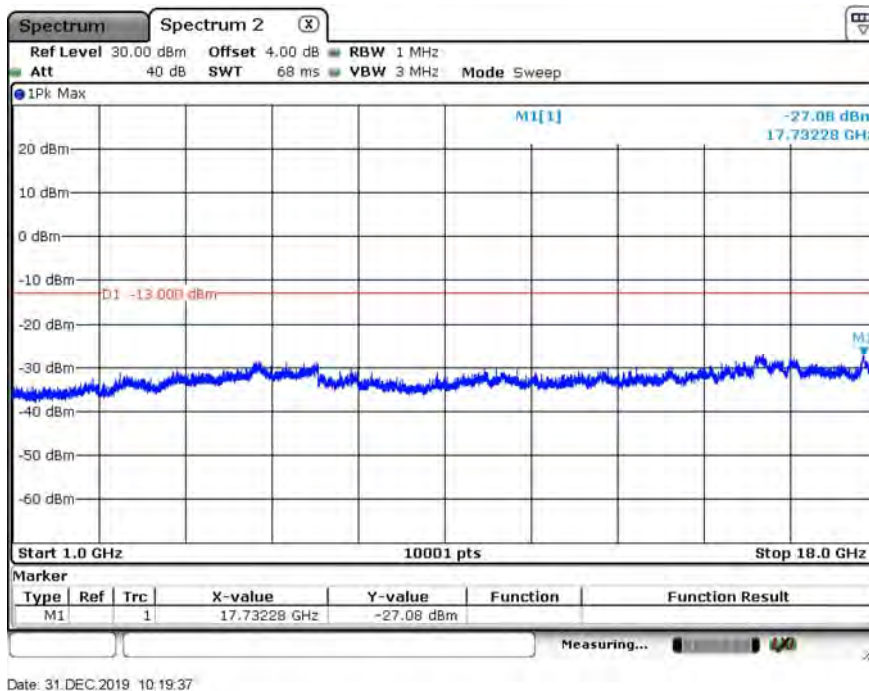
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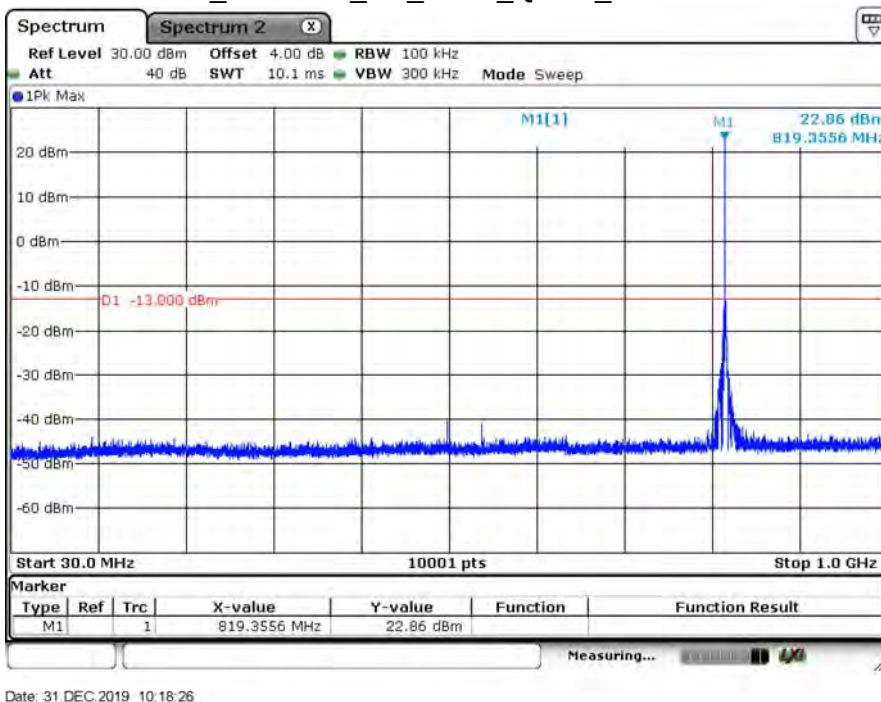
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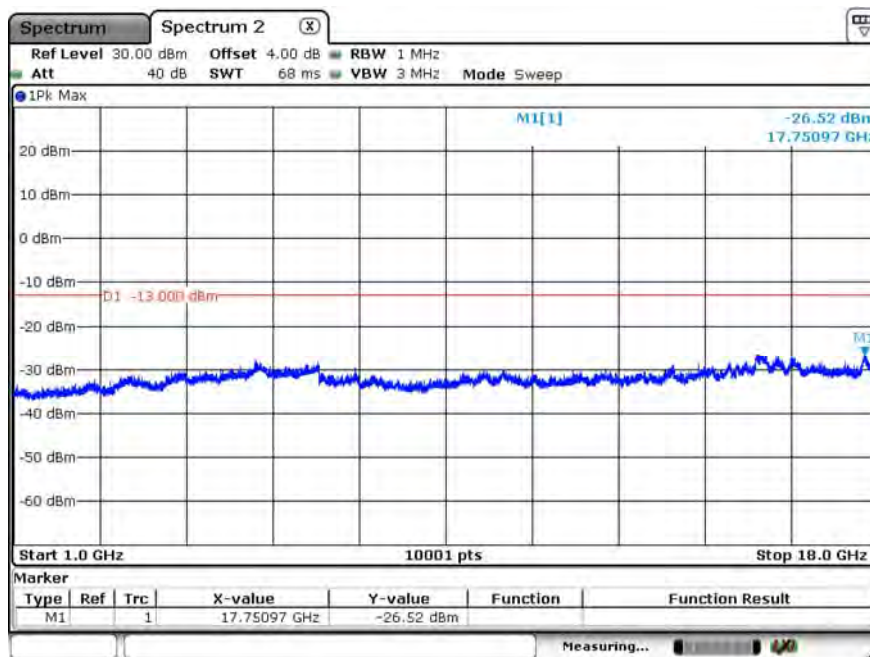
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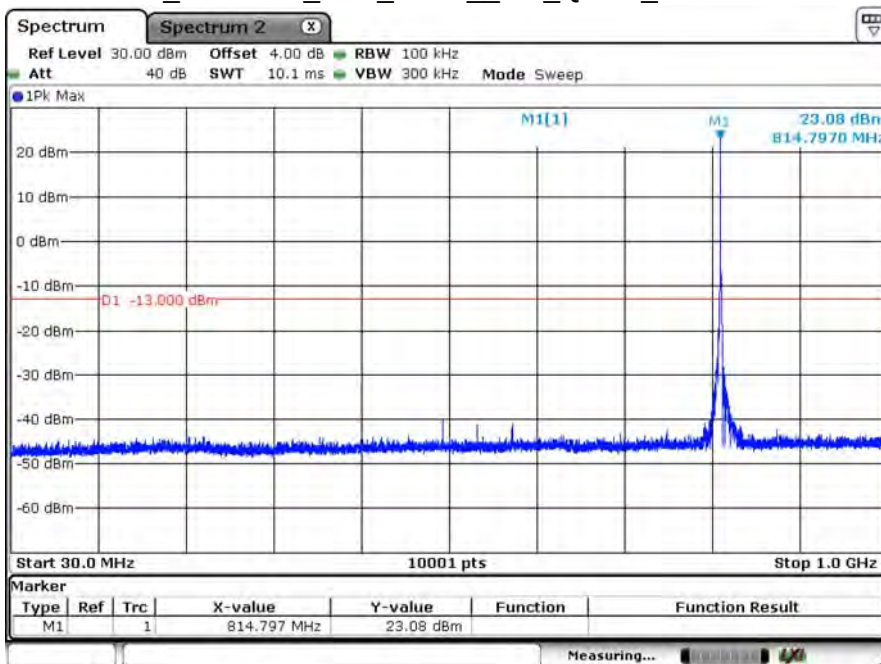


