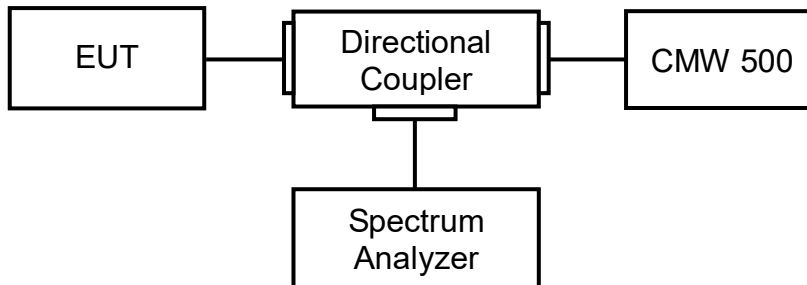


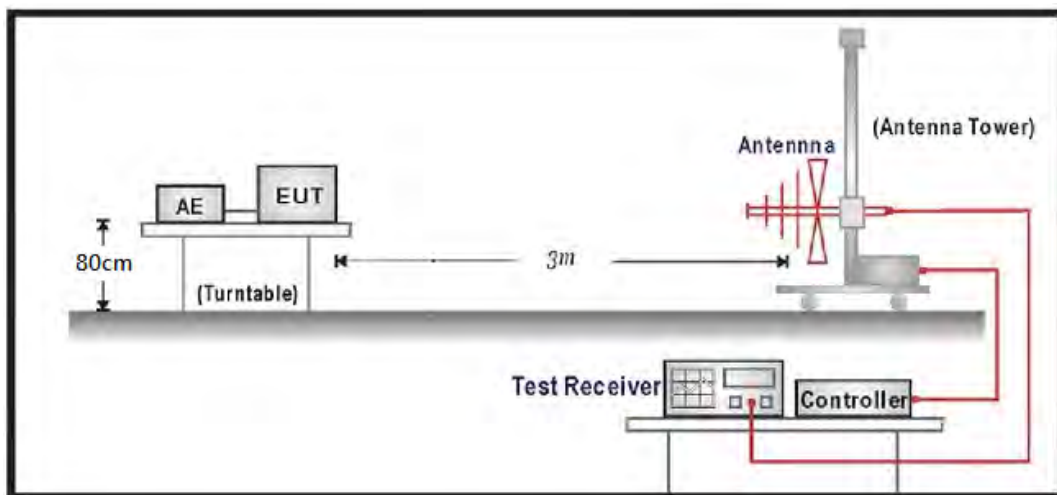
6. Spurious Emissions

6.1. Test Setup

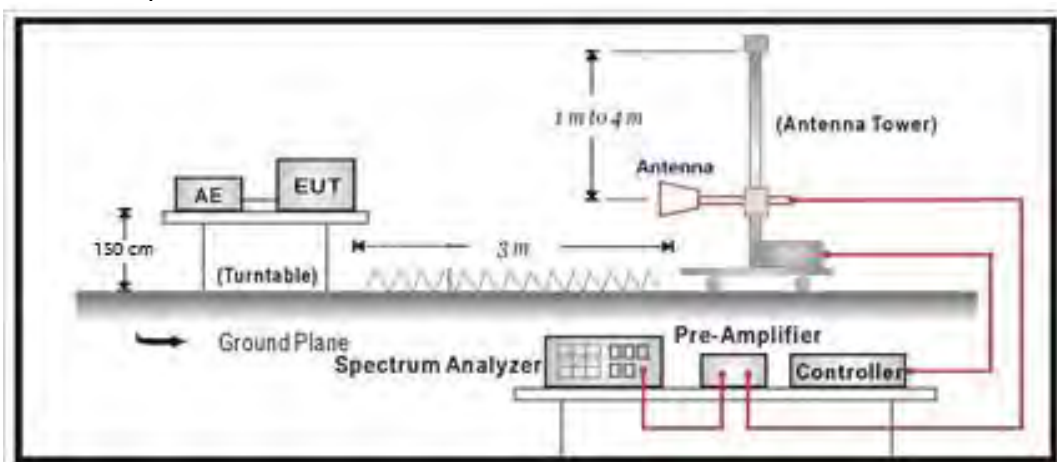
Conducted Spurious Measurement:



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:

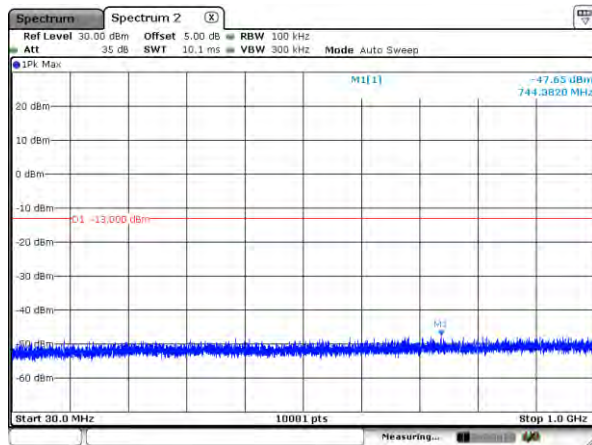
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8

ANSI C63.26: 2015 Sub-clause 5.5.3.2

6.4. Test Result

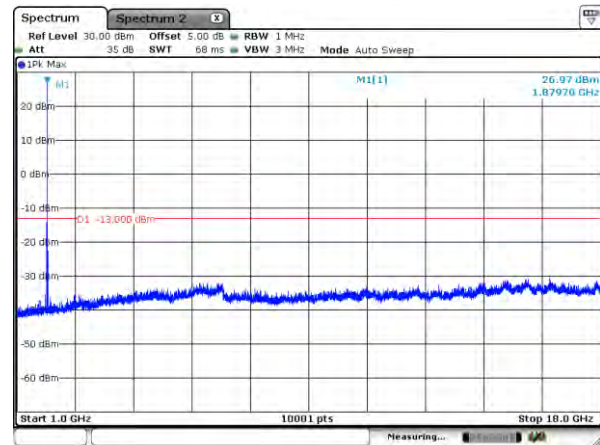
Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/19	Test Site	SR10-H

Band 2_CH18900_1.4M_1RB0_QPSK_Below 1G



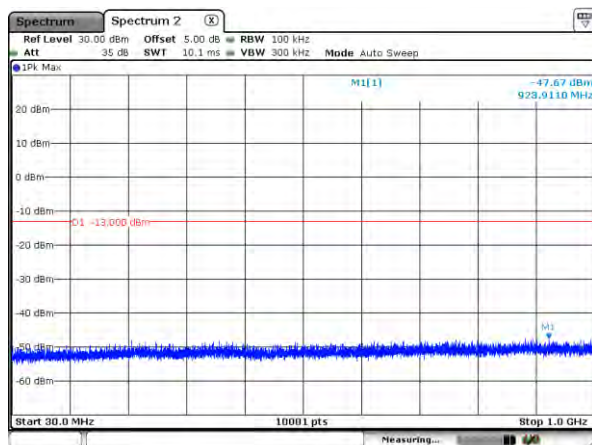
Date: 19 SEP 2018 01:19:42

Band 2_CH18900_1.4M_1RB0_QPSK_Above 1G



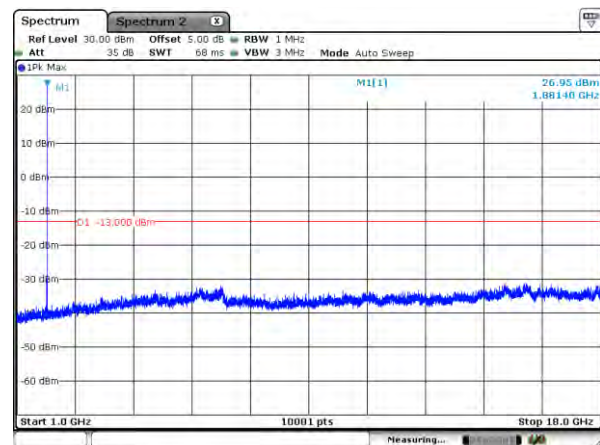
Date: 19 SEP 2018 01:19:20

Band 2_CH18900_3M_1RB0_QPSK_Below 1G



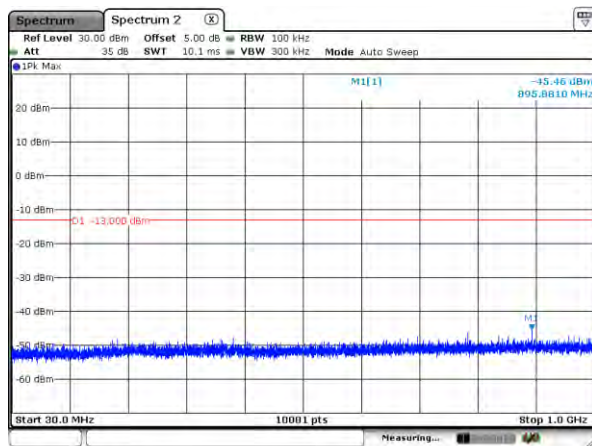
Date: 19 SEP 2018 01:24:35

Band 2_CH18900_3M_1RB0_QPSK_Above 1G



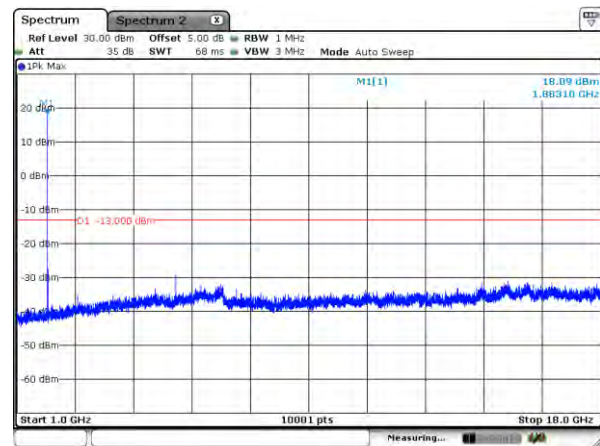
Date: 19 SEP 2018 01:24:13

Band 2_CH18900_5M_1RB0_QPSK_Below 1G



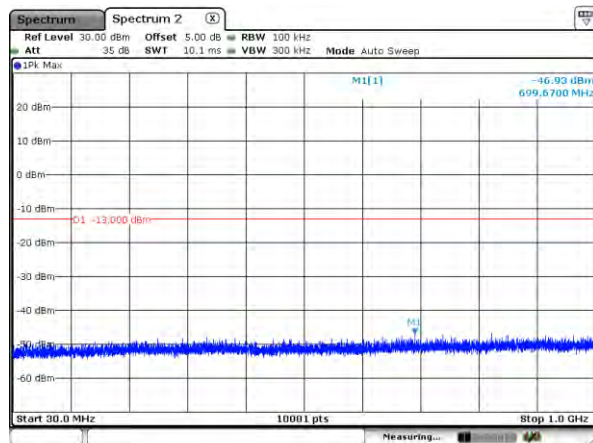
Date: 19 SEP 2018 01:28:49

Band 2_CH18900_5M_1RB0_QPSK_Above 1G



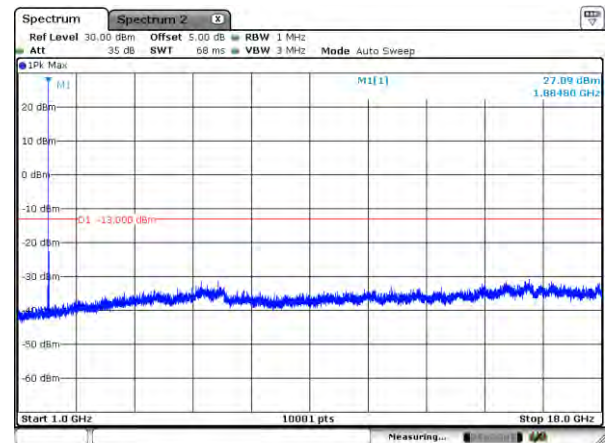
Date: 19 SEP 2018 01:28:22

Band 2_CH18900_10M_1RB0_QPSK_Below 1G



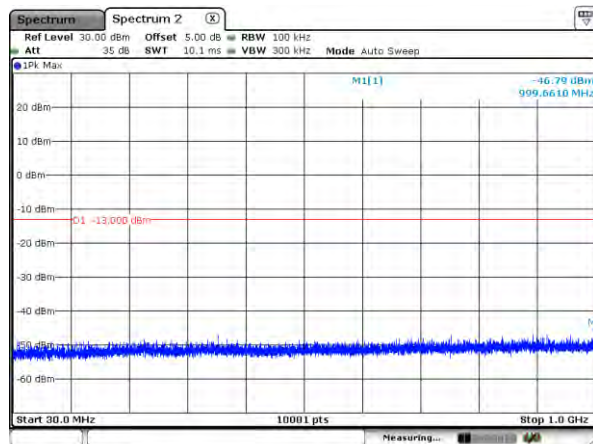
Date: 19 SEP 2018 01:33:33

Band 2_CH18900_10M_1RB0_QPSK_Above 1G



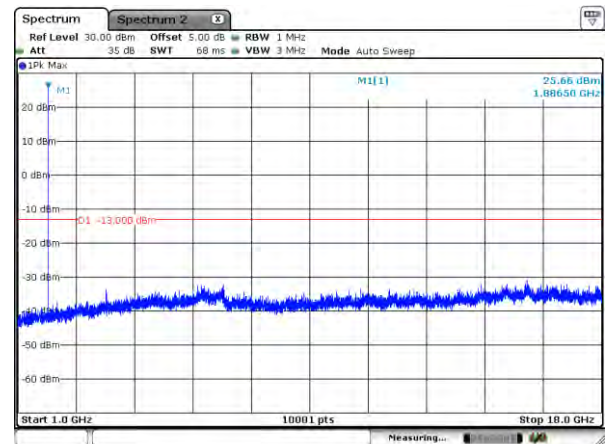
Date: 19 SEP 2018 01:33:04

Band 2_CH18900_15M_1RB0_QPSK_Below 1G



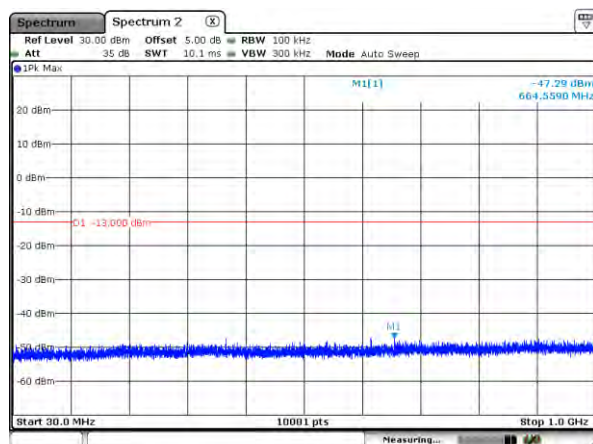
Date: 19 SEP 2018 01:38:15

Band 2_CH18900_15M_1RB0_QPSK_Above 1G



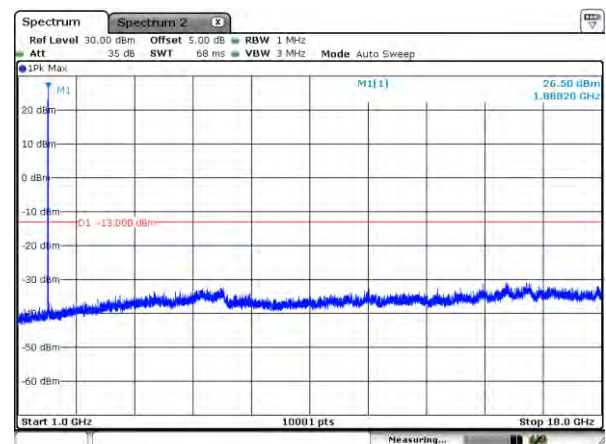
Date: 19 SEP 2018 01:37:51

Band 2_CH18900_20M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 01:44:04

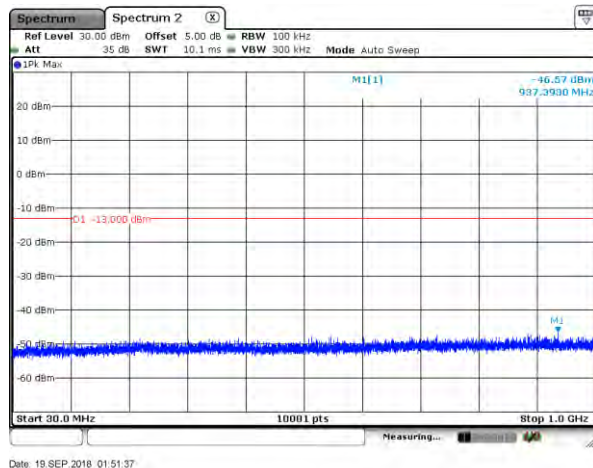
Band 2_CH18900_20M_1RB0_QPSK_Above 1G



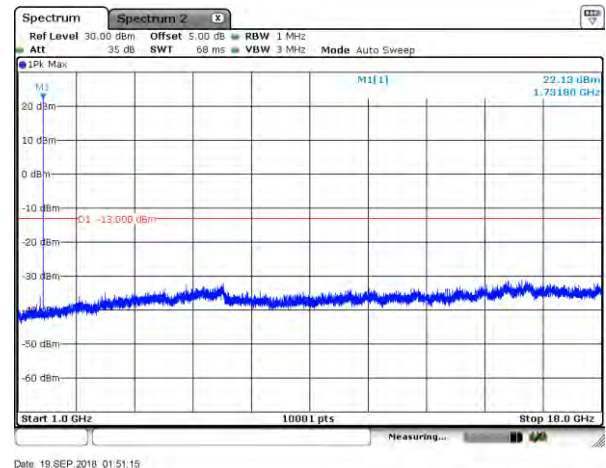
Date: 19 SEP 2018 01:43:43

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/19	Test Site	SR10-H

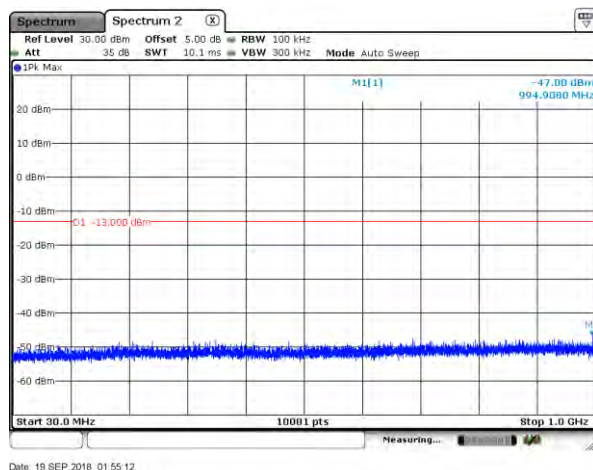
Band 4_CH20175_1.4M_1RB0_QPSK_Below1G



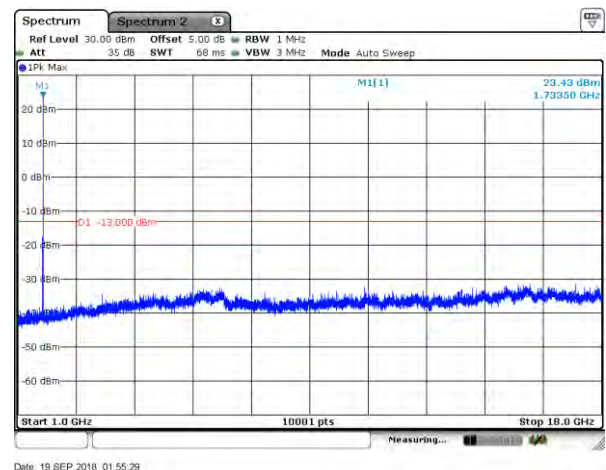
Band 4_CH20175_1.4M_1RB0_QPSK_Above1G



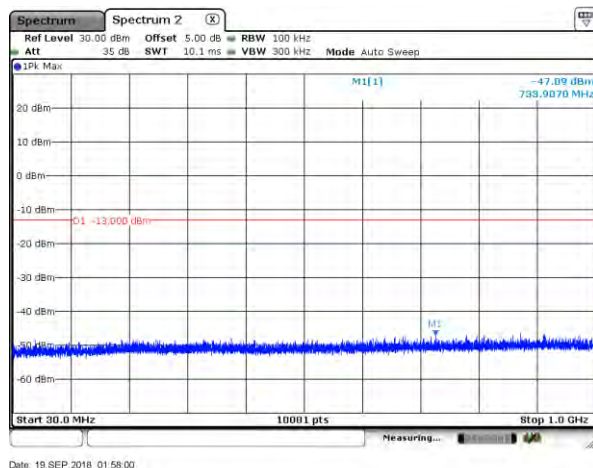
Band 4_CH20175_3M_1RB0_QPSK_Below 1G



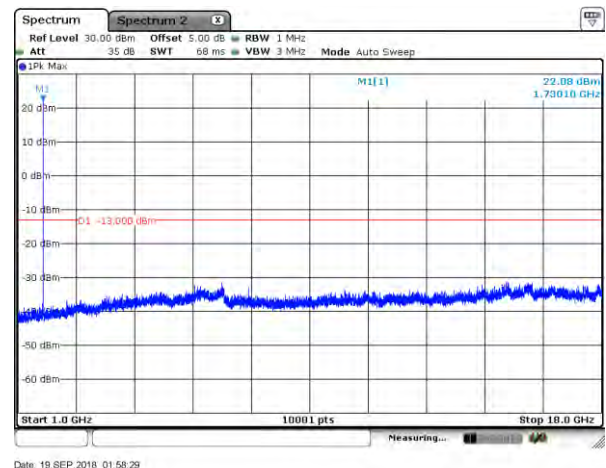
Band 4_CH20175_3M_1RB0_QPSK_Above 1G



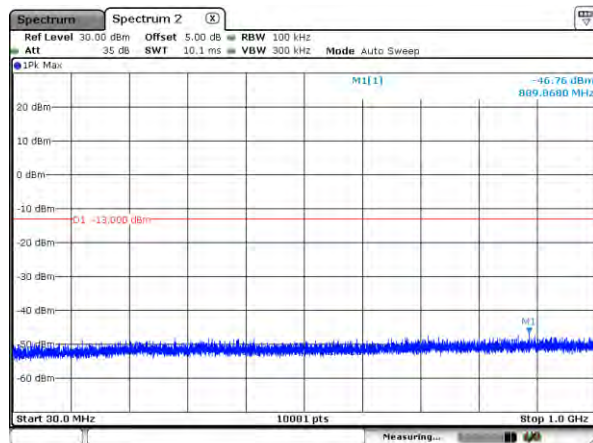
Band 4_CH20175_5M_1RB0_QPSK_Below 1G



Band 4_CH20175_5M_1RB0_QPSK_Above 1G

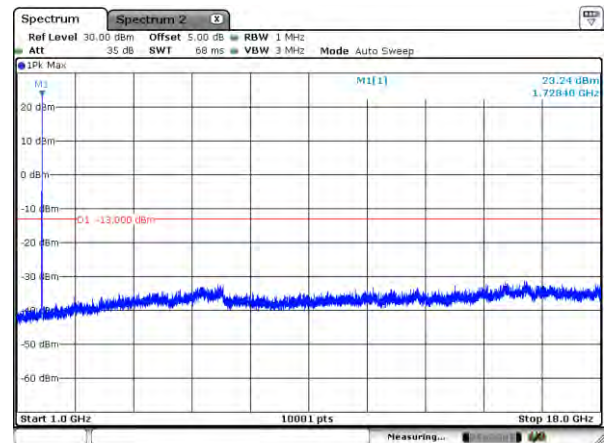


Band 4_CH20175_10M_1RB0_QPSK_Below 1G



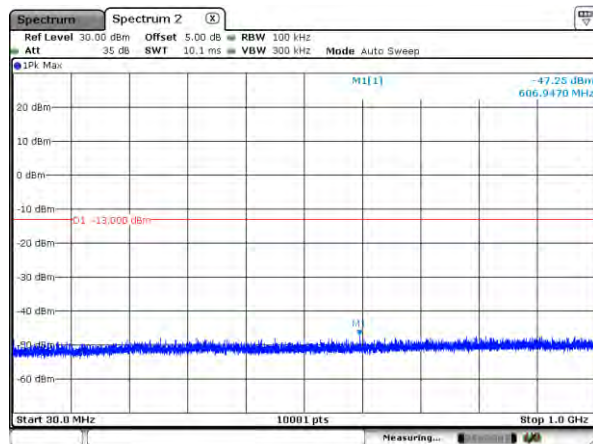
Date: 19 SEP 2018 02:00:44

Band 4_CH20175_10M_1RB0_QPSK_Above 1G



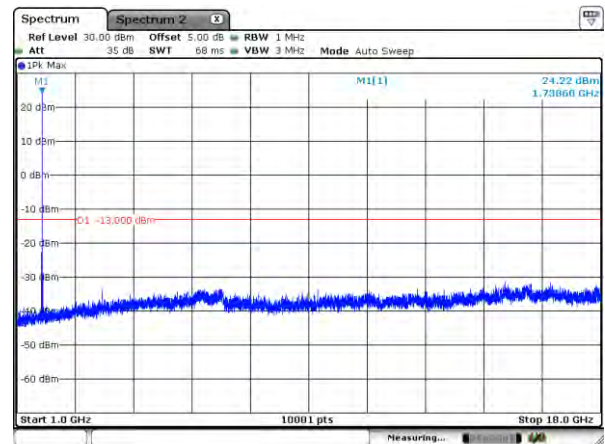
Date: 19 SEP 2018 02:00:59

Band 4_CH20175_15M_1RB0_QPSK_Below 1G



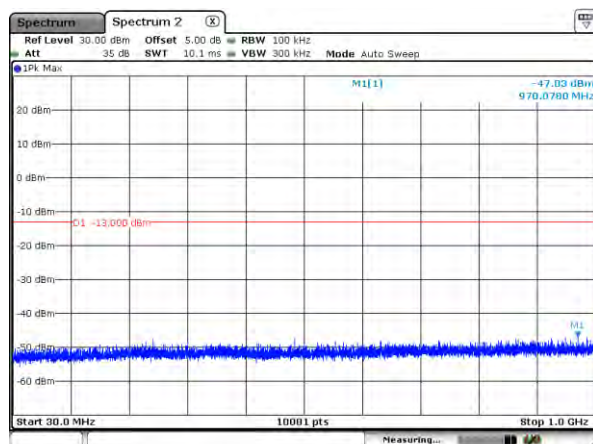
Date: 19 SEP 2018 02:03:51

Band 4_CH20175_15M_1RB0_QPSK_Above 1G



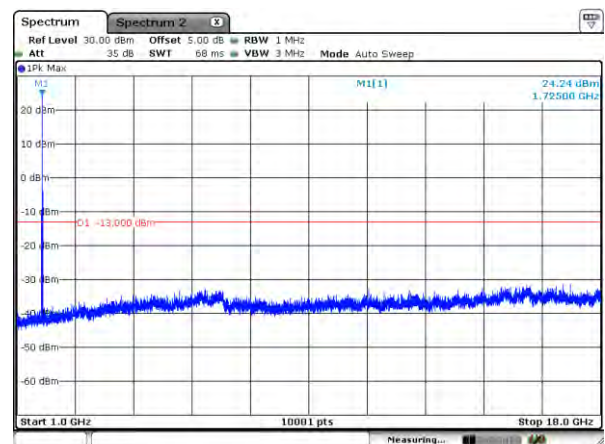
Date: 19 SEP 2018 02:04:09

Band 4_CH20175_20M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 02:20:59

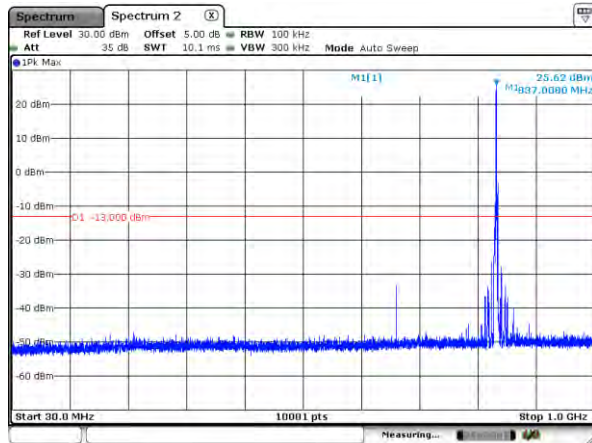
Band 4_CH20175_20M_1RB0_QPSK_Above 1G



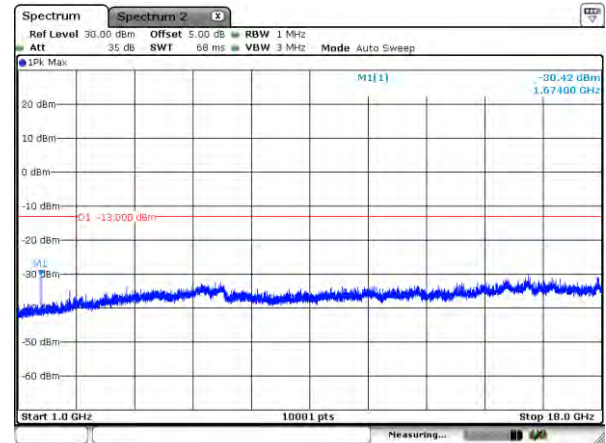
Date: 19 SEP 2018 02:21:12

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

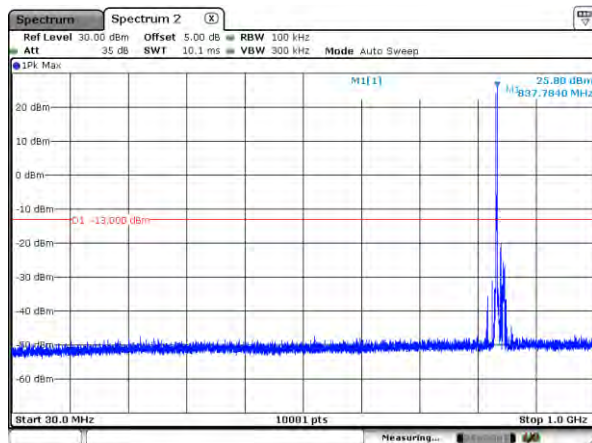
Band 5_CH20525_1.4M_1RB0_QPSK_Below 1G



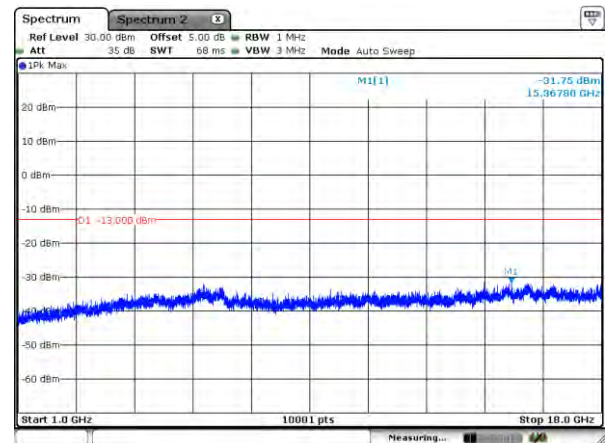
Band 5_CH20525_1.4M_1RB0_QPSK_Above 1G



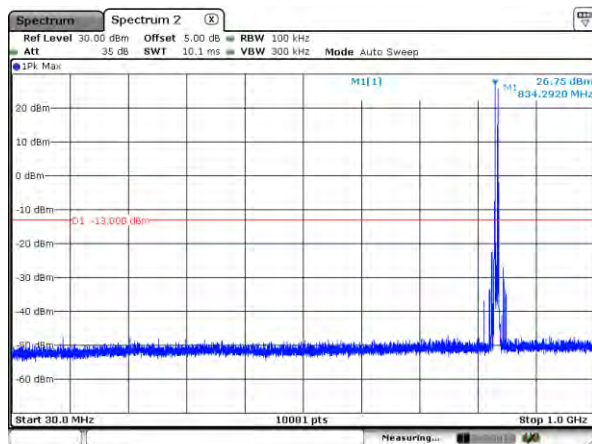
Band 5_CH20525_3M_1RB0_QPSK_Below 1G



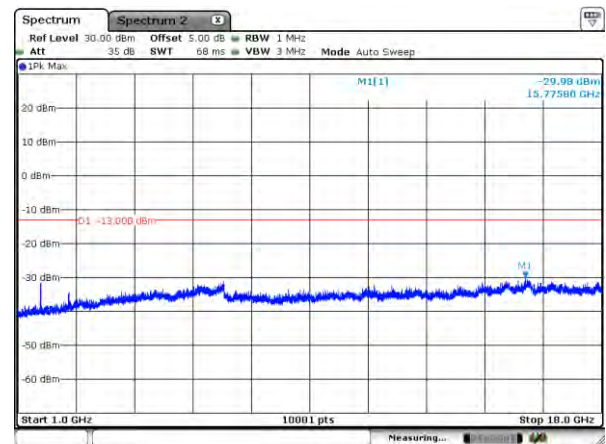
Band 5_CH20525_3M_1RB0_QPSK_Above 1G



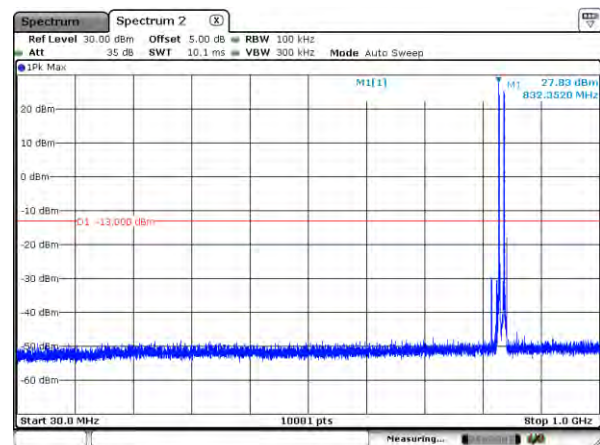
Band 5_CH20525_5M_1RB0_QPSK_Below 1G



Band 5_CH20525_5M_1RB0_QPSK_above 1G

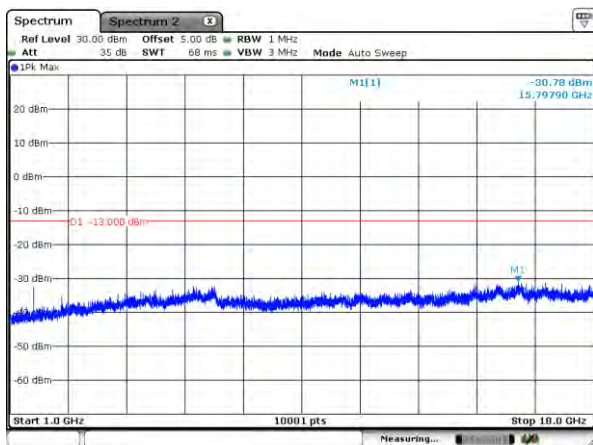


Band 5_CH20525_10M_1RB0_QPSK_Below 1G



Date: 18 SEP 2018 07:28:13

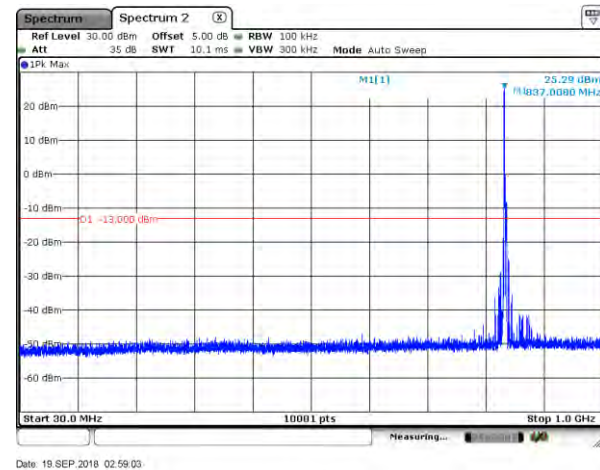
Band 5_CH20525_10M_1RB0_QPSK_above 1G



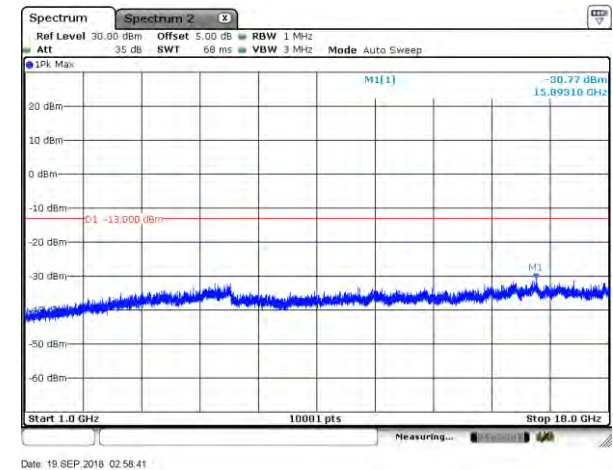
Date: 18 SEP 2018 07:28:47

Product	ME910C1-WW		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/19	Test Site	SR10-H

