

Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2019/04/25	Test Site	SR10-H

B5_CH20407_1.4M_1RB2_QPSK



Date: 11.APR.2019 19:08:56

B5_CH20525_1.4M_1RB2_QPSK



Date: 11.APR.2019 19:58:07

B5_CH20643_1.4M_1RB2_QPSK

Date: 11.APR.2019 19:58:38

B5_CH20407_1.4M_1RB2_16-QAM

Date: 11.APR.2019 19:09:18

B5_CH20525_1.4M_1RB2_16-QAM

Date: 11 APR 2019 19:54:54

B5_CH20643_1.4M_1RB2_16-QAM

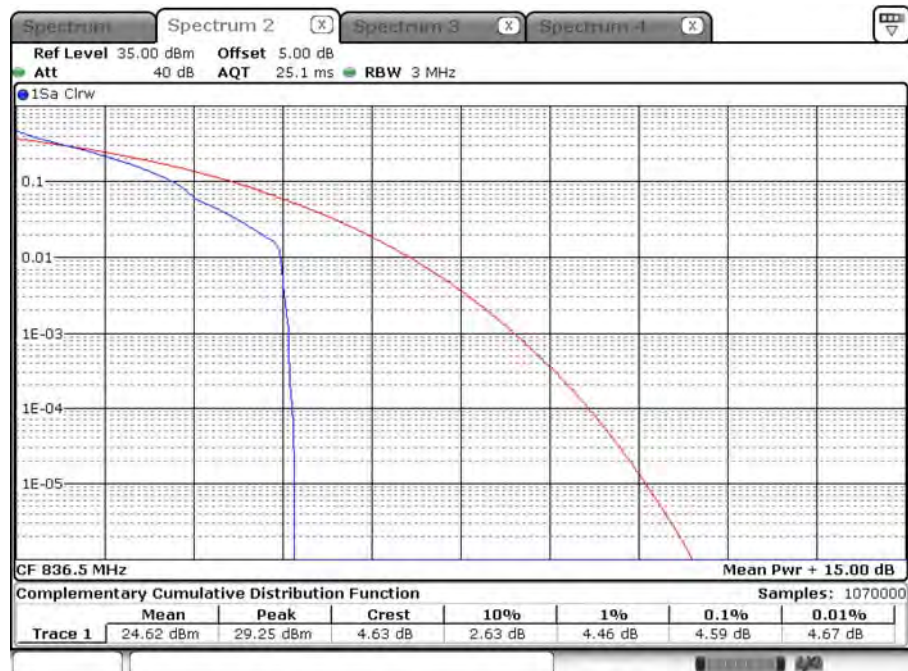
Date: 11 APR 2019 19:59:39

B5_CH20415_3M_1RB7_QPSK

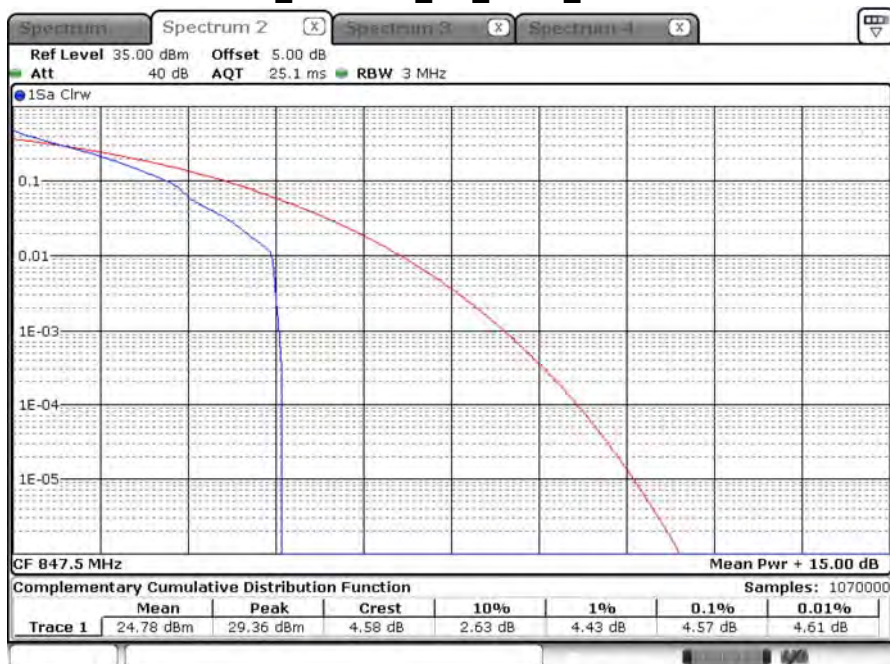


Date: 11 APR 2019 20:13:50

B5_CH20525_3M_1RB7_QPSK



Date: 11 APR 2019 20:19:31

B5_CH20635_3M_1RB7_QPSK

Date: 11.APR.2019 20:26:52

B5_CH20415_3M_1RB7_16-QAM

Date: 11.APR.2019 20:11:38

B5_CH20525_3M_1RB7_16-QAM

Date: 11.APR.2019 20:22:05

B5_CH20635_3M_1RB7_16-QAM

Date: 11.APR.2019 20:26:37

B5_CH20425_5M_1RB12_QPSK



Date: 11.APR.2019 20:34:33

B5_CH20525_5M_1RB12_QPSK



Date: 11.APR.2019 20:52:54

B5_CH20625_5M_1RB12_QPSK

Date: 11.APR.2019 20:58:31

B5_CH20425_5M_1RB12_16-QAM

Date: 11.APR.2019 20:34:04

B5_CH20525_5M_1RB12_16-QAM

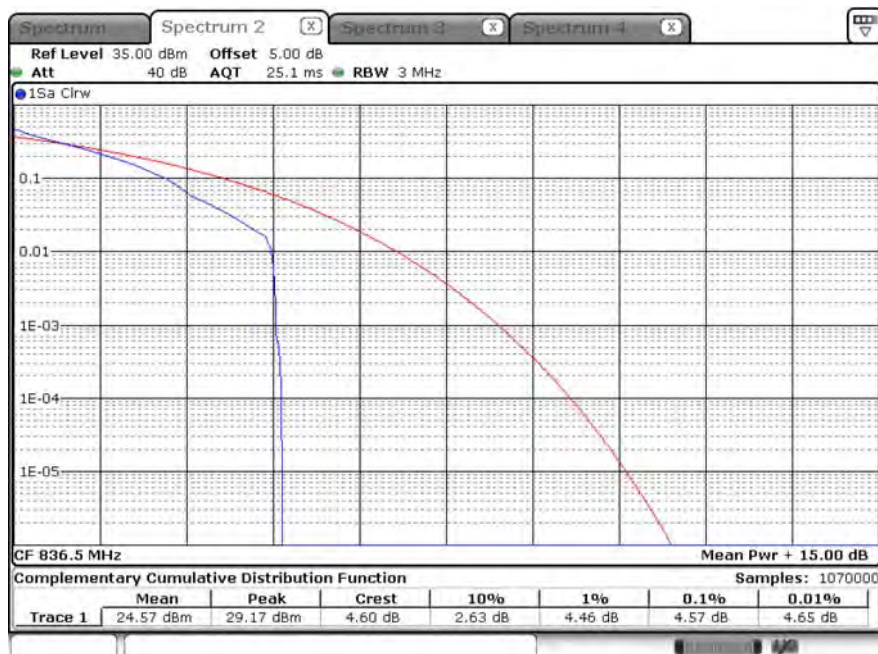
Date: 11.APR.2019 20:53:16

B5_CH20625_5M_1RB12_16-QAM

Date: 11.APR.2019 20:55:32

B5_CH20450_10M_1RB24_QPSK

Date: 11.APR.2019 21:09:17

B5_CH20525_10M_1RB24_QPSK

Date: 11.APR.2019 21:14:23

B5_CH20600_10M_1RB24_QPSK

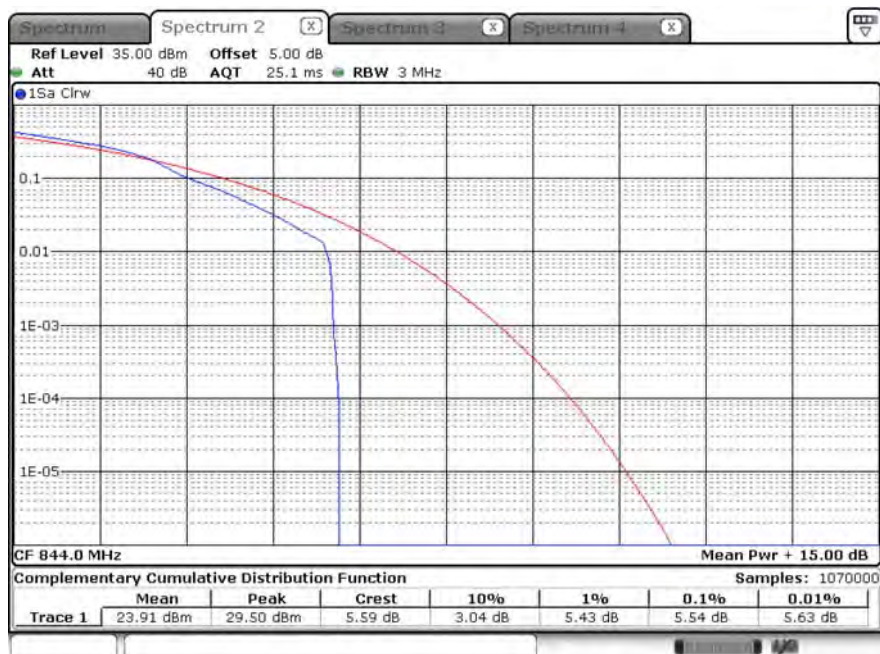
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Date: 11.APR.2019 21:09:45