B26_CH26740_10M_1RB0__low_QPSK_Above 1G



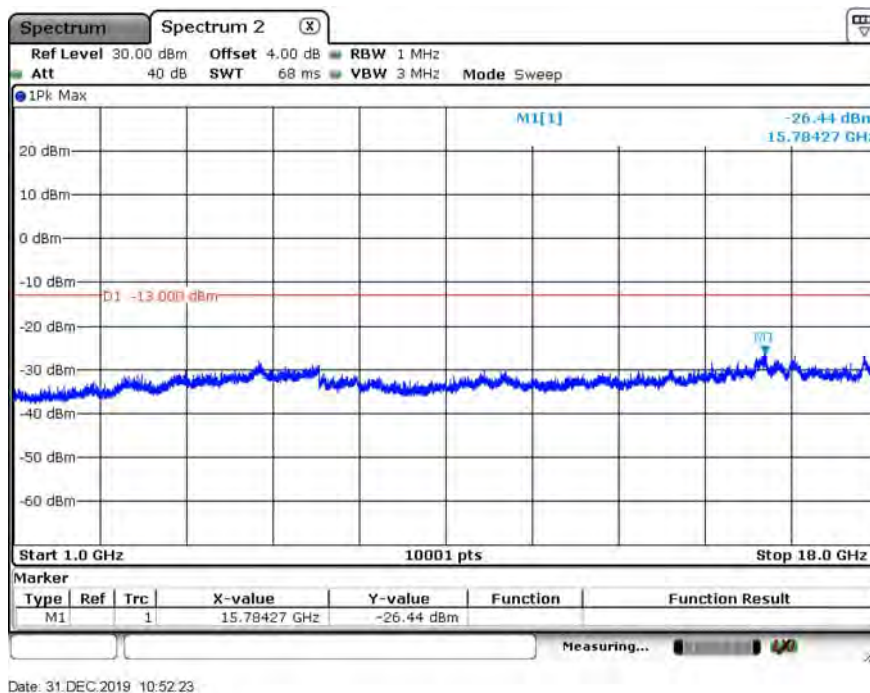
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B26_CH26740_10M_1RB0__low_QPSK_Below 1G

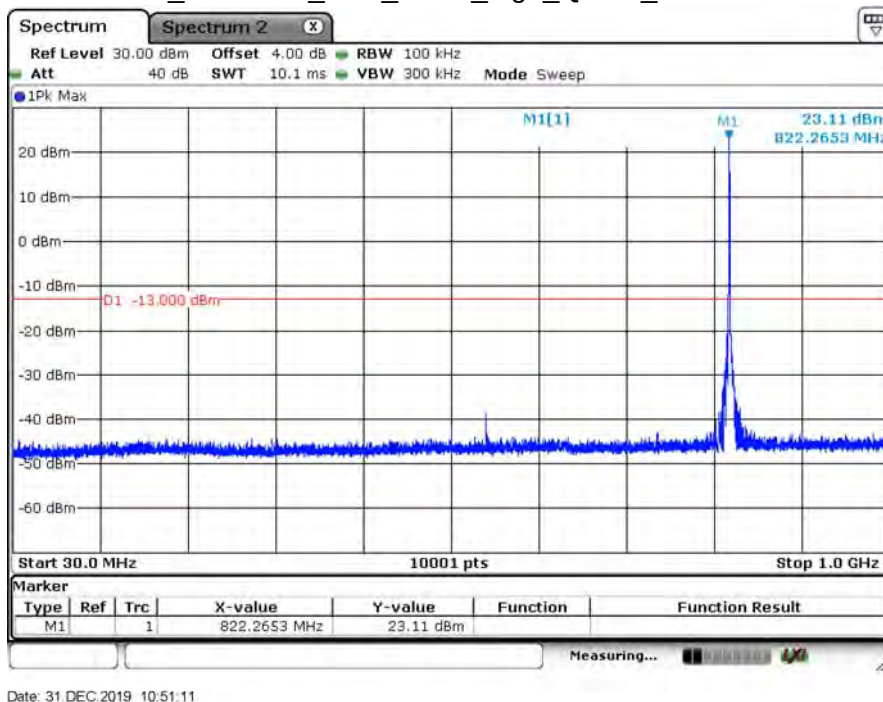


Date: 31.DEC.2019 10:50:09

B26_CH26740_10M_1RB0_high_QPSK_Above 1G



B26_CH26740_10M_1RB0_high_QPSK_Below 1G



Product	M2M DATA MODULE		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/12/17	Test Site	CB4-H
Temperature (°C)	22.0°C	Humidity (%RH)	55%RH