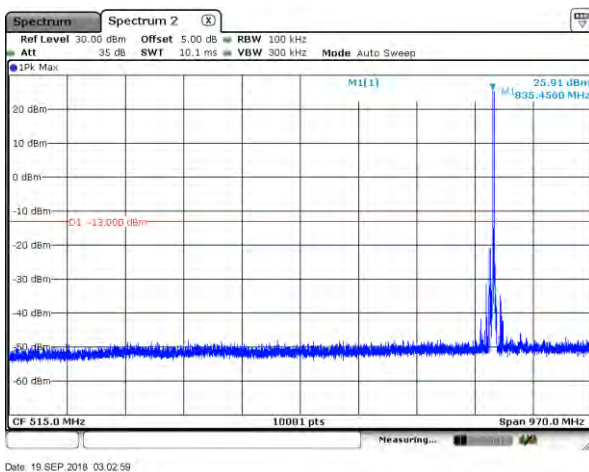
Band 26_CH26865_1.4M_1RB0_QPSK_Below 1G



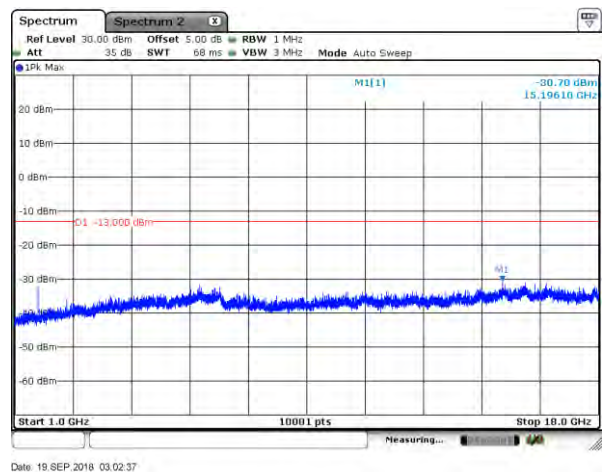
Band 26_CH26865_1.4M_1RB0_QPSK_Above 1G



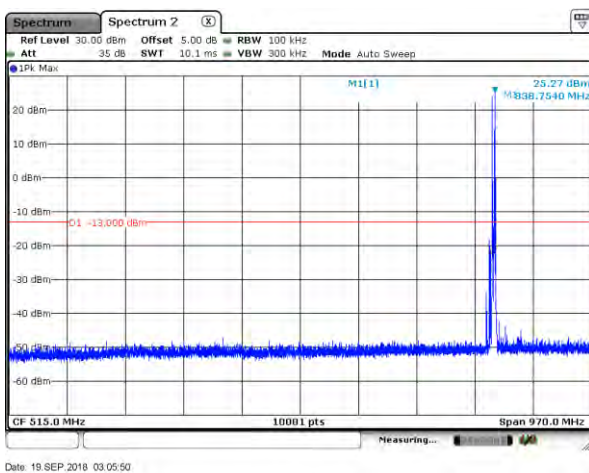
Band 26_CH26865_3M_1RB0_QPSK_Below 1G



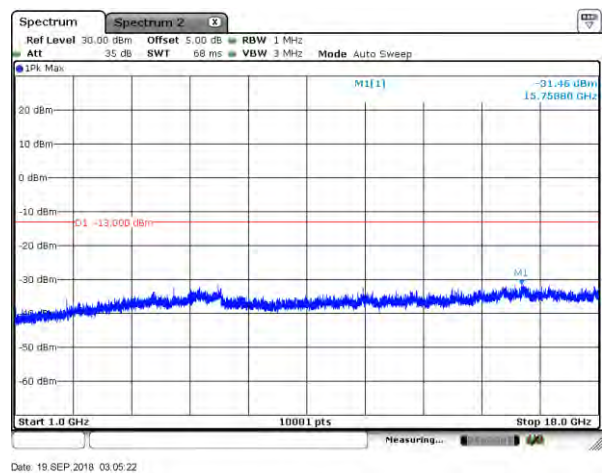
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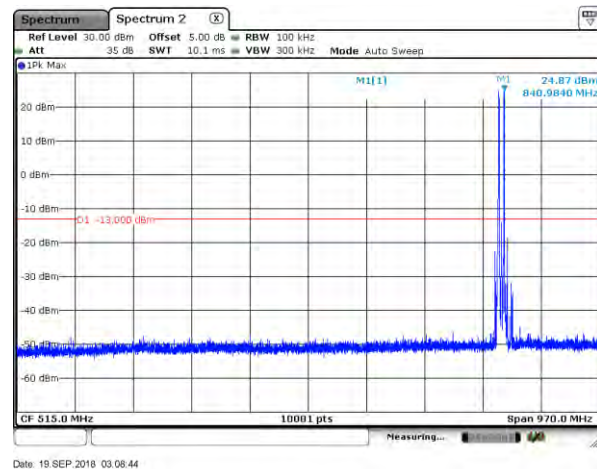
Band 26_CH26865_5M_1RB0_QPSK_Below 1G



Band 26_CH26865_5M_1RB0_QPSK_Above 1G

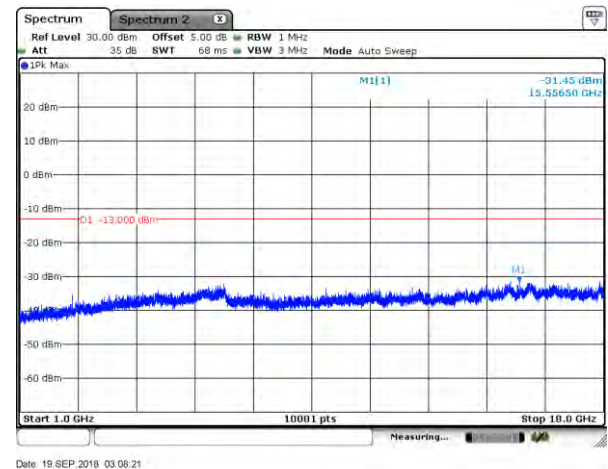


Band 26_CH26865_10M_1RB0_QPSK_Below 1G



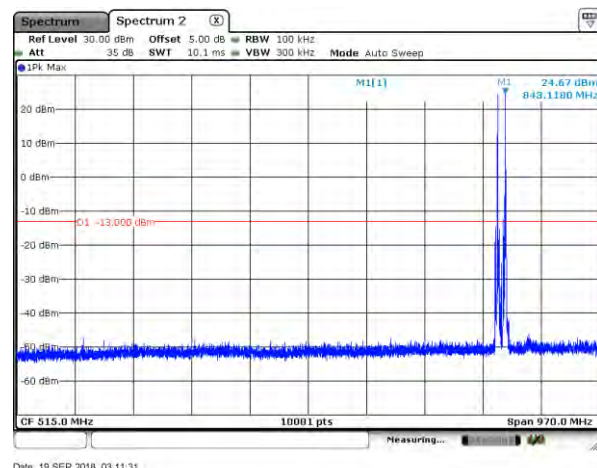
Date: 19 SEP 2018 03:08:44

Band 26_CH26865_10M_1RB0_QPSK_Above 1G



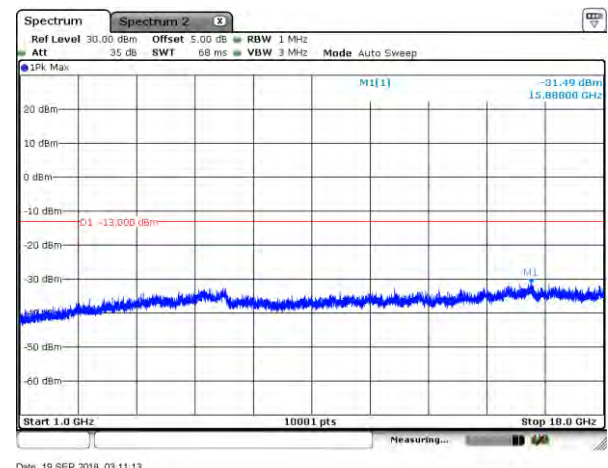
Date: 19 SEP 2018 03:08:21

Band 26_CH26865_15M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 03:11:31

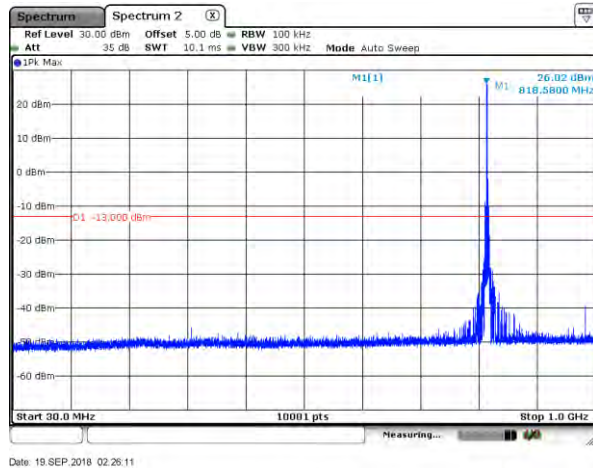
Band 26_CH26865_15M_1RB0_QPSK_Above 1G



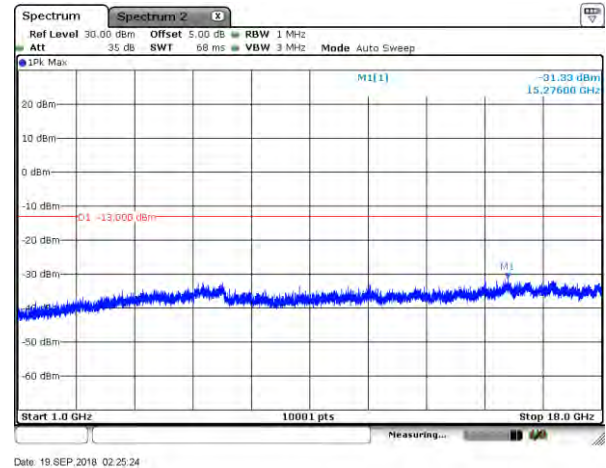
Date: 19 SEP 2018 03:11:13

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

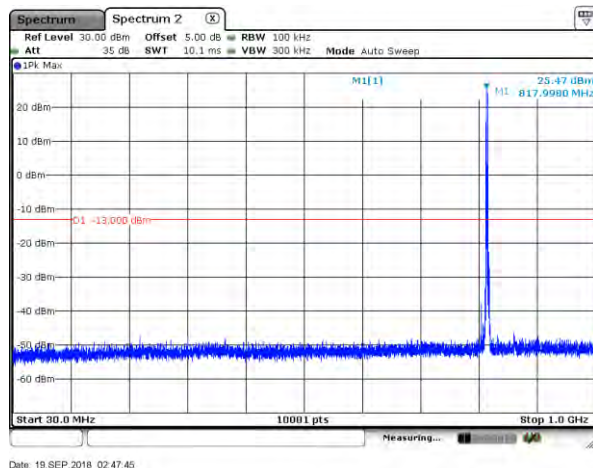
Band 26_CH26740_1.4M_1RB0_QPSK_Below 1G



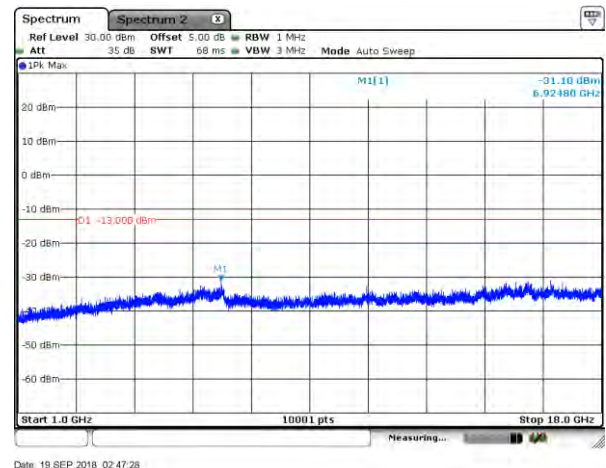
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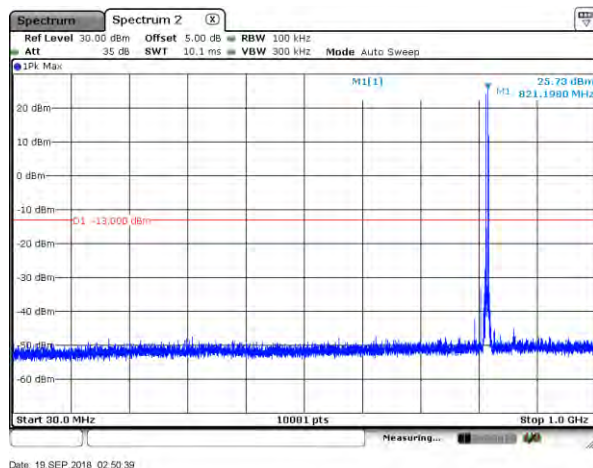
Band 26_CH26740_3M_1RB0_QPSK_Below 1G



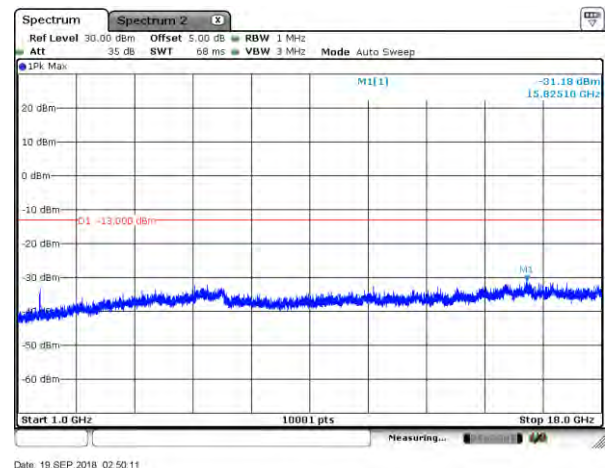
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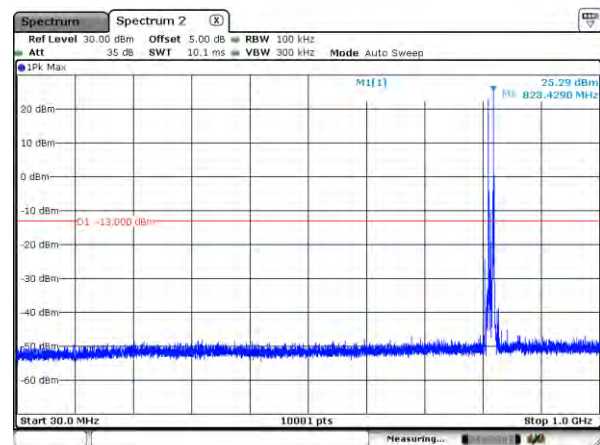
Band 26_CH26740_5M_1RB0_QPSK_Below 1G



Band 26_CH26740_5M_1RB0_QPSK_Above 1G

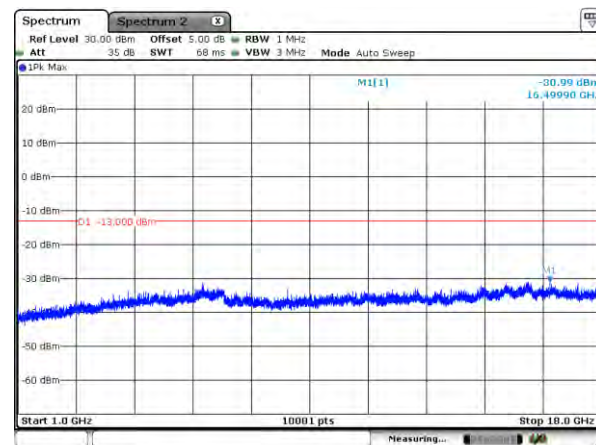


Band 26_CH26720_10M_1RB0_QPSK_Below 1G



Date: 19 SEP 2018 02:53:01

Band 26_CH26720_10M_1RB0_QPSK_Above 1G



Date: 19 SEP 2018 02:52:12

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/12	Test Site	CB4-H

Cat M1_Band 2_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-66.150	H	-66.127	4.335	11.832	-58.630	-13	-45.630
5640.00	-54.240	H	-52.175	5.235	12.900	-44.510	-13	-31.510
3760.00	-66.370	V	-65.557	4.335	11.832	-58.060	-13	-45.060
5640.00	-51.660	V	-49.745	5.235	12.900	-42.080	-13	-29.080

Cat M1_Band 2_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-66.210	H	-66.187	4.335	11.832	-58.690	-13	-45.690
5640.00	-53.000	H	-50.935	5.235	12.900	-43.270	-13	-30.270
3760.00	-66.210	V	-65.397	4.335	11.832	-57.900	-13	-44.900
5640.00	-53.010	V	-51.095	5.235	12.900	-43.430	-13	-30.430

Cat M1_Band 2_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-65.310	H	-65.287	4.335	11.832	-57.790	-13	-44.790
5640.00	-54.940	H	-52.875	5.235	12.900	-45.210	-13	-32.210
3760.00	-64.020	V	-63.207	4.335	11.832	-55.710	-13	-42.710
5640.00	-53.110	V	-51.195	5.235	12.900	-43.530	-13	-30.530

Cat M1_Band 2_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-66.150	H	-66.127	4.335	11.832	-58.630	-13	-45.630
5640.00	-56.150	H	-54.085	5.235	12.900	-46.420	-13	-33.420
3760.00	-66.290	V	-65.477	4.335	11.832	-57.980	-13	-44.980
5640.00	-53.140	V	-51.225	5.235	12.900	-43.560	-13	-30.560

Cat M1_Band 2_QPSK_15M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3760.00	-64.650	H	-64.627	4.335	11.832	-57.130	-13	-44.130
5640.00	-59.060	H	-56.995	5.235	12.900	-49.330	-13	-36.330
3760.00	-65.730	V	-64.917	4.335	11.832	-57.420	-13	-44.420
5640.00	-54.960	V	-53.045	5.235	12.900	-45.380	-13	-32.380

Cat M1_Band 2_QPSK_20M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 18900 (1880MHz)								
3720.00	-66.160	H	-66.314	4.300	11.904	-58.710	-13	-45.710
5580.00	-64.630	H	-62.818	5.212	12.900	-55.130	-13	-42.130
3720.00	-65.410	V	-64.764	4.300	11.904	-57.160	-13	-44.160
5580.00	-54.570	V	-52.908	5.212	12.900	-45.220	-13	-32.220

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/14	Test Site	CB4-H

Cat M1_Band 4_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-61.500	H	-58.889	4.090	12.209	-50.770	-13	-37.770
5197.50	-67.430	H	-60.342	5.094	12.356	-53.080	-13	-40.080
3465.00	-60.780	V	-58.399	4.090	12.209	-50.280	-13	-37.280
5197.50	-60.380	V	-53.842	5.094	12.356	-46.580	-13	-33.580

Cat M1_Band 4_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-62.890	H	-60.279	4.090	12.209	-52.160	-13	-39.160
5197.50	-64.900	H	-57.812	5.094	12.356	-50.550	-13	-37.550
3465.00	-62.220	V	-59.839	4.090	12.209	-51.720	-13	-38.720
5197.50	-65.310	V	-58.772	5.094	12.356	-51.510	-13	-38.510

Cat M1_Band 4_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-64.420	H	-61.809	4.090	12.209	-53.690	-13	-40.690
5197.50	-65.820	H	-58.732	5.094	12.356	-51.470	-13	-38.470
3465.00	-60.330	V	-57.949	4.090	12.209	-49.830	-13	-36.830
5197.50	-58.980	V	-52.442	5.094	12.356	-45.180	-13	-32.180

Cat M1_Band 4_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-61.770	H	-59.159	4.090	12.209	-51.040	-13	-38.040
5197.50	-65.020	H	-57.932	5.094	12.356	-50.670	-13	-37.670
3465.00	-60.720	V	-58.339	4.090	12.209	-50.220	-13	-37.220
5197.50	-61.630	V	-55.092	5.094	12.356	-47.830	-13	-34.830

Cat M1_Band 4_QPSK_15M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-62.270	H	-59.659	4.090	12.209	-51.540	-13	-38.540
5197.50	-65.100	H	-58.012	5.094	12.356	-50.750	-13	-37.750
3465.00	-60.720	V	-58.339	4.090	12.209	-50.220	-13	-37.220
5197.50	-61.390	V	-54.852	5.094	12.356	-47.590	-13	-34.590

Cat M1_Band 4_QPSK_20M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20175 (1732.5MHz)								
3465.00	-62.770	H	-60.159	4.090	12.209	-52.040	-13	-39.040
5197.50	-64.810	H	-57.722	5.094	12.356	-50.460	-13	-37.460
3465.00	-61.660	V	-59.279	4.090	12.209	-51.160	-13	-38.160
5197.50	-59.640	V	-53.102	5.094	12.356	-45.840	-13	-32.840

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/09/15	Test Site	CB4-H

Cat M1_Band 5_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-56.170	H	-56.547	2.812	8.819	-50.540	-13	-37.540
2509.50	-68.750	H	-68.615	3.463	10.608	-61.470	-13	-48.470
1673.00	-52.400	V	-52.757	2.812	8.819	-46.750	-13	-33.750
2509.50	-68.670	V	-68.635	3.463	10.608	-61.490	-13	-48.490

Cat M1_Band 5_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-54.990	H	-55.367	2.812	8.819	-49.360	-13	-36.360
2509.50	-68.620	H	-68.485	3.463	10.608	-61.340	-13	-48.340
1673.00	-51.320	V	-51.677	2.812	8.819	-45.670	-13	-32.670
2509.50	-68.210	V	-68.175	3.463	10.608	-61.030	-13	-48.030

Cat M1_Band 5_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-55.200	H	-55.577	2.812	8.819	-49.570	-13	-36.570
2509.50	-68.770	H	-68.635	3.463	10.608	-61.490	-13	-48.490
1673.00	-51.510	V	-51.867	2.812	8.819	-45.860	-13	-32.860
2509.50	-68.910	V	-68.875	3.463	10.608	-61.730	-13	-48.730

Cat M1_Band 5_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 20525 (836.5MHz)								
1673.00	-55.390	H	-55.767	2.812	8.819	-49.760	-13	-36.760
2509.50	-68.520	H	-68.385	3.463	10.608	-61.240	-13	-48.240
1673.00	-51.200	V	-51.557	2.812	8.819	-45.550	-13	-32.550
2509.50	-67.890	V	-67.855	3.463	10.608	-60.710	-13	-47.710

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/18	Test Site	CB4-H

Cat M1_Band 26_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.490	H	-54.867	2.812	8.819	-48.860	-13	-35.860
2509.50	-69.240	H	-69.105	3.463	10.608	-61.960	-13	-48.960
1673.00	-51.150	V	-51.507	2.812	8.819	-45.500	-13	-32.500
2509.50	-68.000	V	-67.965	3.463	10.608	-60.820	-13	-47.820

Cat M1_Band 26_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.200	H	-54.577	2.812	8.819	-48.570	-13	-35.570
2509.50	-68.740	H	-68.605	3.463	10.608	-61.460	-13	-48.460
1673.00	-51.540	V	-51.897	2.812	8.819	-45.890	-13	-32.890
2509.50	-67.620	V	-67.585	3.463	10.608	-60.440	-13	-47.440

Cat M1_Band 26_QPSK_5M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.350	H	-54.727	2.812	8.819	-48.720	-13	-35.720
2509.50	-69.020	H	-68.885	3.463	10.608	-61.740	-13	-48.740
1673.00	-51.700	V	-52.057	2.812	8.819	-46.050	-13	-33.050
2509.50	-69.040	V	-69.005	3.463	10.608	-61.860	-13	-48.860

Cat M1_Band 26_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.350	H	-54.727	2.812	8.819	-48.720	-13	-35.720
2509.50	-68.770	H	-68.635	3.463	10.608	-61.490	-13	-48.490
1673.00	-51.390	V	-51.747	2.812	8.819	-45.740	-13	-32.740
2509.50	-67.560	V	-67.525	3.463	10.608	-60.380	-13	-47.380

Cat M1_Band 26_QPSK_15M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26915 (836.5MHz)								
1673.00	-54.980	H	-55.357	2.812	8.819	-49.350	-13	-36.350
2509.50	-68.800	H	-68.665	3.463	10.608	-61.520	-13	-48.520
1673.00	-51.570	V	-51.927	2.812	8.819	-45.920	-13	-32.920
2509.50	-67.610	V	-67.575	3.463	10.608	-60.430	-13	-47.430

Product	ME910C1-WW		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/15	Test Site	CB4-H

Cat M1_Band 26_QPSK_1.4M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26740 (819MHz)								
1638.00	-55.880	H	-56.223	2.781	8.714	-50.290	-13	-37.290
2457.00	-68.590	H	-68.555	3.426	10.531	-61.450	-13	-48.450
1638.00	-55.210	V	-55.533	2.781	8.714	-49.600	-13	-36.600
2457.00	-68.700	V	-68.755	3.426	10.531	-61.650	-13	-48.650

Cat M1_Band 26_QPSK_3M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26740 (819MHz)								
1638.00	-54.750	H	-55.093	2.781	8.714	-49.160	-13	-36.160
2457.00	-67.650	H	-67.615	3.426	10.531	-60.510	-13	-47.510
1638.00	-51.530	V	-51.853	2.781	8.714	-45.920	-13	-32.920
2457.00	-67.530	V	-67.585	3.426	10.531	-60.480	-13	-47.480

Cat M1_Band 26_QPSK_5M_Link_1RB0

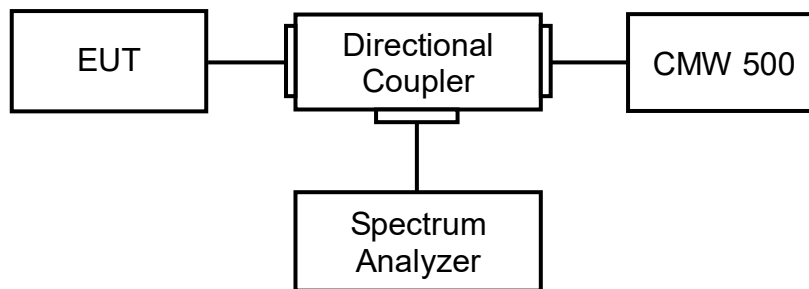
Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26740 (819MHz)								
1638.00	-54.340	H	-54.683	2.781	8.714	-48.750	-13	-35.750
2457.00	-68.490	H	-68.455	3.426	10.531	-61.350	-13	-48.350
1638.00	-51.380	V	-51.703	2.781	8.714	-45.770	-13	-32.770
2457.00	-67.180	V	-67.235	3.426	10.531	-60.130	-13	-47.130

Cat M1_Band 26_QPSK_10M_Link_1RB0

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 26720 (819MHz)								
1638.00	-54.860	H	-55.203	2.781	8.714	-49.270	-13	-36.270
2457.00	-69.170	H	-69.135	3.426	10.531	-62.030	-13	-49.030
1638.00	-51.250	V	-51.573	2.781	8.714	-45.640	-13	-32.640
2457.00	-67.900	V	-67.955	3.426	10.531	-60.850	-13	-47.850

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 Coupler.
- 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

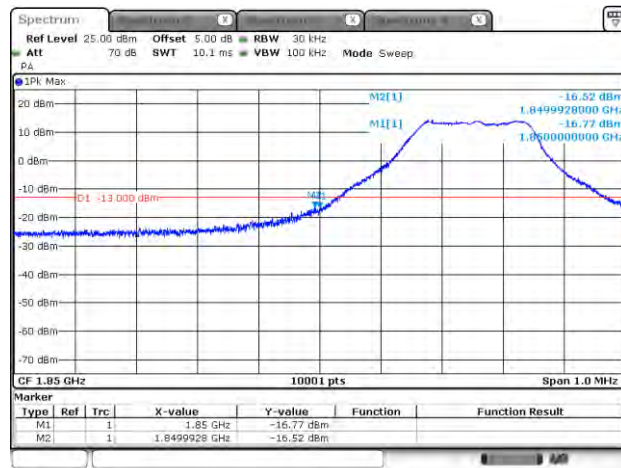
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1

ANSI C63.26: 2015 Sub-clause 5.7

7.4. Test Result

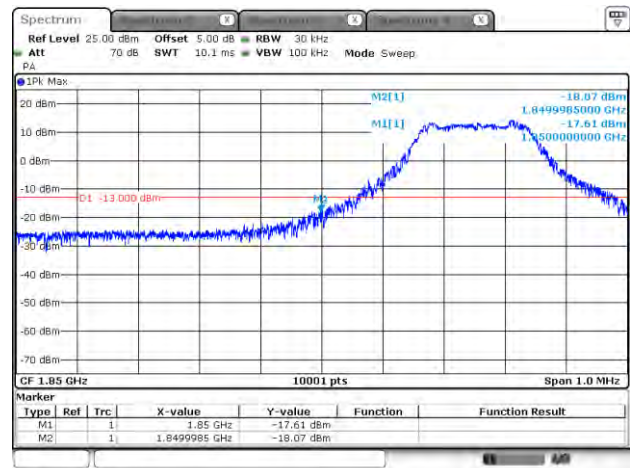
Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2018/09/17	Test Site	SR10-H

Cat M1_Band 2_CH18607_1.4M_QPSK_1RB0



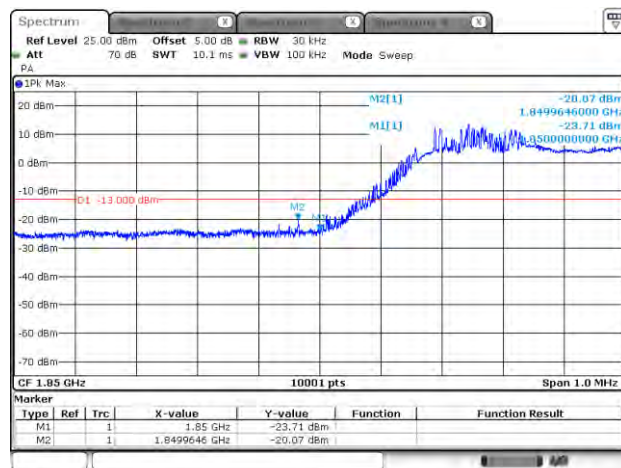
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Cat M1_Band 2_CH18607_1.4M_16-QAM_1RB0