B5_CH20525_10M_1RB24_16-QAM

Date: 11.APR.2019 21:10:57

B5_CH20600_10M_1RB24_16-QAM

Date: 11.APR.2019 21:21:02

Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2019/04/11	Test Site	SR10-H

B7_CH20775_5M_1RB12_QPSK



Date: 11 APR 2019 21:37:49

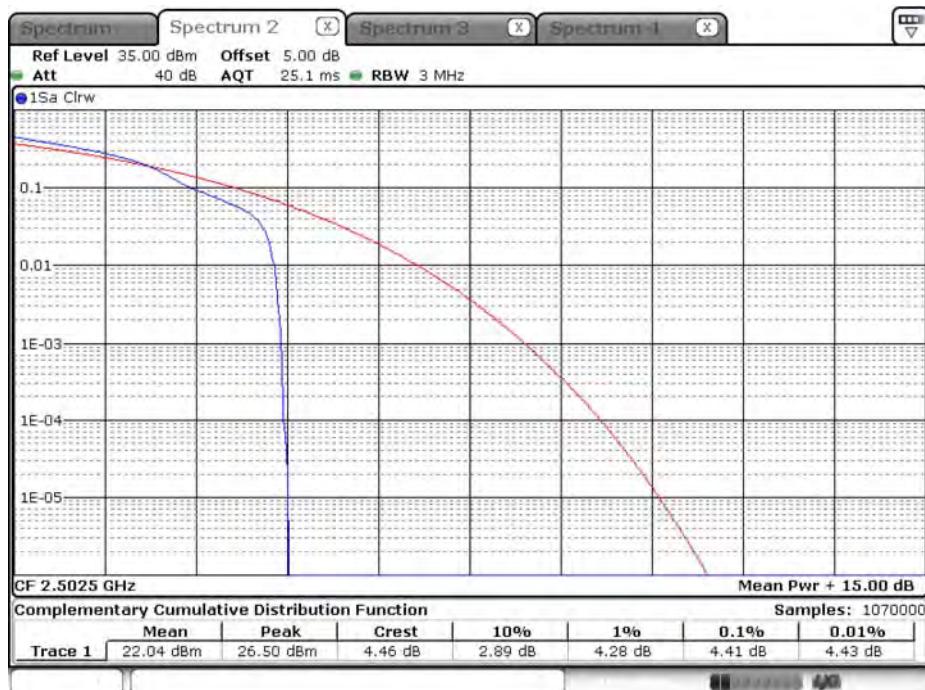
B7_CH21100_5M_1RB12_QPSK



Date: 11 APR 2019 21:41:59

B7_CH21425_5M_1RB12_QPSK

Date: 11.APR.2019 21:42:51

B7_CH20775_5M_1RB12_16-QAM

Date: 11.APR.2019 21:38:50

B7_CH21100_5M_1RB12_16-QAM

Date: 11 APR 2019 21:40:47

B7_CH21425_5M_1RB12_16-QAM

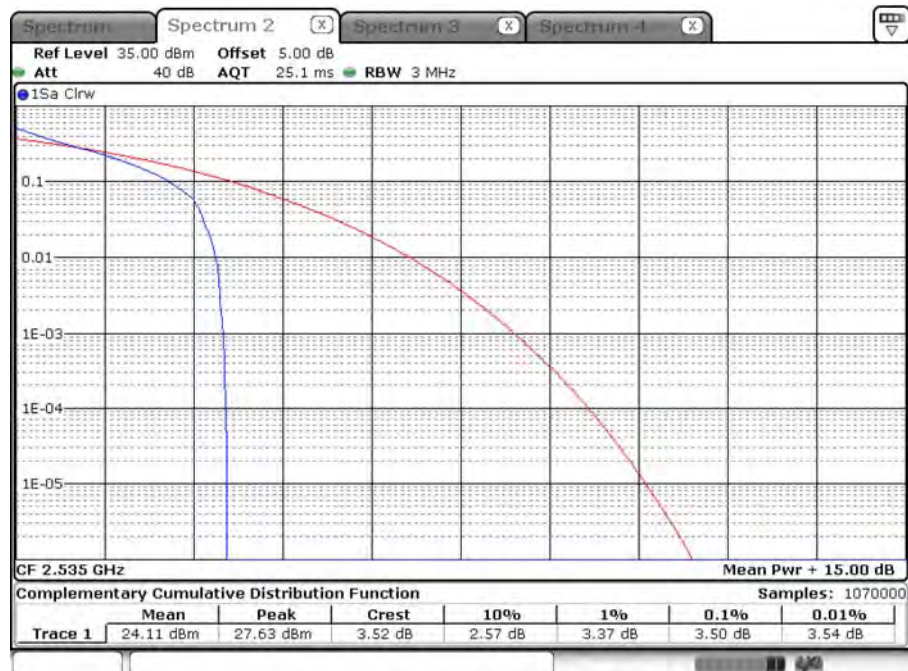
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B7_CH20800_10M_1RB24_QPSK



Date: 11 APR 2019 21:52:26

B7_CH21100_10M_1RB24_QPSK



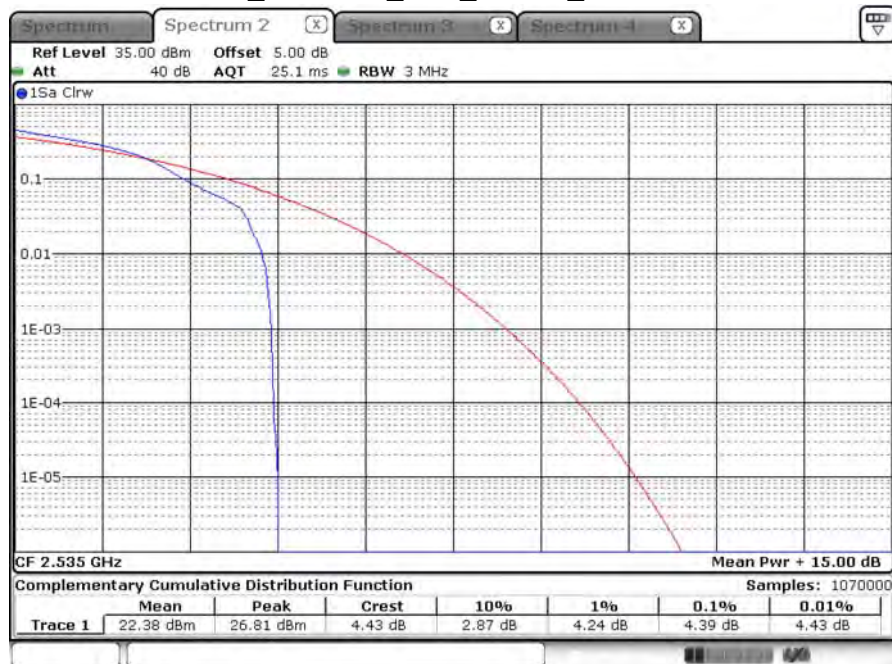
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B7_CH21400_10M_1RB24_QPSK

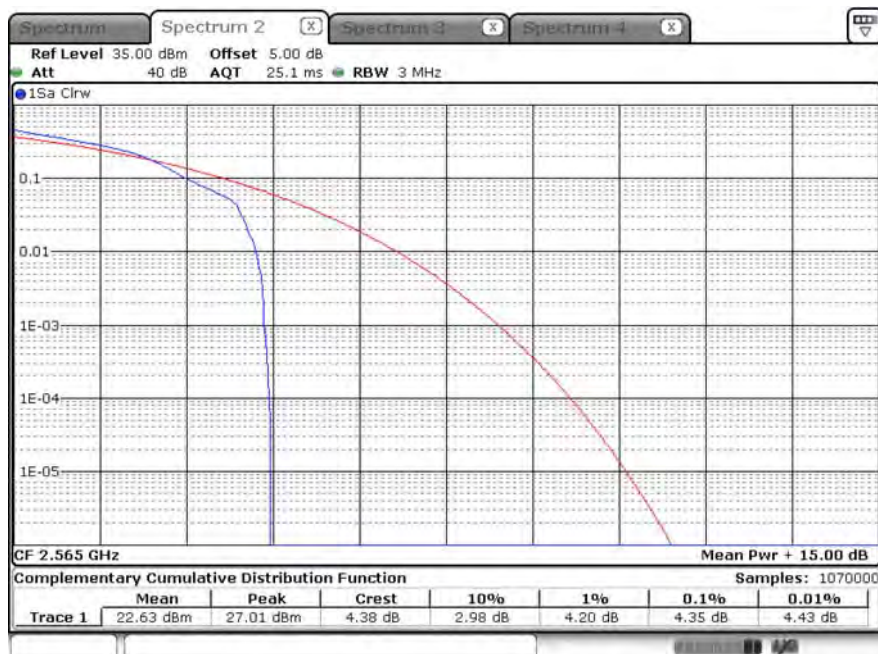
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B7_CH20800_10M_1RB24_16-QAM

Date: 11.APR.2019 21:51:15

B7_CH21100_10M_1RB24_16-QAM

Date: 11.APR.2019 22:05:50

B7_CH21400_10M_1RB24_16-QAM

Date: 11.APR.2019 22:15:40

B7_CH20825_15M_1RB37_QPSK

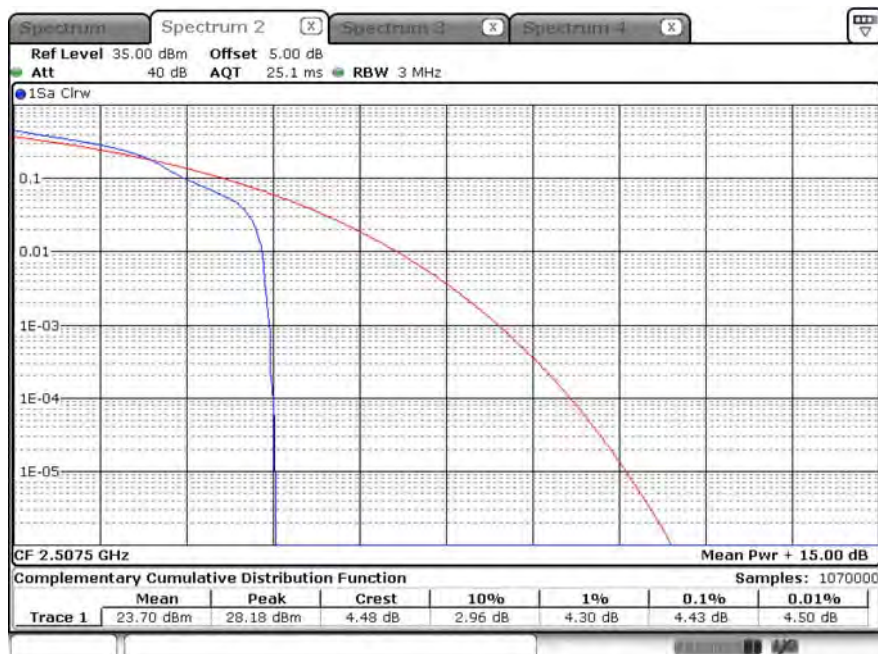
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B7_CH21100_15M_1RB37_QPSK