BW 1.4M_CH 18607_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3701.400	-46.77	-13	-33.77	-54.87	12.61	4.51
	5552.100	-55.65	-13	-42.65	-63.11	13.13	5.67
	7402.800	-55.59	-13	-42.59	-60.30	11.32	6.60
	9253.500	-51.22	-13	-38.22	-55.84	11.83	7.21
	11104.200	-50.42	-13	-37.42	-54.13	11.67	7.96
	12954.900	-49.38	-13	-36.38	-54.37	13.62	8.64
V	3701.400	-45.08	-13	-32.08	-53.18	12.61	4.51
	5552.100	-56.26	-13	-43.26	-63.72	13.13	5.67
	7402.800	-52.74	-13	-39.74	-57.45	11.32	6.60
	9253.500	-52.19	-13	-39.19	-56.81	11.83	7.21
	11104.200	-50.48	-13	-37.48	-54.19	11.67	7.96
	12954.900	-49.17	-13	-36.17	-54.16	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 1.4M_CH 18607_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3701.400	-45.18	-13	-32.18	-53.28	12.61	4.51
	5552.100	-55.92	-13	-42.92	-63.38	13.13	5.67
	7402.800	-53.42	-13	-40.42	-58.13	11.32	6.60
	9253.500	-52.11	-13	-39.11	-56.73	11.83	7.21
	11104.200	-49.09	-13	-36.09	-52.80	11.67	7.96
	12954.900	-48.96	-13	-35.96	-53.95	13.62	8.64
V	3701.400	-43.38	-13	-30.38	-51.48	12.61	4.51
	5552.100	-43.43	-13	-30.43	-50.89	13.13	5.67
	7402.800	-52.80	-13	-39.80	-57.51	11.32	6.60
	9253.500	-51.89	-13	-38.89	-56.51	11.83	7.21
	11104.200	-50.04	-13	-37.04	-53.75	11.67	7.96
	12954.900	-47.83	-13	-34.83	-52.82	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 1.4M_CH 18900_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.73	-13	-34.73	-55.80	12.60	4.54
	5640.000	-54.40	-13	-41.40	-61.80	13.10	5.70
	7520.000	-53.11	-13	-40.11	-57.73	11.24	6.61
	9400.000	-51.21	-13	-38.21	-55.71	11.79	7.29
	11280.000	-48.79	-13	-35.79	-52.65	11.92	8.06
	13160.000	-48.07	-13	-35.07	-52.69	13.33	8.70
V	3760.000	-49.80	-13	-36.80	-57.87	12.60	4.54
	5640.000	-52.92	-13	-39.92	-60.32	13.10	5.70
	7520.000	-52.90	-13	-39.90	-57.52	11.24	6.61
	9400.000	-50.68	-13	-37.68	-55.18	11.79	7.29
	11280.000	-48.64	-13	-35.64	-52.50	11.92	8.06
	13160.000	-47.58	-13	-34.58	-52.20	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 1.4M_CH 18900_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-48.30	-13	-35.30	-56.37	12.60	4.54
	5640.000	-54.30	-13	-41.30	-61.70	13.10	5.70
	7520.000	-53.70	-13	-40.70	-58.32	11.24	6.61
	9400.000	-50.66	-13	-37.66	-55.16	11.79	7.29
	11280.000	-48.66	-13	-35.66	-52.52	11.92	8.06
	13160.000	-47.85	-13	-34.85	-52.47	13.33	8.70
V	3760.000	-47.15	-13	-34.15	-55.22	12.60	4.54
	5640.000	-53.46	-13	-40.46	-60.86	13.10	5.70
	7520.000	-53.10	-13	-40.10	-57.72	11.24	6.61
	9400.000	-50.45	-13	-37.45	-54.95	11.79	7.29
	11280.000	-48.15	-13	-35.15	-52.01	11.92	8.06
	13160.000	-47.25	-13	-34.25	-51.87	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 1.4M_CH 19193_16-QAM_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3818.600	-47.81	-13	-34.81	-55.85	12.60	4.57
	5727.900	-50.92	-13	-37.92	-58.27	13.08	5.73
	7637.200	-52.65	-13	-39.65	-57.30	11.24	6.60
	9546.500	-50.77	-13	-37.77	-55.21	11.80	7.35
	11455.800	-48.23	-13	-35.23	-52.24	12.17	8.15
	13365.100	-49.59	-13	-36.59	-53.81	12.98	8.76
V	3818.600	-49.07	-13	-36.07	-57.11	12.60	4.57
	5727.900	-50.46	-13	-37.46	-57.81	13.08	5.73
	7637.200	-52.11	-13	-39.11	-56.76	11.24	6.60
	9546.500	-50.42	-13	-37.42	-54.86	11.80	7.35
	11455.800	-48.85	-13	-35.85	-52.86	12.17	8.15
	13365.100	-49.80	-13	-36.80	-54.02	12.98	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 1.4M_CH 19193_QPSK_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3818.600	-47.83	-13	-34.83	-55.87	12.60	4.57
	5727.900	-51.50	-13	-38.50	-58.85	13.08	5.73
	7637.200	-51.86	-13	-38.86	-56.51	11.24	6.60
	9546.500	-50.11	-13	-37.11	-54.55	11.80	7.35
	11455.800	-48.85	-13	-35.85	-52.86	12.17	8.15
	13365.100	-49.59	-13	-36.59	-53.81	12.98	8.76
V	3818.600	-49.24	-13	-36.24	-57.28	12.60	4.57
	5727.900	-50.65	-13	-37.65	-58.00	13.08	5.73
	7637.200	-50.35	-13	-37.35	-55.00	11.24	6.60
	9546.500	-49.62	-13	-36.62	-54.06	11.80	7.35
	11455.800	-48.32	-13	-35.32	-52.33	12.17	8.15
	13365.100	-50.11	-13	-37.11	-54.33	12.98	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 3M_CH 18615_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3703.000	-47.04	-13	-34.04	-55.14	12.61	4.51
	5554.500	-56.62	-13	-43.62	-64.08	13.12	5.67
	7406.000	-53.21	-13	-40.21	-57.92	11.31	6.60
	9257.500	-51.65	-13	-38.65	-56.27	11.83	7.21
	11109.000	-50.85	-13	-37.85	-54.56	11.67	7.96
	12960.500	-49.57	-13	-36.57	-54.55	13.62	8.64
V	3703.000	-45.07	-13	-32.07	-53.17	12.61	4.51
	5554.500	-55.57	-13	-42.57	-63.03	13.12	5.67
	7406.000	-52.33	-13	-39.33	-57.04	11.31	6.60
	9257.500	-51.71	-13	-38.71	-56.33	11.83	7.21
	11109.000	-50.23	-13	-37.23	-53.94	11.67	7.96