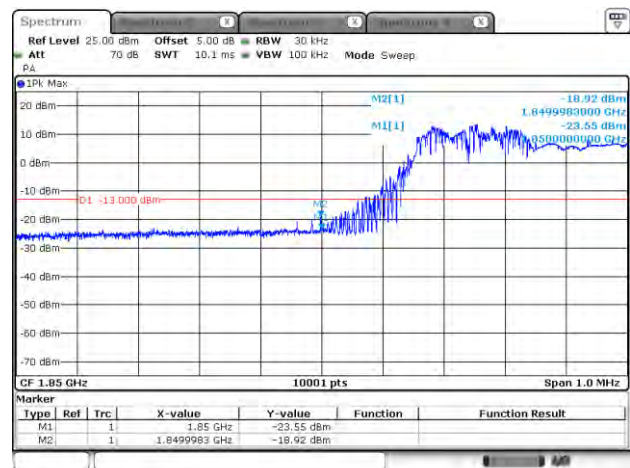
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Cat M1_Band 2_CH18607_1.4M_QPSK_6RB0



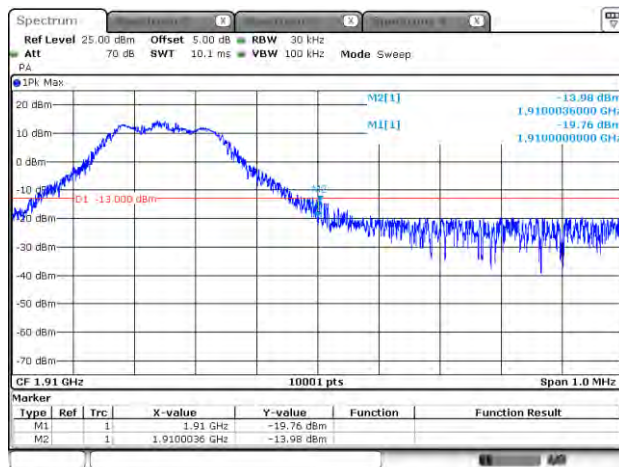
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Cat M1_Band 2_CH18607_1.4M_16-QAM_5RB1



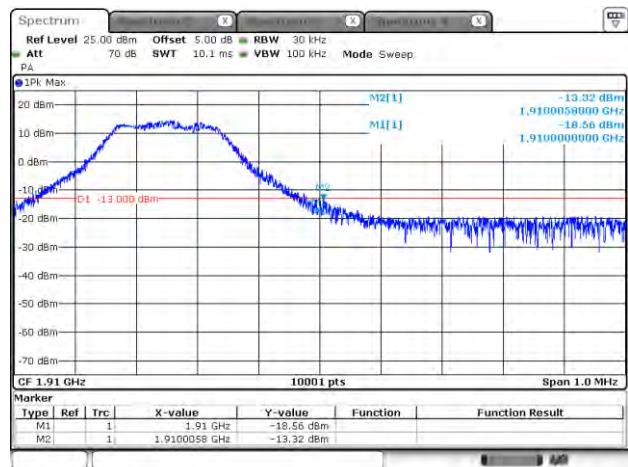
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Cat M1_Band 2_CH19193_1.4M_QPSK_1RB0



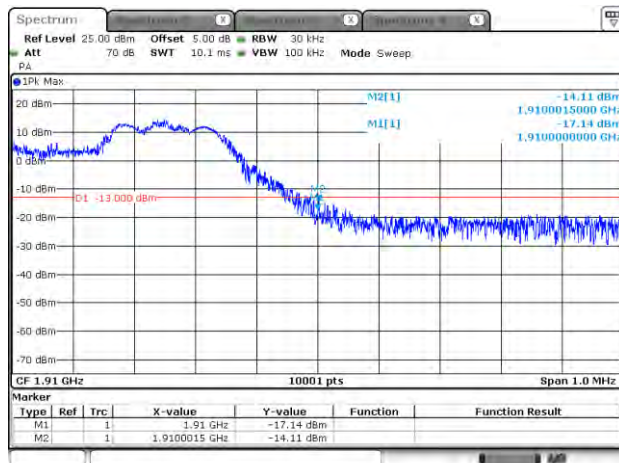
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Cat M1_Band 2_CH19193_1.4M_16-QAM_1RB5



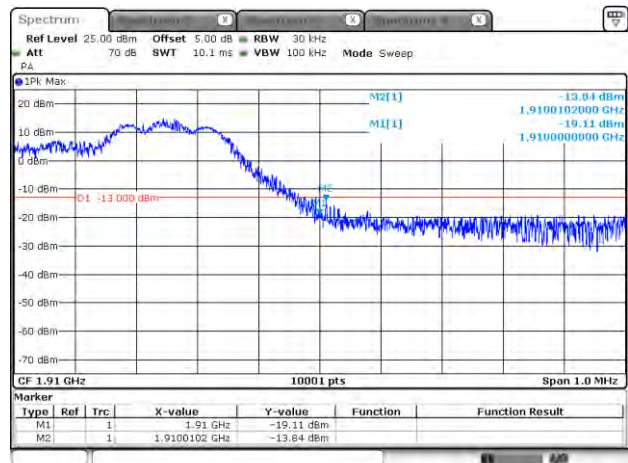
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Cat M1_Band 2_CH19193_1.4M_QPSK_6RB0



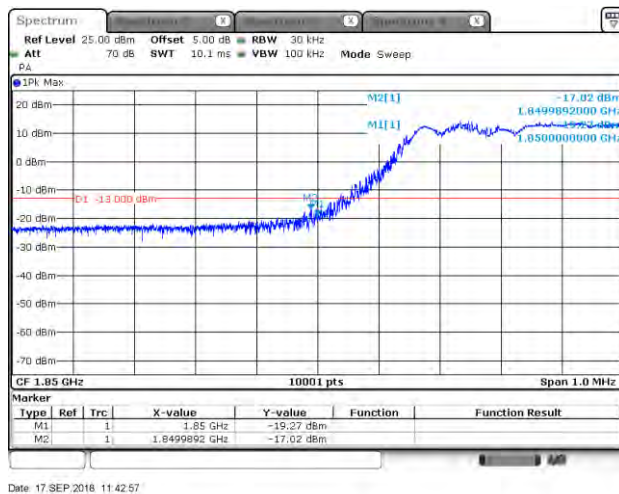
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Cat M1_Band 2_CH19193_1.4M_16-QAM_5RB1

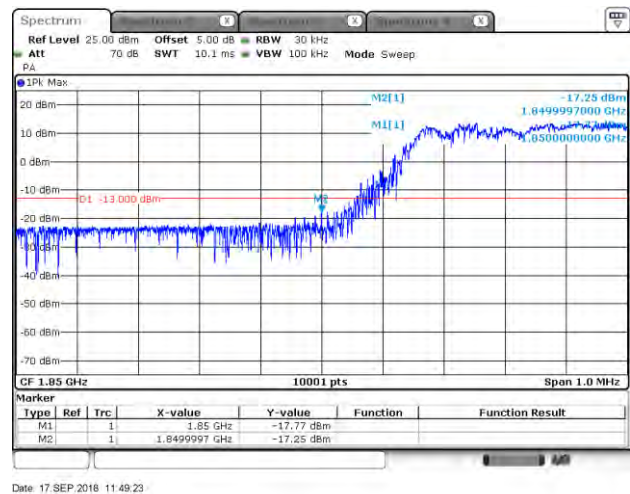


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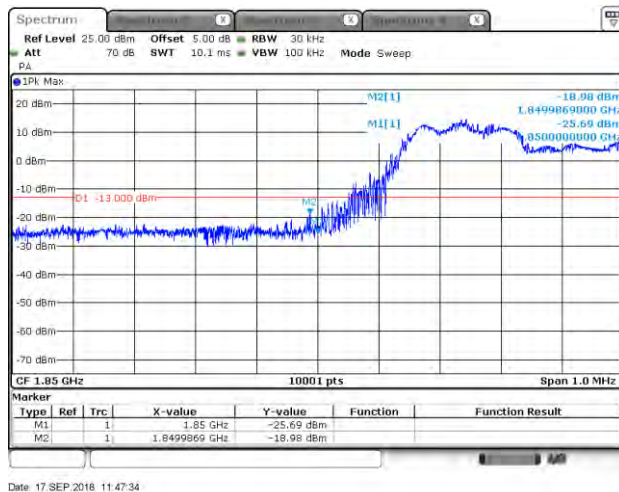
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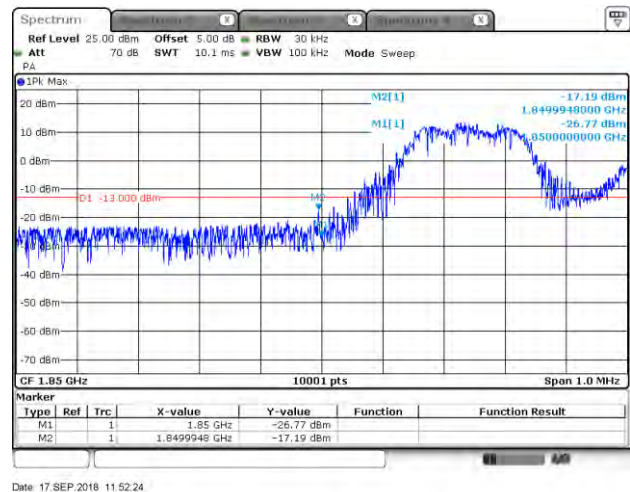
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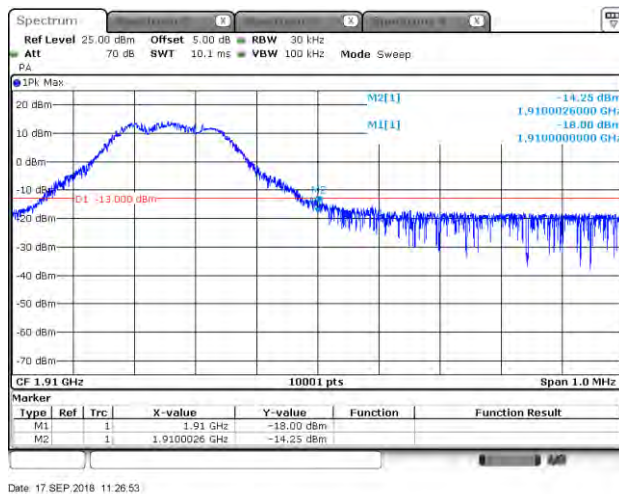
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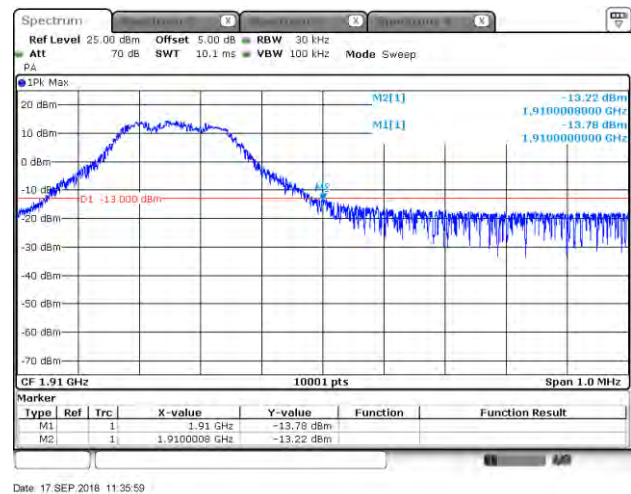
Cat M1_Band 2_CH18615_3M_16-QAM_5RB1



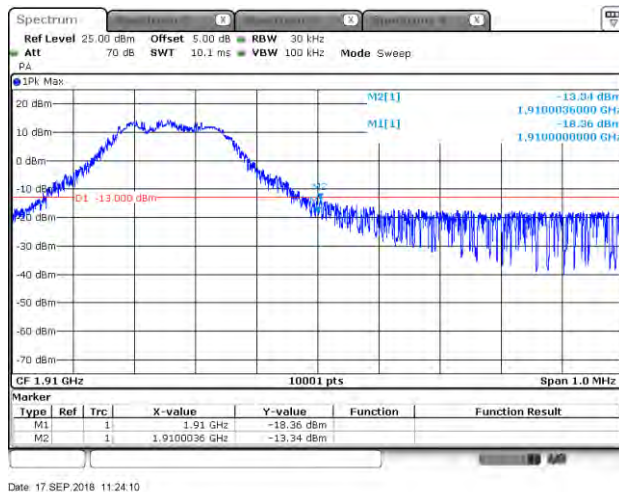
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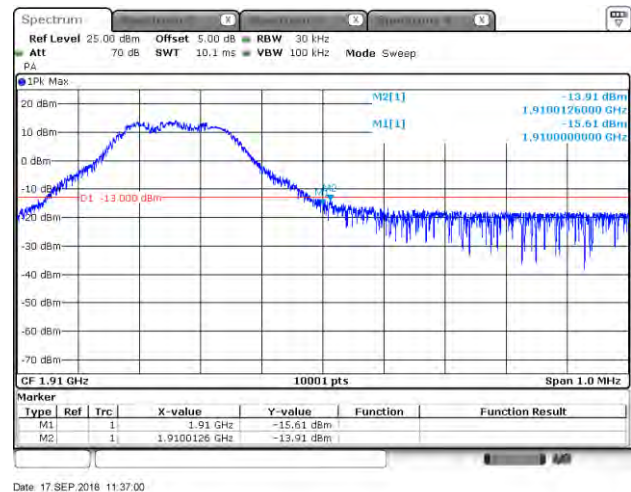
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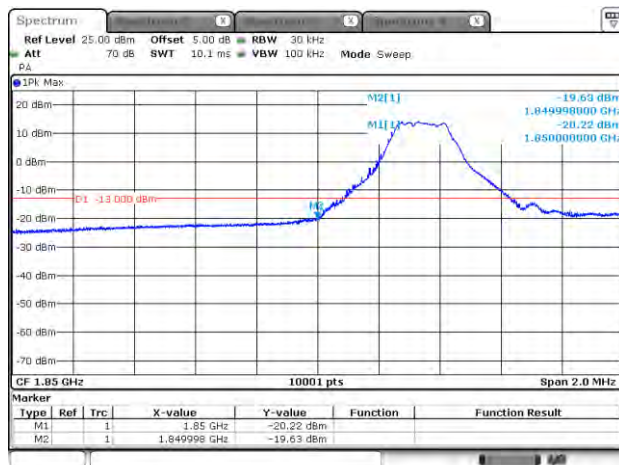
Cat M1_Band 2_CH19185_3M_QPSK_6RB0



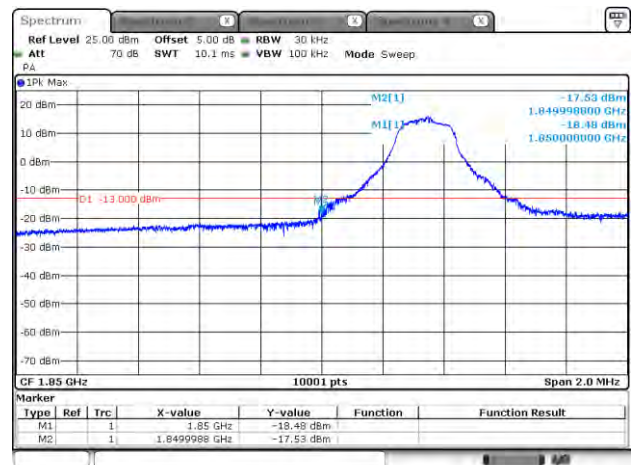
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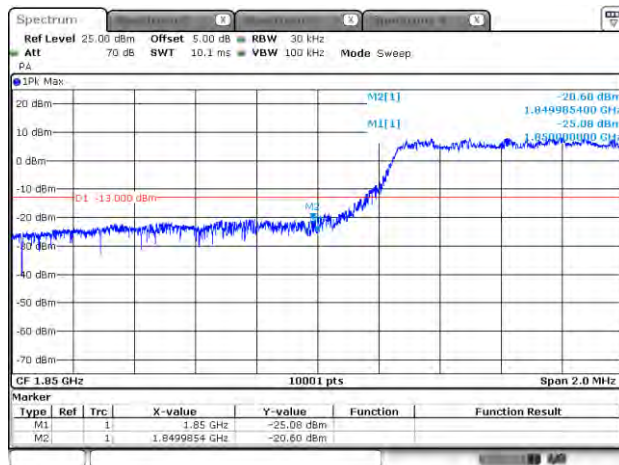
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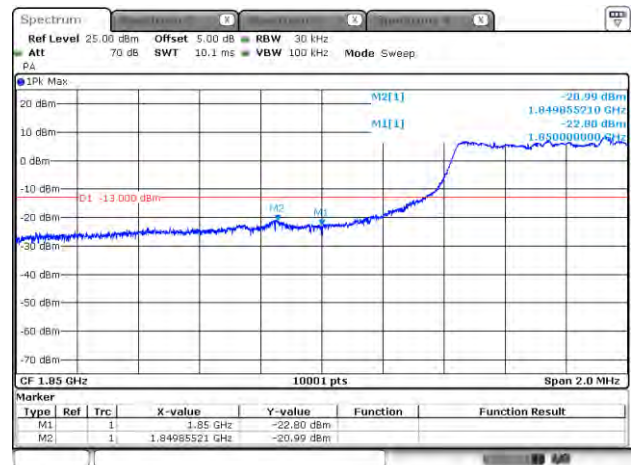
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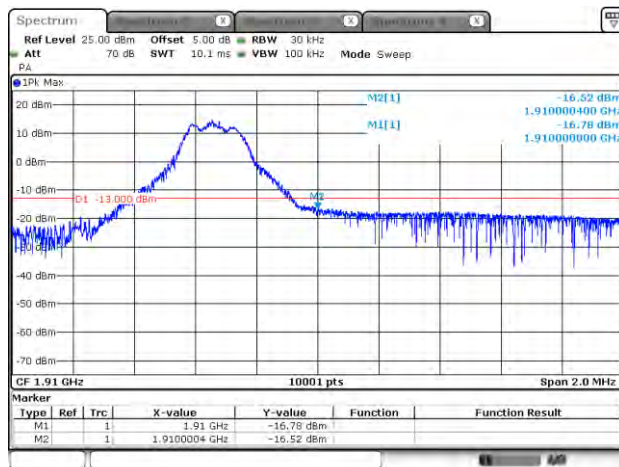
Cat M1_Band 2_CH18625_5M_QPSK_6RB0



Cat M1_Band 2_CH18625_5M_16-QAM_5RB1

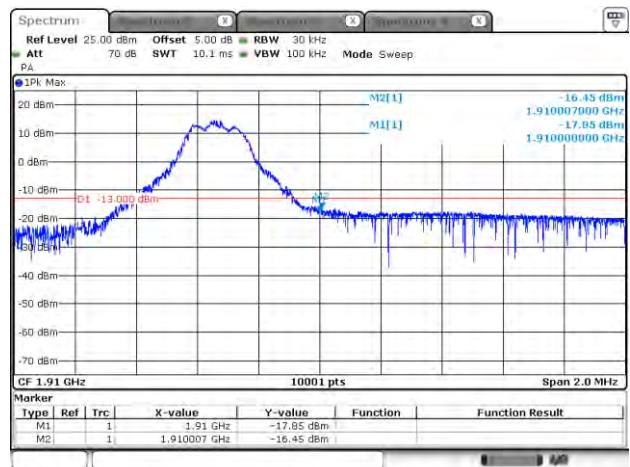


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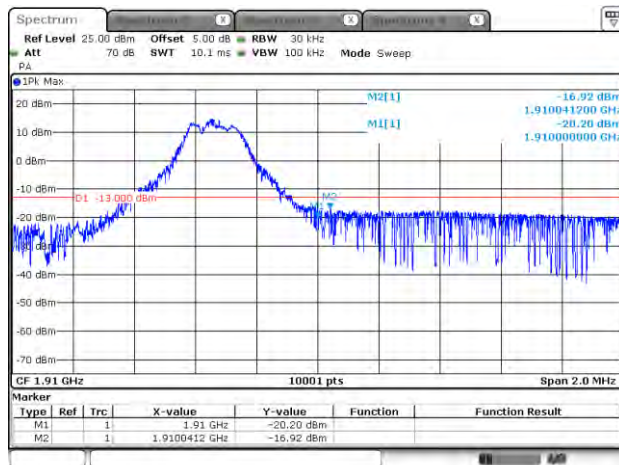
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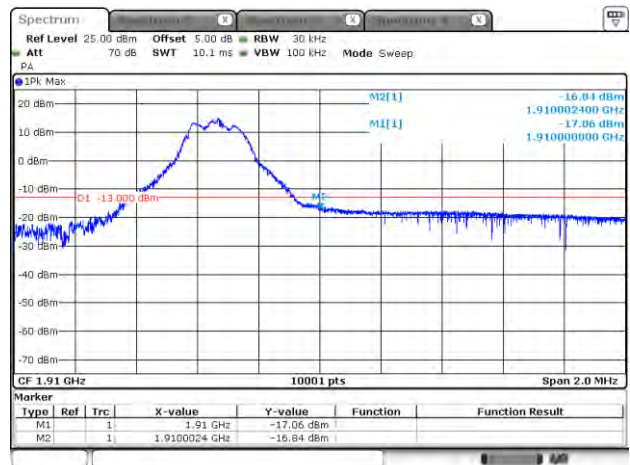
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Cat M1_Band 2_CH19175_5M_QPSK_6RB0



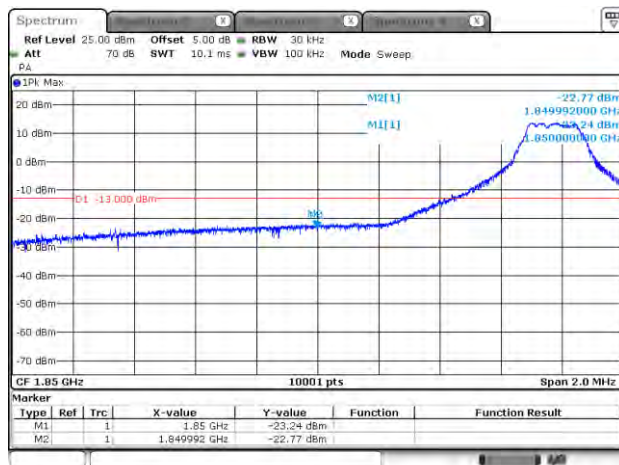
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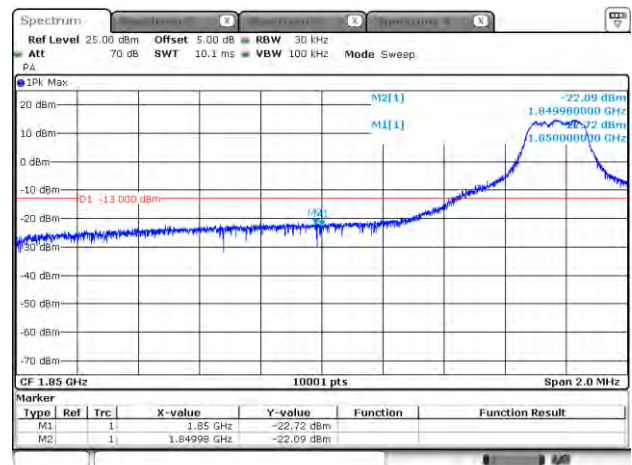


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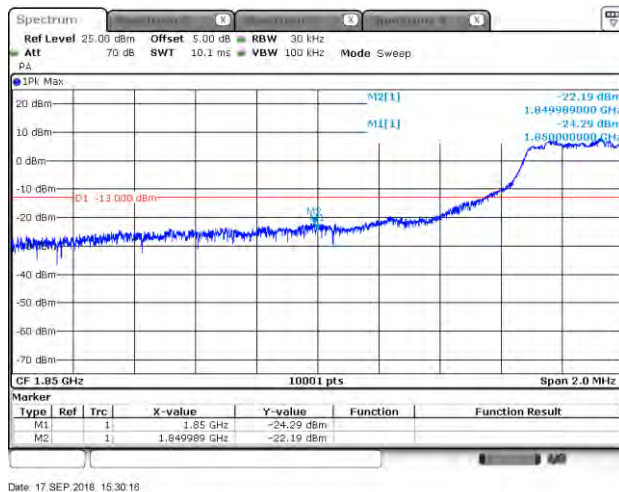
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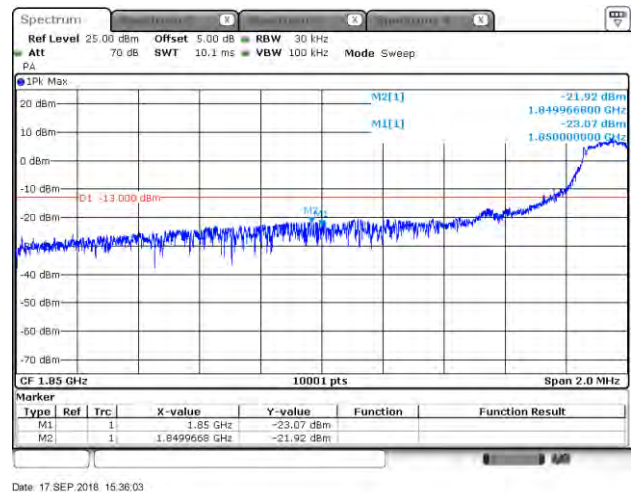
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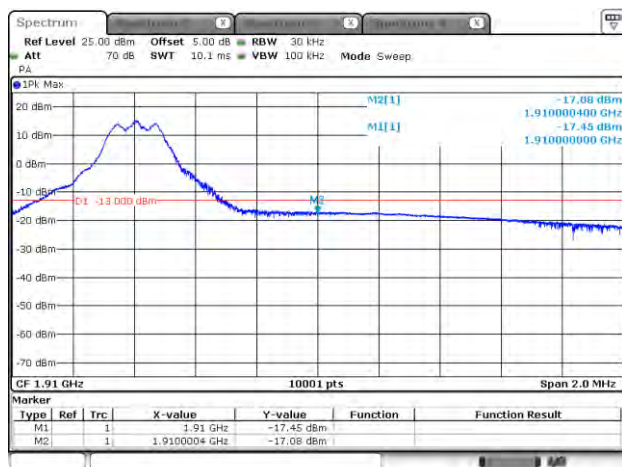
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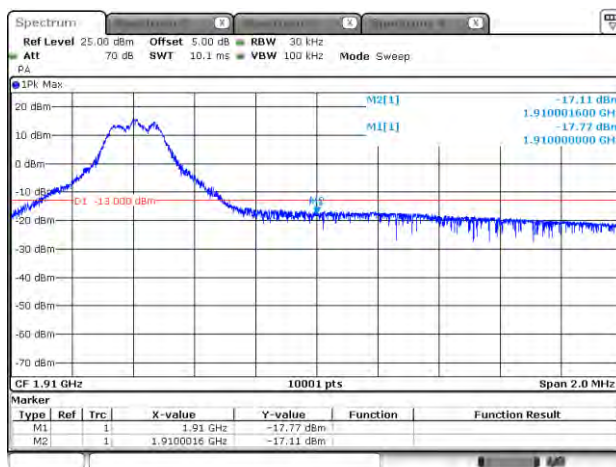


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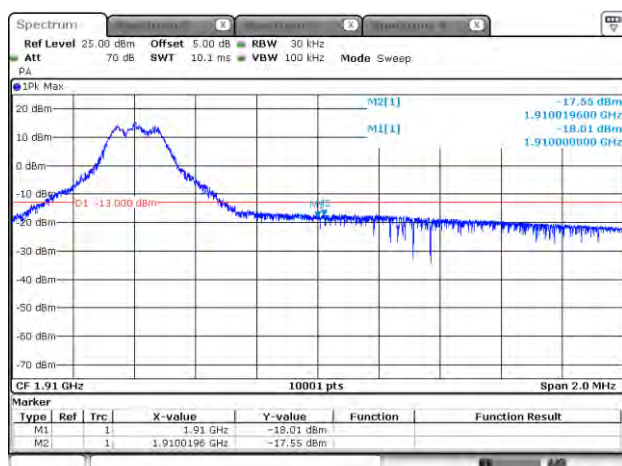
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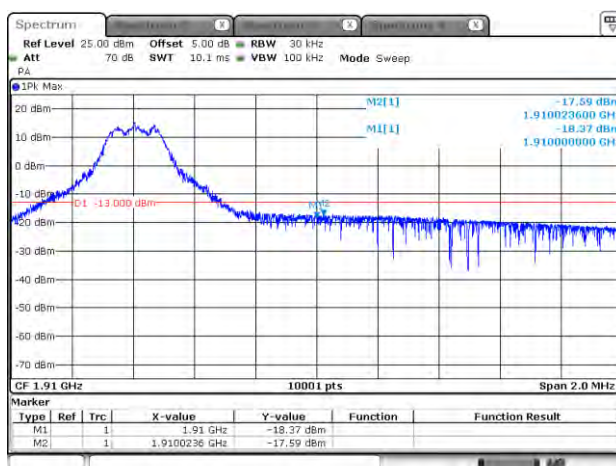
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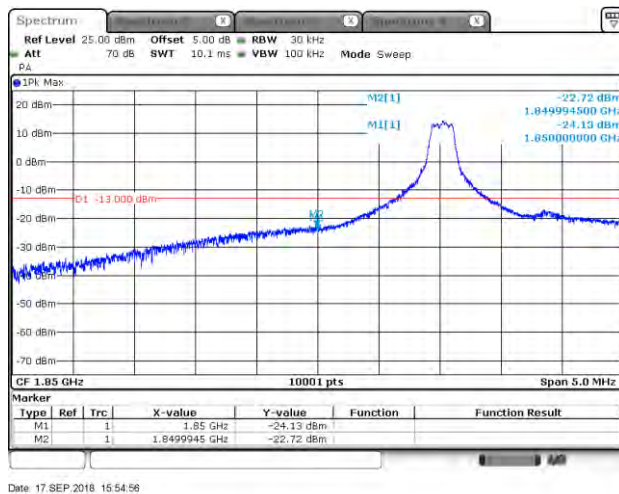
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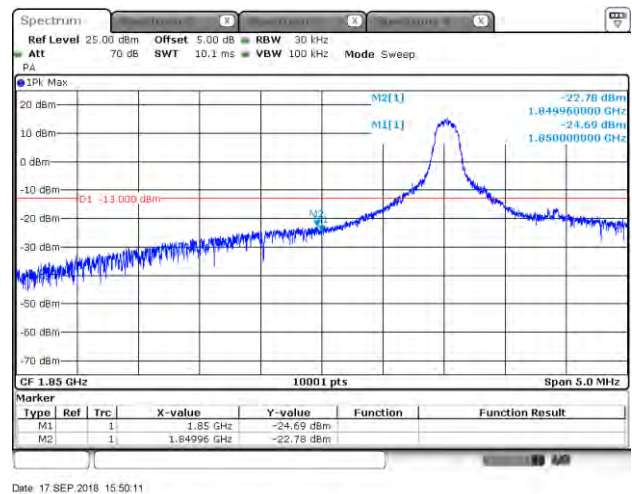


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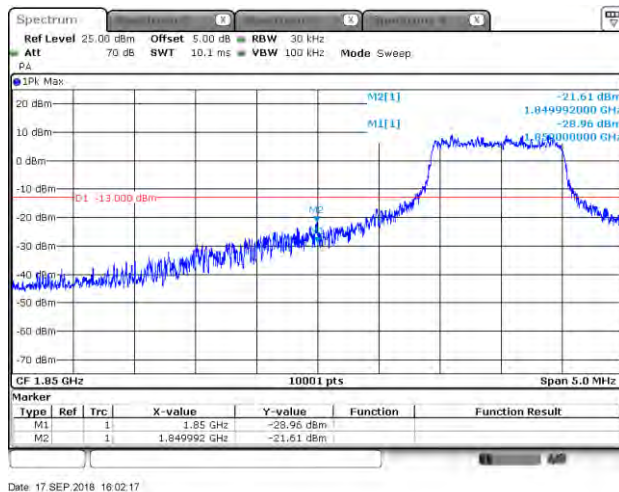
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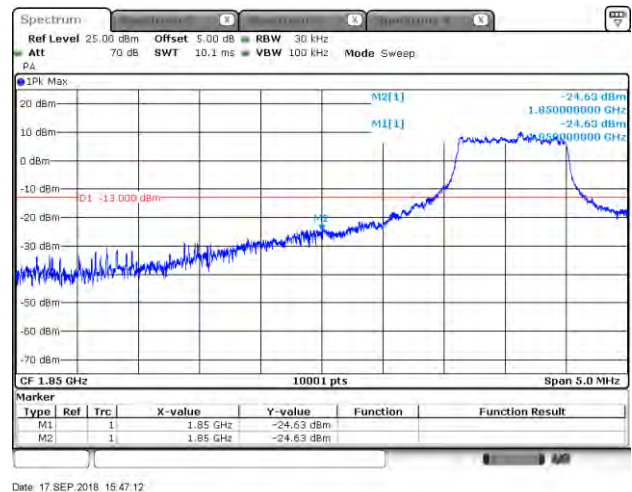
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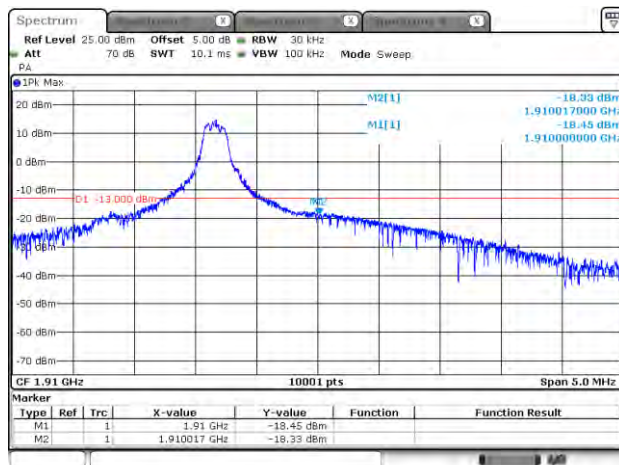
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Cat M1_Band 2_CH18675_15M_16-QAM_5RB1