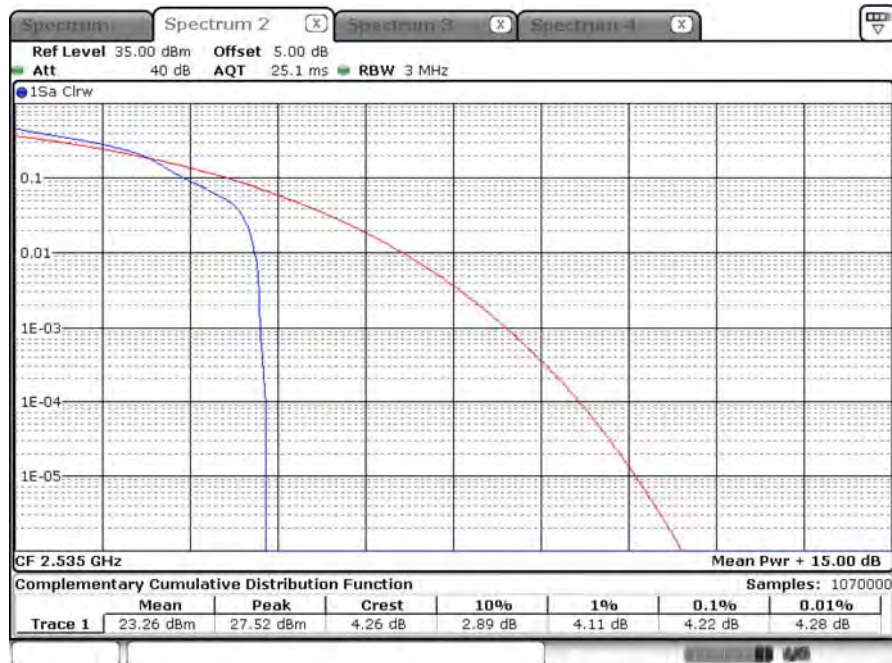
Date: 13 APR 2019 13:01:39

B7_CH21400_15M_1RB37_QPSK

Date: 13.APR.2019 13:47:46

B7_CH20825_15M_1RB37_16-QAM

Date: 11.APR.2019 22:41:17

B7_CH21100_15M_1RB37_16-QAM

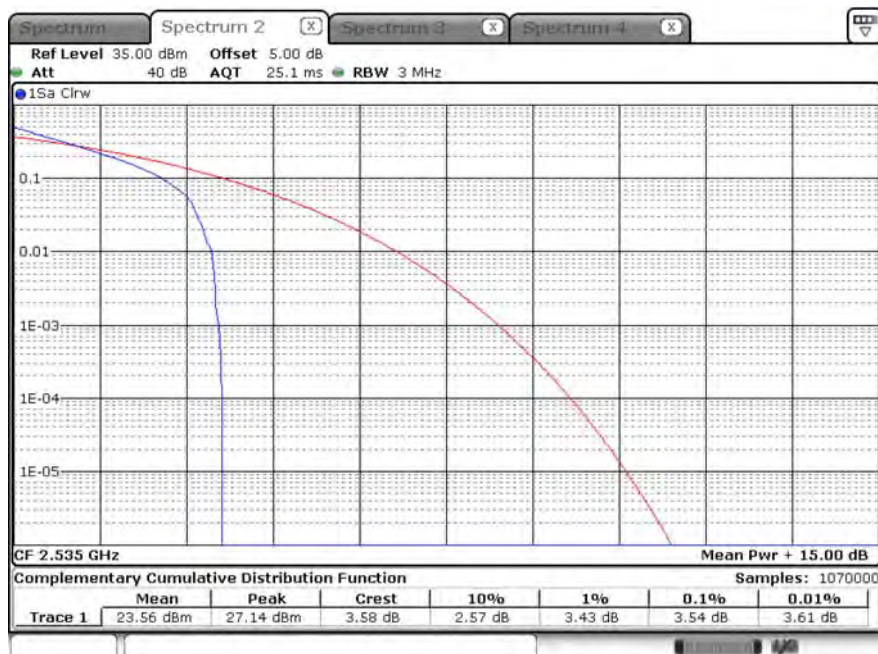
Date: 13.APR.2019 13:14:48

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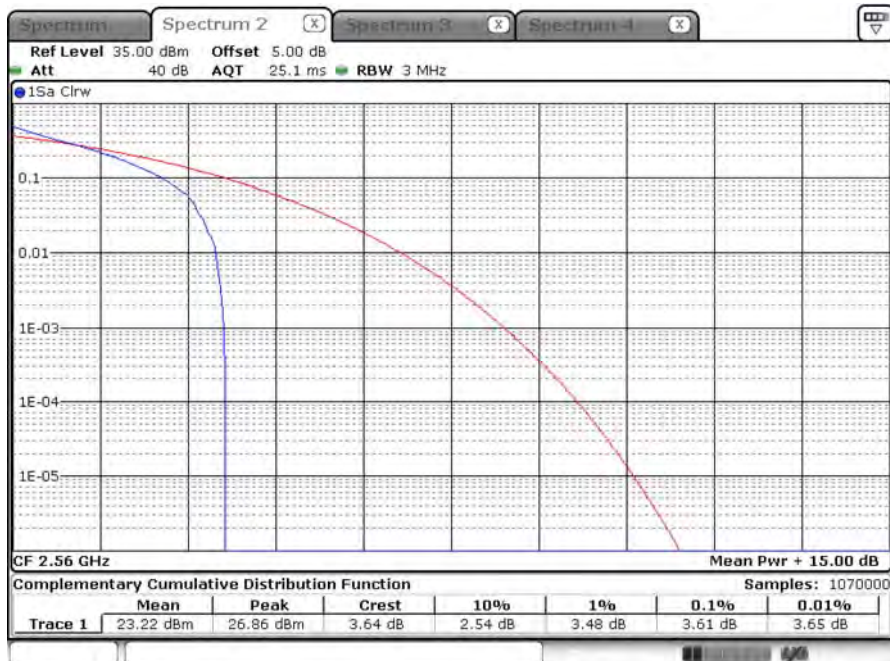
Date: 13.APR.2019 13:16:29

B7_CH20850_20M_1RB49_QPSK

Date: 13.APR.2019 14:00:53

B7_CH21100_20M_1RB49_QPSK

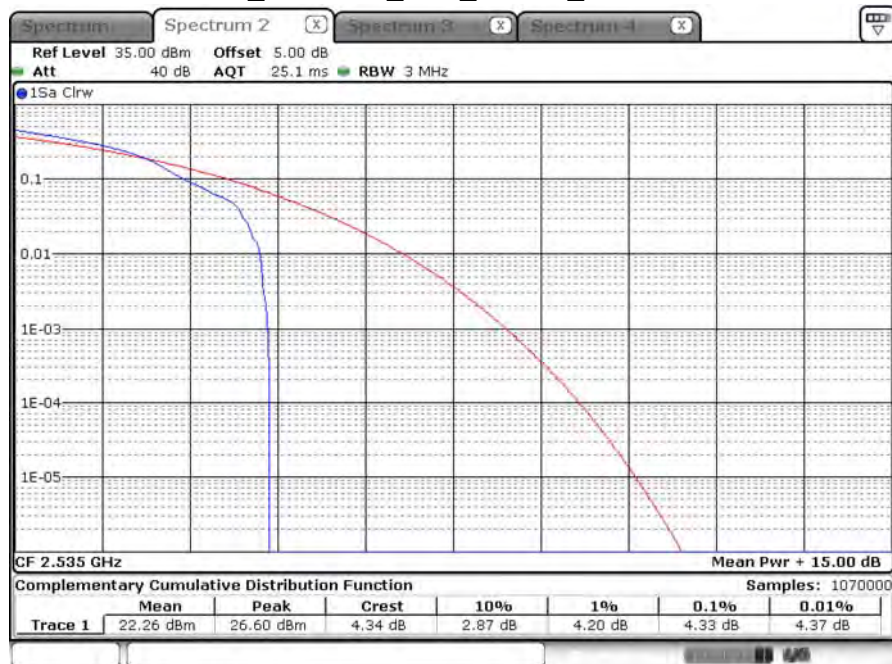
Date: 13.APR.2019 14:14:51

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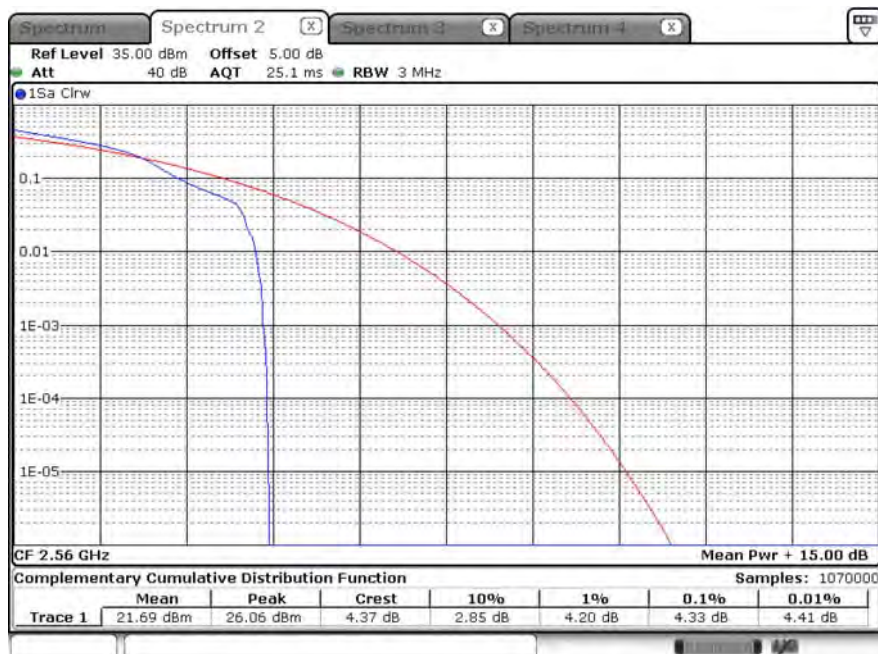
Date: 13.APR.2019 14:15:29

B7_CH20850_20M_1RB49_16-QAM

Date: 13.APR.2019 14:05:59

B7_CH21100_20M_1RB49_16-QAM

Date: 13.APR.2019 14:14:30

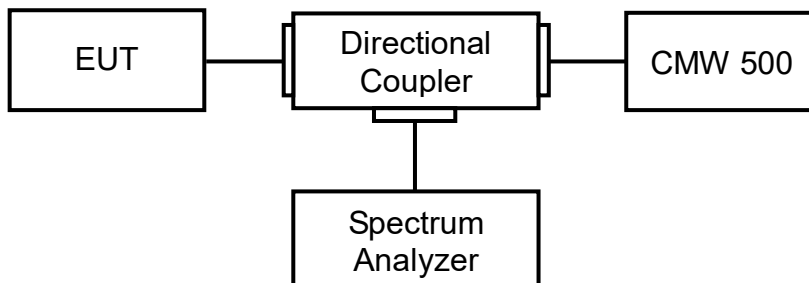
B7_CH21350_20M_1RB49_16-QAM

Date: 13.APR.2019 14:16:03

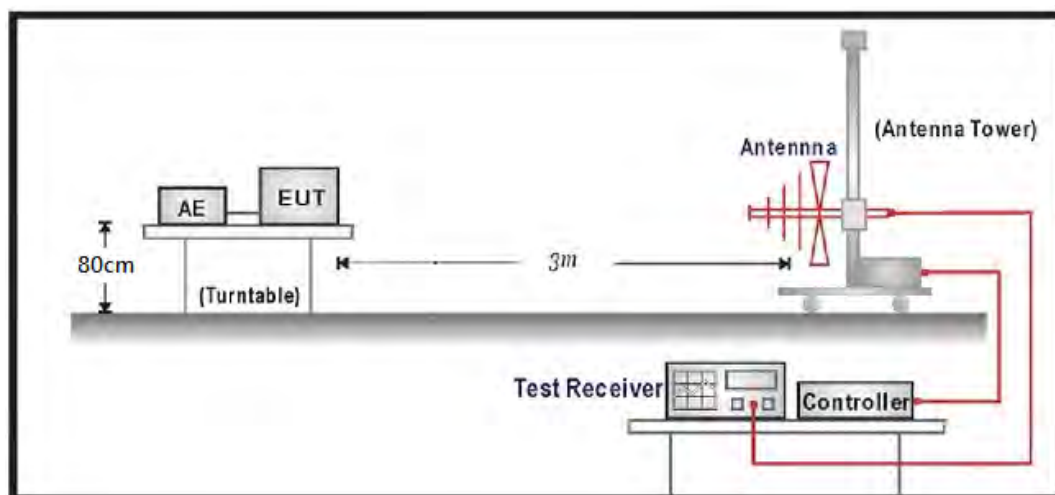
6. Spurious Emissions

6.1. Test Setup

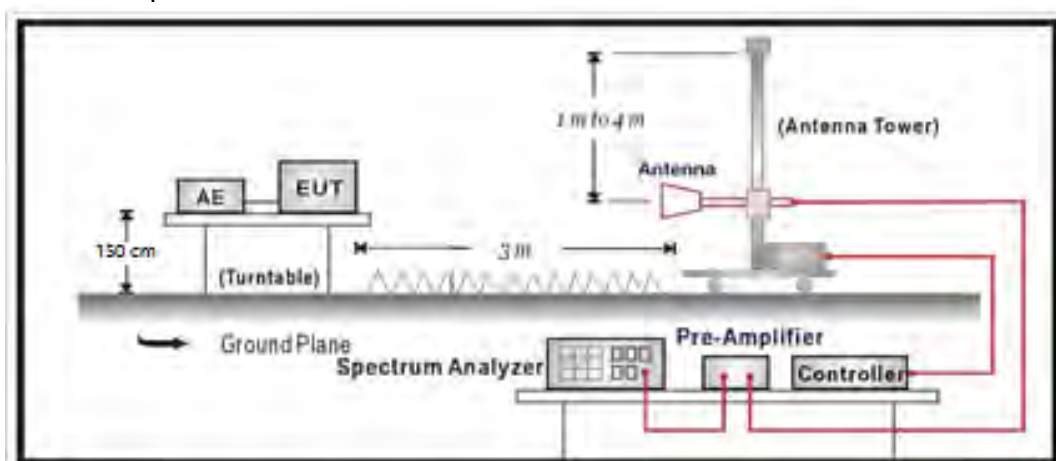
Conducted Spurious Measurement:



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-clause6.1
ANSI C63.26: 2015 Sub-clause 5.7