	12960.500	-49.18	-13	-36.18	-54.16	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 3M_CH 18615_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3703.000	-47.15	-13	-34.15	-55.25	12.61	4.51
	5554.500	-55.93	-13	-42.93	-63.39	13.12	5.67
	7406.000	-53.27	-13	-40.27	-57.98	11.31	6.60
	9257.500	-52.86	-13	-39.86	-57.48	11.83	7.21
	11109.000	-50.49	-13	-37.49	-54.20	11.67	7.96
	12960.500	-49.05	-13	-36.05	-54.03	13.62	8.64
V	3703.000	-45.46	-13	-32.46	-53.56	12.61	4.51
	5554.500	-55.71	-13	-42.71	-63.17	13.12	5.67
	7406.000	-53.24	-13	-40.24	-57.95	11.31	6.60
	9257.500	-52.75	-13	-39.75	-57.37	11.83	7.21
	11109.000	-51.23	-13	-38.23	-54.94	11.67	7.96
	12960.500	-49.29	-13	-36.29	-54.27	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 3M_CH 18900_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-48.28	-13	-35.28	-56.35	12.60	4.54
	5640.000	-54.68	-13	-41.68	-62.08	13.10	5.70
	7520.000	-53.22	-13	-40.22	-57.84	11.24	6.61
	9400.000	-50.72	-13	-37.72	-55.22	11.79	7.29
	11280.000	-48.92	-13	-35.92	-52.78	11.92	8.06
	13160.000	-47.58	-13	-34.58	-52.20	13.33	8.70
V	3760.000	-46.82	-13	-33.82	-54.89	12.60	4.54
	5640.000	-53.10	-13	-40.10	-60.50	13.10	5.70
	7520.000	-52.84	-13	-39.84	-57.46	11.24	6.61
	9400.000	-50.46	-13	-37.46	-54.96	11.79	7.29
	11280.000	-48.74	-13	-35.74	-52.60	11.92	8.06
	13160.000	-47.85	-13	-34.85	-52.47	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 3M_CH 18900_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-48.14	-13	-35.14	-56.21	12.60	4.54
	5640.000	-54.01	-13	-41.01	-61.41	13.10	5.70
	7520.000	-53.22	-13	-40.22	-57.84	11.24	6.61
	9400.000	-50.61	-13	-37.61	-55.11	11.79	7.29
	11280.000	-49.17	-13	-36.17	-53.03	11.92	8.06
	13160.000	-48.22	-13	-35.22	-52.84	13.33	8.70
V	3760.000	-46.61	-13	-33.61	-54.68	12.60	4.54
	5640.000	-52.90	-13	-39.90	-60.30	13.10	5.70
	7520.000	-53.80	-13	-40.80	-58.42	11.24	6.61
	9400.000	-51.06	-13	-38.06	-55.56	11.79	7.29
	11280.000	-48.06	-13	-35.06	-51.92	11.92	8.06
	13160.000	-47.88	-13	-34.88	-52.50	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 3M_CH 19185_16-QAM_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3817.000	-47.67	-13	-34.67	-55.71	12.60	4.57
	5725.500	-50.37	-13	-37.37	-57.72	13.08	5.73
	7634.000	-52.22	-13	-39.22	-56.86	11.24	6.60
	9542.500	-49.50	-13	-36.50	-53.94	11.79	7.35
	11451.000	-48.40	-13	-35.40	-52.41	12.16	8.15
	13359.500	-49.48	-13	-36.48	-53.71	12.99	8.76
V	3817.000	-48.80	-13	-35.80	-56.84	12.60	4.57
	5725.500	-51.41	-13	-38.41	-58.76	13.08	5.73
	7634.000	-52.53	-13	-39.53	-57.17	11.24	6.60
	9542.500	-51.03	-13	-38.03	-55.47	11.79	7.35
	11451.000	-48.68	-13	-35.68	-52.69	12.16	8.15
	13359.500	-50.51	-13	-37.51	-54.74	12.99	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 3M_CH 19185_QPSK_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3817.000	-47.79	-13	-34.79	-55.83	12.60	4.57
	5725.500	-51.35	-13	-38.35	-58.70	13.08	5.73
	7634.000	-51.71	-13	-38.71	-56.35	11.24	6.60
	9542.500	-50.31	-13	-37.31	-54.75	11.79	7.35
	11451.000	-48.50	-13	-35.50	-52.51	12.16	8.15
	13359.500	-50.11	-13	-37.11	-54.34	12.99	8.76
V	3817.000	-48.62	-13	-35.62	-56.66	12.60	4.57
	5725.500	-51.29	-13	-38.29	-58.64	13.08	5.73
	7634.000	-52.01	-13	-39.01	-56.65	11.24	6.60
	9542.500	-49.23	-13	-36.23	-53.67	11.79	7.35
	11451.000	-48.88	-13	-35.88	-52.89	12.16	8.15
	13359.500	-49.60	-13	-36.60	-53.83	12.99	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 5M_CH 18625_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3705.000	-45.98	-13	-32.98	-54.07	12.61	4.51
	5557.500	-56.31	-13	-43.31	-63.76	13.12	5.67
	7410.000	-54.87	-13	-41.87	-59.58	11.31	6.60
	9262.500	-52.46	-13	-39.46	-57.07	11.82	7.21
	11115.000	-51.21	-13	-38.21	-54.93	11.68	7.96
	12967.500	-48.65	-13	-35.65	-53.62	13.62	8.64
V	3705.000	-45.54	-13	-32.54	-53.63	12.61	4.51
	5557.500	-55.91	-13	-42.91	-63.36	13.12	5.67
	7410.000	-52.41	-13	-39.41	-57.12	11.31	6.60
	9262.500	-51.73	-13	-38.73	-56.34	11.82	7.21
	11115.000	-51.08	-13	-38.08	-54.80	11.68	7.96
	12967.500	-48.79	-13	-35.79	-53.76	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 5M_CH 18625_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3705.000	-45.58	-13	-32.58	-53.67	12.61	4.51
	5557.000	-54.04	-13	-41.04	-61.49	13.12	5.67
	7410.000	-50.57	-13	-37.57	-55.28	11.31	6.60
	9262.500	-48.31	-13	-35.31	-52.92	11.82	7.21
	11115.000	-45.07	-13	-32.07	-48.79	11.68	7.96
	12967.500	-43.47	-13	-30.47	-48.44	13.62	8.64
V	3705.000	-43.10	-13	-30.10	-51.19	12.61	4.51
	5557.500	-41.58	-13	-28.58	-49.03	13.12	5.67
	7410.000	-50.55	-13	-37.55	-55.26	11.31	6.60
	9262.500	-50.21	-13	-37.21	-54.82	11.82	7.21
	11115.000	-51.13	-13	-38.13	-54.85	11.68	7.96
	12967.500	-48.43	-13	-35.43	-53.40	13.62	8.64