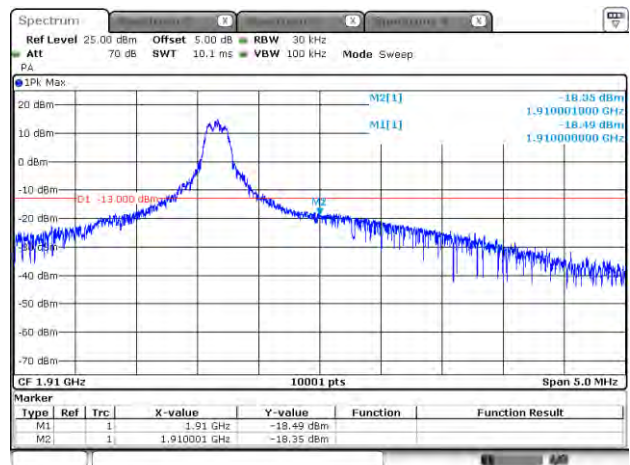


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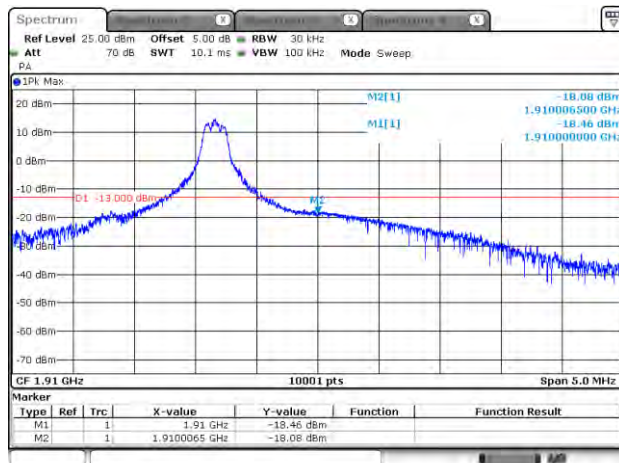
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Cat M1_Band 2_CH19125_15M_16-QAM_1RB5



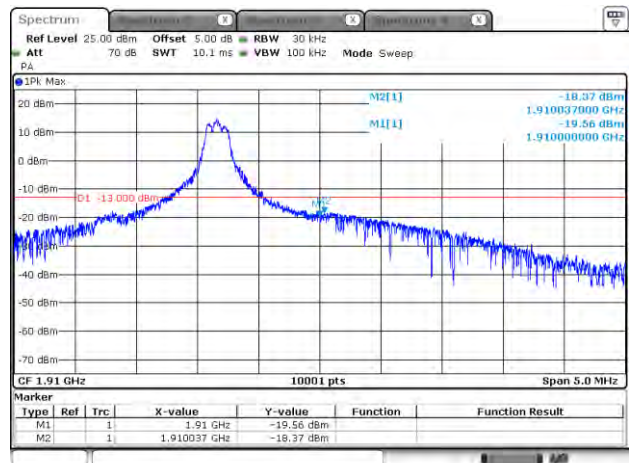
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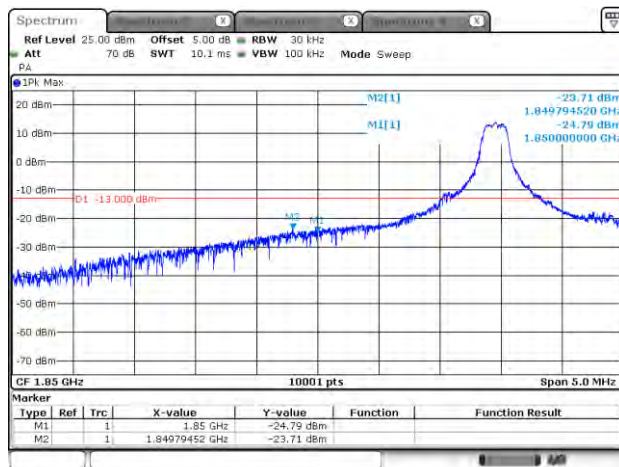
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Cat M1_Band 2_CH19125_15M_16-QAM_5RB1

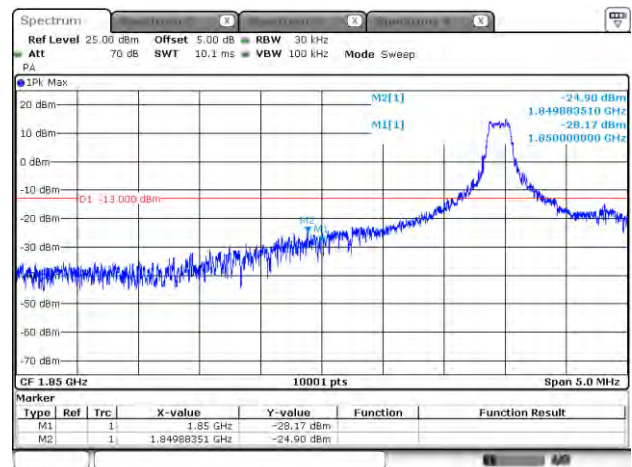


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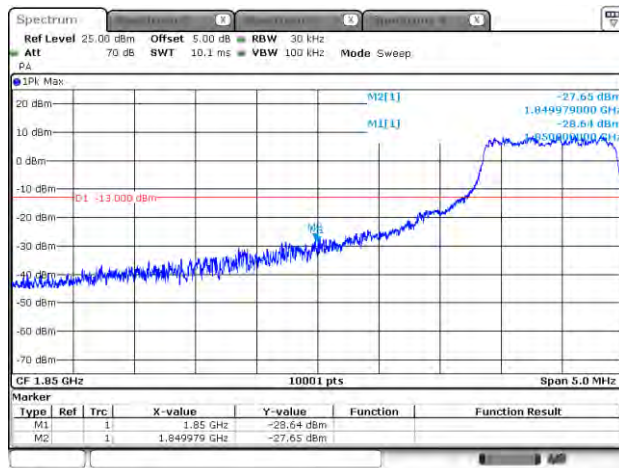
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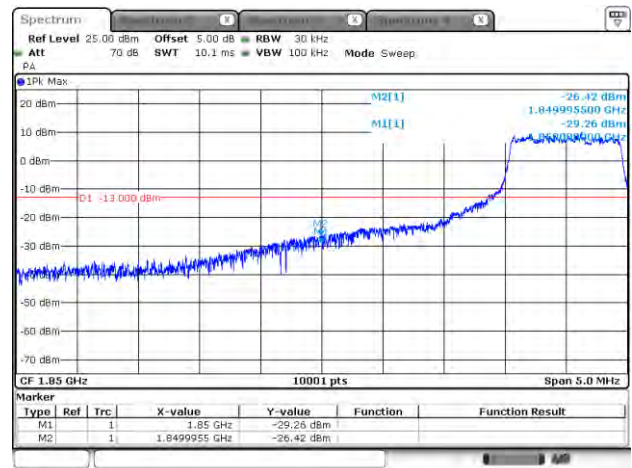
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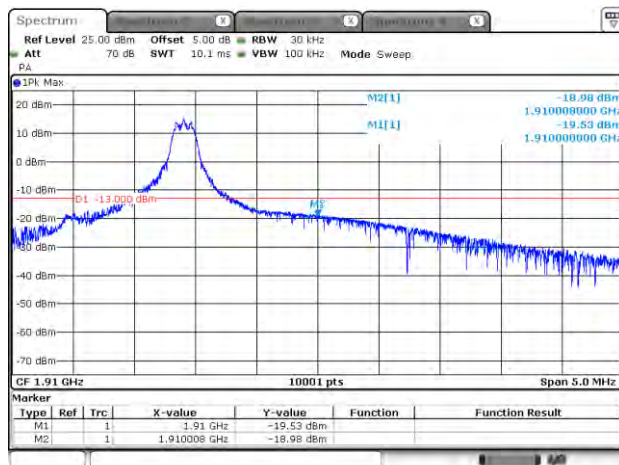
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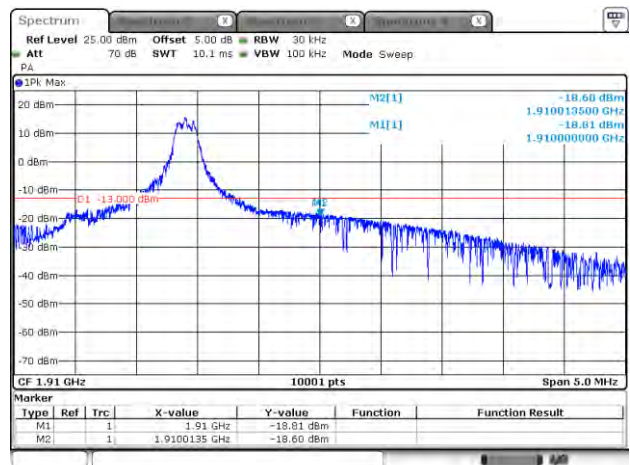


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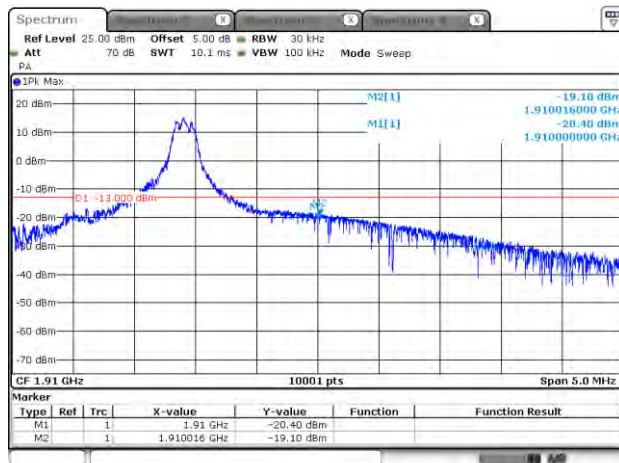
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Cat M1_Band 2_CH19100_20M_16-QAM_1RB5



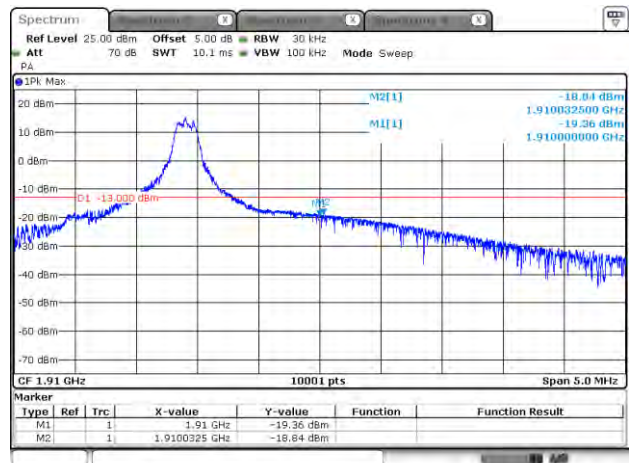
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Cat M1_Band 2_CH19100_20M_QPSK_6RB0



Date: 17 SEP 2016 16:35:28

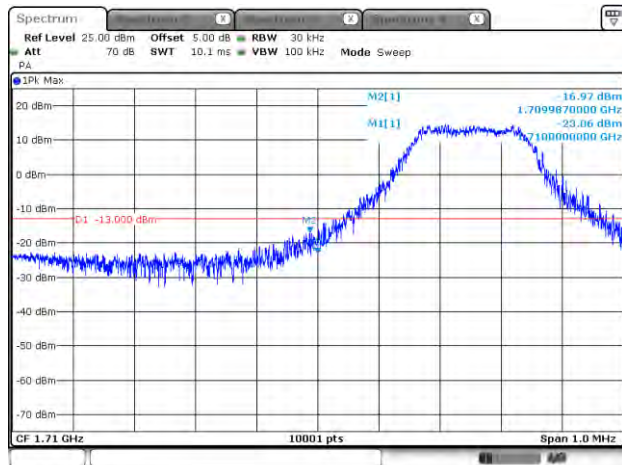
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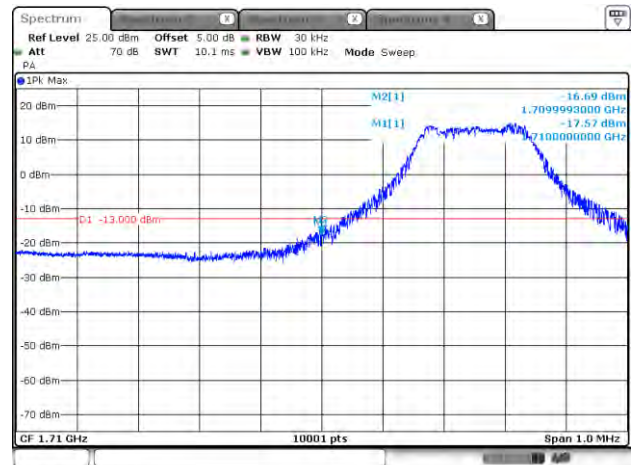
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Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/09/17	Test Site	SR10-H

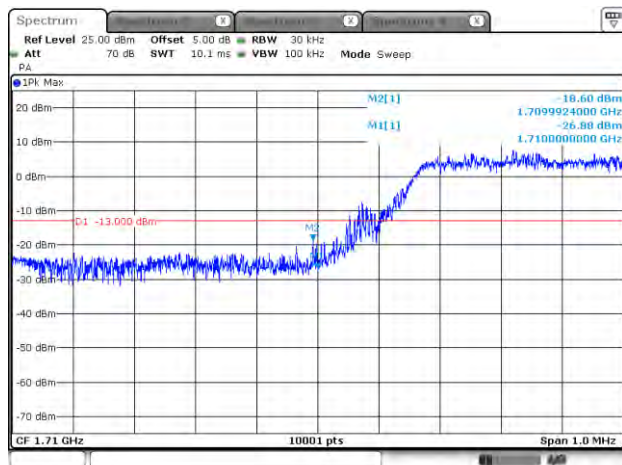
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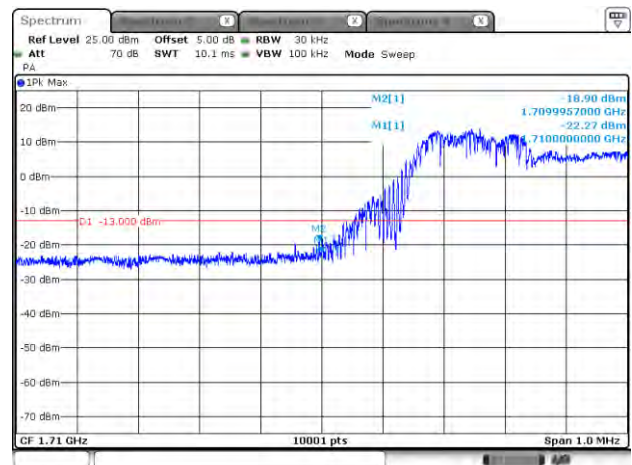
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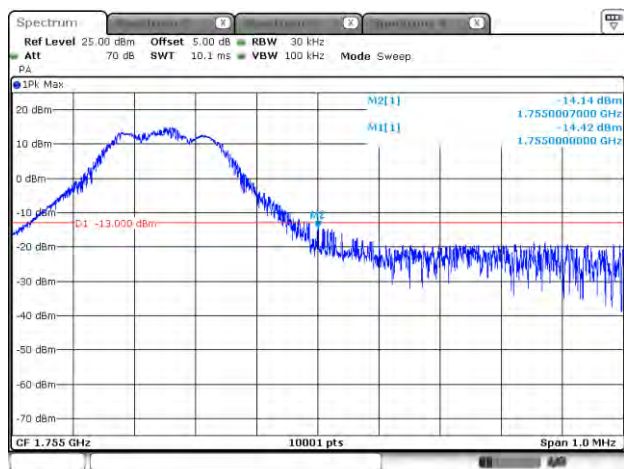
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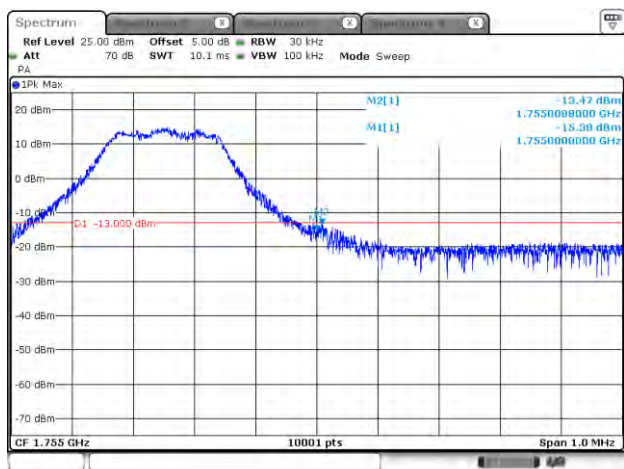


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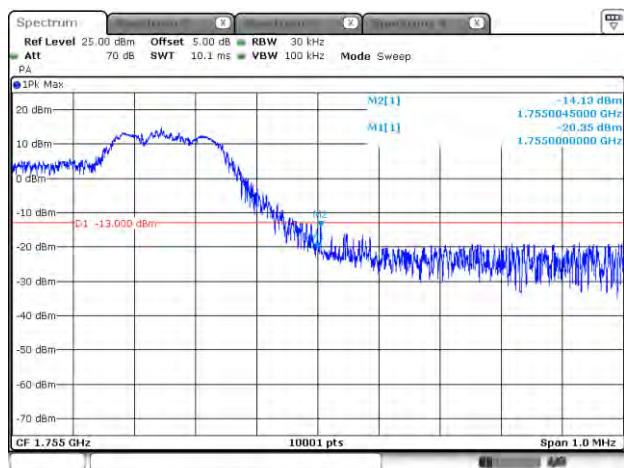
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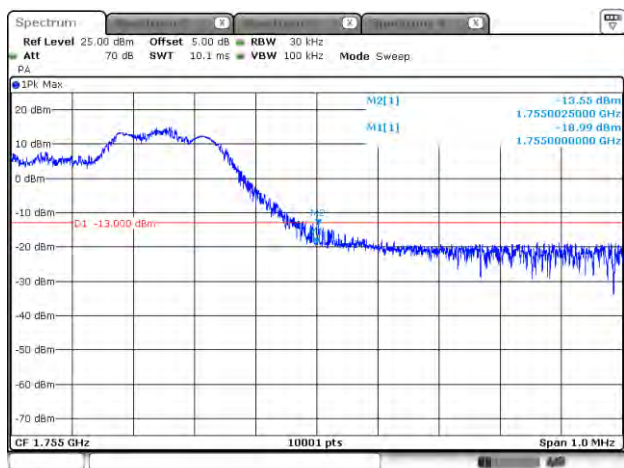
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Cat M1_Band 4_CH20393_1.4M_QPSK_6RB0



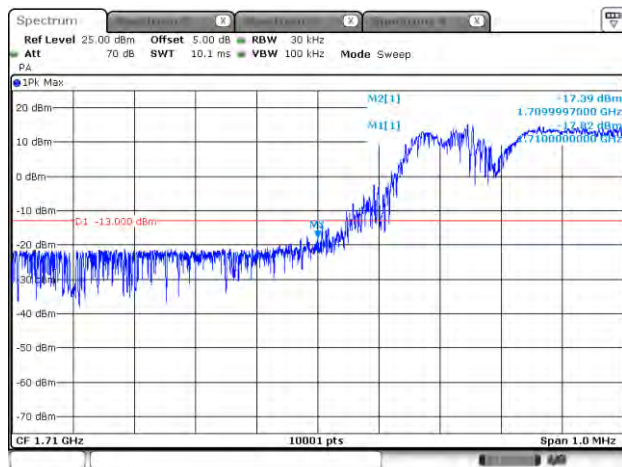
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Cat M1_Band 4_CH20393_1.4M_16-QAM_5RB1



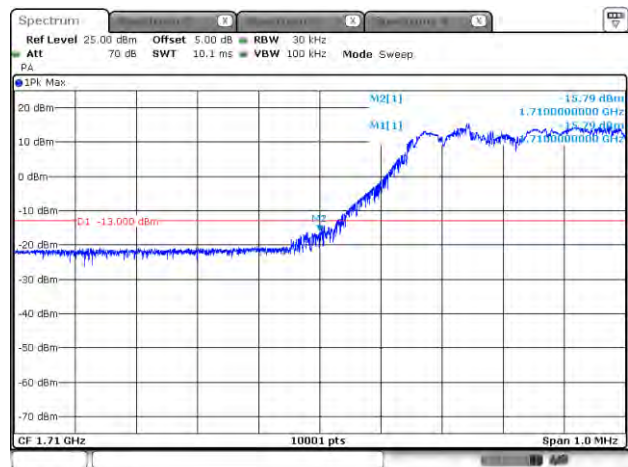
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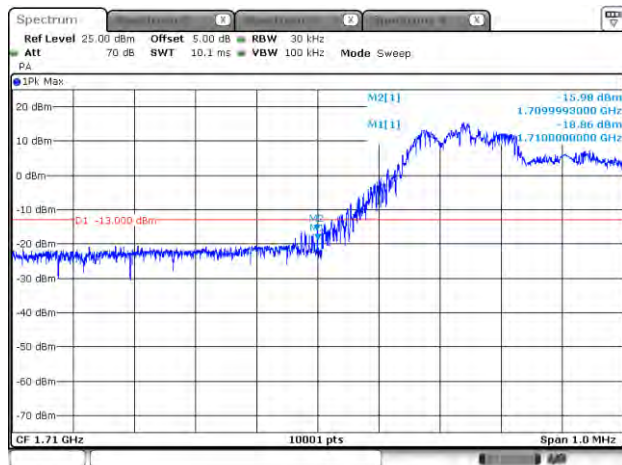
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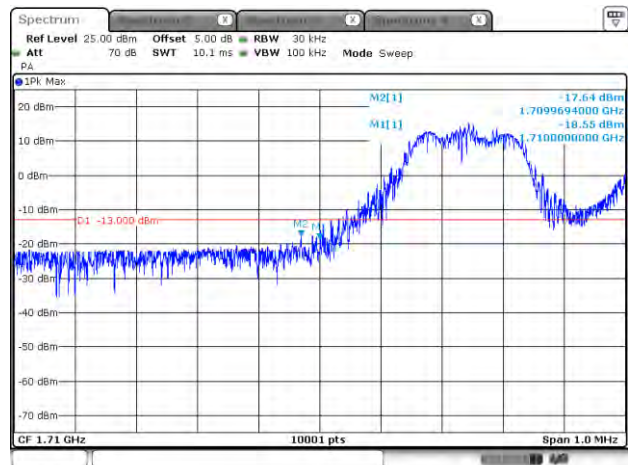
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Cat M1_Band 4_CH19965_3M_QPSK_6RB0



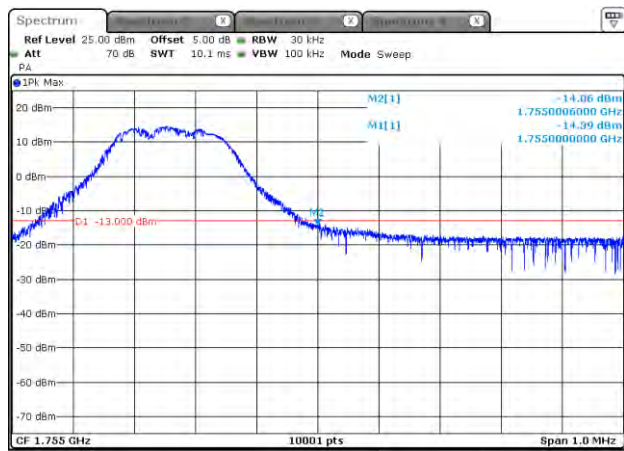
Date: 18 SEP.2018 11:48:10

Cat M1_Band 4_CH19965_3M_16-QAM_5RB1



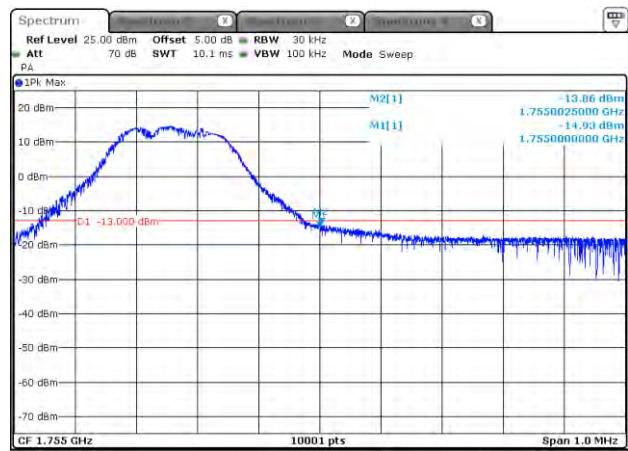
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Cat M1_Band 4_CH20385_3M_QPSK_1RB0



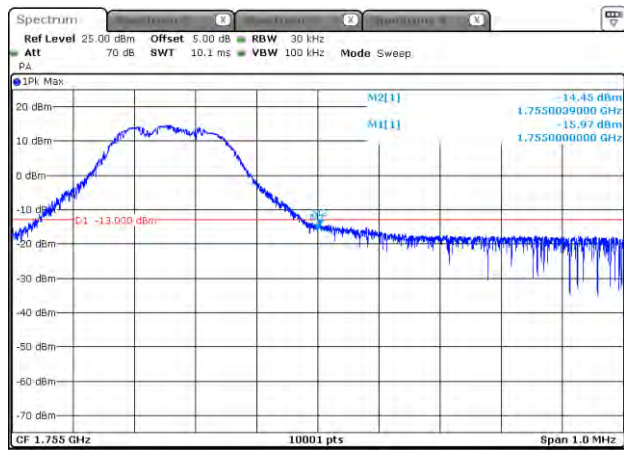
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Cat M1_Band 4_CH20385_3M_16-QAM_1RB5



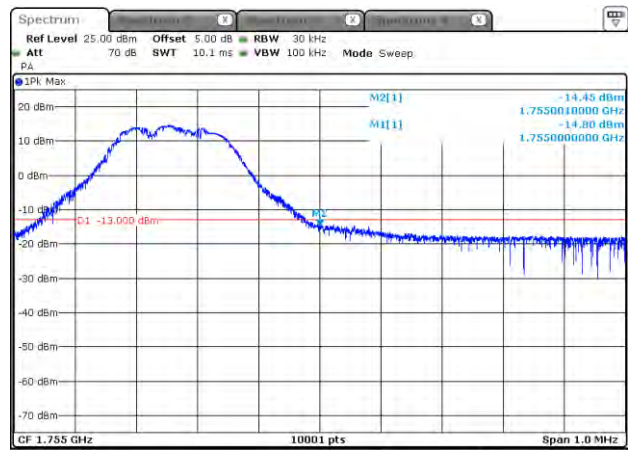
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Cat M1_Band 4_CH20385_3M_QPSK_6RB0



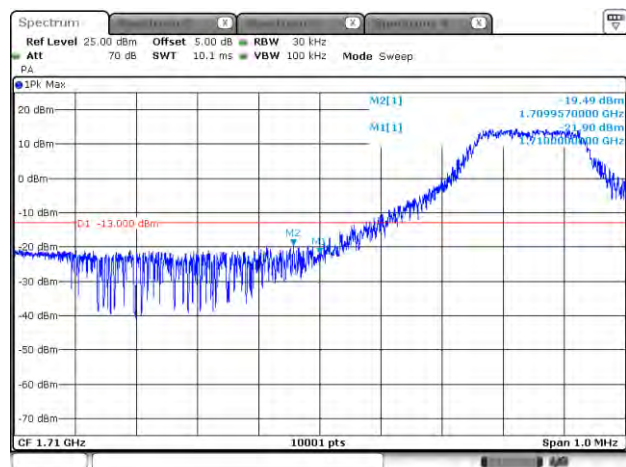
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Cat M1_Band 4_CH20385_3M_16-QAM_5RB1



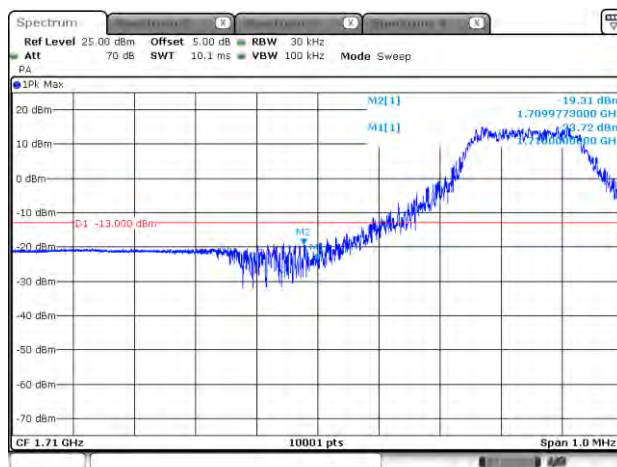
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Cat M1_Band 4_CH19975_5M_QPSK_1RB0



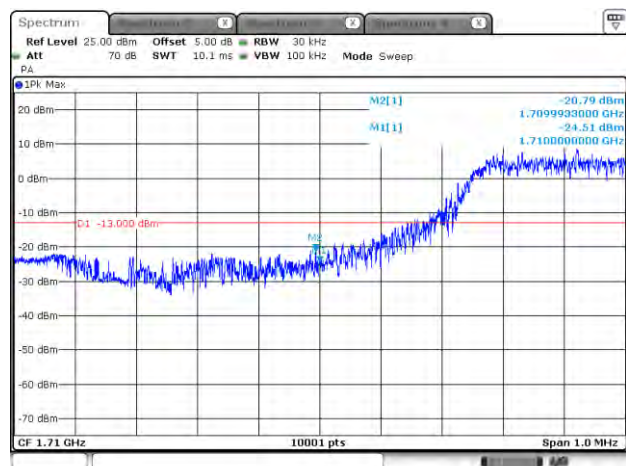
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Cat M1_Band 4_CH19975_5M_16-QAM_1RB0



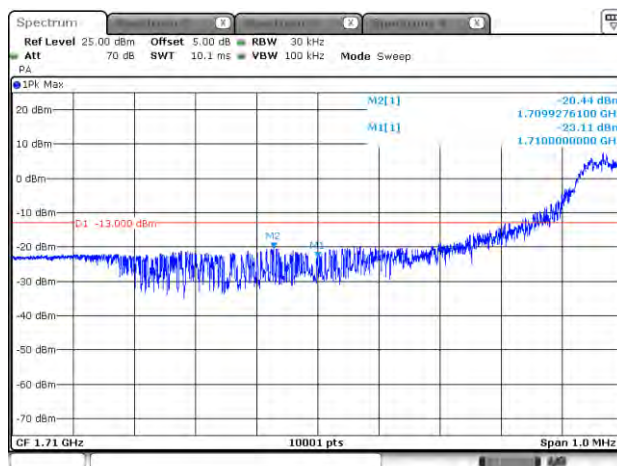
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Cat M1_Band 4_CH19975_5M_QPSK_6RB0



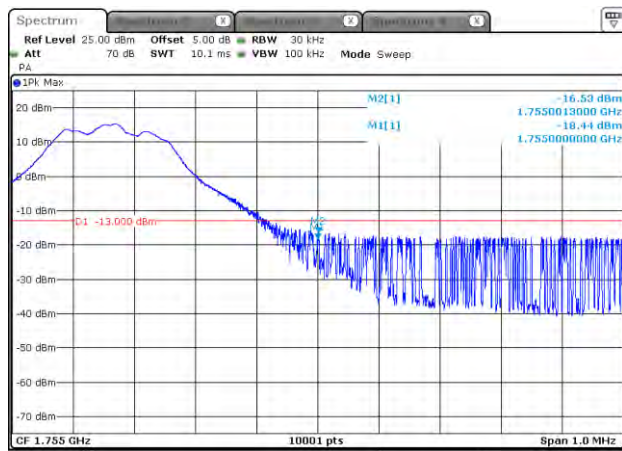
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Cat M1_Band 4_CH19975_5M_16-QAM_5RB1



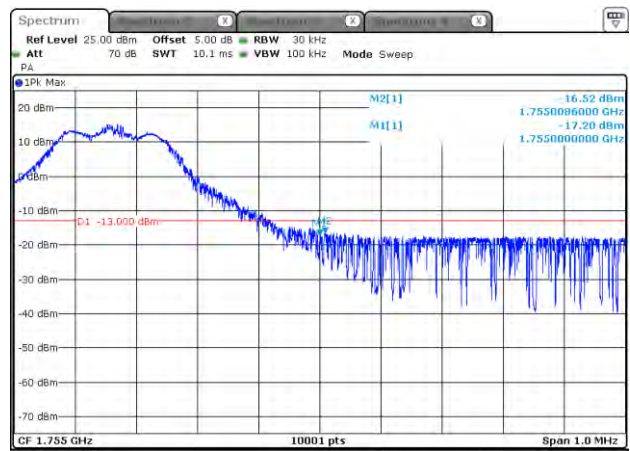
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Cat M1_Band 4_CH20375_5M_QPSK_1RB0