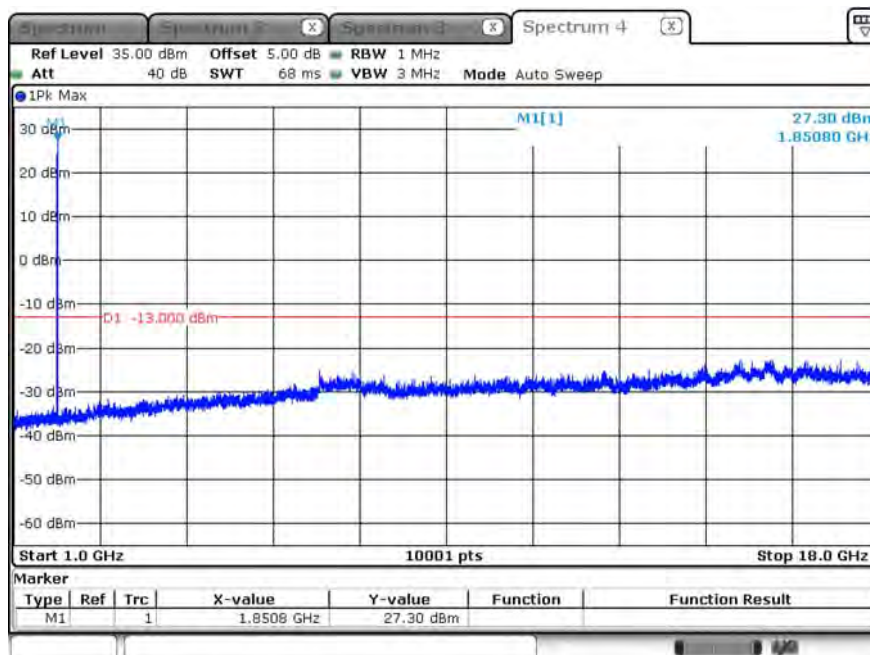
Radiated Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause5.8
ANSI C63.26: 2015 Sub-clause 5.5.3.2

6.4. Test Result

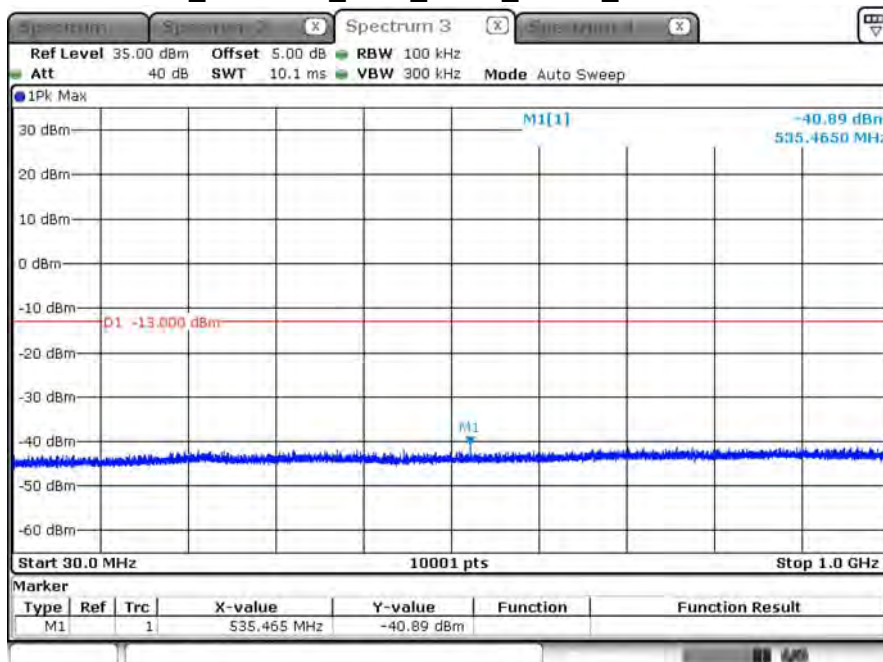
Product	Module		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/04/09	Test Site	SR10-H

B2_CH18607_1.4M_1RB0_QPSK_Above 1G

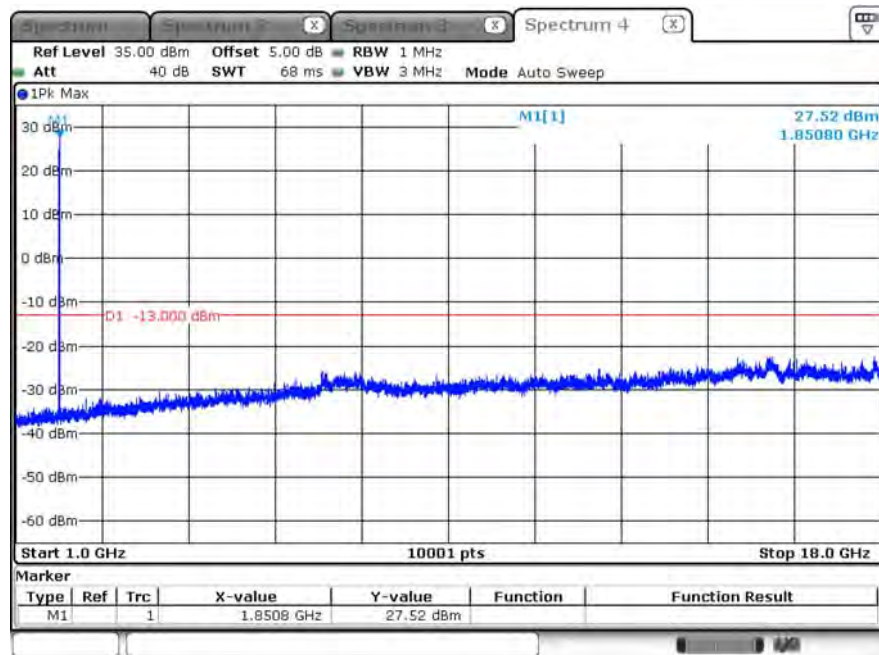


Date: 9 APR.2019 19:17:44

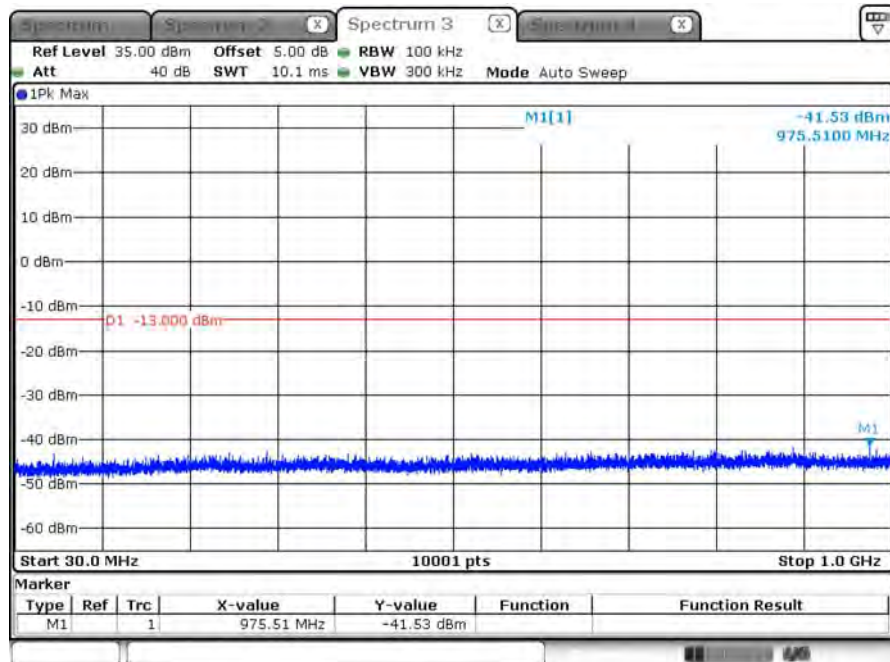
B2_CH18607_1.4M_1RB0_QPSK_Under 1G



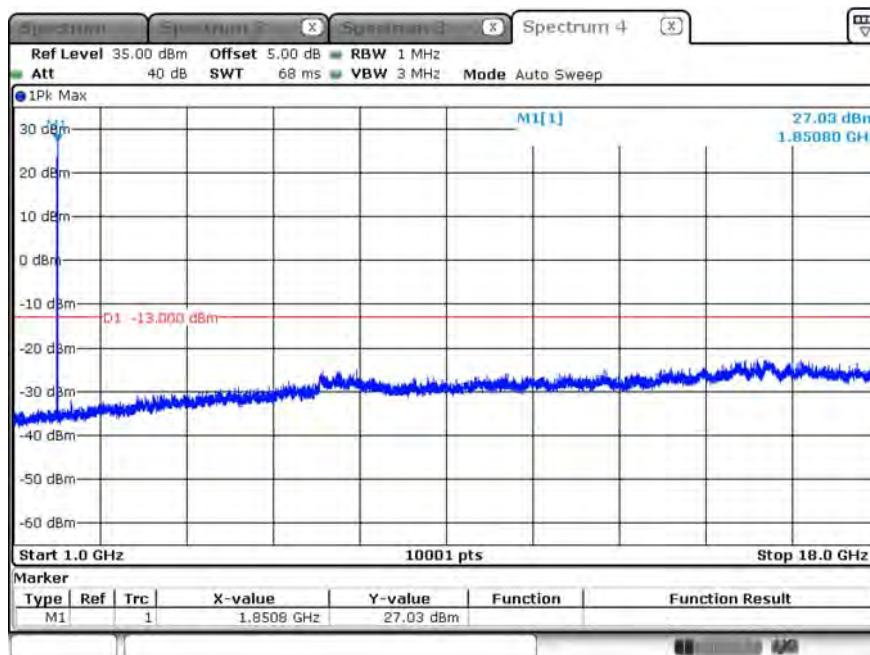
Date: 9 APR.2019 19:16:29

B2_CH18615_3M_1RB0_QPSK_Above 1G

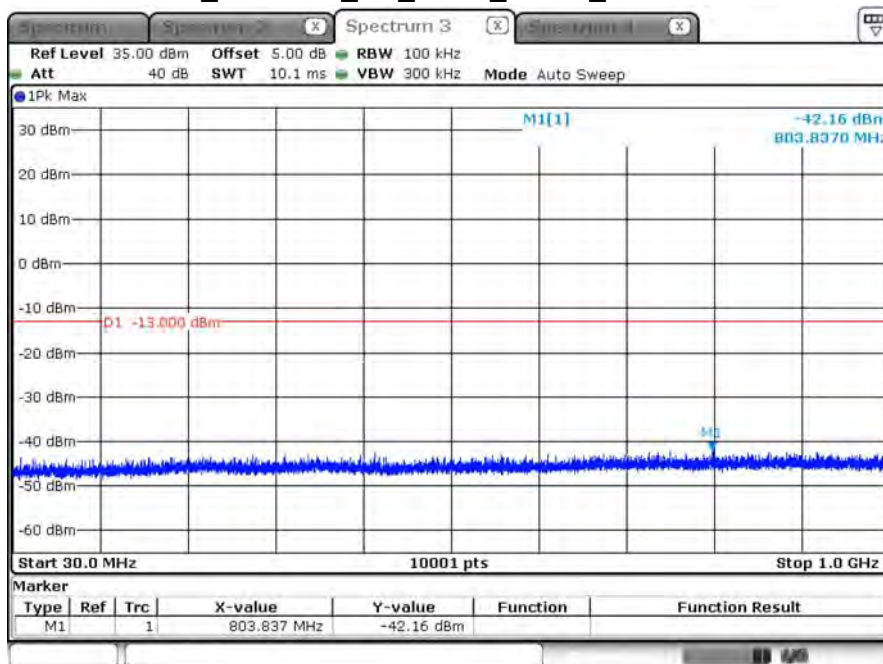
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B2_CH18615_3M_1RB0_QPSK_Under 1G