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 5M_CH 18900_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.52	-13	-34.52	-55.59	12.60	4.54
	5640.000	-52.96	-13	-39.96	-60.36	13.10	5.70
	7520.000	-52.45	-13	-39.45	-57.07	11.24	6.61
	9400.000	-50.94	-13	-37.94	-55.44	11.79	7.29
	11280.000	-48.66	-13	-35.66	-52.52	11.92	8.06
	13160.000	-48.33	-13	-35.33	-52.95	13.33	8.70
V	3760.000	-48.85	-13	-35.85	-56.92	12.60	4.54
	5640.000	-52.45	-13	-39.45	-59.85	13.10	5.70
	7520.000	-52.62	-13	-39.62	-57.24	11.24	6.61
	9400.000	-50.13	-13	-37.13	-54.63	11.79	7.29
	11280.000	-48.32	-13	-35.32	-52.18	11.92	8.06
	13160.000	-47.12	-13	-34.12	-51.74	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 5M_CH 18900_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.88	-13	-34.88	-55.95	12.60	4.54
	5640.000	-55.30	-13	-42.30	-62.70	13.10	5.70
	7520.000	-52.89	-13	-39.89	-57.51	11.24	6.61
	9400.000	-49.93	-13	-36.93	-54.43	11.79	7.29
	11280.000	-48.56	-13	-35.56	-52.42	11.92	8.06
	13160.000	-47.65	-13	-34.65	-52.27	13.33	8.70
V	3760.000	-46.75	-13	-33.75	-54.82	12.60	4.54
	5640.000	-51.96	-13	-38.96	-59.36	13.10	5.70
	7520.000	-50.88	-13	-37.88	-55.50	11.24	6.61
	9400.000	-50.33	-13	-37.33	-54.83	11.79	7.29
	11280.000	-48.44	-13	-35.44	-52.30	11.92	8.06
	13160.000	-47.75	-13	-34.75	-52.37	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 5M_CH 19175_16-QAM_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3815.000	-47.32	-13	-34.32	-55.36	12.60	4.57
	5722.500	-50.41	-13	-37.41	-57.76	13.08	5.73
	7630.000	-51.86	-13	-38.86	-56.50	11.24	6.60
	9537.500	-49.24	-13	-36.24	-53.68	11.79	7.35
	11445.000	-49.12	-13	-36.12	-53.12	12.15	8.15
	13352.500	-49.54	-13	-36.54	-53.78	13.00	8.76
V	3815.000	-48.43	-13	-35.43	-56.47	12.60	4.57
	5722.500	-49.97	-13	-36.97	-57.32	13.08	5.73
	7630.000	-51.33	-13	-38.33	-55.97	11.24	6.60
	9537.500	-49.64	-13	-36.64	-54.08	11.79	7.35
	11445.000	-48.74	-13	-35.74	-52.74	12.15	8.15
	13352.500	-49.68	-13	-36.68	-53.92	13.00	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 5M_CH 19175_QPSK_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3815.000	-47.76	-13	-34.76	-55.80	12.60	4.57
	5722.500	-51.10	-13	-38.10	-58.45	13.08	5.73
	7630.000	-51.10	-13	-38.10	-55.74	11.24	6.60
	9537.500	-49.91	-13	-36.91	-54.35	11.79	7.35
	11445.000	-48.12	-13	-35.12	-52.12	12.15	8.15
	13352.500	-48.96	-13	-35.96	-53.20	13.00	8.76
V	3815.000	-48.71	-13	-35.71	-56.75	12.60	4.57
	5722.500	-50.13	-13	-37.13	-57.48	13.08	5.73
	7630.000	-49.86	-13	-36.86	-54.50	11.24	6.60
	9537.500	-49.23	-13	-36.23	-53.67	11.79	7.35
	11445.000	-48.11	-13	-35.11	-52.11	12.15	8.15
	13352.500	-49.68	-13	-36.68	-53.92	13.00	8.76