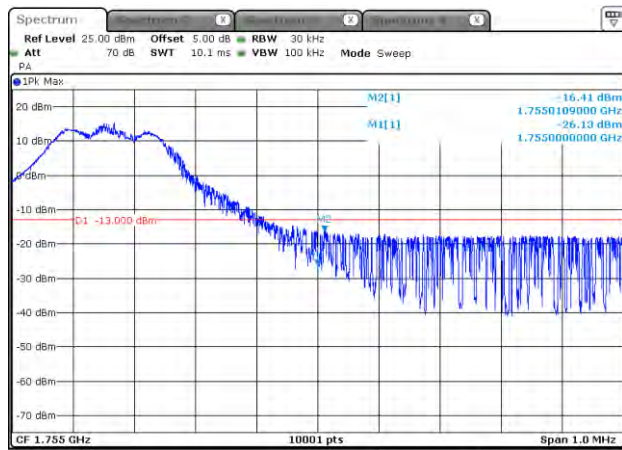
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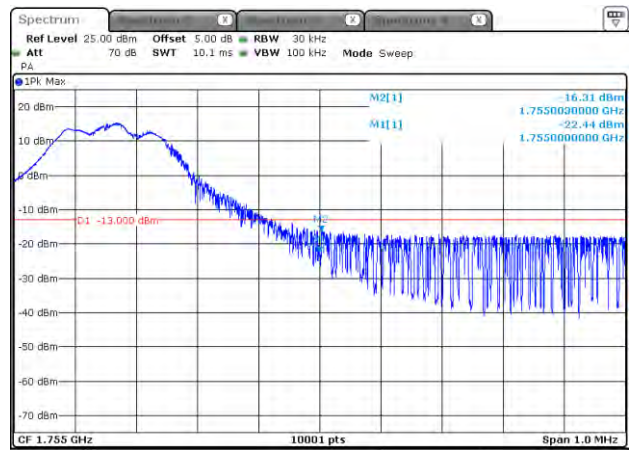
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Cat M1_Band 4_CH20375_5M_QPSK_6RB0



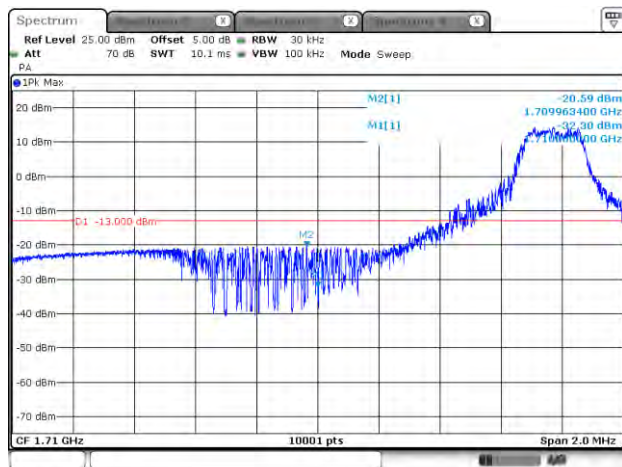
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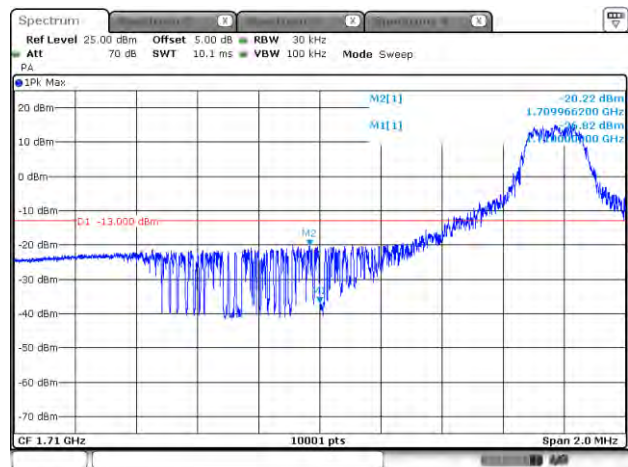
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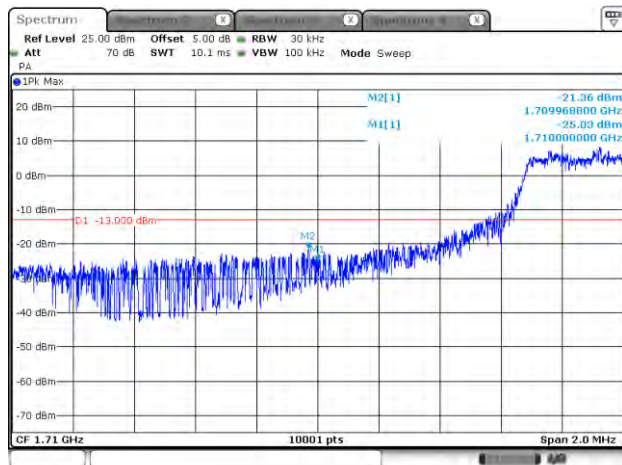
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Cat M1_Band 4_CH20000_10M_16-QAM_1RB0



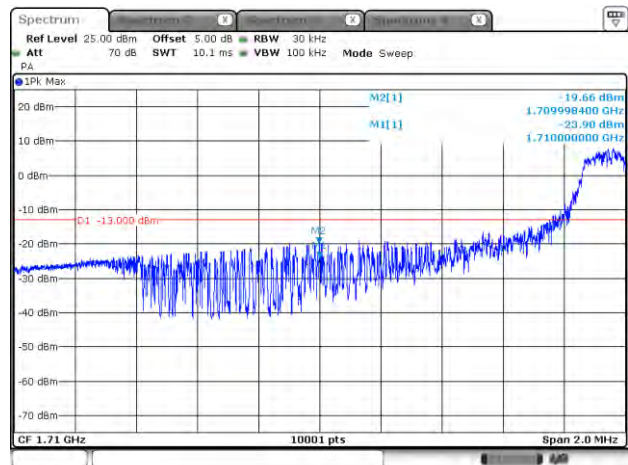
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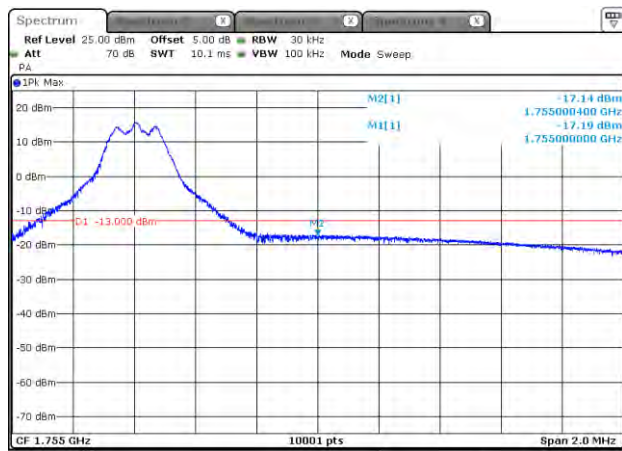
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Cat M1_Band 4_CH20000_10M_16-QAM_5RB1



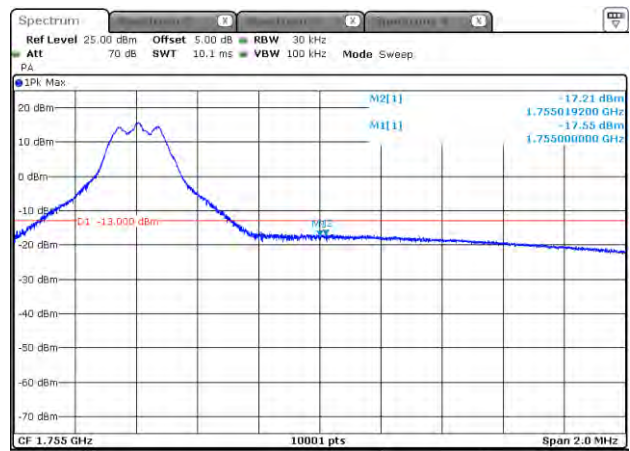
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Cat M1_Band 4_CH20350_10M_QPSK_1RB0



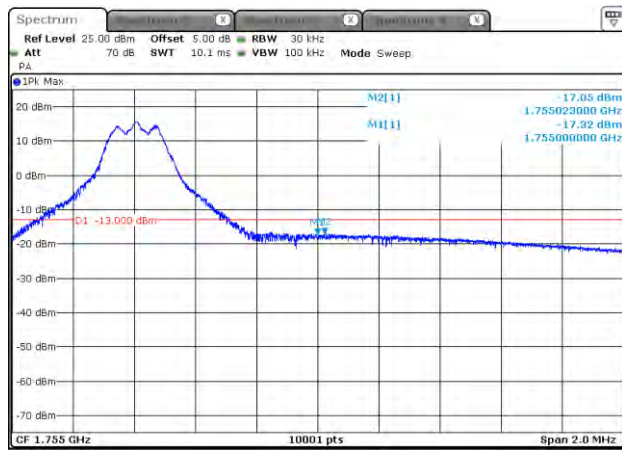
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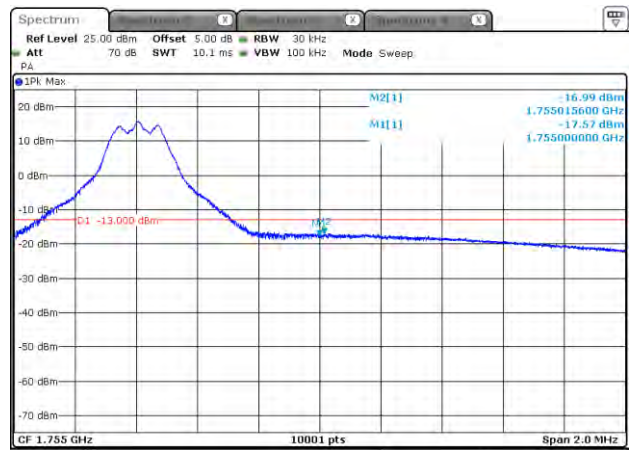
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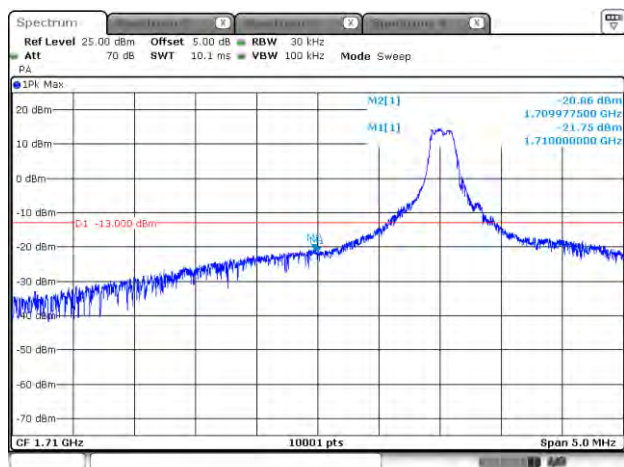
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Cat M1_Band 4_CH20350_10M_16-QAM_5RB1



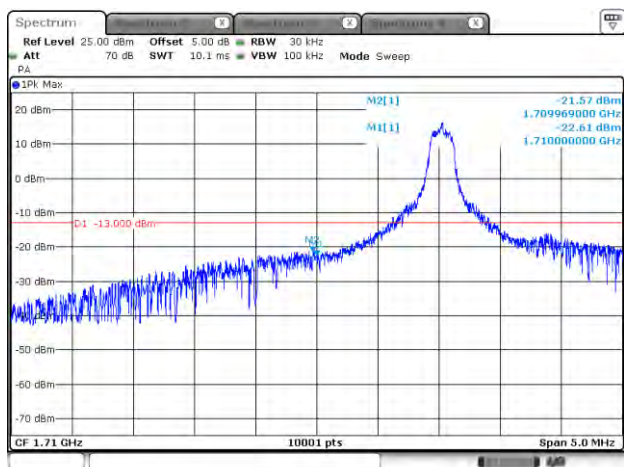
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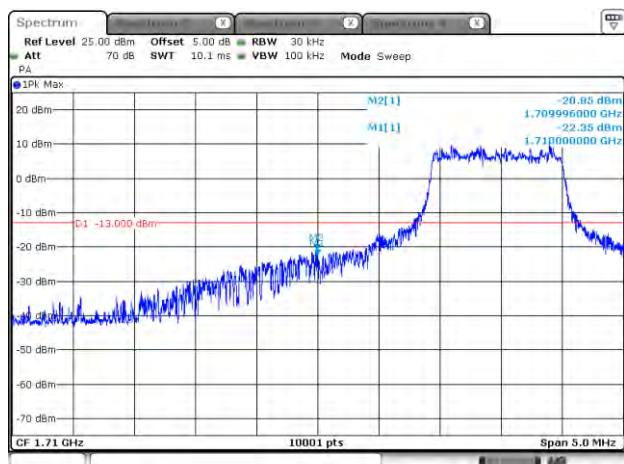
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Cat M1_Band 4_CH20025_15M_16-QAM_1RB0



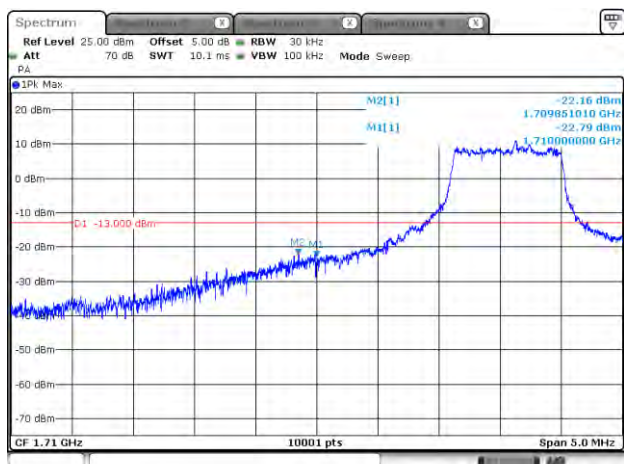
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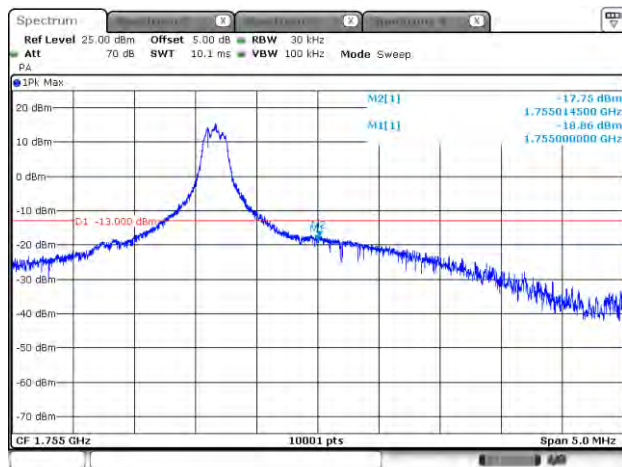
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Cat M1_Band 4_CH20025_15M_16-QAM_5RB1



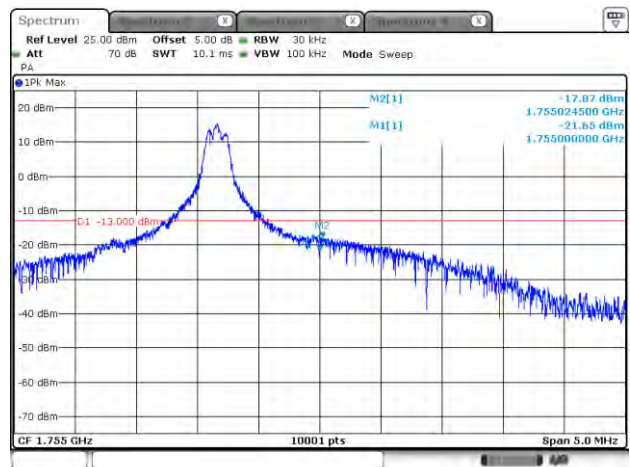
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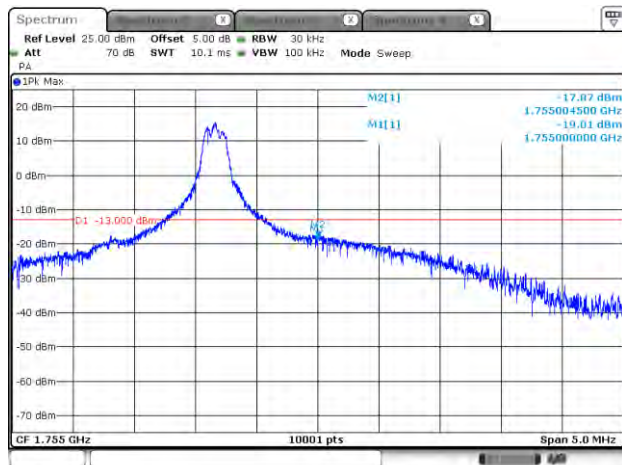
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Cat M1_Band 4_CH20325_15M_16-QAM_1RB5



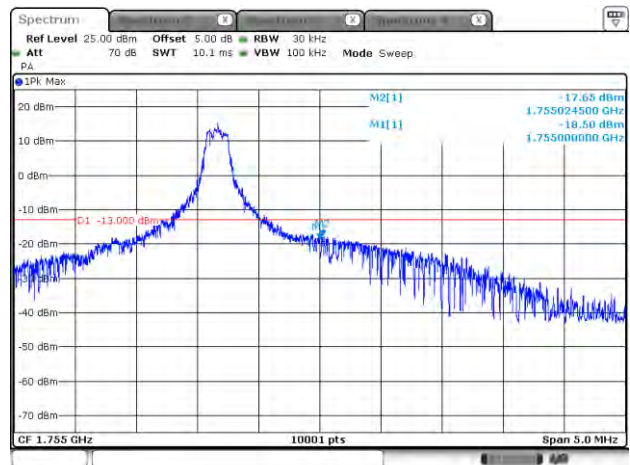
Date: 18 SEP.2018 15:17:24

Cat M1_Band 4_CH20325_15M_QPSK_6RB0



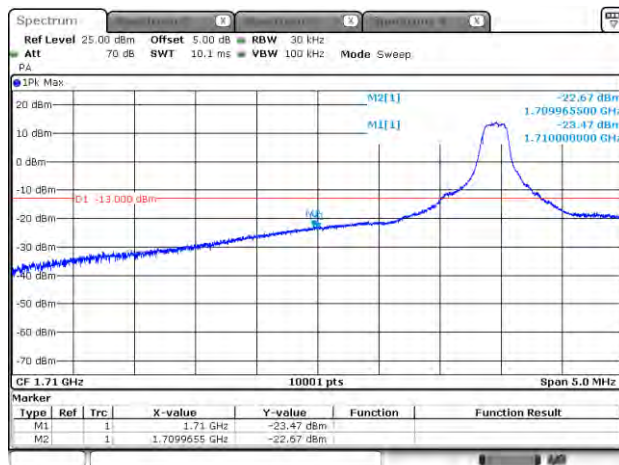
Date: 18 SEP.2018 15:01:04

Cat M1_Band 4_CH20325_15M_16-QAM_5RB1



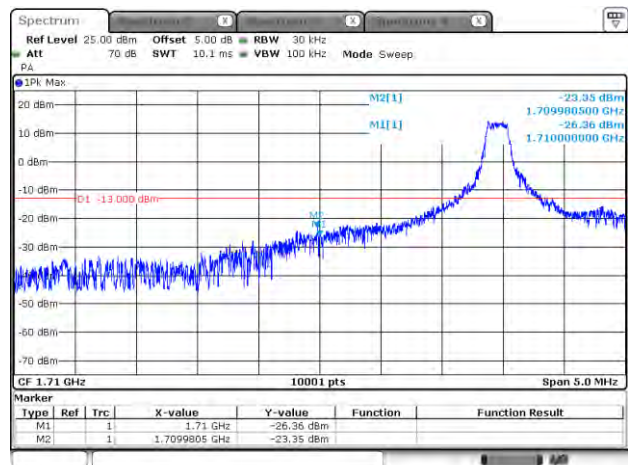
Date: 18 SEP.2018 15:19:36

Cat M1_Band 4_CH20050_20M_QPSK_1RB0



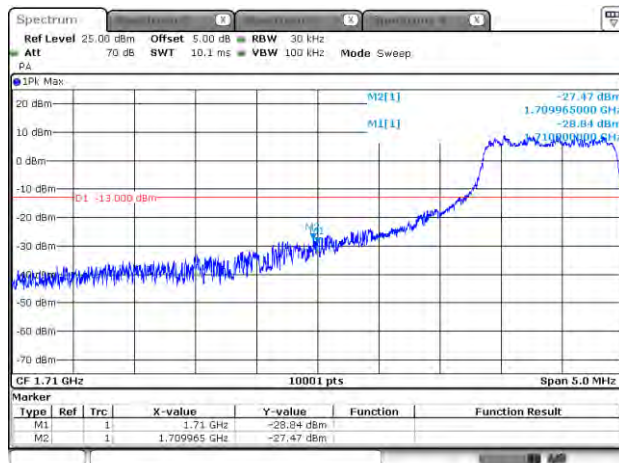
Date: 17 SEP.2016 17:24:46

Cat M1_Band 4_CH20050_20M_16-QAM_1RB0



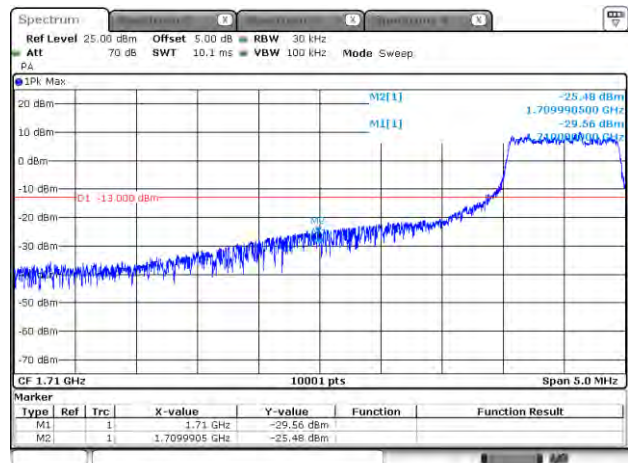
Date: 17 SEP.2016 17:34:07

Cat M1_Band 4_CH20050_20M_QPSK_6RB0



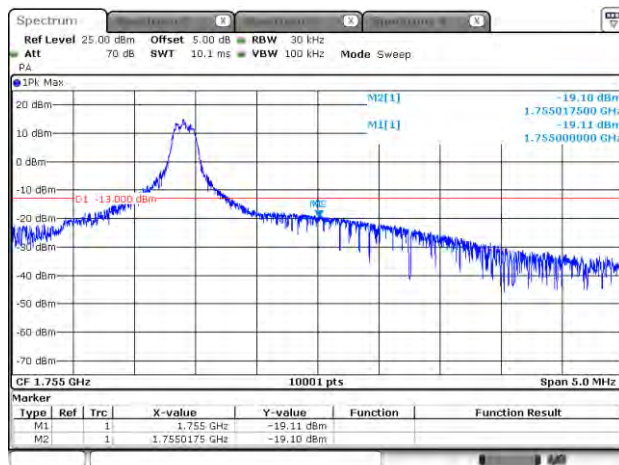
Date: 17 SEP.2016 17:32:48

Cat M1_Band 4_CH20050_20M_16-QAM_5RB1



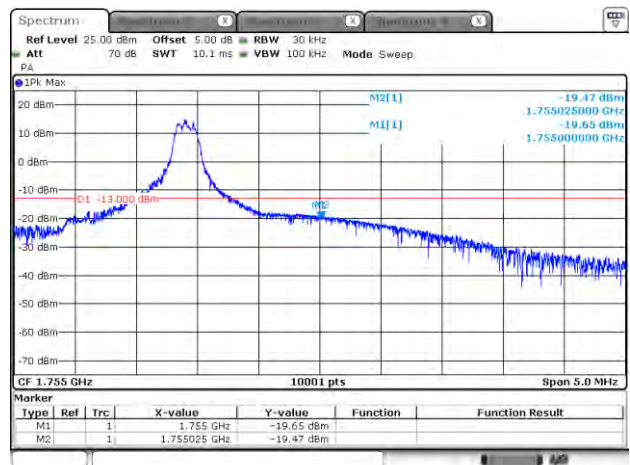
Date: 17 SEP.2016 17:36:44

Cat M1_Band 4_CH20300_20M_QPSK_1RB0



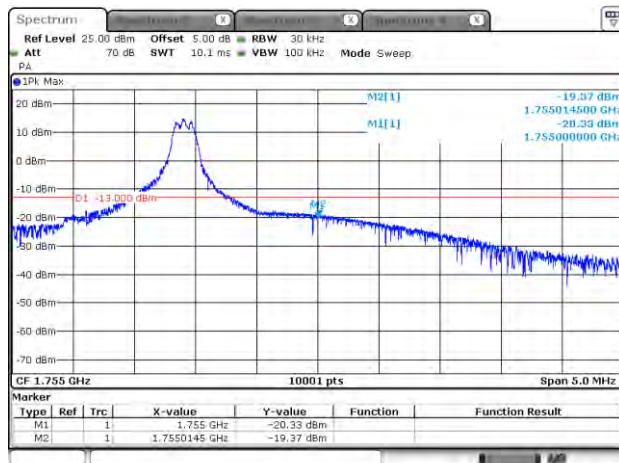
Date: 17 SEP 2016 16:04:19

Cat M1_Band 4_CH20300_20M_16-QAM_1RB5



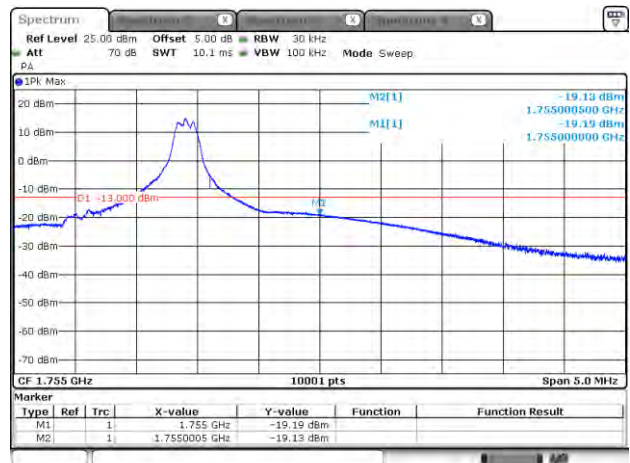
Date: 17 SEP 2016 17:58:15

Cat M1_Band 4_CH20300_20M_QPSK_6RB0



Date: 17 SEP 2016 16:03:20

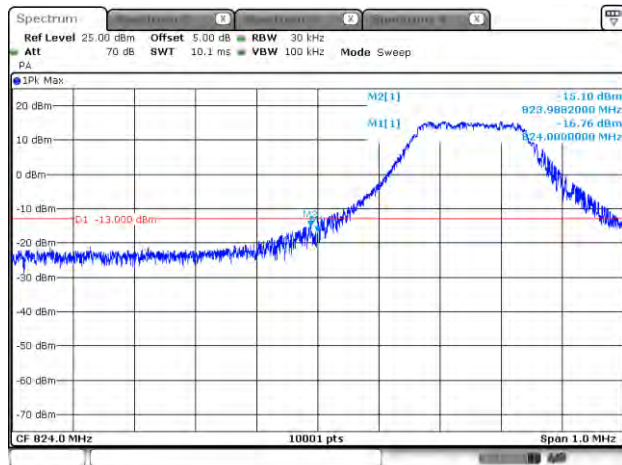
Cat M1_Band 4_CH20300_20M_16-QAM_5RB1



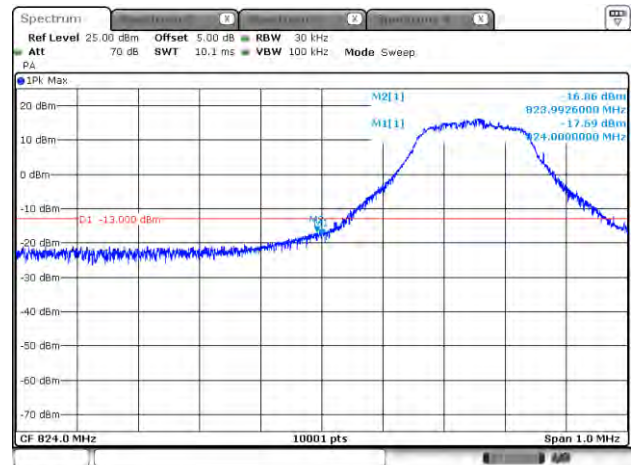
Date: 17 SEP 2016 17:58:58

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

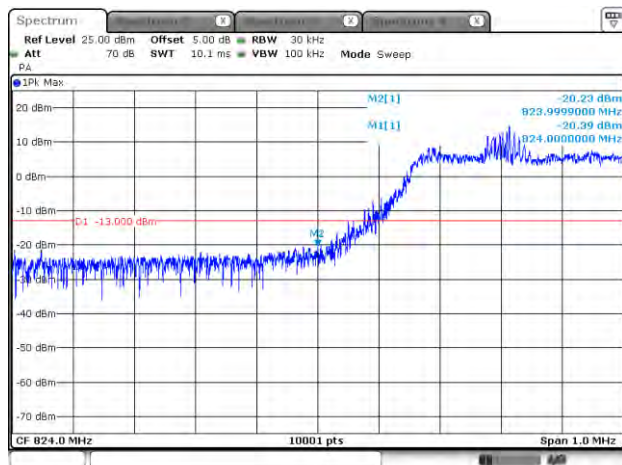
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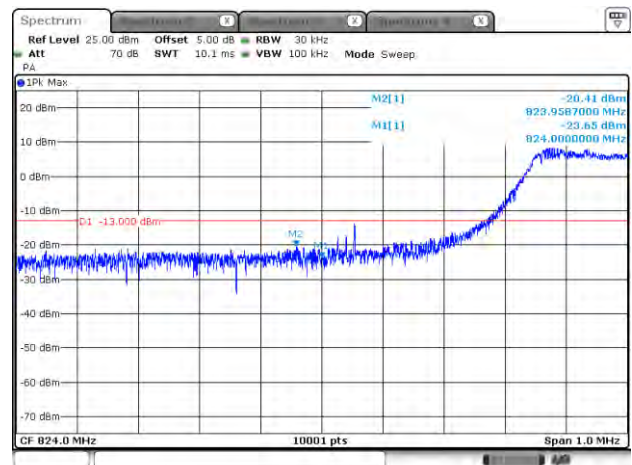
Cat M1_Band 5_CH20407_1.4M_16-QAM_1RB0



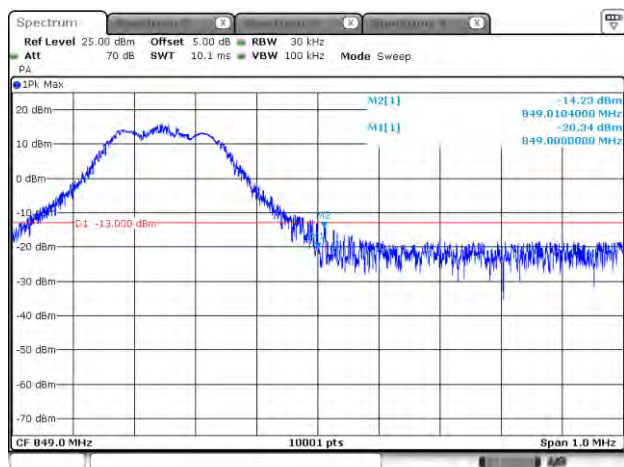
Cat M1_Band 5_CH20407_1.4M_QPSK_6RB0



Cat M1_Band 5_CH20407_1.4M_16-QAM_5RB1

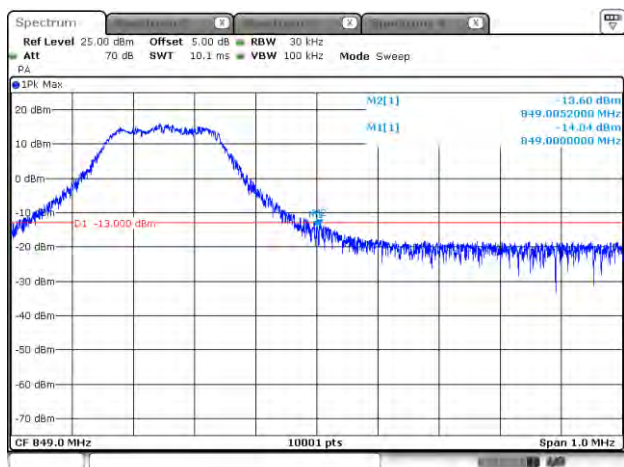


Cat M1_Band 5_CH20643_1.4M_QPSK_1RB0



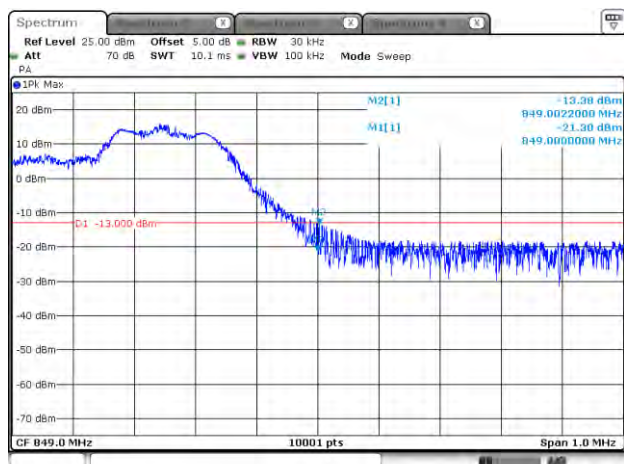
Date: 18 SEP.2018 16:21:31

Cat M1_Band 5_CH20643_1.4M_16-QAM_1RB5



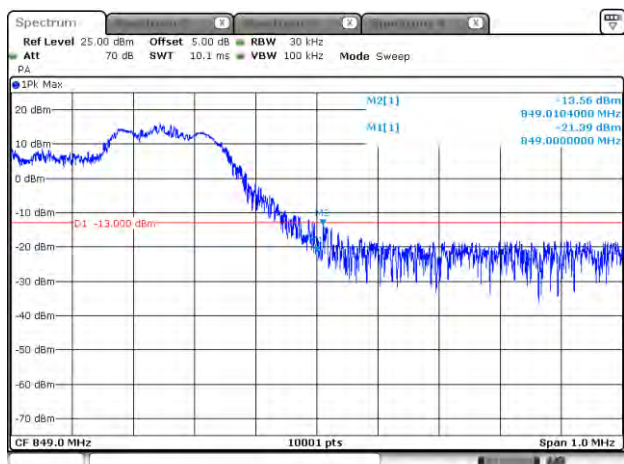
Date: 18 SEP.2018 16:19:37

Cat M1_Band 5_CH20643_1.4M_QPSK_6RB0



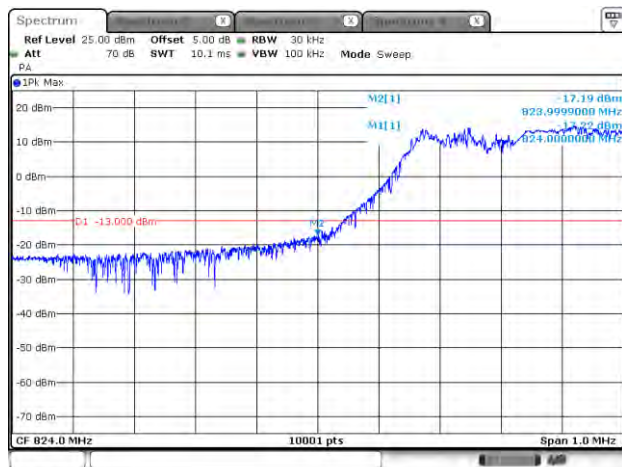
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Cat M1_Band 5_CH20643_1.4M_16-QAM_5RB1