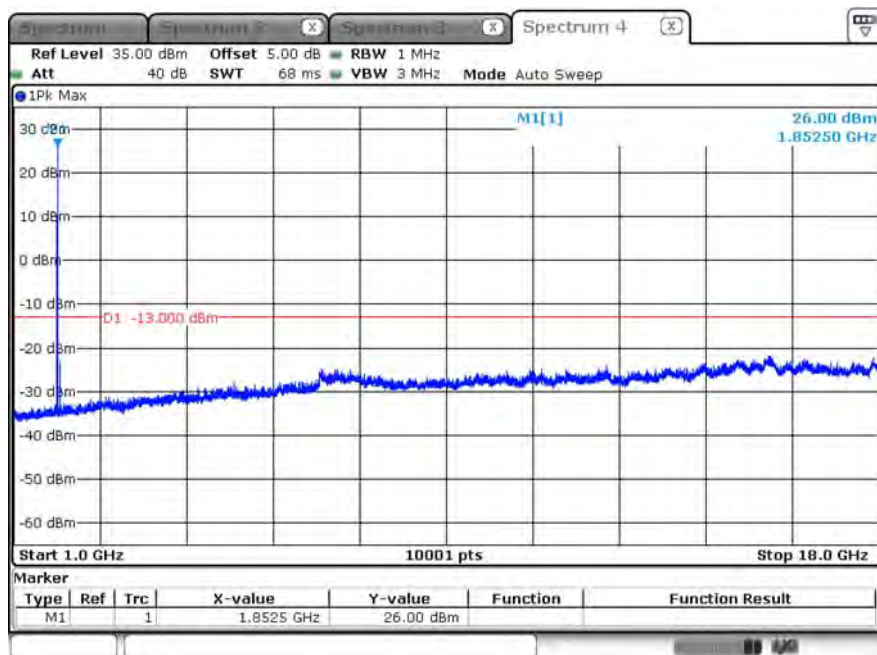
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B2_CH18625_5M_1RB0_QPSK_Above 1G

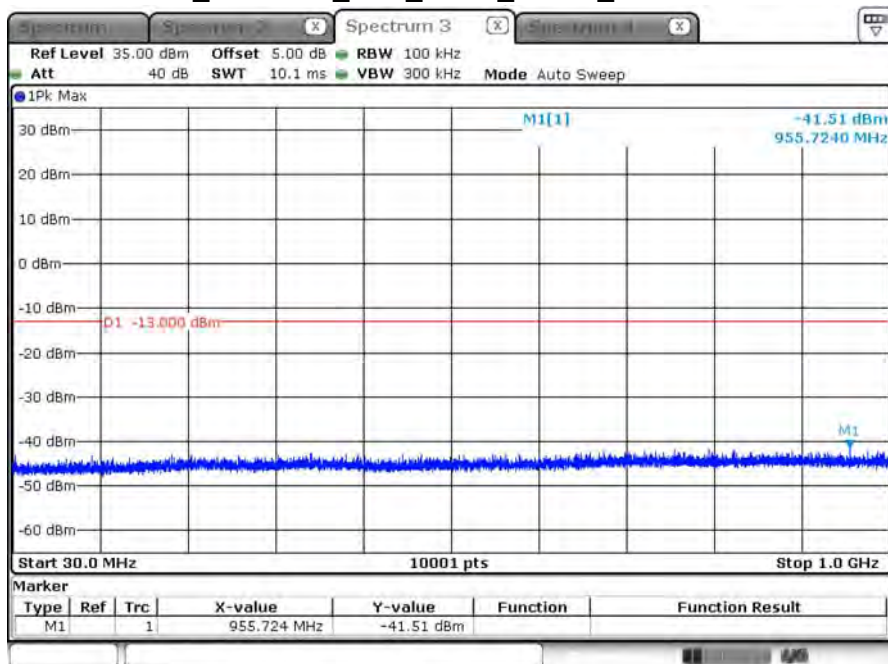
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B2_CH18625_5M_1RB0_QPSK_Under 1G

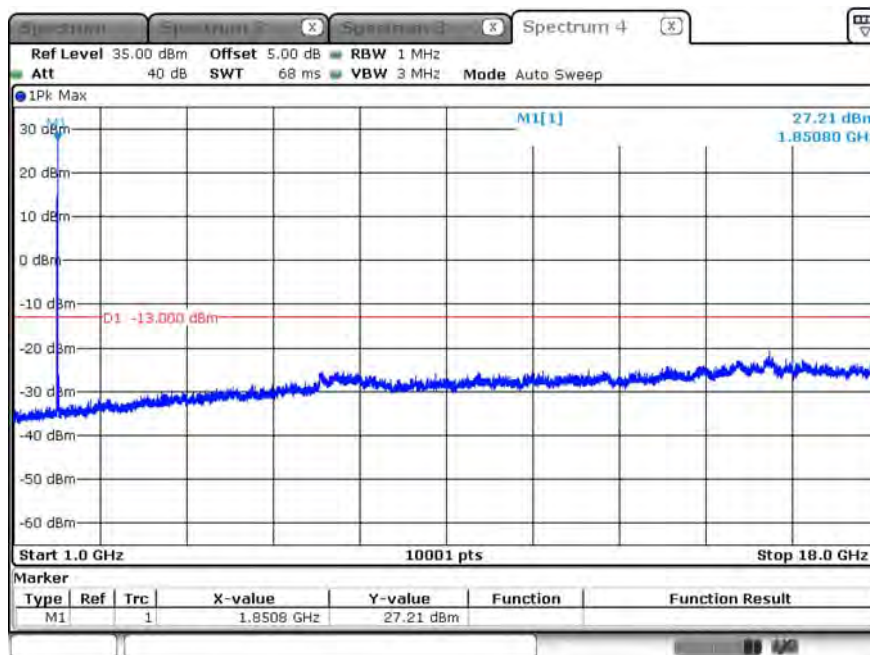
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B2_CH18650_10M_1RB0_QPSK_Above 1G

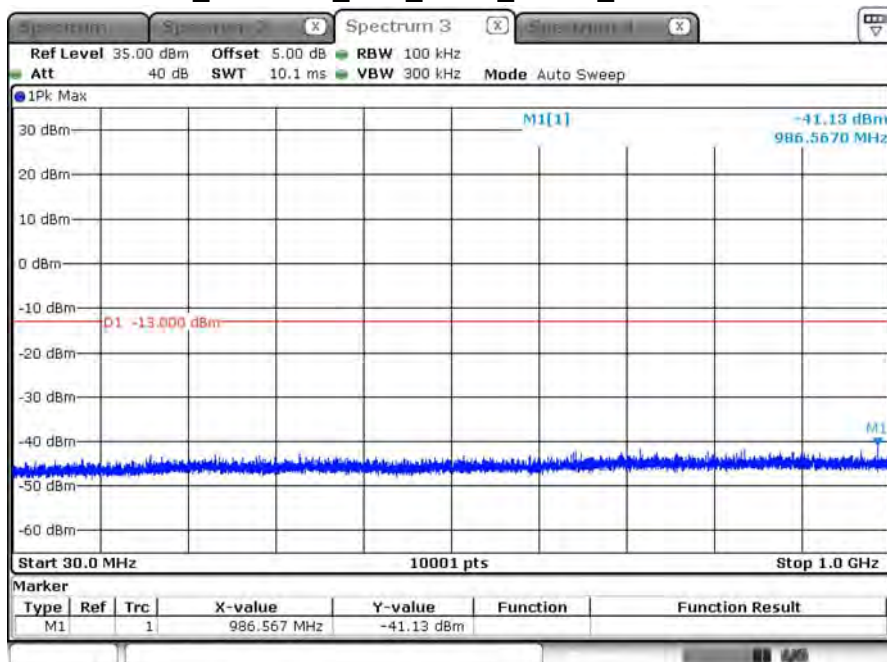
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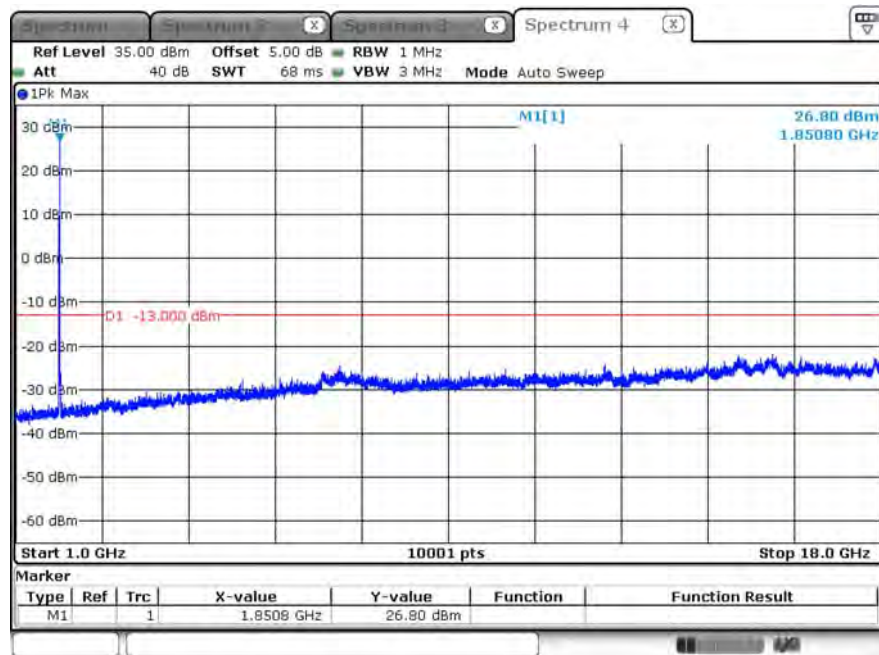
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B2_CH18675_15M_1RB0_QPSK_Above 1G