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 10M_CH 18650_16-QAM_5RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3710.000	-46.34	-13	-33.34	-54.43	12.61	4.51
	5565.000	-55.17	-13	-42.17	-62.62	13.12	5.67
	7420.000	-54.91	-13	-41.91	-59.61	11.30	6.60
	9275.000	-50.74	-13	-37.74	-55.34	11.82	7.22
	11130.000	-49.96	-13	-36.96	-53.69	11.70	7.97
	12985.000	-48.87	-13	-35.87	-53.83	13.61	8.65
V	3710.000	-44.65	-13	-31.65	-52.74	12.61	4.51
	5565.000	-55.97	-13	-42.97	-63.42	13.12	5.67
	7420.000	-52.18	-13	-39.18	-56.88	11.30	6.60
	9275.000	-51.42	-13	-38.42	-56.02	11.82	7.22
	11130.000	-49.62	-13	-36.62	-53.35	11.70	7.97
	12985.000	-48.62	-13	-35.62	-53.58	13.61	8.65

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 10M_CH 18650_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3710.000	-48.43	-13	-35.43	-56.52	12.61	4.51
	5565.000	-54.89	-13	-41.89	-62.34	13.12	5.67
	7420.000	-52.96	-13	-39.96	-57.66	11.30	6.60
	9275.000	-51.43	-13	-38.43	-56.03	11.82	7.22
	11130.000	-48.73	-13	-35.73	-52.46	11.70	7.97
	12985.000	-48.32	-13	-35.32	-53.28	13.61	8.65
V	3710.000	-42.85	-13	-29.85	-50.94	12.61	4.51
	5565.000	-43.04	-13	-30.04	-50.49	13.12	5.67
	7420.000	-52.11	-13	-39.11	-56.81	11.30	6.60
	9275.000	-51.28	-13	-38.28	-55.88	11.82	7.22
	11130.000	-49.71	-13	-36.71	-53.44	11.70	7.97
	12985.000	-47.94	-13	-34.94	-52.90	13.61	8.65

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 10M_CH 18900_16-QAM_5RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.31	-13	-34.31	-55.38	12.60	4.54
	5640.000	-54.05	-13	-41.05	-61.45	13.10	5.70
	7520.000	-52.45	-13	-39.45	-57.07	11.24	6.61
	9400.000	-50.84	-13	-37.84	-55.34	11.79	7.29
	11280.000	-50.84	-13	-37.84	-54.70	11.92	8.06
	13160.000	-47.51	-13	-34.51	-52.13	13.33	8.70
V	3760.000	-49.76	-13	-36.76	-57.83	12.60	4.54
	5640.000	-52.64	-13	-39.64	-60.04	13.10	5.70
	7520.000	-52.53	-13	-39.53	-57.15	11.24	6.61
	9400.000	-50.22	-13	-37.22	-54.72	11.79	7.29
	11280.000	-48.17	-13	-35.17	-52.03	11.92	8.06
	13160.000	-47.36	-13	-34.36	-51.98	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 10M_CH 18900_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.96	-13	-34.96	-56.03	12.60	4.54
	5640.000	-53.77	-13	-40.77	-61.17	13.10	5.70
	7520.000	-53.61	-13	-40.61	-58.23	11.24	6.61
	9400.000	-50.21	-13	-37.21	-54.71	11.79	7.29
	11280.000	-48.18	-13	-35.18	-52.04	11.92	8.06
	13160.000	-47.34	-13	-34.34	-51.96	13.33	8.70
V	3760.000	-46.67	-13	-33.67	-54.74	12.60	4.54
	5640.000	-52.89	-13	-39.89	-60.29	13.10	5.70
	7520.000	-52.75	-13	-39.75	-57.37	11.24	6.61
	9400.000	-50.14	-13	-37.14	-54.64	11.79	7.29
	11280.000	-47.74	-13	-34.74	-51.60	11.92	8.06
	13160.000	-47.54	-13	-34.54	-52.16	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 10M_CH 19150_16-QAM_5RB1

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3810.000	-47.94	-13	-34.94	-55.98	12.60	4.56
	5715.000	-50.83	-13	-37.83	-58.19	13.08	5.72
	7620.000	-52.67	-13	-39.67	-57.31	11.24	6.60
	9525.000	-50.25	-13	-37.25	-54.68	11.78	7.35
	11430.000	-47.96	-13	-34.96	-51.95	12.13	8.14
	13335.000	-49.13	-13	-36.13	-53.41	13.03	8.75
V	3810.000	-48.76	-13	-35.76	-56.80	12.60	4.56
	5715.000	-50.07	-13	-37.07	-57.43	13.08	5.72
	7620.000	-52.24	-13	-39.24	-56.88	11.24	6.60
	9525.000	-49.49	-13	-36.49	-53.92	11.78	7.35
	11430.000	-48.45	-13	-35.45	-52.44	12.13	8.14
	13335.000	-49.56	-13	-36.56	-53.84	13.03	8.75

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 10M_CH 19150_QPSK_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3810.000	-47.79	-13	-34.79	-55.83	12.60	4.56
	5715.000	-51.12	-13	-38.12	-58.48	13.08	5.72
	7620.000	-51.43	-13	-38.43	-56.07	11.24	6.60
	9525.000	-49.74	-13	-36.74	-54.17	11.78	7.35
	11430.000	-48.24	-13	-35.24	-52.23	12.13	8.14
	13335.000	-49.10	-13	-36.10	-53.38	13.03	8.75
V	3810.000	-49.82	-13	-36.82	-57.86	12.60	4.56
	5715.000	-50.14	-13	-37.14	-57.50	13.08	5.72
	7620.000	-49.93	-13	-36.93	-54.57	11.24	6.60
	9525.000	-49.21	-13	-36.21	-53.64	11.78	7.35
	11430.000	-47.87	-13	-34.87	-51.86	12.13	8.14
	13335.000	-49.56	-13	-36.56	-53.84	13.03	8.75

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 15M_CH 18675_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3715.000	-46.84	-13	-33.84	-54.93	12.61	4.52
	5572.500	-55.54	-13	-42.54	-62.98	13.12	5.68
	7430.000	-55.51	-13	-42.51	-60.20	11.29	6.61
	9287.500	-51.35	-13	-38.35	-55.94	11.82	7.23
	11145.000	-50.31	-13	-37.31	-54.05	11.73	7.98
	13002.500	-49.23	-13	-36.23	-54.16	13.60	8.66
V	3715.000	-46.78	-13	-33.78	-54.87	12.61	4.52
	5572.500	-56.34	-13	-43.34	-63.78	13.12	5.68
	7430.000	-52.68	-13	-39.68	-57.37	11.29	6.61
	9287.500	-51.83	-13	-38.83	-56.42	11.82	7.23
	11145.000	-50.37	-13	-37.37	-54.11	11.73	7.98
	13002.500	-48.96	-13	-35.96	-53.89	13.60	8.66

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 15M_CH 18675_QPSK_6RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3715.000	-44.98	-13	-31.98	-53.07	12.61	4.52
	5572.500	-55.87	-13	-42.87	-63.31	13.12	5.68
	7430.000	-53.32	-13	-40.32	-58.01	11.29	6.61
	9287.500	-51.94	-13	-38.94	-56.53	11.82	7.23
	11145.000	-48.78	-13	-35.78	-52.52	11.73	7.98
	13002.500	-48.38	-13	-35.38	-53.31	13.60	8.66
V	3715.000	-43.14	-13	-30.14	-51.23	12.61	4.52
	5572.500	-43.22	-13	-30.22	-50.66	13.12	5.68
	7430.000	-52.37	-13	-39.37	-57.06	11.29	6.61
	9287.500	-51.77	-13	-38.77	-56.36	11.82	7.23
	11145.000	-49.89	-13	-36.89	-53.63	11.73	7.98
	13002.500	-47.74	-13	-34.74	-52.67	13.60	8.66