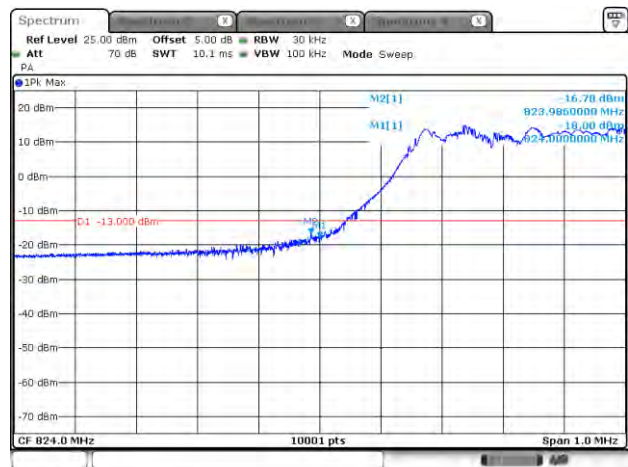
Date: 18 SEP.2018 16:17:04

Cat M1_Band 5_CH20415_3M_QPSK_1RB0



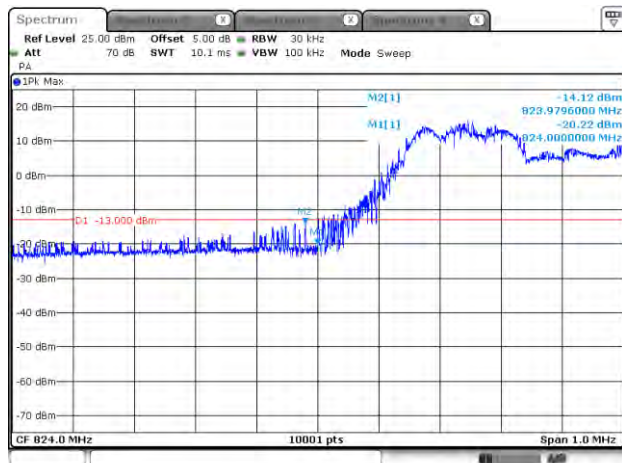
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Cat M1_Band 5_CH20415_3M_16-QAM_1RB0



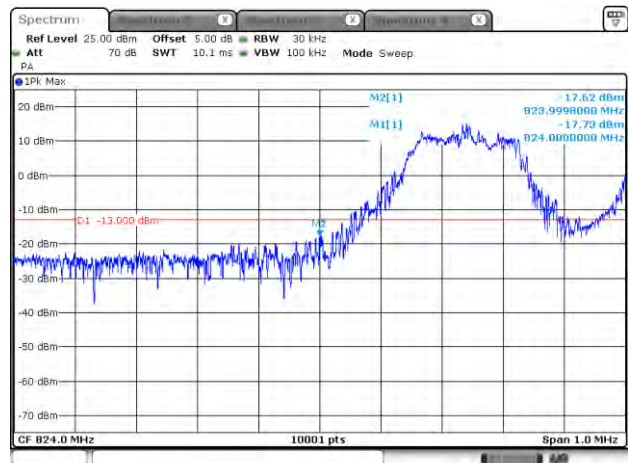
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Cat M1_Band 5_CH20415_3M_QPSK_6RB0



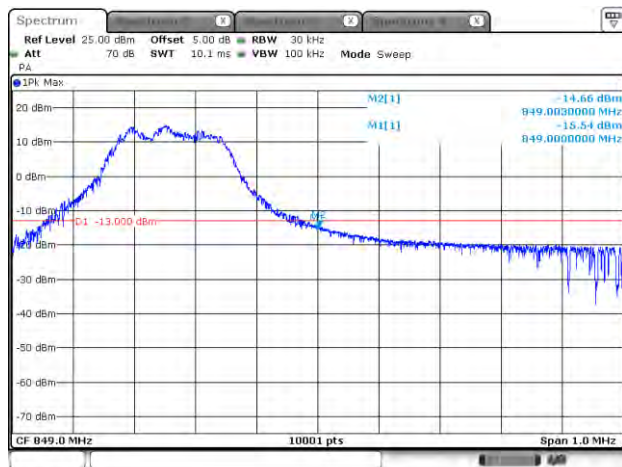
Date: 18 SEP.2018 17:06:24

Cat M1_Band 5_CH20415_3M_16-QAM_5RB1

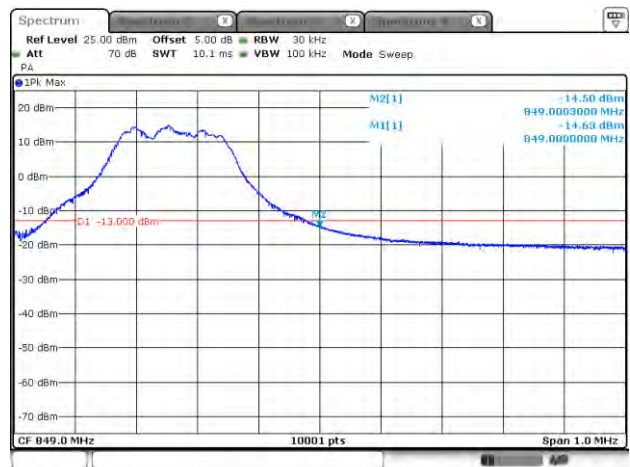


Date: 18 SEP.2018 16:48:31

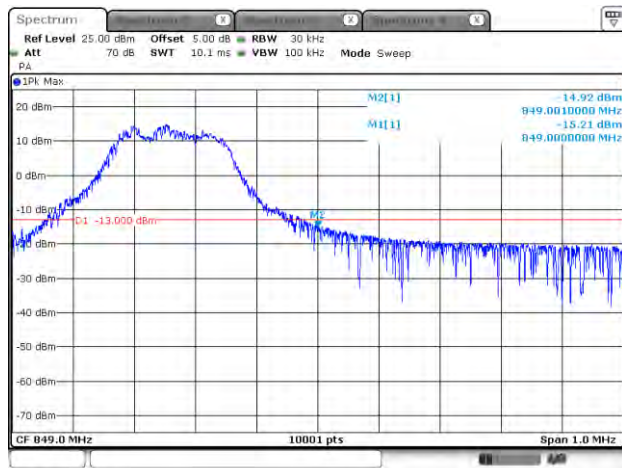
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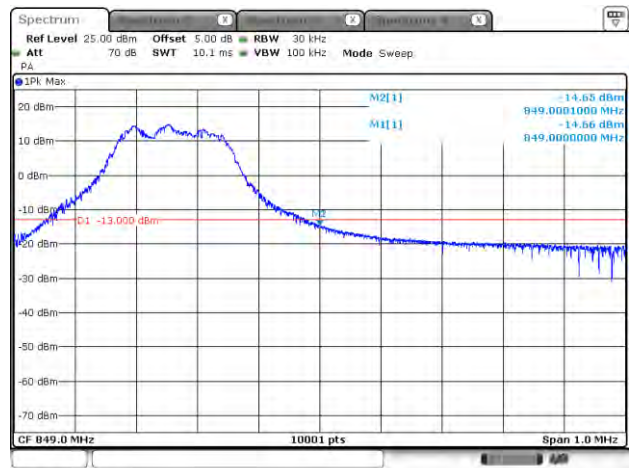
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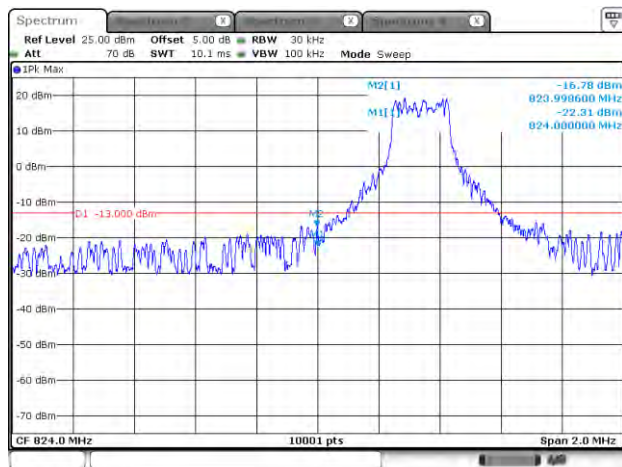
Cat M1_Band 5_CH20635_3M_QPSK_6RB0



Cat M1_Band 5_CH20635_3M_16-QAM_5RB1

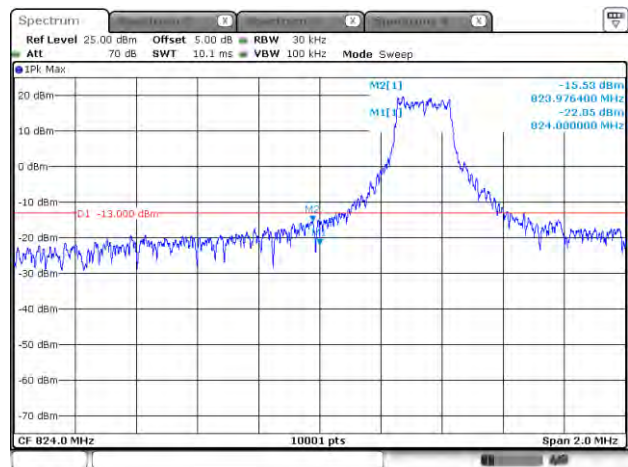


Cat M1_Band 5_CH20425_5M_QPSK_1RB0



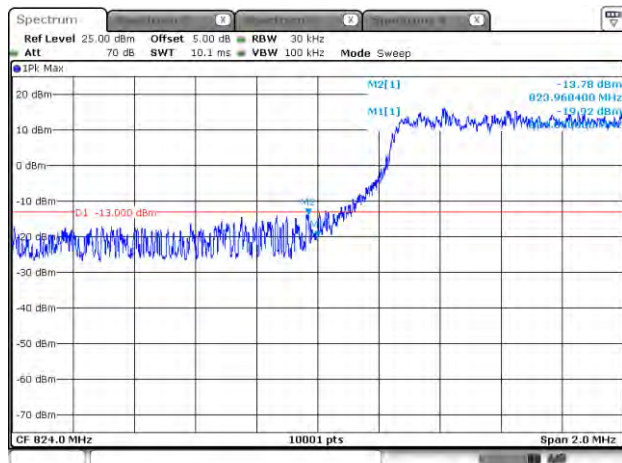
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Cat M1_Band 5_CH20425_5M_16-QAM_1RB0



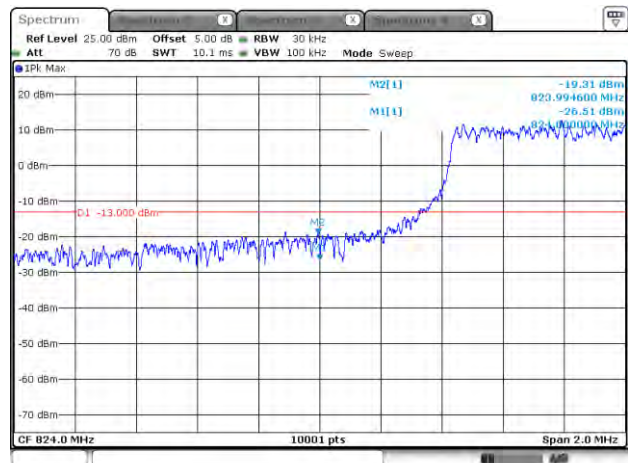
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Cat M1_Band 5_CH20425_5M_QPSK_6RB0



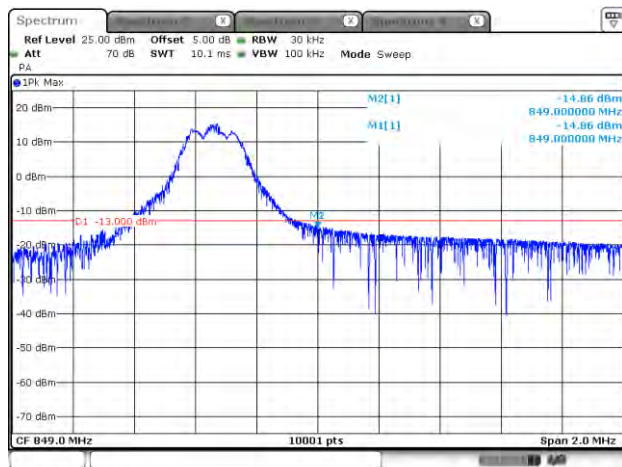
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Cat M1_Band 5_CH20425_5M_16-QAM_5RB1



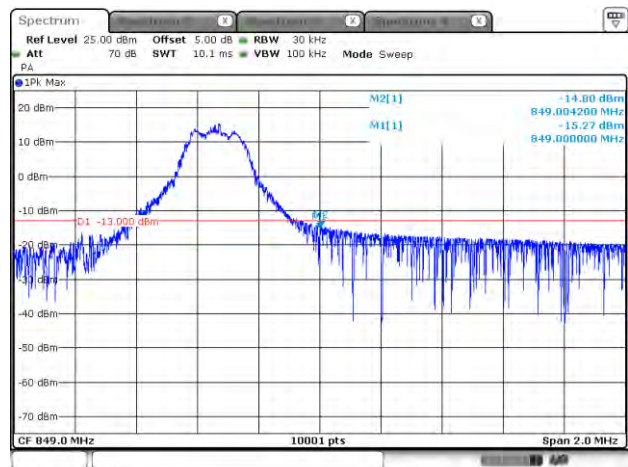
Date: 18 SEP 2018 17:50:44

Cat M1_Band 5_CH20625_5M_QPSK_1RB0



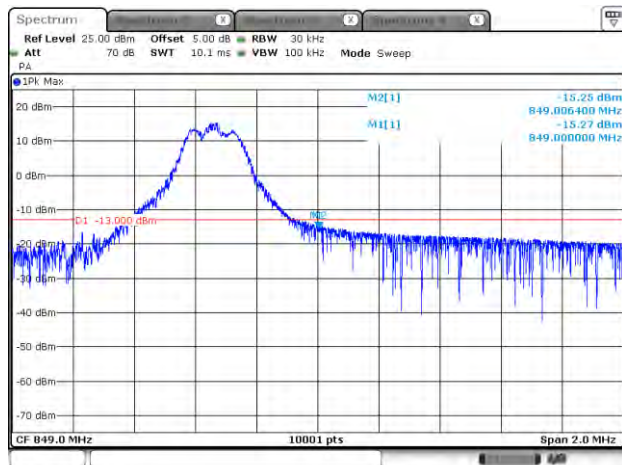
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Cat M1_Band 5_CH20625_5M_16-QAM_1RB5



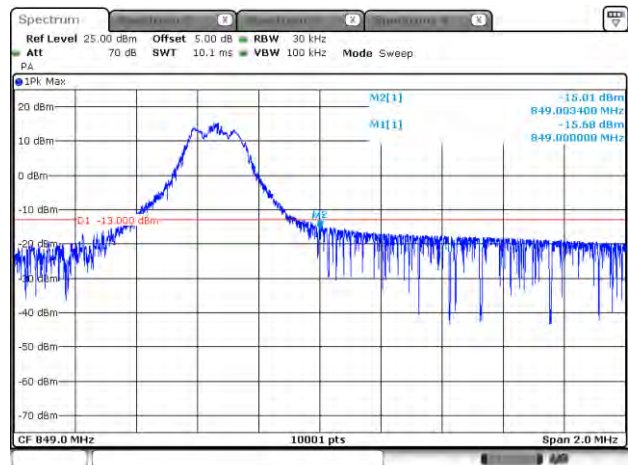
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Cat M1_Band 5_CH20625_5M_QPSK_6RB0



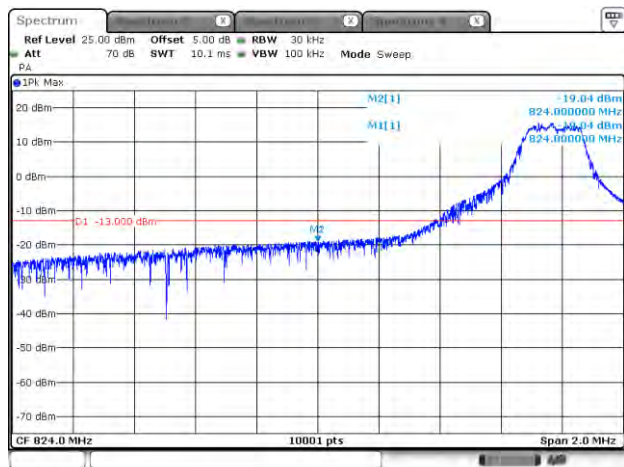
Date: 18 SEP.2018 17:58:41

Cat M1_Band 5_CH20625_5M_16-QAM_5RB1



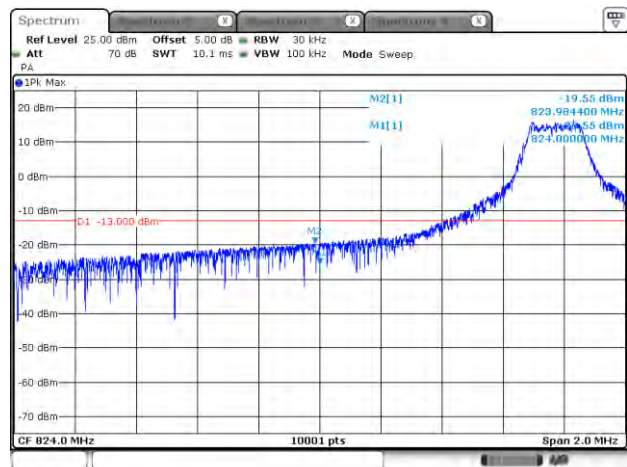
Date: 18 SEP.2018 17:58:35

Cat M1_Band 5_CH20450_10M_QPSK_1RB0



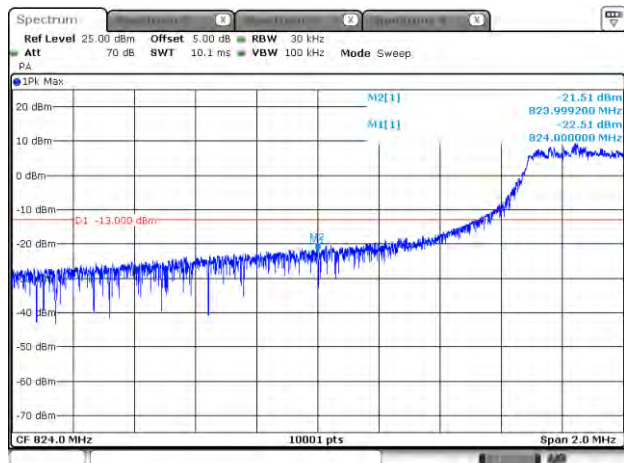
Date: 18 SEP.2018 17:19:46

Cat M1_Band 5_CH20450_10M_16-QAM_1RB0



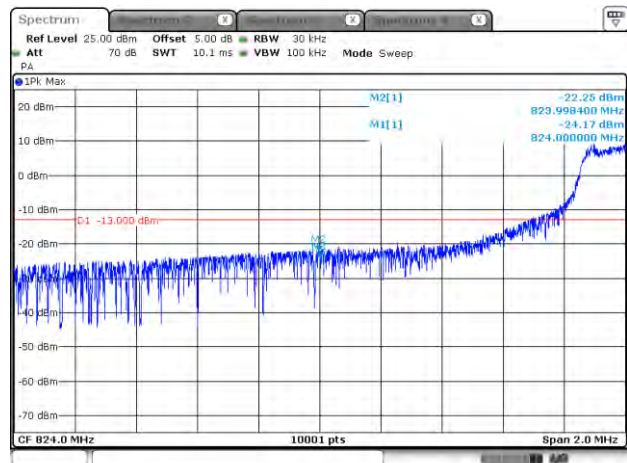
Date: 18 SEP.2018 17:22:55

Cat M1_Band 5_CH20450_10M_QPSK_6RB0



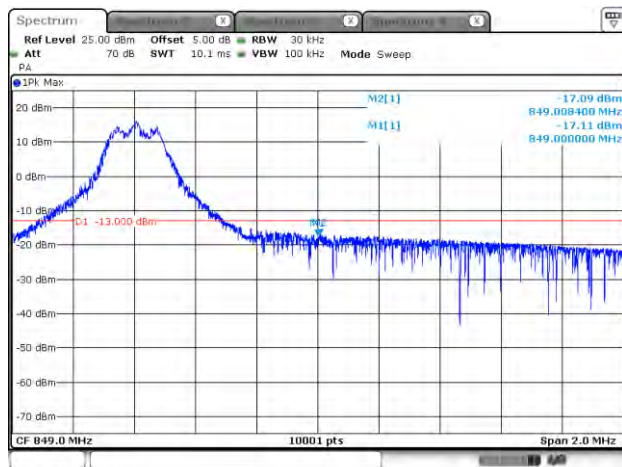
Date: 18 SEP.2018 17:21:17

Cat M1_Band 5_CH20450_10M_16-QAM_5RB1



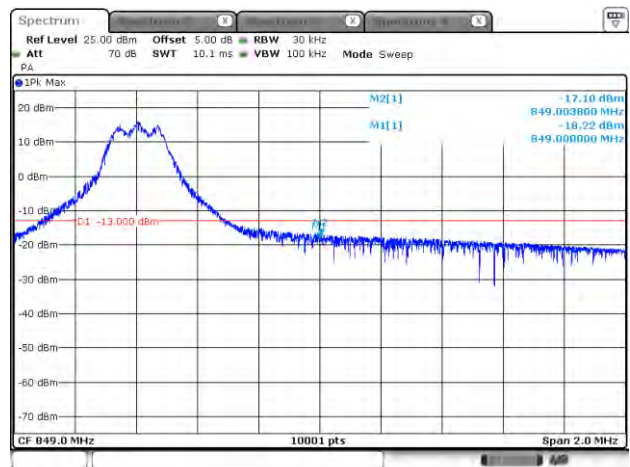
Date: 18 SEP.2018 17:24:28

Cat M1_Band 5_CH20600_10M_QPSK_1RB0



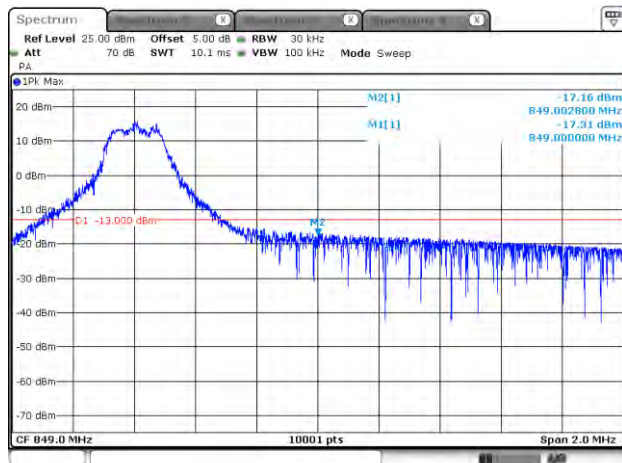
Date: 18 SEP.2018 17:37:35

Cat M1_Band 5_CH20600_10M_16-QAM_1RB5



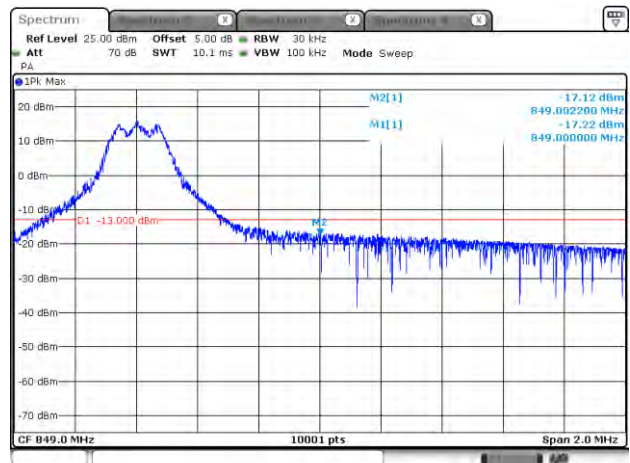
Date: 18 SEP.2018 17:35:06

Cat M1_Band 5_CH20600_10M_QPSK_6RB0



Date: 18 SEP.2018 17:40:40

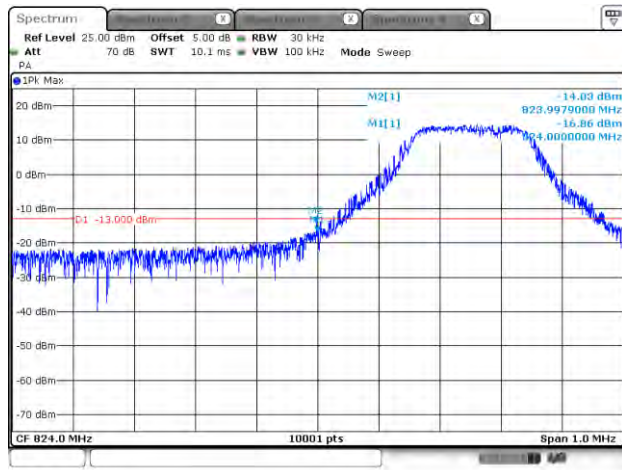
Cat M1_Band 5_CH20600_10M_16-QAM_5RB1



Date: 18 SEP.2018 17:28:36

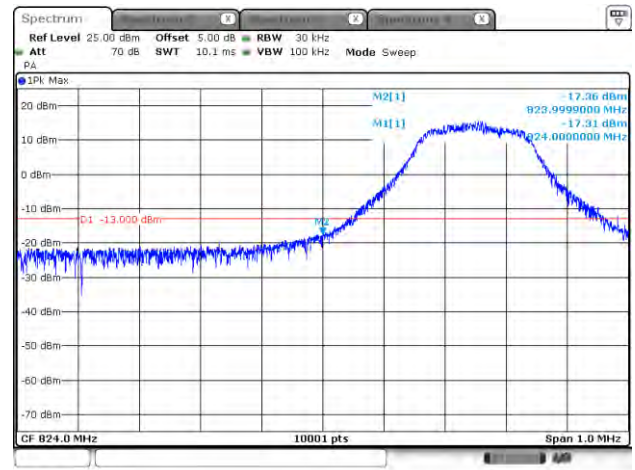
Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 4: LTE Band 26 (Part 22)		
Date of Test	2018/09/18	Test Site	SR10-H