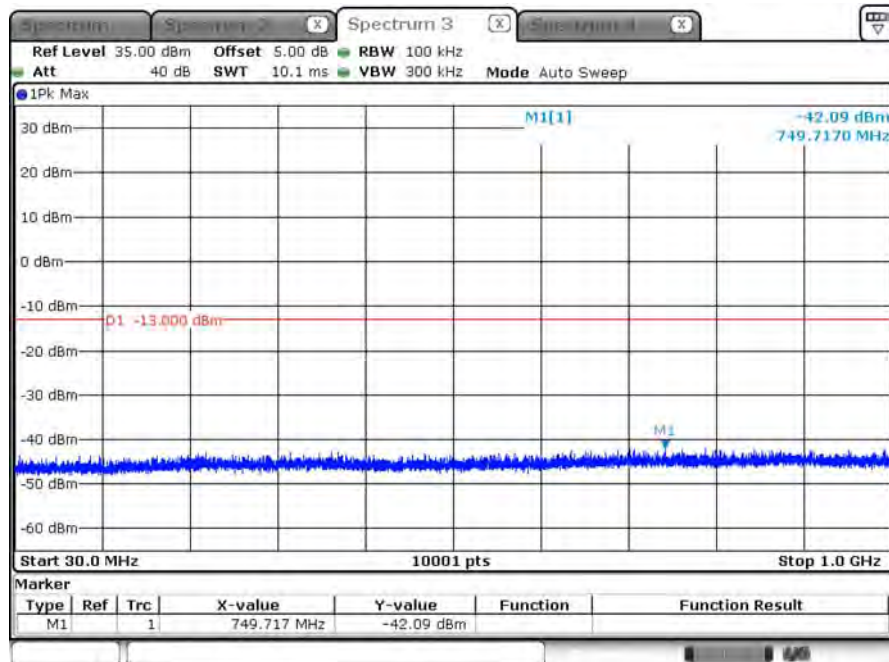
Date: 9 APR 2019 19:34:48

B2_CH18675_15M_1RB0_QPSK_Under 1G

Date: 9 APR 2019 19:33:09

B2_CH18700_20M_1RB0_QPSK_Above 1G

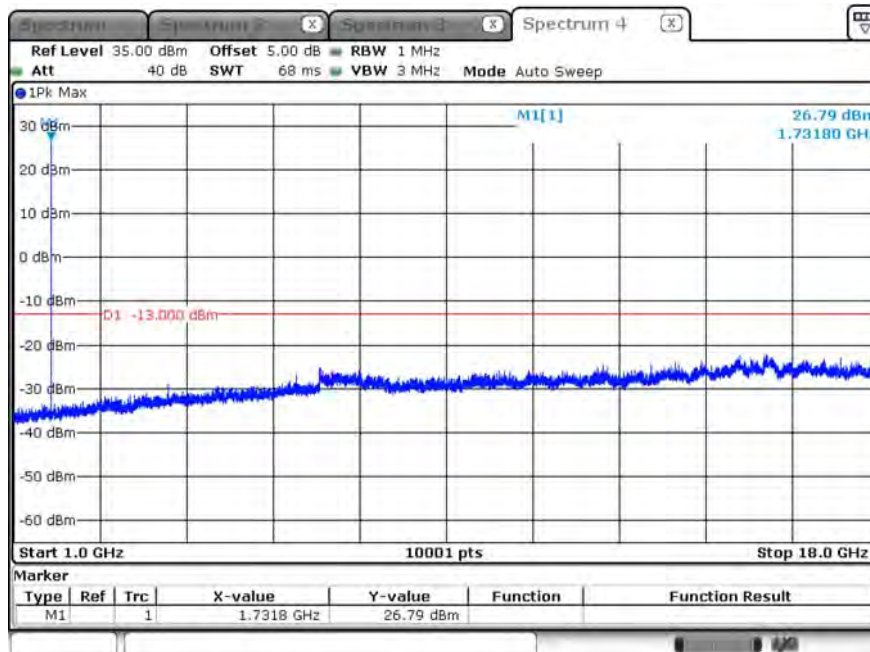
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B2_CH18700_20M_1RB0_QPSK_Under 1G

Date: 9 APR 2019 19:37:13

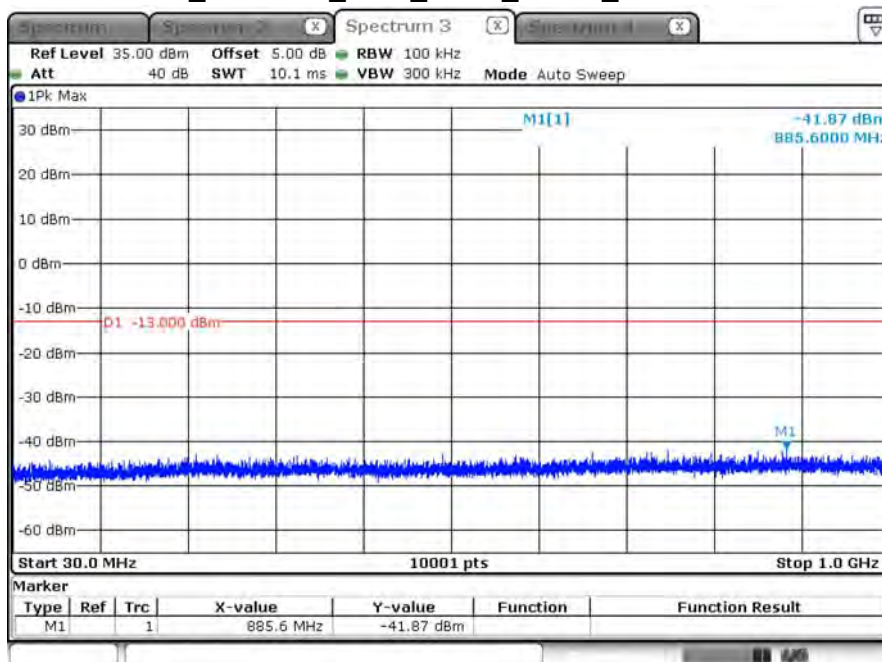
Product	Module		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2019/04/09	Test Site	SR10-H

B4_CH20175_1.4M_1RB0_QPSK_Above 1G

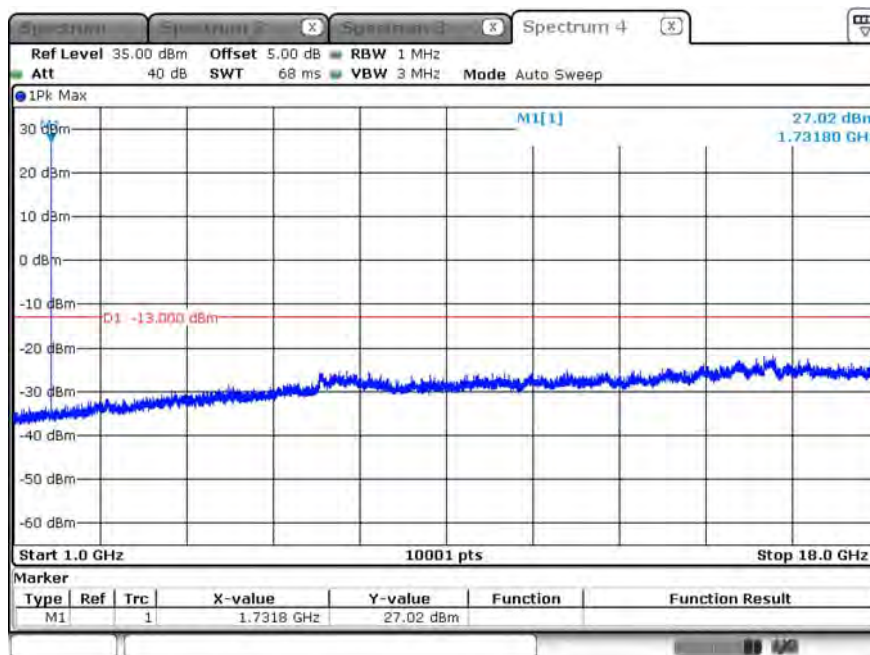


Date: 9 APR 2019 19:41:05

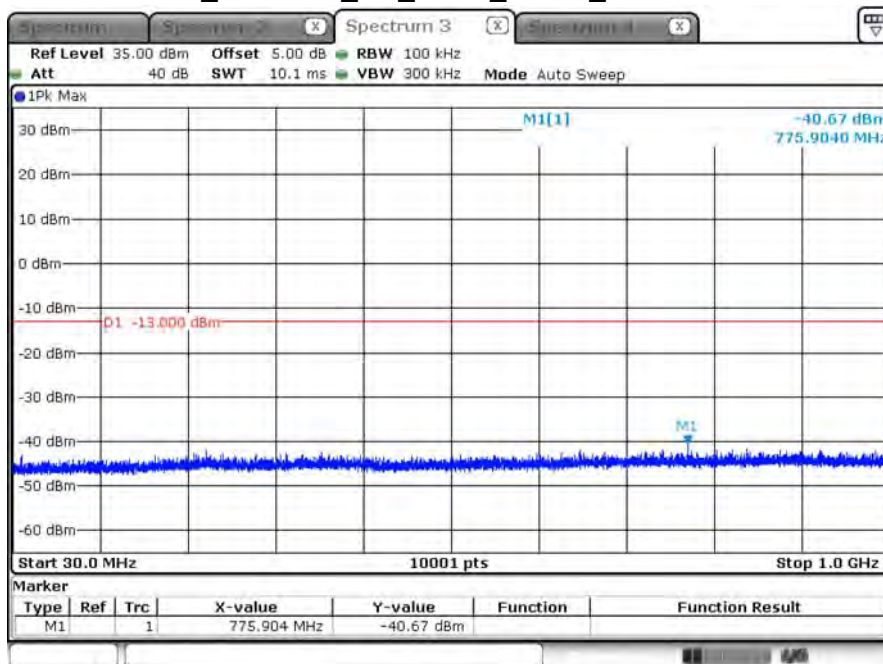
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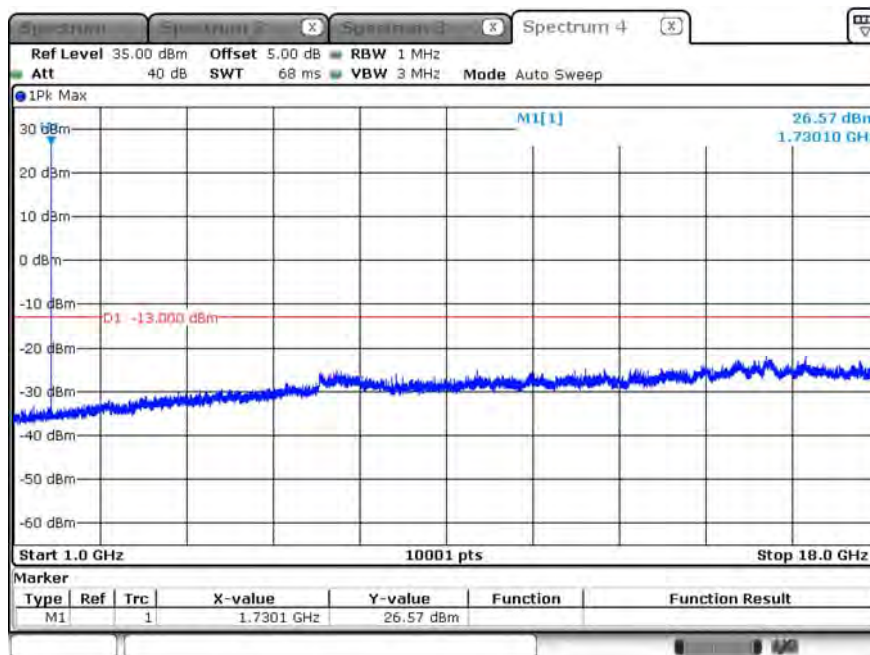
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B4_CH20175_3M_1RB0_QPSK_Above 1G

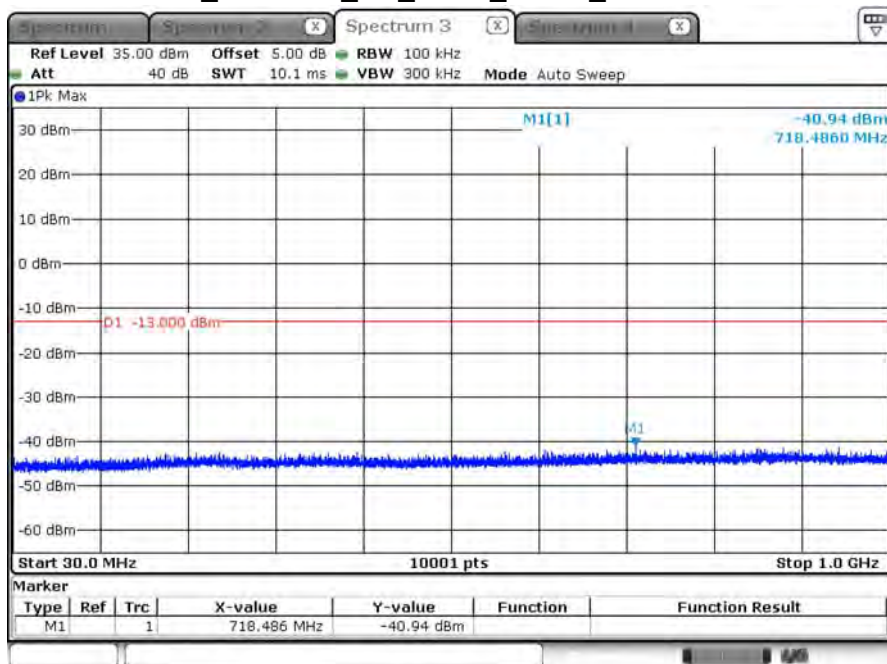
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B4_CH20175_3M_1RB0_QPSK_Under 1G