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 15M_CH 18900_16-QAM_5RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.77	-13	-34.77	-55.84	12.60	4.54
	5640.000	-54.38	-13	-41.38	-61.78	13.10	5.70
	7520.000	-52.69	-13	-39.69	-57.31	11.24	6.61
	9400.000	-51.34	-13	-38.34	-55.84	11.79	7.29
	11280.000	-48.56	-13	-35.56	-52.42	11.92	8.06
	13160.000	-47.88	-13	-34.88	-52.50	13.33	8.70
V	3760.000	-49.92	-13	-36.92	-57.99	12.60	4.54
	5640.000	-52.82	-13	-39.82	-60.22	13.10	5.70
	7520.000	-52.89	-13	-39.89	-57.51	11.24	6.61
	9400.000	-50.59	-13	-37.59	-55.09	11.79	7.29
	11280.000	-48.54	-13	-35.54	-52.40	11.92	8.06
	13160.000	-47.65	-13	-34.65	-52.27	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 15M_CH 18900_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-48.23	-13	-35.23	-56.30	12.60	4.54
	5640.000	-54.42	-13	-41.42	-61.82	13.10	5.70
	7520.000	-53.66	-13	-40.66	-58.28	11.24	6.61
	9400.000	-50.56	-13	-37.56	-55.06	11.79	7.29
	11280.000	-48.48	-13	-35.48	-52.34	11.92	8.06
	13160.000	-47.79	-13	-34.79	-52.41	13.33	8.70
V	3760.000	-46.87	-13	-33.87	-54.94	12.60	4.54
	5640.000	-53.36	-13	-40.36	-60.76	13.10	5.70
	7520.000	-52.85	-13	-39.85	-57.47	11.24	6.61
	9400.000	-50.56	-13	-37.56	-55.06	11.79	7.29
	11280.000	-47.97	-13	-34.97	-51.83	11.92	8.06
	13160.000	-47.34	-13	-34.34	-51.96	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 15M_CH 19125_16-QAM_5RB1

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3805.000	-47.78	-13	-34.78	-55.82	12.60	4.56
	5707.500	-50.89	-13	-37.89	-58.25	13.08	5.72
	7610.000	-52.56	-13	-39.56	-57.20	11.24	6.60
	9512.500	-50.69	-13	-37.69	-55.12	11.77	7.35
	11415.000	-48.33	-13	-35.33	-52.31	12.11	8.13
	13317.500	-48.33	-13	-35.33	-52.64	13.06	8.75
V	3805.000	-48.86	-13	-35.86	-56.90	12.60	4.56
	5707.500	-50.24	-13	-37.24	-57.60	13.08	5.72
	7610.000	-52.58	-13	-39.58	-57.22	11.24	6.60
	9512.500	-49.61	-13	-36.61	-54.04	11.77	7.35
	11415.000	-48.58	-13	-35.58	-52.56	12.11	8.13
	13317.500	-49.59	-13	-36.59	-53.90	13.06	8.75

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 15M_CH 19125_QPSK_1RB5

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3805.000	-47.79	-13	-34.79	-55.83	12.60	4.56
	5707.500	-51.46	-13	-38.46	-58.82	13.08	5.72
	7610.000	-51.79	-13	-38.79	-56.43	11.24	6.60
	9512.500	-49.89	-13	-36.89	-54.32	11.77	7.35
	11415.000	-48.79	-13	-35.79	-52.77	12.11	8.13
	13317.500	-49.56	-13	-36.56	-53.87	13.06	8.75
V	3805.000	-49.35	-13	-36.35	-57.39	12.60	4.56
	5707.500	-50.64	-13	-37.64	-58.00	13.08	5.72
	7610.000	-50.23	-13	-37.23	-54.87	11.24	6.60
	9512.500	-49.56	-13	-36.56	-53.99	11.77	7.35
	11415.000	-48.43	-13	-35.43	-52.41	12.11	8.13
	13317.500	-49.93	-13	-36.93	-54.24	13.06	8.75

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 20M_CH 18700_16-QAM_5RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3720.000	-46.84	-13	-33.84	-54.93	12.61	4.52
	5580.000	-55.60	-13	-42.60	-63.04	13.12	5.68
	7440.000	-51.23	-13	-38.23	-55.91	11.28	6.61
	9300.000	-50.36	-13	-37.36	-54.94	11.82	7.23
	11160.000	-50.52	-13	-37.52	-54.28	11.75	7.99
	13020.000	-49.31	-13	-36.31	-54.21	13.57	8.67
V	3720.000	-44.89	-13	-31.89	-52.98	12.61	4.52
	5580.000	-56.19	-13	-43.19	-63.63	13.12	5.68
	7440.000	-52.89	-13	-39.89	-57.57	11.28	6.61
	9300.000	-51.92	-13	-38.92	-56.50	11.82	7.23
	11160.000	-50.39	-13	-37.39	-54.15	11.75	7.99
	13020.000	-49.23	-13	-36.23	-54.13	13.57	8.67

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 20M_CH 18700_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3720.000	-45.23	-13	-32.23	-53.32	12.61	4.52
	5580.000	-55.89	-13	-42.89	-63.33	13.12	5.68
	7440.000	-53.47	-13	-40.47	-58.15	11.28	6.61
	9300.000	-51.98	-13	-38.98	-56.56	11.82	7.23
	11160.000	-48.86	-13	-35.86	-52.62	11.75	7.99
	13020.000	-48.83	-13	-35.83	-53.73	13.57	8.67
V	3720.000	-43.33	-13	-30.33	-51.42	12.61	4.52
	5580.000	-43.36	-13	-30.36	-50.80	13.12	5.68
	7440.000	-52.95	-13	-39.95	-57.63	11.28	6.61
	9300.000	-51.82	-13	-38.82	-56.40	11.82	7.23
	11160.000	-49.94	-13	-36.94	-53.70	11.75	7.99
	13020.000	-47.81	-13	-34.81	-52.71	13.57	8.67