Cat M1_Band 26_CH26797_1.4M_QPSK_1RB0



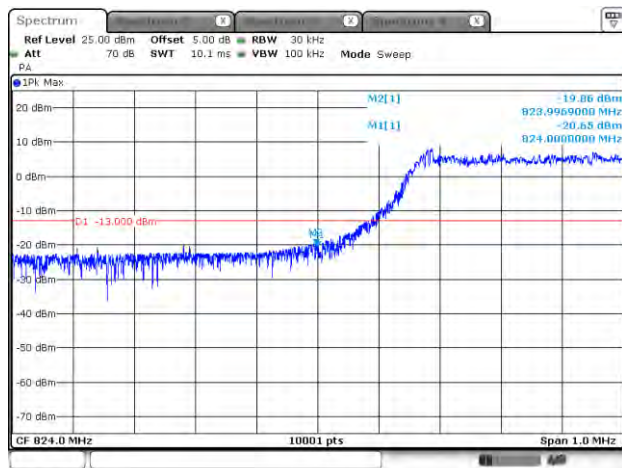
Date: 18 SEP 2018 18:03:19

Cat M1_Band 26_CH26797_1.4M_16-QAM_1RB0



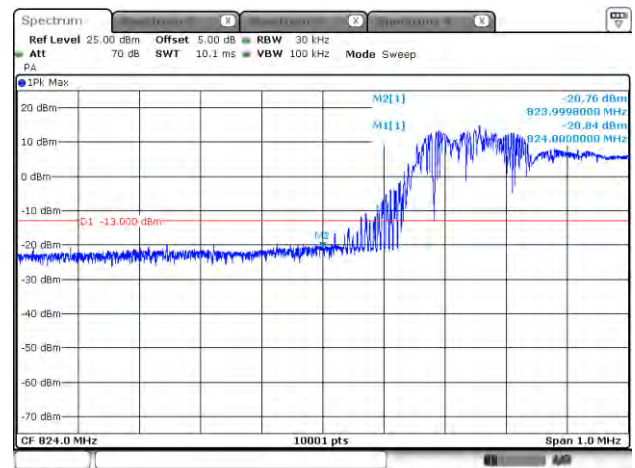
Date: 18 SEP 2018 18:07:53

Cat M1_Band 26_CH26797_1.4M_QPSK_6RB0



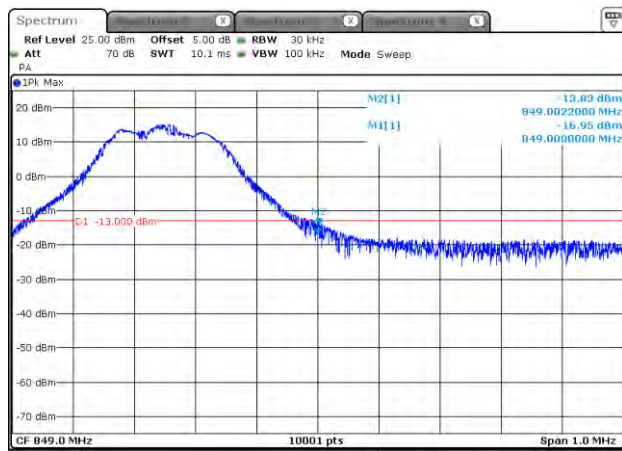
Date: 18 SEP 2018 18:05:58

Cat M1_Band 26_CH26797_1.4M_16-QAM_5RB1



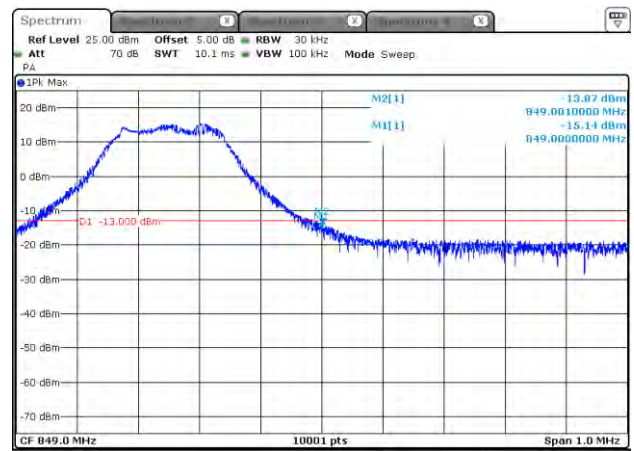
Date: 18 SEP 2018 18:12:07

Cat M1_Band 26_CH27033_1.4M_QPSK_1RB0



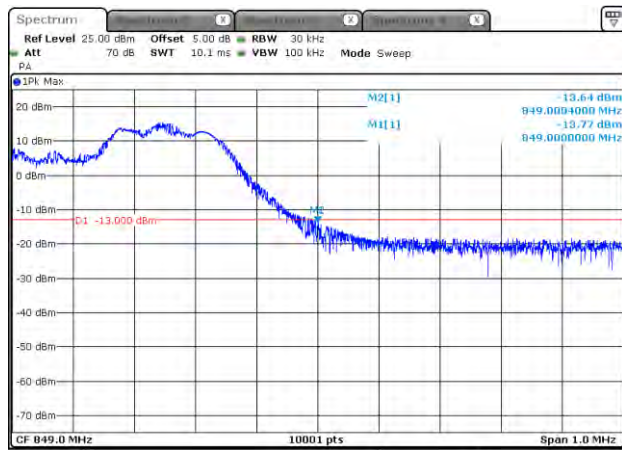
Date: 18 SEP.2018 18:22:22

Cat M1_Band 26_CH27033_1.4M_16-QAM_1RB5



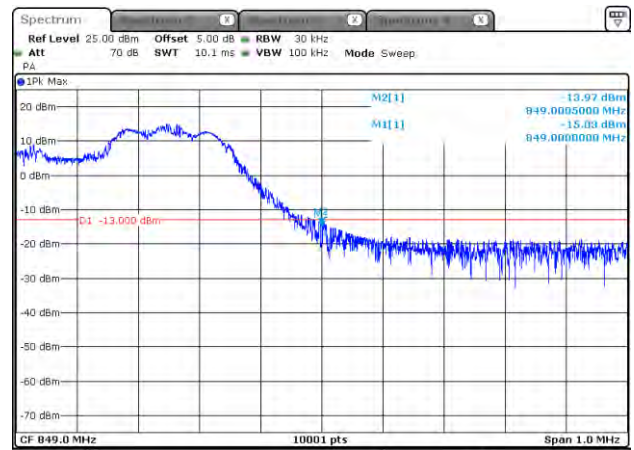
Date: 18 SEP.2018 18:19:47

Cat M1_Band 26_CH27033_1.4M_QPSK_6RB0



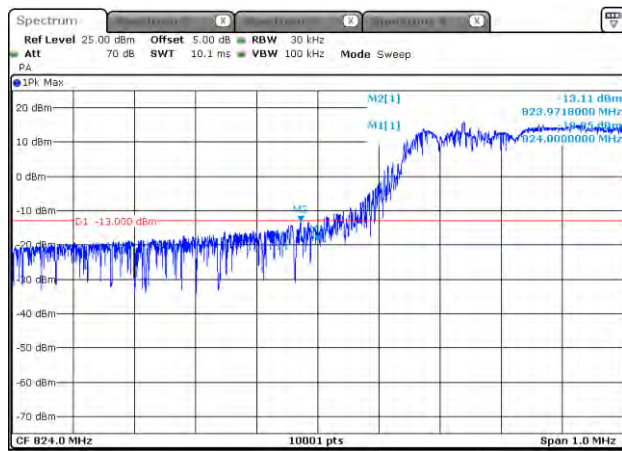
Date: 18 SEP.2018 18:24:36

Cat M1_Band 26_CH27033_1.4M_16-QAM_5RB1



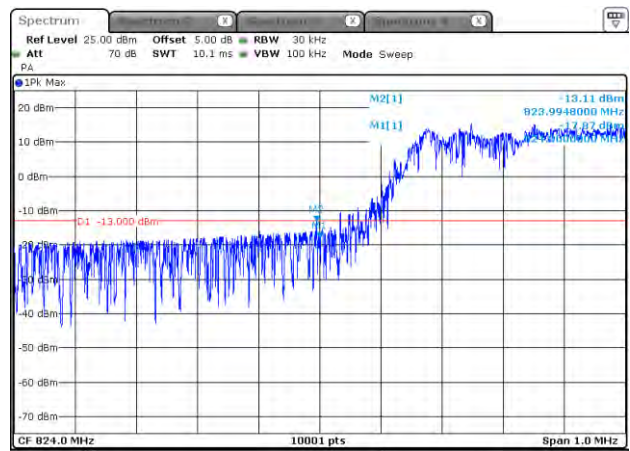
Date: 18 SEP.2018 18:17:04

Cat M1_Band 26_CH26805_3M_QPSK_1RB0



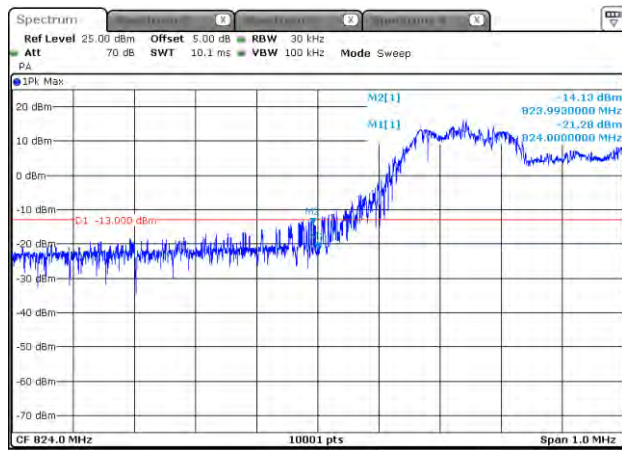
Date: 18 SEP 2018 18:32:00

Cat M1_Band 26_CH26805_3M_16-QAM_1RB0



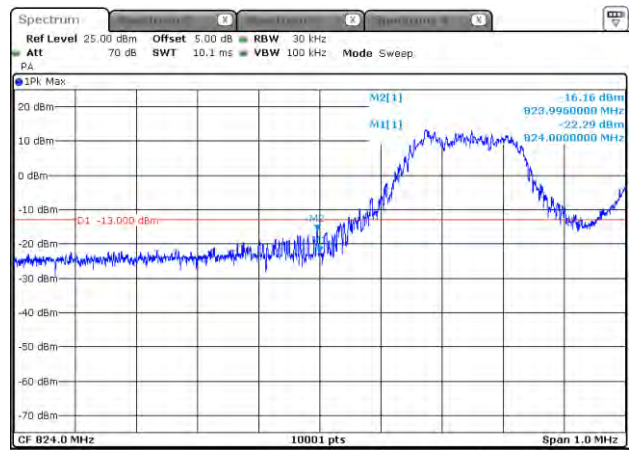
Date: 18 SEP 2018 18:39:07

Cat M1_Band 26_CH26805_3M_QPSK_6RB0



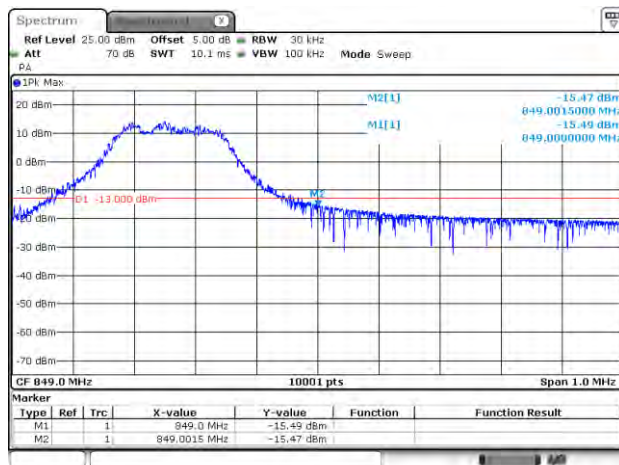
Date: 18 SEP 2018 18:37:03

Cat M1_Band 26_CH26805_3M_16-QAM_5RB1



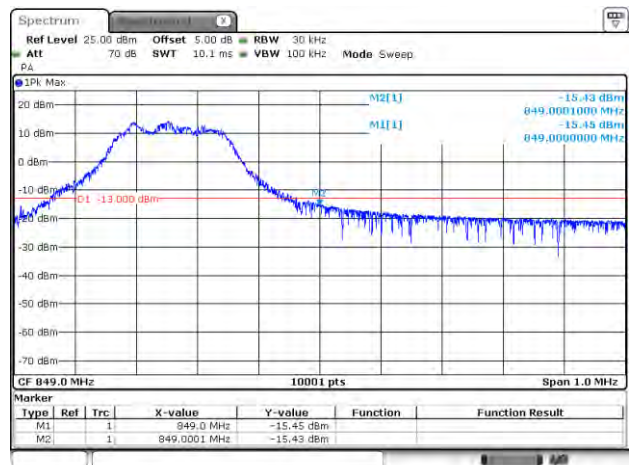
Date: 18 SEP 2018 18:45:56

Cat M1_Band 26_CH27025_3M_QPSK_1RB0



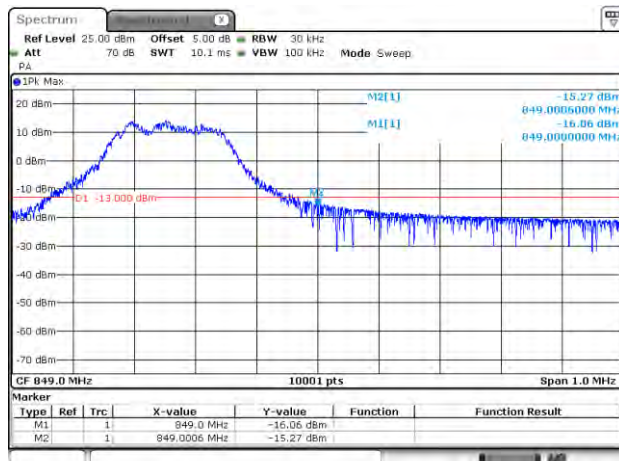
Date: 18 SEP.2018 19:04:00

Cat M1_Band 26_CH27025_3M_16-QAM_1RB5



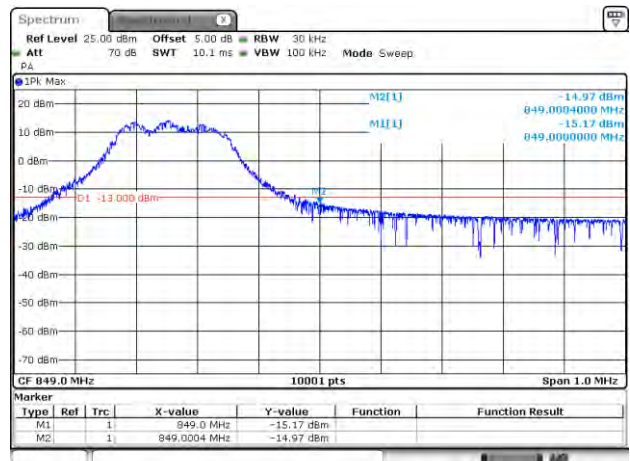
Date: 18 SEP.2018 19:02:45

Cat M1_Band 26_CH27025_3M_QPSK_6RB0



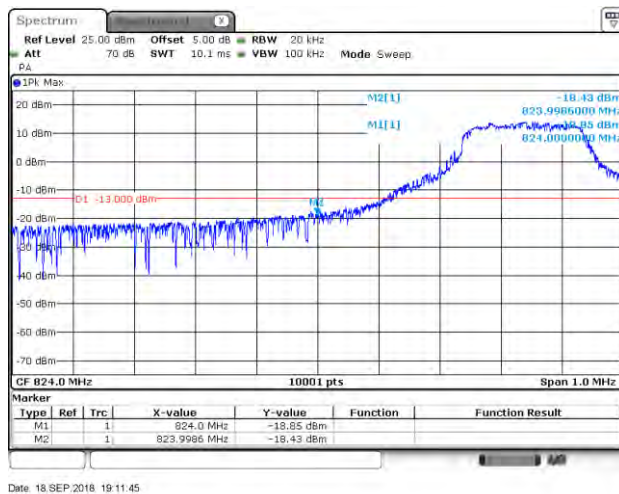
Date: 18 SEP.2018 19:05:28

Cat M1_Band 26_CH27025_3M_16-QAM_5RB1

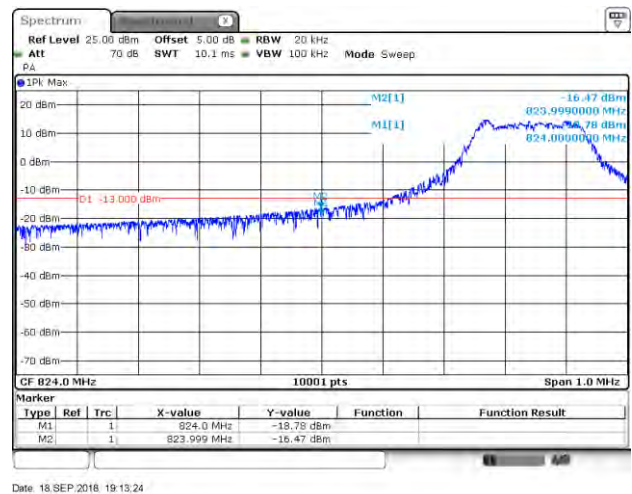


Date: 18 SEP.2018 19:01:08

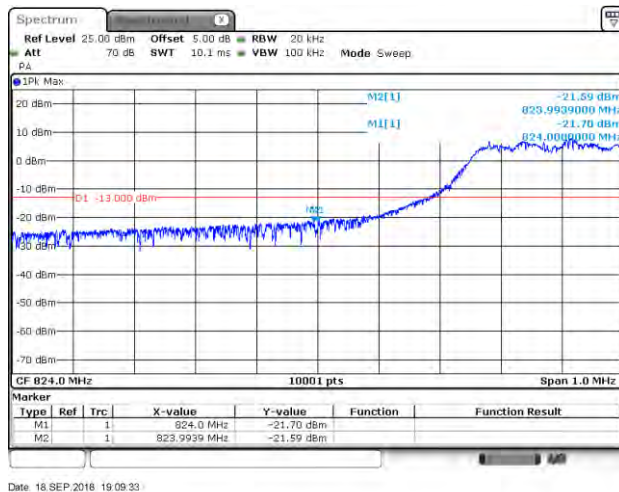
Cat M1_Band 26_CH26805_5M_QPSK_1RB0



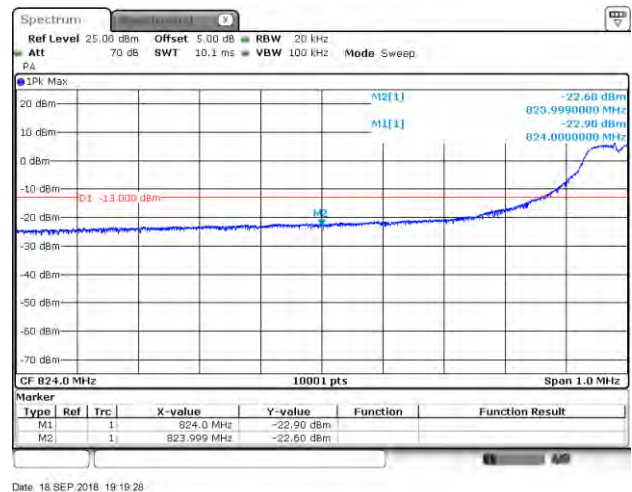
Cat M1_Band 26_CH26805_5M_16-QAM_1RB0



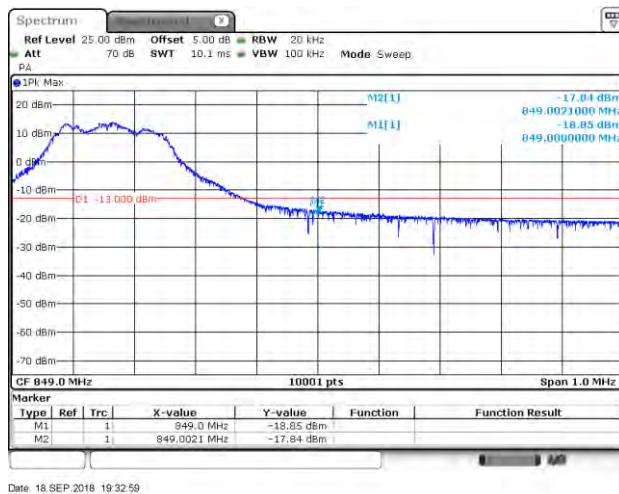
Cat M1_Band 26_CH26805_5M_QPSK_6RB0



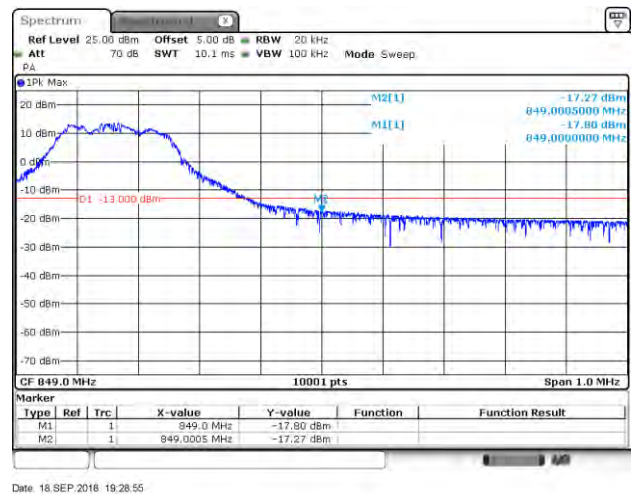
Cat M1_Band 26_CH26805_5M_16-QAM_5RB1



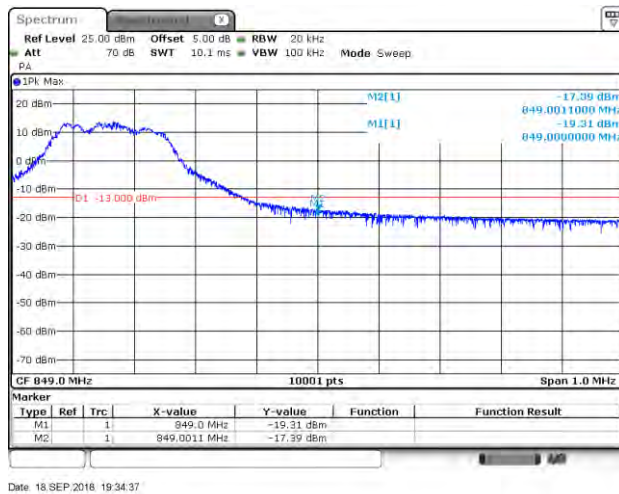
Cat M1_Band 26_CH27015_5M_QPSK_1RB0



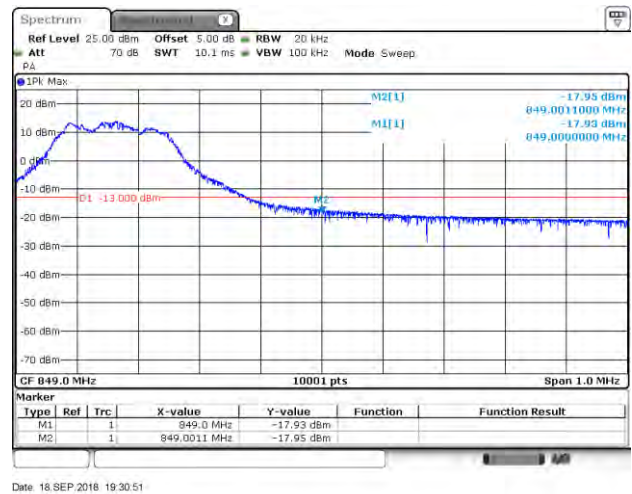
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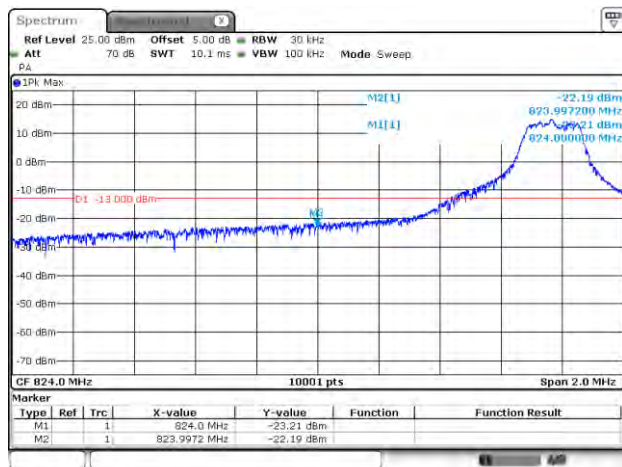
Cat M1_Band 26_CH27015_5M_QPSK_6RB0



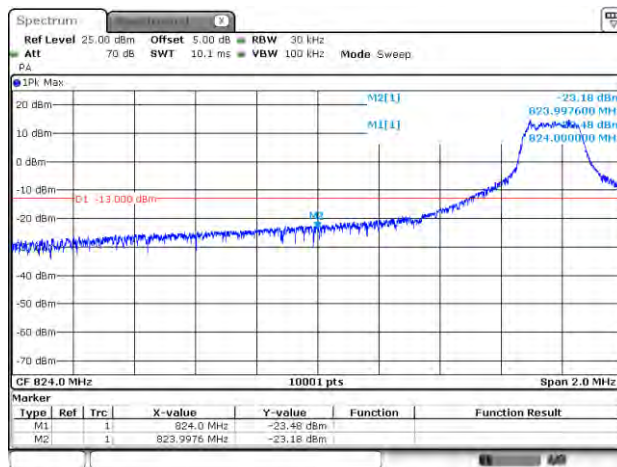
Cat M1_Band 26_CH27015_5M_16-QAM_5RB1



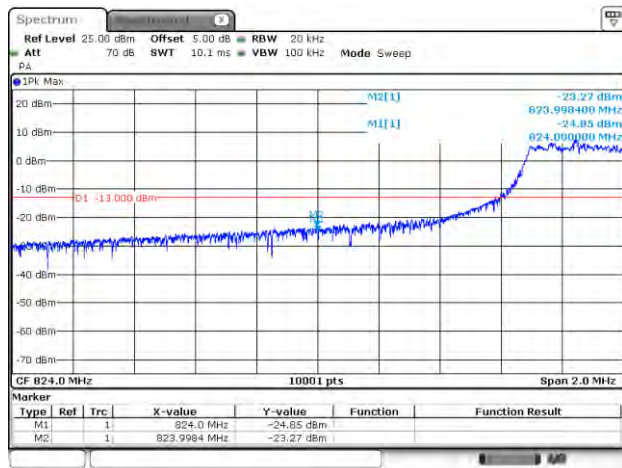
Cat M1_Band 26_CH26840_10M_QPSK_1RB0



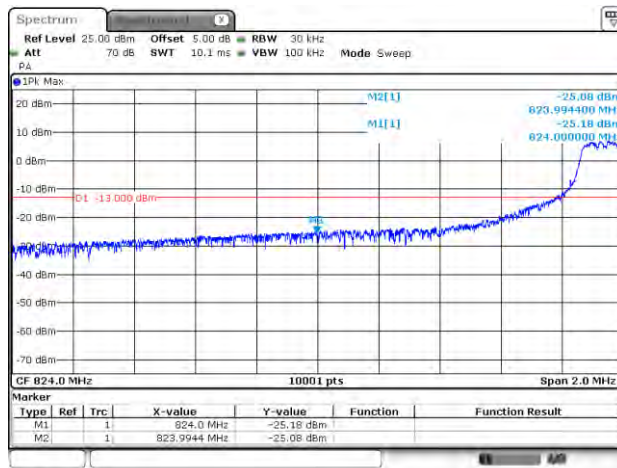
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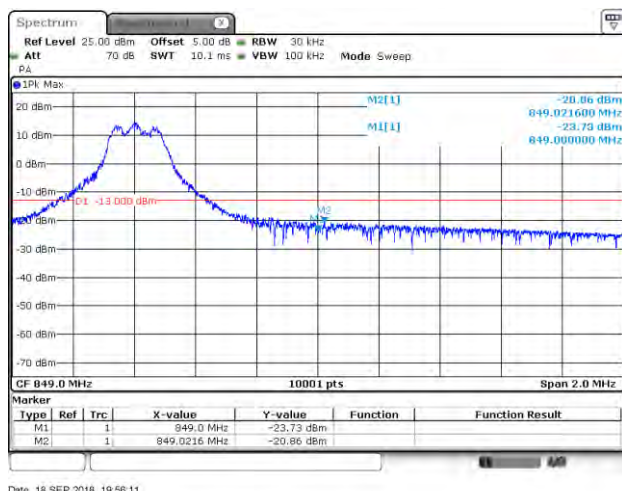
Cat M1_Band 26_CH26840_10M_QPSK_6RB0



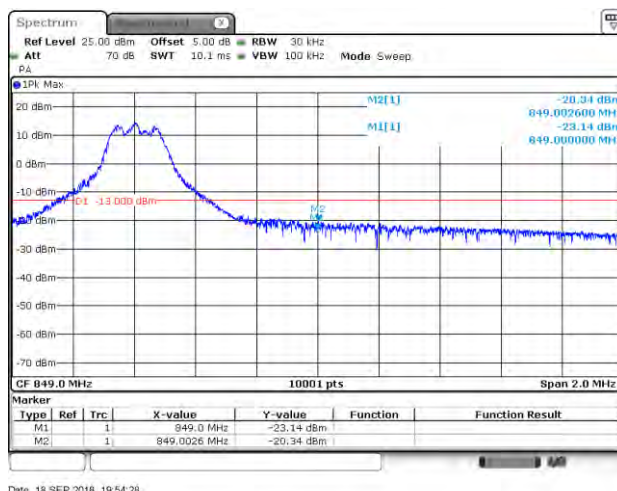
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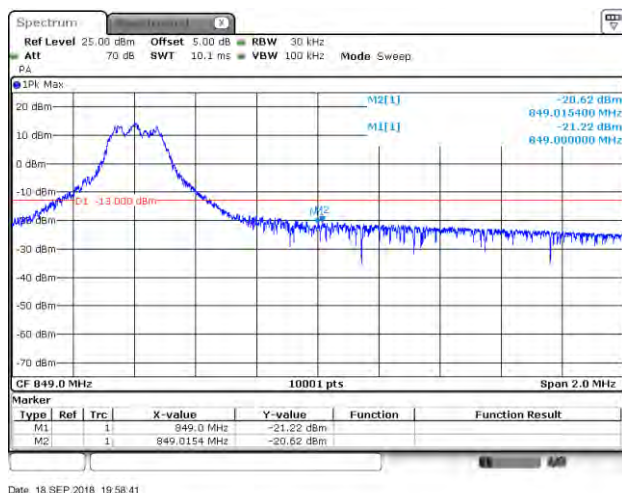
Cat M1_Band 26_CH26990_10M_QPSK_1RB0



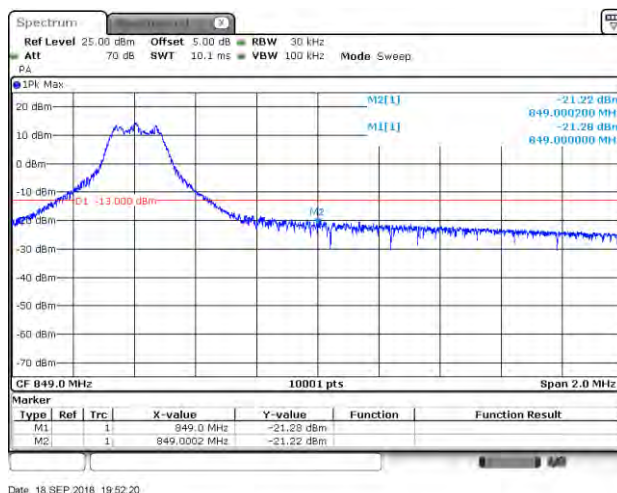
Cat M1_Band 26_CH26990_10M_16-QAM_1RB5



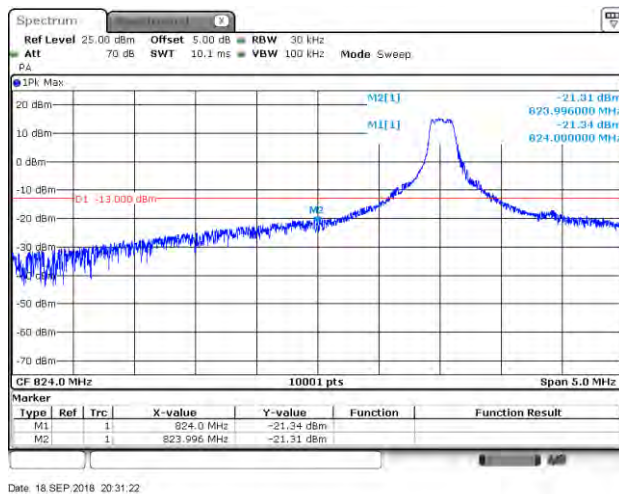
Cat M1_Band 26_CH26990_10M_QPSK_6RB0



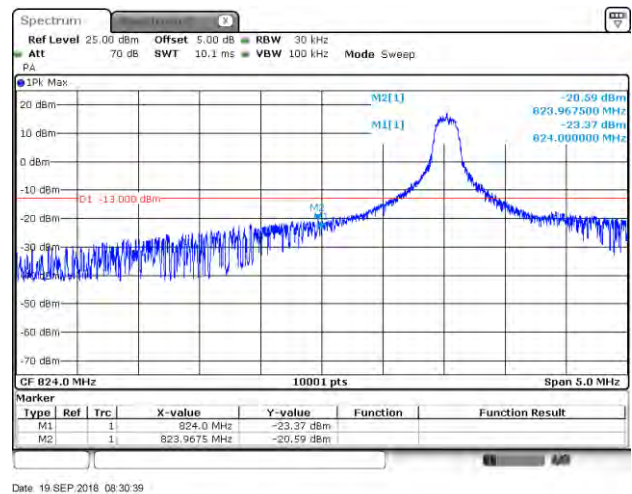
Cat M1_Band 26_CH26990_10M_16-QAM_5RB1



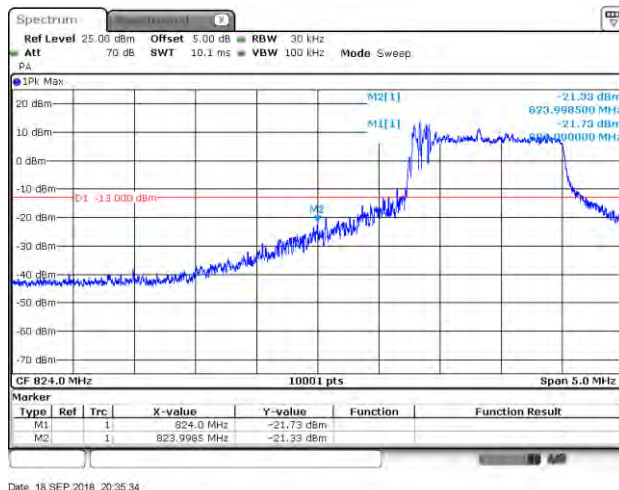
Cat M1_Band 26_CH26865_15M_QPSK_1RB0



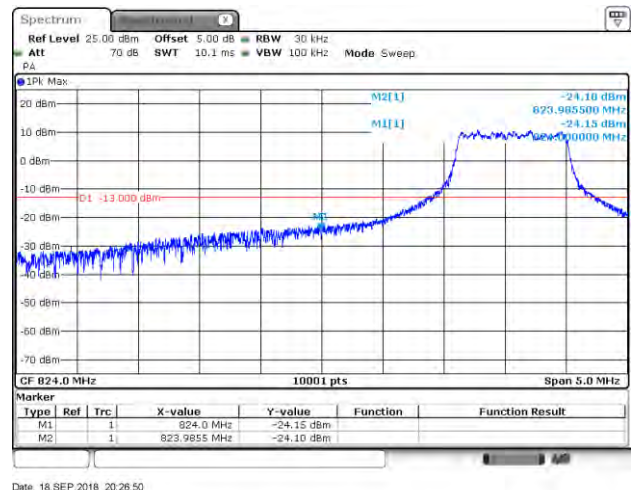
Cat M1_Band 26_CH26865_15M_16-QAM_1RB0



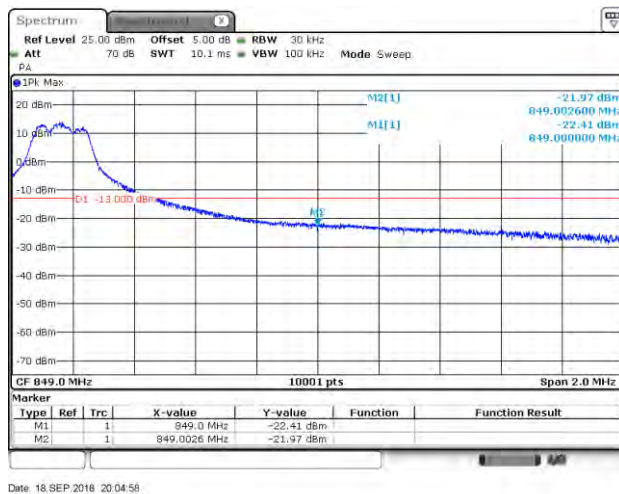
Cat M1_Band 26_CH26865_15M_QPSK_6RB0



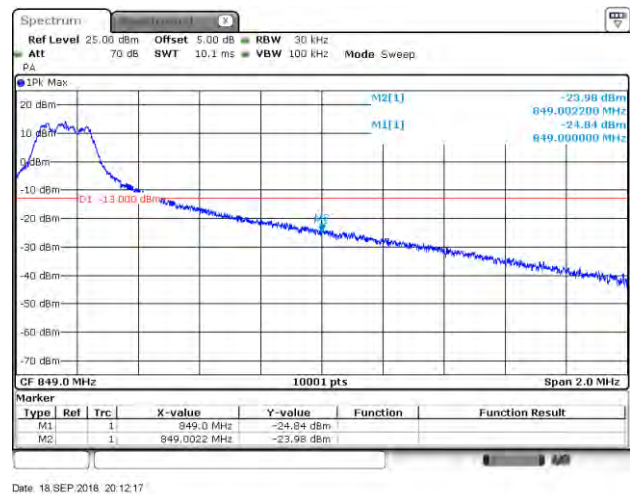
Cat M1_Band 26_CH26865_15M_16-QAM_5RB1



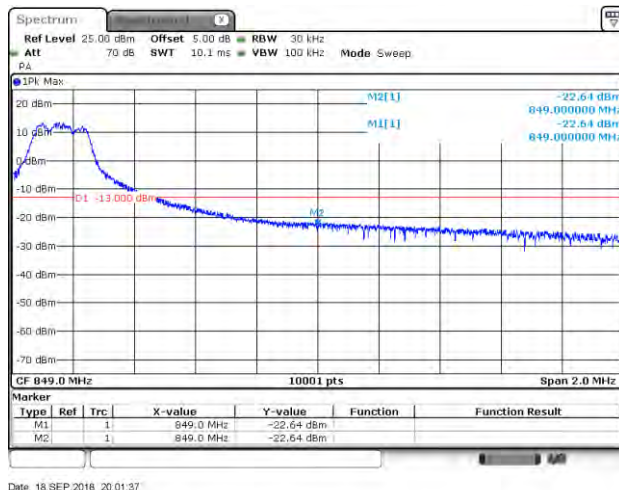
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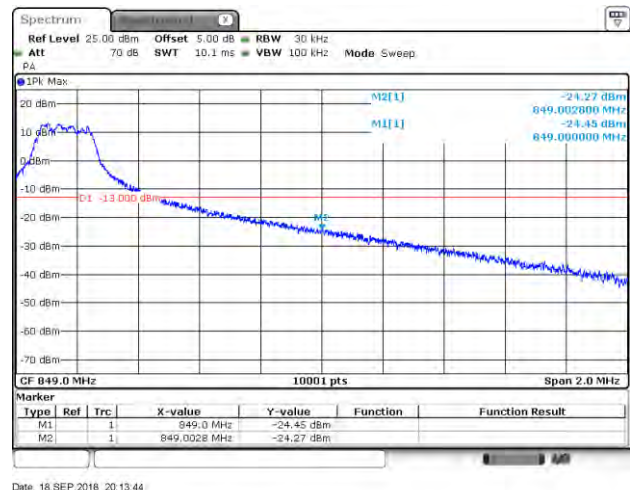
Cat M1_Band 26_CH26965_15M_16-QAM_1RB5