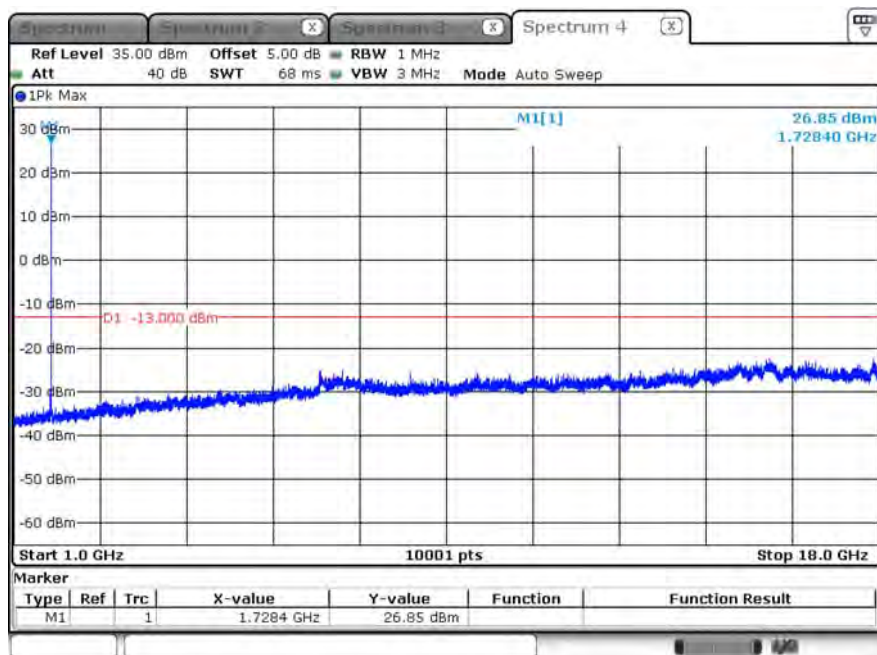
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B4_CH20175_5M_1RB0_QPSK_Above 1G

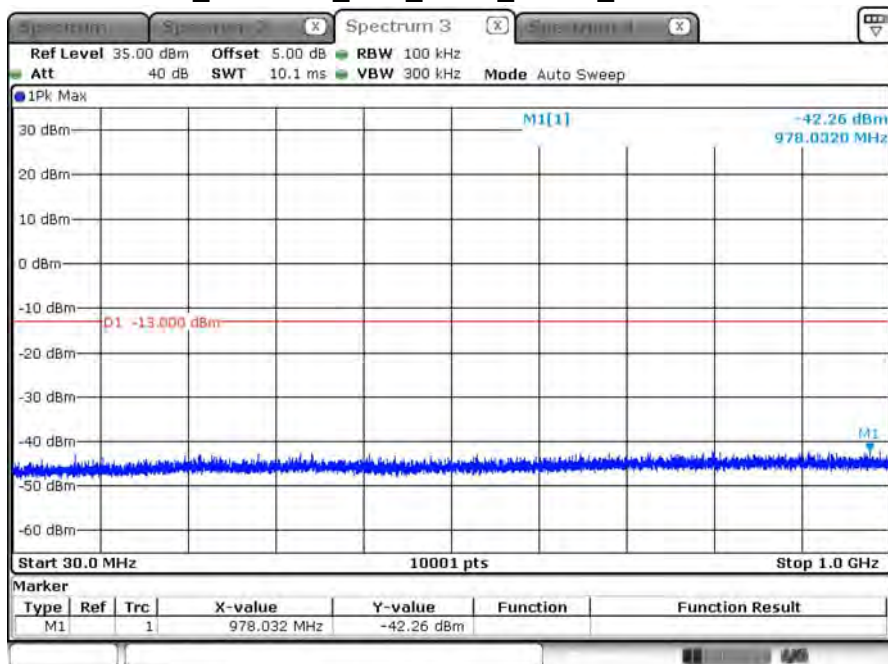
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B4_CH20175_5M_1RB0_QPSK_Under 1G

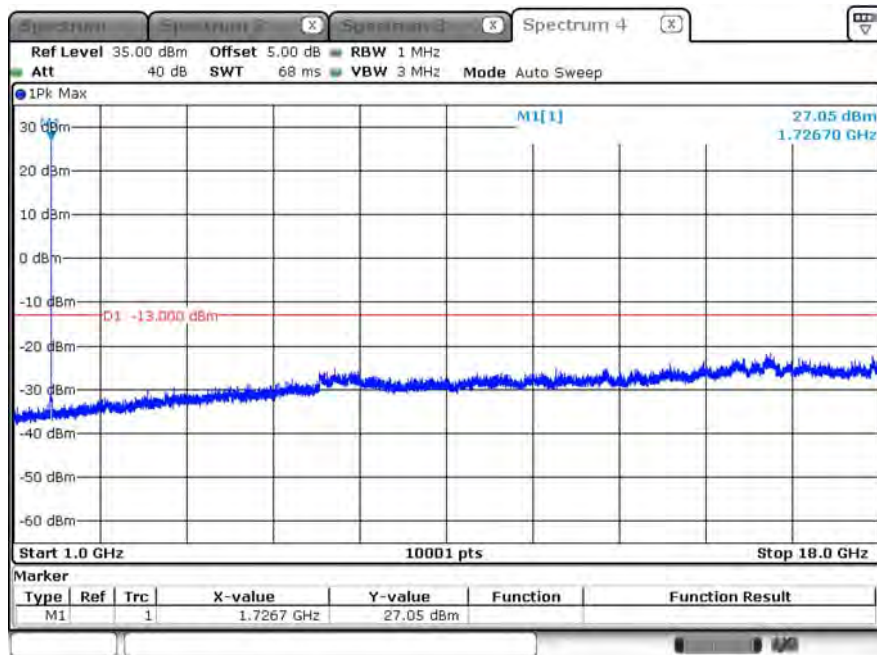
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B4_CH20175_10M_1RB0_QPSK_Above 1G

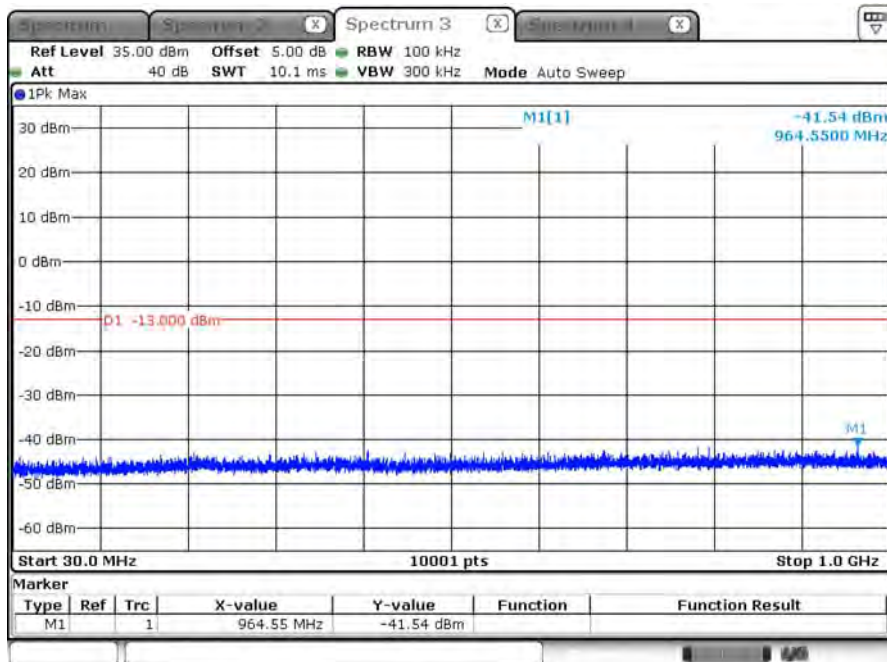
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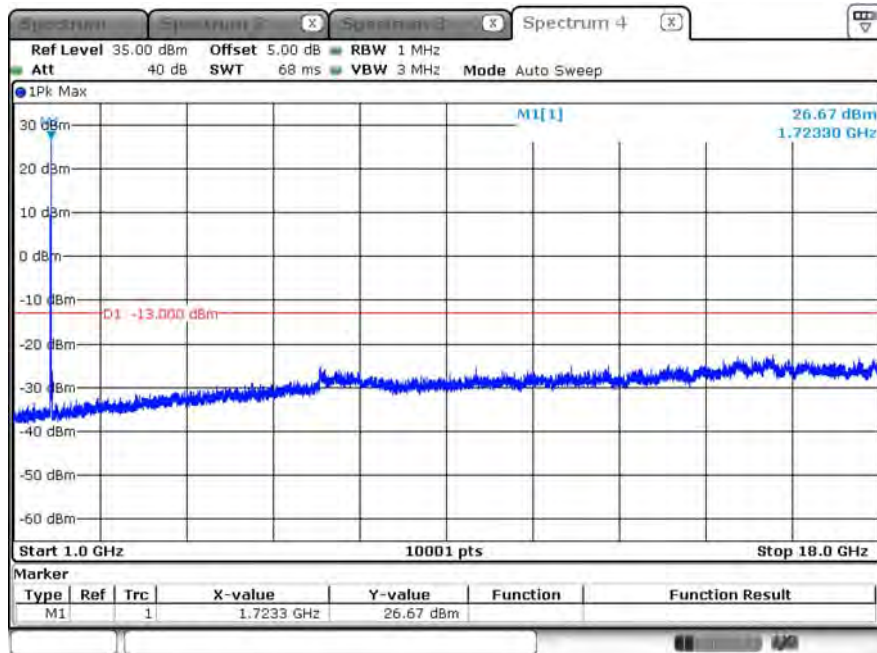
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B4_CH20175_15M_1RB0_QPSK_Above 1G

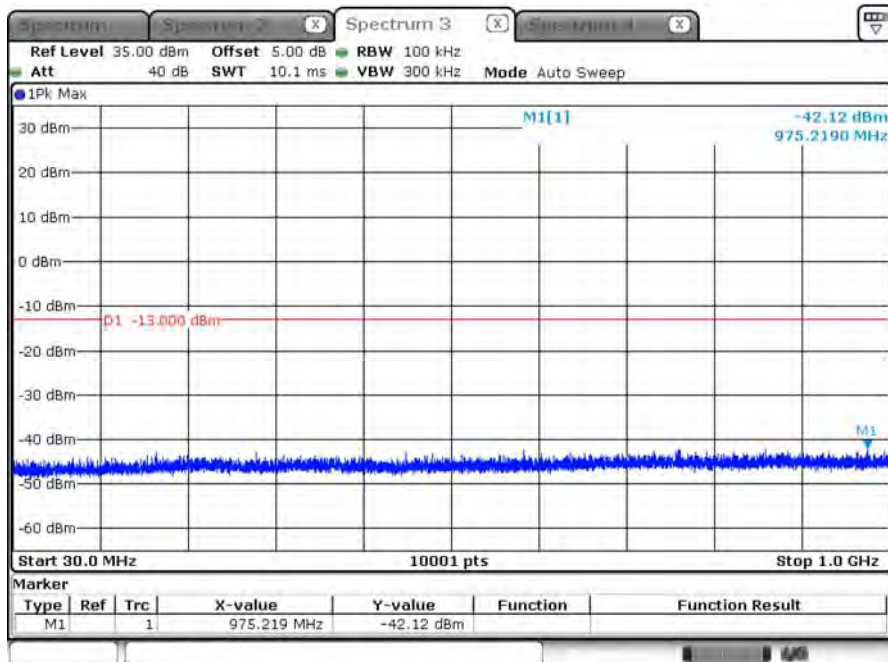
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B4_CH20175_15M_1RB0_QPSK_Under 1G