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 20M_CH 18900_16-QAM_5RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-47.66	-13	-34.66	-55.73	12.60	4.54
	5640.000	-54.56	-13	-41.56	-61.96	13.10	5.70
	7520.000	-53.31	-13	-40.31	-57.93	11.24	6.61
	9400.000	-51.33	-13	-38.33	-55.83	11.79	7.29
	11280.000	-48.68	-13	-35.68	-52.54	11.92	8.06
	13160.000	-47.96	-13	-34.96	-52.58	13.33	8.70
V	3760.000	-49.78	-13	-36.78	-57.85	12.60	4.54
	5640.000	-52.90	-13	-39.90	-60.30	13.10	5.70
	7520.000	-52.89	-13	-39.89	-57.51	11.24	6.61
	9400.000	-50.69	-13	-37.69	-55.19	11.79	7.29
	11280.000	-48.56	-13	-35.56	-52.42	11.92	8.06
	13160.000	-47.46	-13	-34.46	-52.08	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 20M_CH 18900_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3760.000	-48.23	-13	-35.23	-56.30	12.60	4.54
	5640.000	-54.34	-13	-41.34	-61.74	13.10	5.70
	7520.000	-53.76	-13	-40.76	-58.38	11.24	6.61
	9400.000	-50.56	-13	-37.56	-55.06	11.79	7.29
	11280.000	-48.67	-13	-35.67	-52.53	11.92	8.06
	13160.000	-47.78	-13	-34.78	-52.40	13.33	8.70
V	3760.000	-46.86	-13	-33.86	-54.93	12.60	4.54
	5640.000	-53.39	-13	-40.39	-60.79	13.10	5.70
	7520.000	-52.79	-13	-39.79	-57.41	11.24	6.61
	9400.000	-50.43	-13	-37.43	-54.93	11.79	7.29
	11280.000	-48.23	-13	-35.23	-52.09	11.92	8.06
	13160.000	-47.26	-13	-34.26	-51.88	13.33	8.70

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 20M_CH 19100_16-QAM_5RB1

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3800.000	-47.86	-13	-34.86	-55.91	12.60	4.56
	5700.000	-50.89	-13	-37.89	-58.26	13.08	5.72
	7600.000	-52.53	-13	-39.53	-57.17	11.24	6.60
	9500.000	-50.67	-13	-37.67	-55.09	11.77	7.34
	11400.000	-48.32	-13	-35.32	-52.28	12.09	8.12
	13300.000	-49.58	-13	-36.58	-53.93	13.09	8.74
V	3800.000	-48.85	-13	-35.85	-56.90	12.60	4.56
	5700.000	-50.41	-13	-37.41	-57.78	13.08	5.72
	7600.000	-52.51	-13	-39.51	-57.15	11.24	6.60
	9500.000	-49.68	-13	-36.68	-54.10	11.77	7.34
	11400.000	-48.46	-13	-35.46	-52.42	12.09	8.12
	13300.000	-49.56	-13	-36.56	-53.91	13.09	8.74

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 20M_CH 19100_QPSK_6RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3800.000	-47.79	-13	-34.79	-55.84	12.60	4.56
	5700.000	-51.49	-13	-38.49	-58.86	13.08	5.72
	7600.000	-51.79	-13	-38.79	-56.43	11.24	6.60
	9500.000	-49.86	-13	-36.86	-54.28	11.77	7.34
	11400.000	-48.89	-13	-35.89	-52.85	12.09	8.12
	13300.000	-49.63	-13	-36.63	-53.98	13.09	8.74
V	3800.000	-49.16	-13	-36.16	-57.21	12.60	4.56
	5700.000	-50.55	-13	-37.55	-57.92	13.08	5.72
	7600.000	-50.54	-13	-37.54	-55.18	11.24	6.60
	9500.000	-49.56	-13	-36.56	-53.98	11.77	7.34
	11400.000	-48.34	-13	-35.34	-52.30	12.09	8.12
	13300.000	-49.94	-13	-36.94	-54.29	13.09	8.74

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

Product	M2M DATA MODULE		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2019/12/22	Test Site	CB4-H
Temperature (°C)	23.0°C	Humidity (%RH)	54%RH

BW 1.4M_CH 19957_16-QAM_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3421.400	-41.04	-13	-28.04	-49.13	12.44	4.35
	5132.100	-52.46	-13	-39.46	-59.85	12.78	5.39
	6842.800	-49.27	-13	-36.27	-54.75	11.84	6.36
	8553.500	-46.38	-13	-33.38	-51.34	11.87	6.91
	10264.200	-43.07	-13	-30.07	-47.32	11.86	7.61
	11974.900	-42.04	-13	-29.04	-46.95	13.13	8.22
V	3421.400	-33.65	-13	-20.65	-41.74	12.44	4.35
	5132.100	-53.13	-13	-40.13	-60.52	12.78	5.39
	6842.800	-49.67	-13	-36.67	-55.15	11.84	6.36
	8553.500	-47.53	-13	-34.53	-52.49	11.87	6.91
	10264.200	-43.18	-13	-30.18	-47.43	11.86	7.61
	11974.900	-43.12	-13	-30.12	-48.03	13.13	8.22

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.

BW 1.4M_CH 19957_QPSK_1RB0

Antenna Polarity	Frequency (MHz)	Emission Level (dBm)	Limit (dBm)	Margin (dB)	SG Level (dBm)	Antenna Gain (dBi)	Cable Loss (dB)
H	3421.400	-41.18	-13	-28.18	-49.27	12.44	4.35
	5132.100	-53.12	-13	-40.12	-60.51	12.78	5.39
	6842.800	-49.43	-13	-36.43	-54.91	11.84	6.36
	8553.500	-47.94	-13	-34.94	-52.90	11.87	6.91
	10264.200	-43.29	-13	-30.29	-47.54	11.86	7.61
	11974.900	-42.92	-13	-29.92	-47.83	13.13	8.22
V	3421.400	-33.80	-13	-20.80	-41.89	12.44	4.35
	5132.100	-52.92	-13	-39.92	-60.31	12.78	5.39
	6842.800	-47.98	-13	-34.98	-53.46	11.84	6.36
	8553.500	-47.98	-13	-34.98	-52.94	11.87	6.91
	10264.200	-42.44	-13	-29.44	-46.69	11.86	7.61
	11974.900	-42.75	-13	-29.75	-47.66	13.13	8.22

Emission Level=SG(Signal Generator) Level+Antenna Gain-Cable Loss.