Cat M1_Band 26_CH26965_15M_QPSK_6RB0

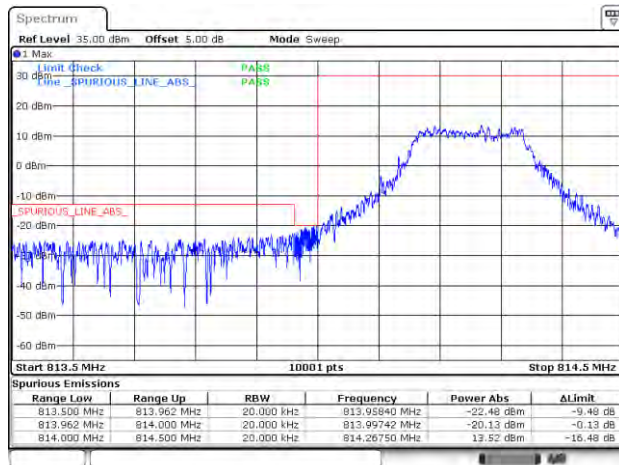


Cat M1_Band 26_CH26965_15M_16-QAM_5RB1

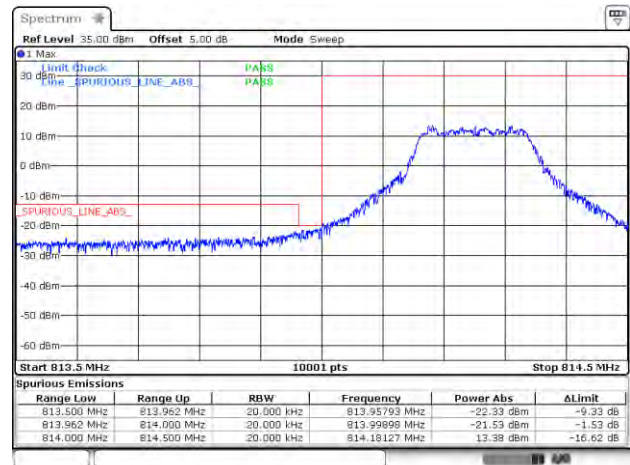


Product	ME910C1-WW		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 4: LTE Band 26 (Part 90)		
Date of Test	2018/09/19	Test Site	SR10-H

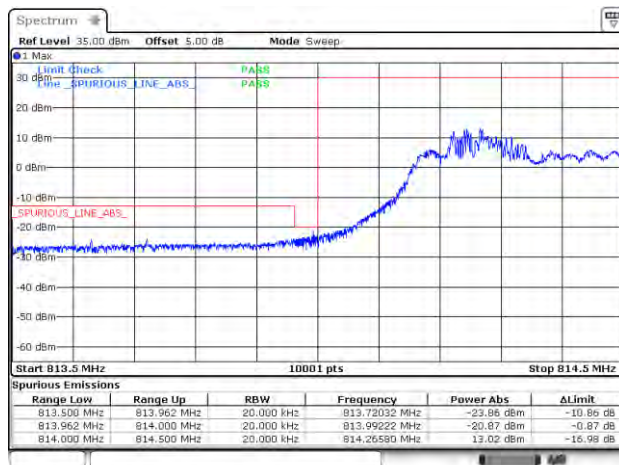
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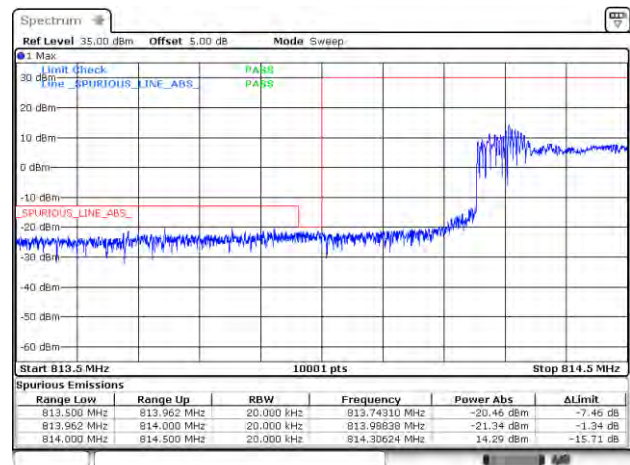
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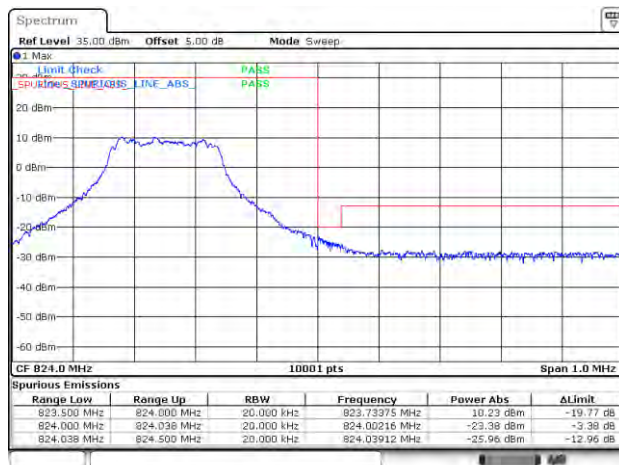
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Cat M1_Band 26_CH26697_1.4M_16-QAM_5RB1

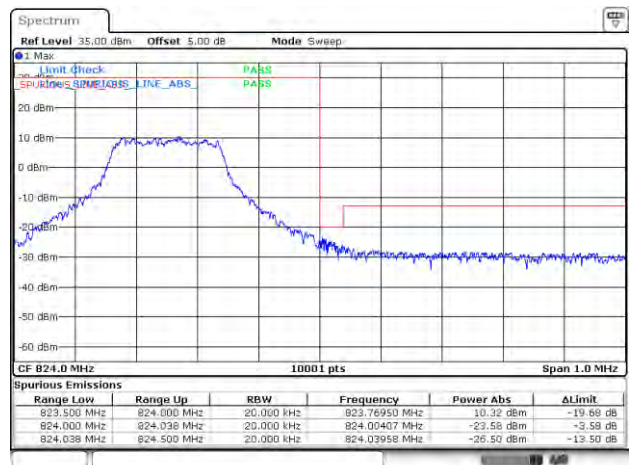


Cat M1_Band 26_CH26783_1.4M_QPSK_1RB0



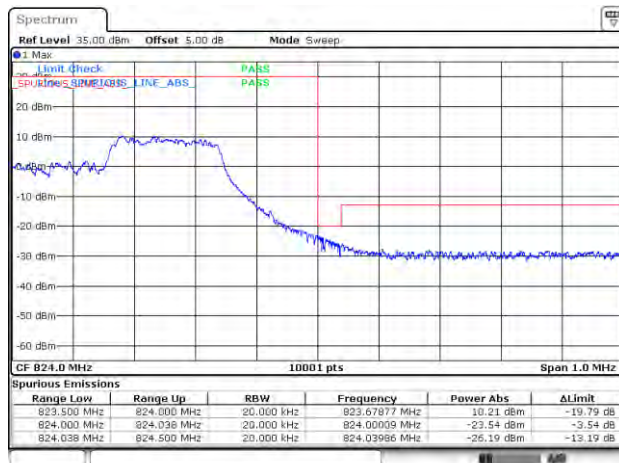
Date: 19 SEP.2018 17:07:30

Cat M1_Band 26_CH26783_1.4M_16-QAM_1RB5



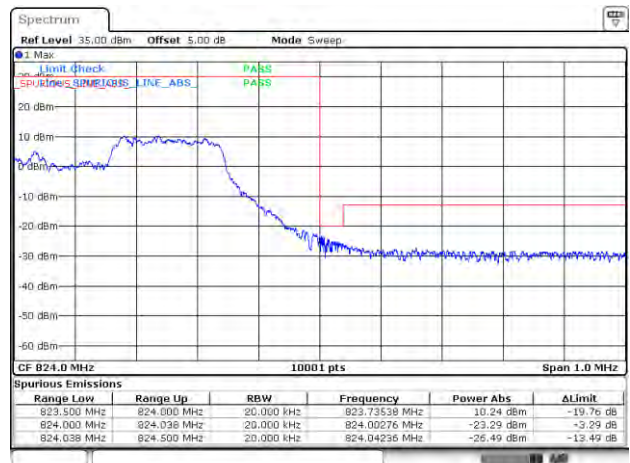
Date: 19 SEP.2018 16:47:09

Cat M1_Band 26_CH26783_1.4M_QPSK_6RB0



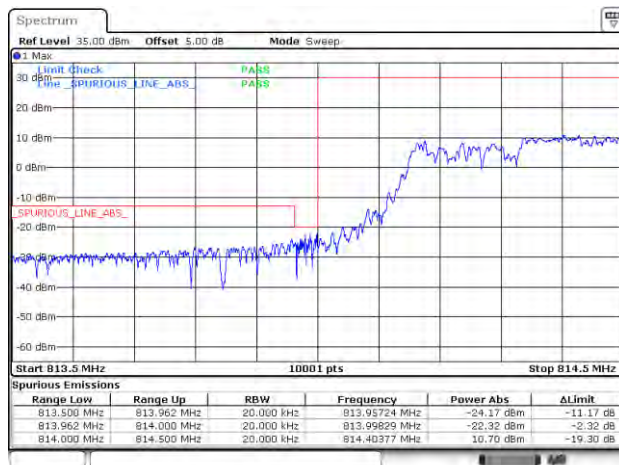
Date: 19 SEP.2018 17:10:37

Cat M1_Band 26_CH26783_1.4M_16-QAM_5RB1

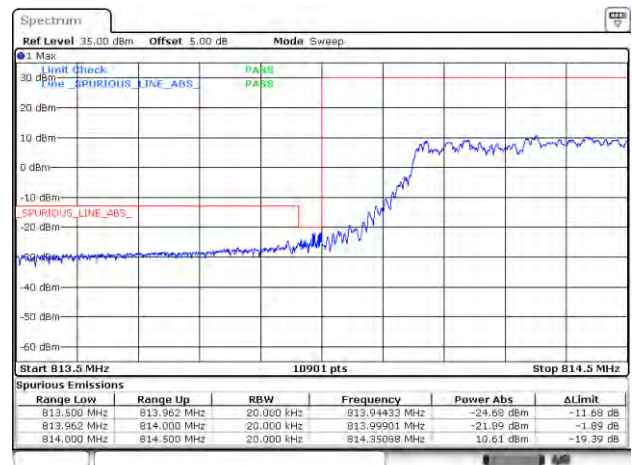


Date: 19 SEP.2018 16:45:19

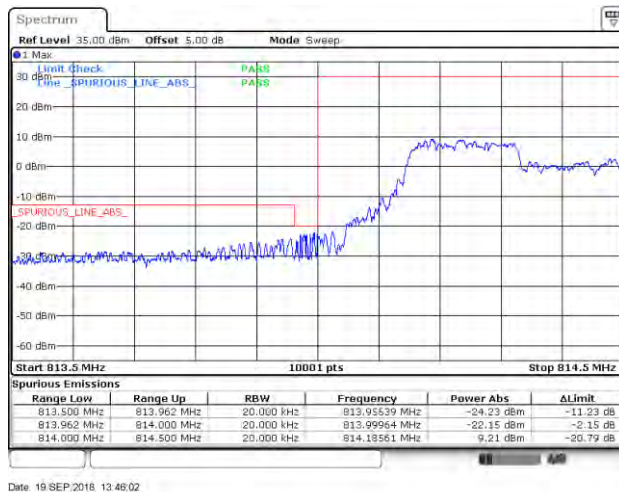
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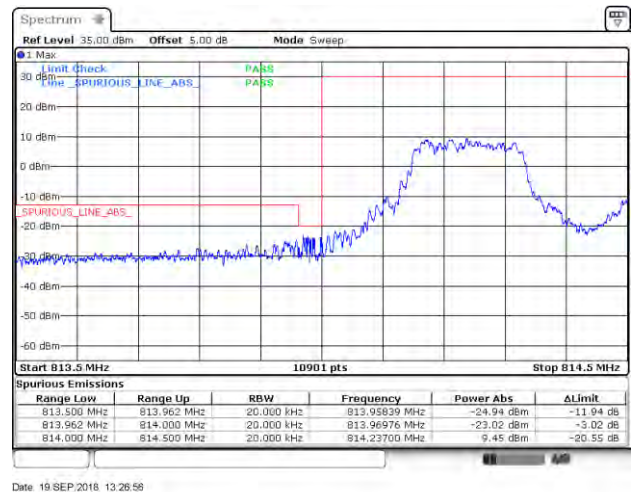
Cat M1_Band 26_CH26705_3M_16-QAM_1RB0



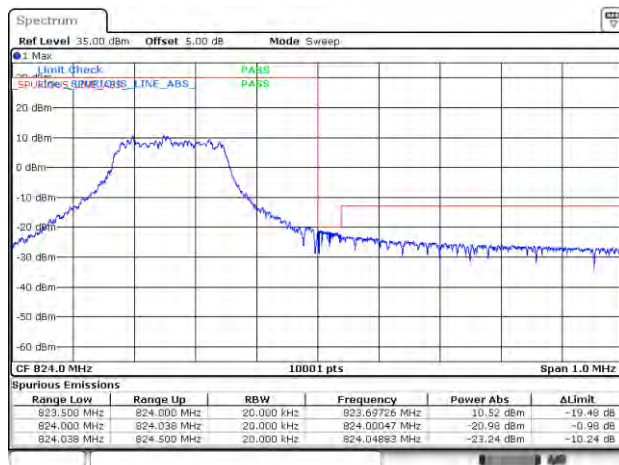
Cat M1_Band 26_CH26705_3M_QPSK_6RB0



Cat M1_Band 26_CH26705_3M_16-QAM_5RB1

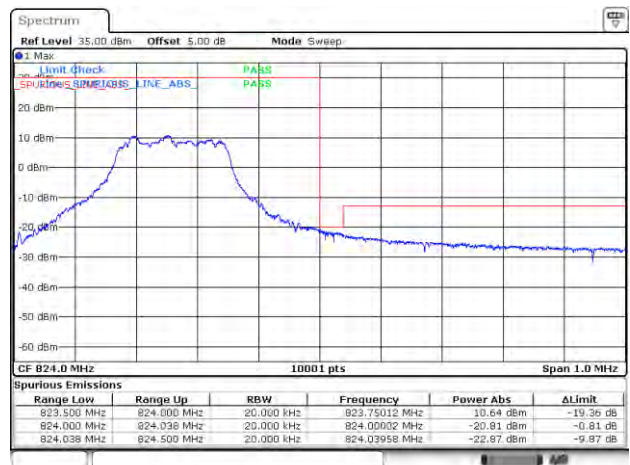


Cat M1_Band 26_CH26775_3M_QPSK_1RB0



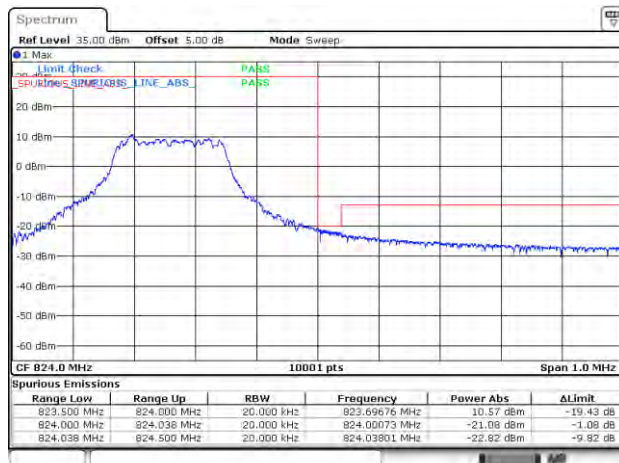
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Cat M1_Band 26_CH26775_3M_16-QAM_1RB0



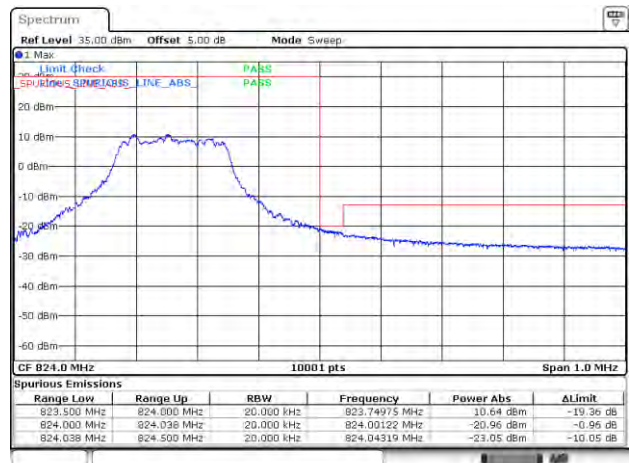
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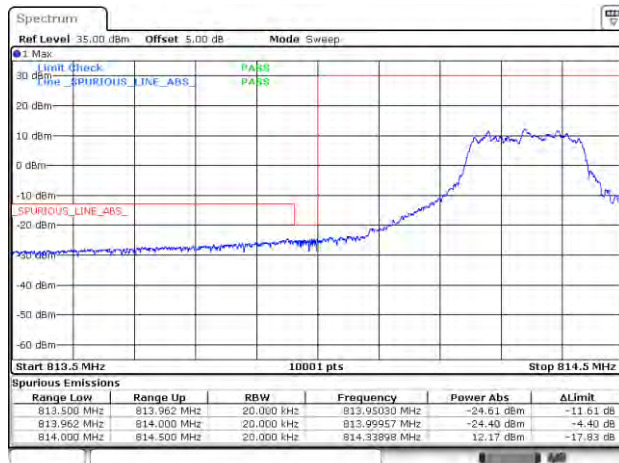
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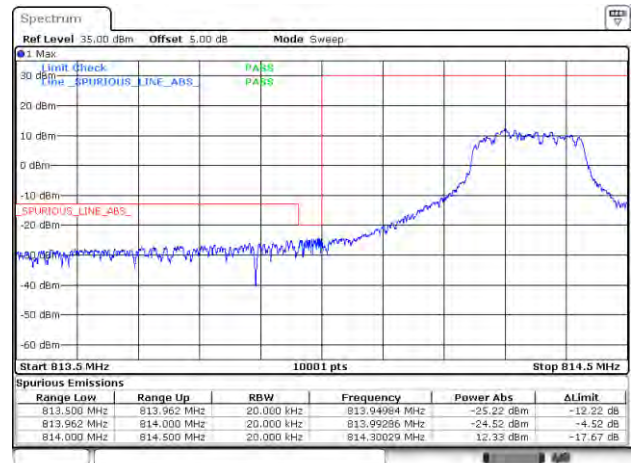


Date: 19 SEP.2018 16:23:17

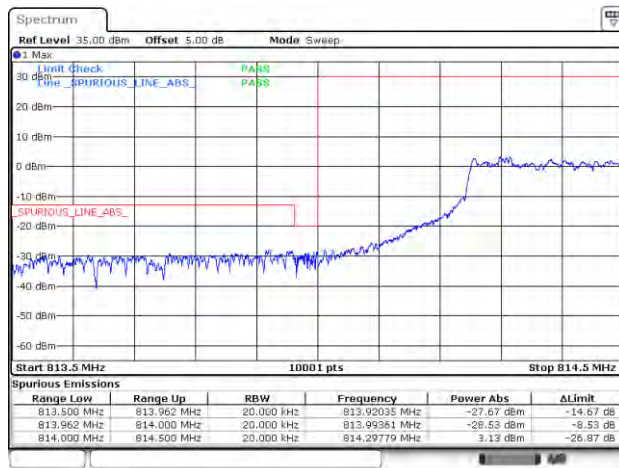
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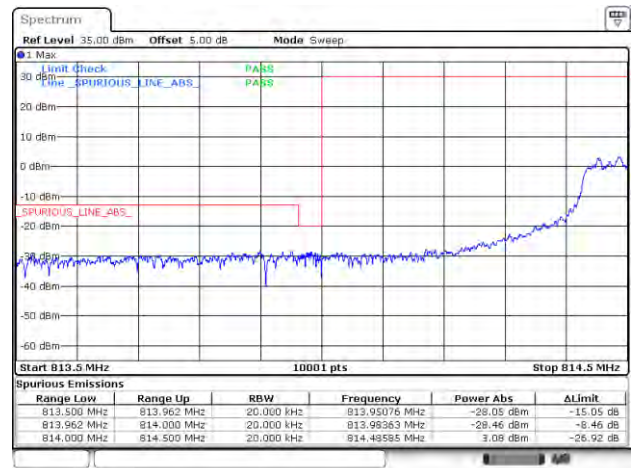
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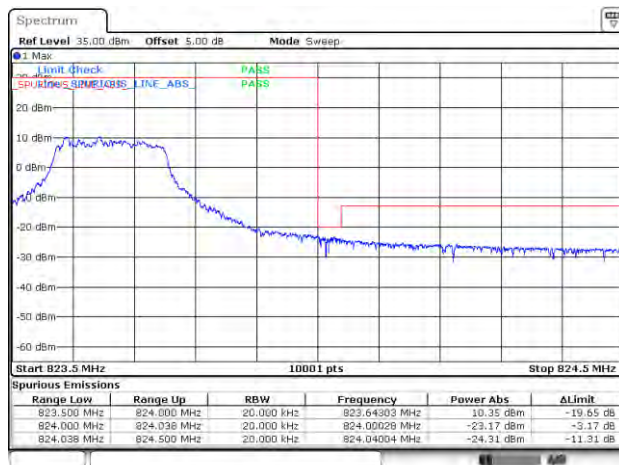
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Cat M1_Band 26_CH26715_5M_16-QAM_5RB1

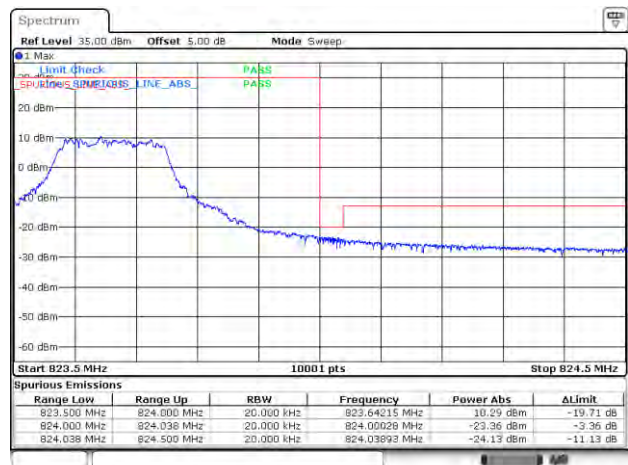


Cat M1_Band 26_CH26765_5M_QPSK_1RB0



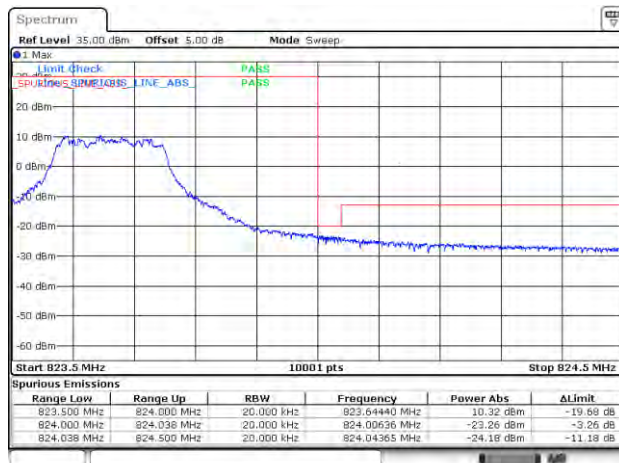
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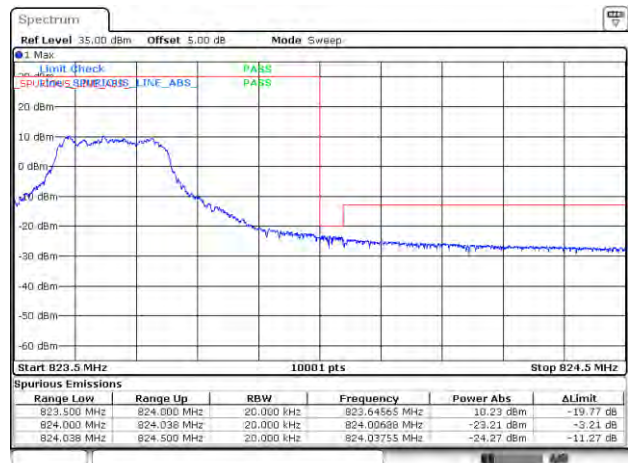
Date: 19 SEP.2018 15:02:27

Cat M1_Band 26_CH26765_5M_QPSK_6RB0



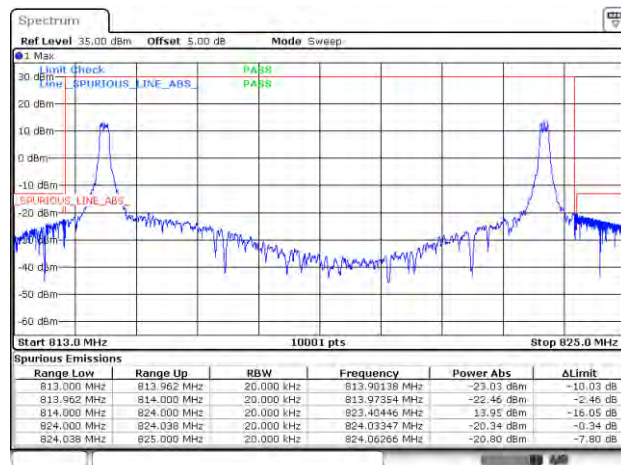
Date: 19 SEP.2018 15:08:09

Cat M1_Band 26_CH26765_5M_16-QAM_5RB1



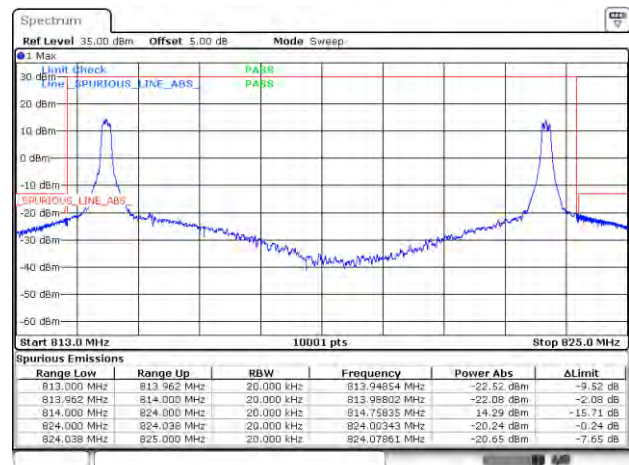
Date: 19 SEP.2018 14:48:24

Cat M1_Band 26_CH26740_10M_QPSK_1RB0



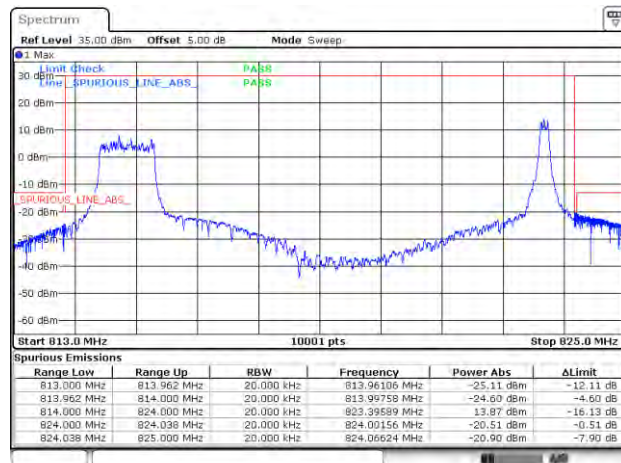
Date: 19 SEP 2018 17:28:17

Cat M1_Band 26_CH26740_10M_16-QAM_1RB0



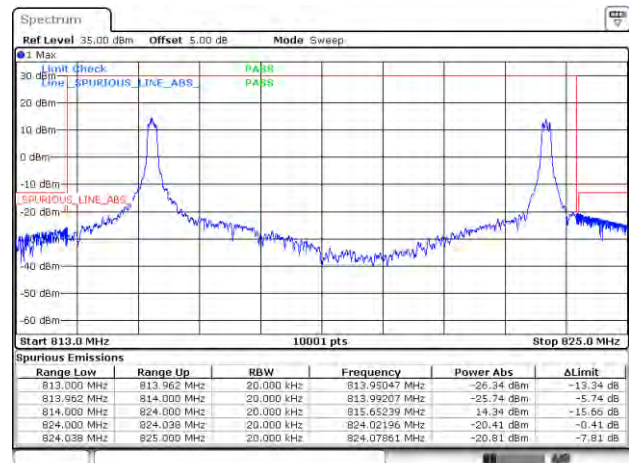
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Cat M1_Band 26_CH26740_10M_QPSK_6RB0



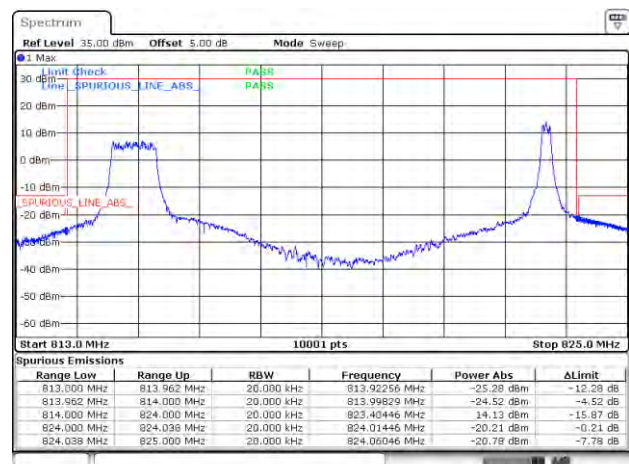
Date: 19 SEP 2018 17:21:28

Cat M1_Band 26_CH26740_10M_16-QAM_1RB5



Date: 19 SEP 2018 17:48:09

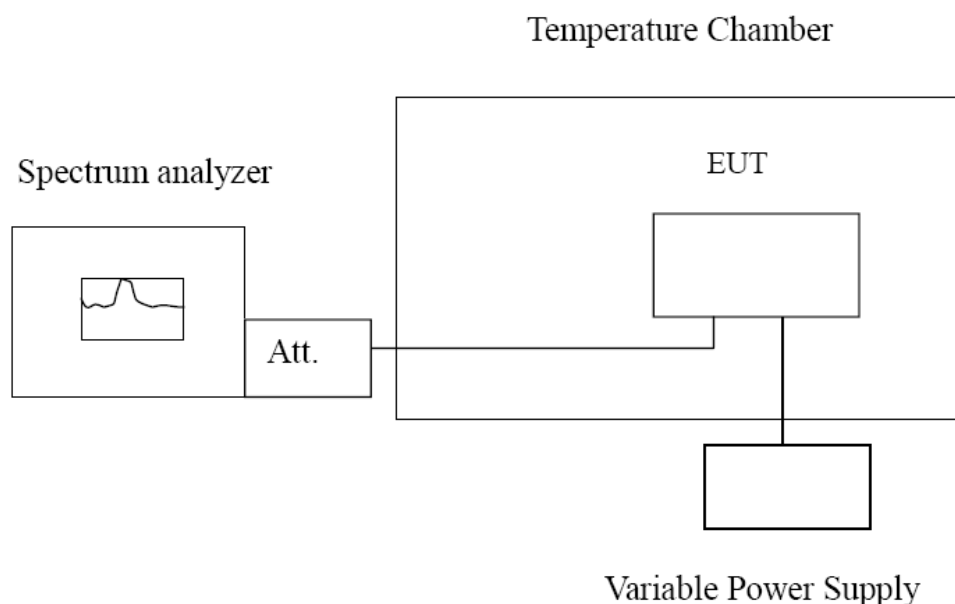
Cat M1_Band 26_CH26740_10M_16-QAM_5RB1



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