Date: 9 APR 2019 19:52:42

B4_CH20175_20M_1RB0_QPSK_Above 1G

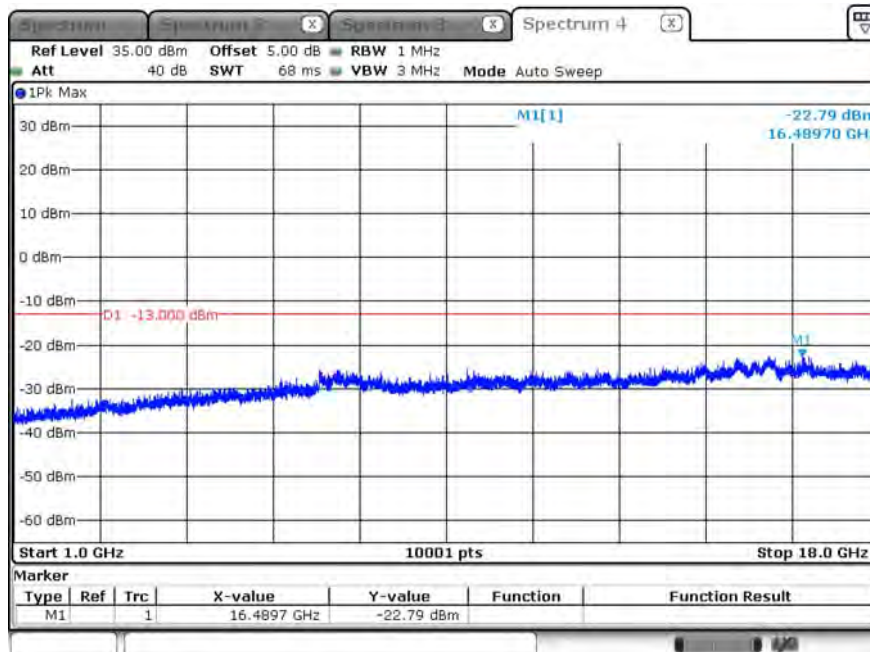
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B4_CH20175_20M_1RB0_QPSK_Under 1G

Date: 9 APR 2019 19:56:23

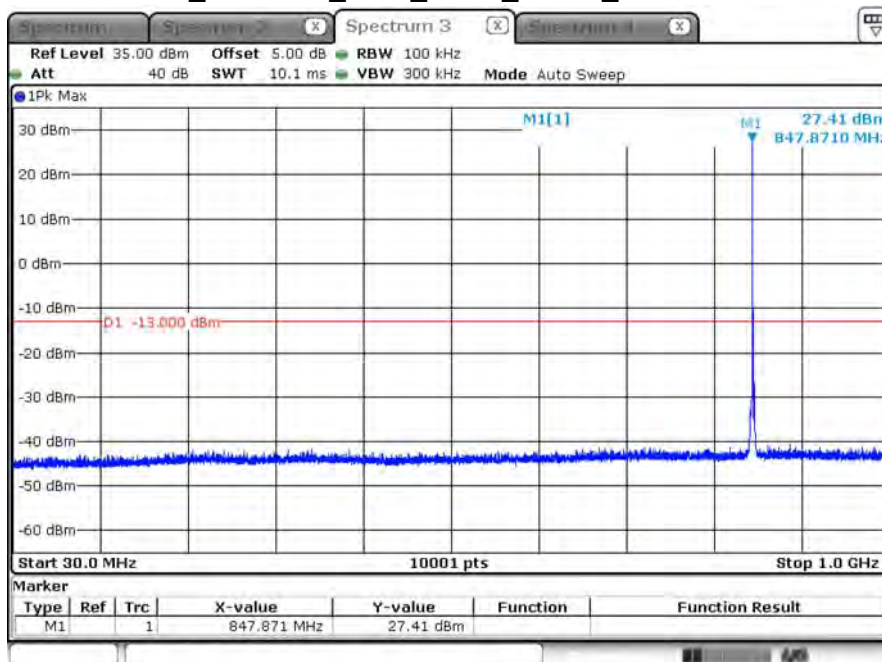
Product	Module		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2019/04/09	Test Site	SR10-H

B5_CH20643_1.4M_1RB0_QPSK_Above 1G

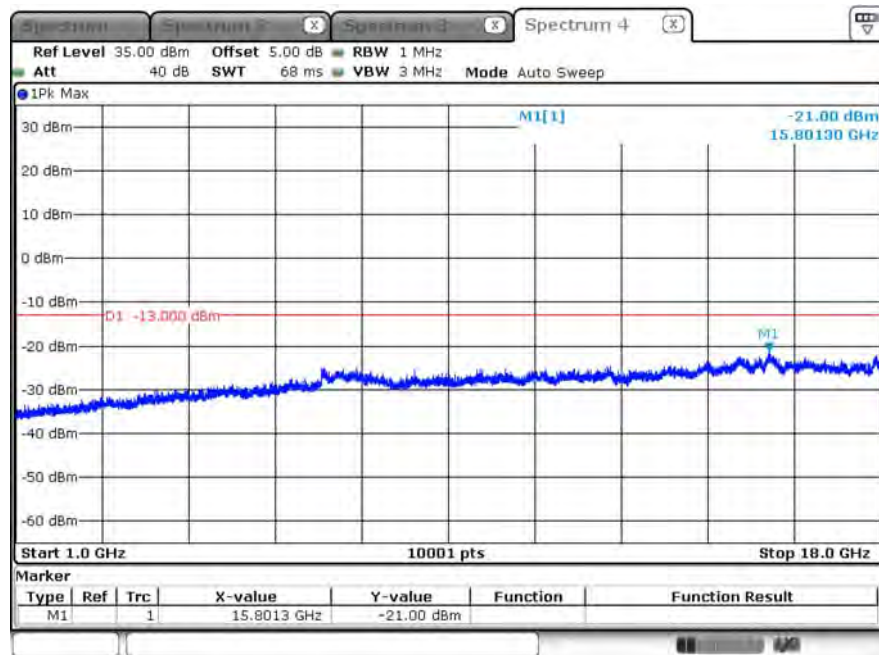


Date: 9 APR 2019 20:11:13

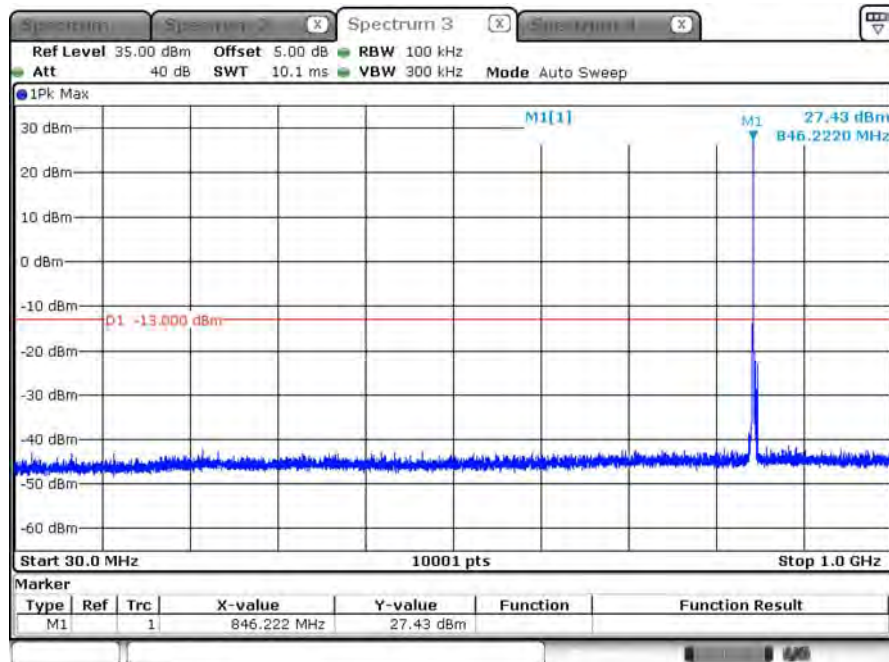
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Date: 9 APR 2019 20:09:44

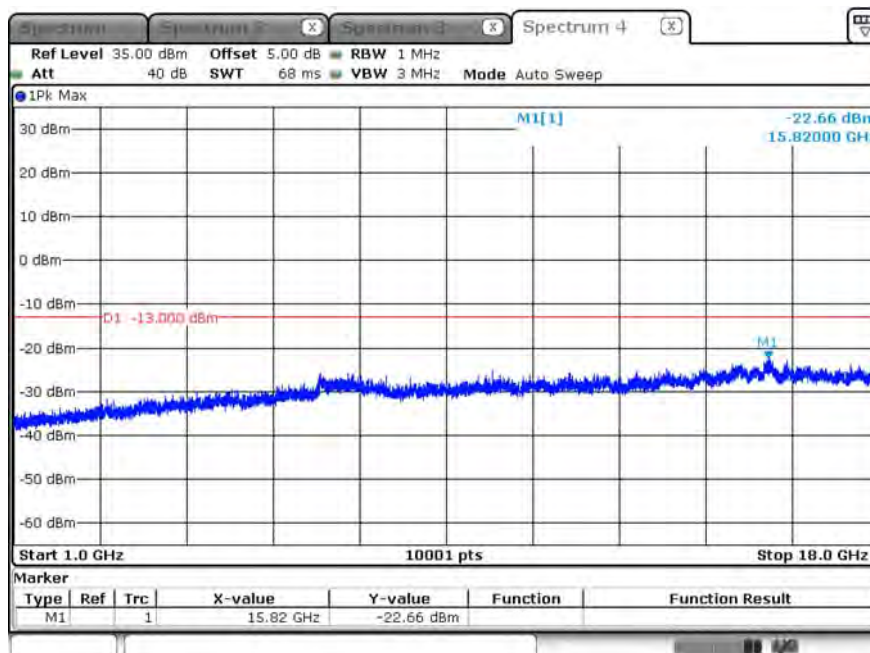
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Date: 9 APR 2019 20:16:43

B5_CH20635_3M_1RB0_QPSK_Under 1G

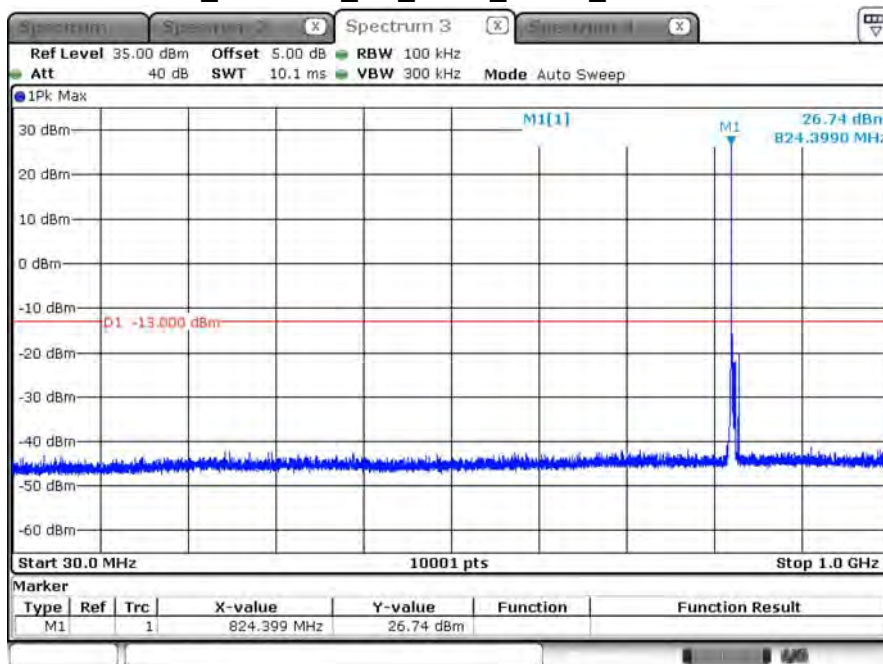
Date: 9 APR 2019 20:18:30

B5_CH20425_5M_1RB0_QPSK_Above 1G

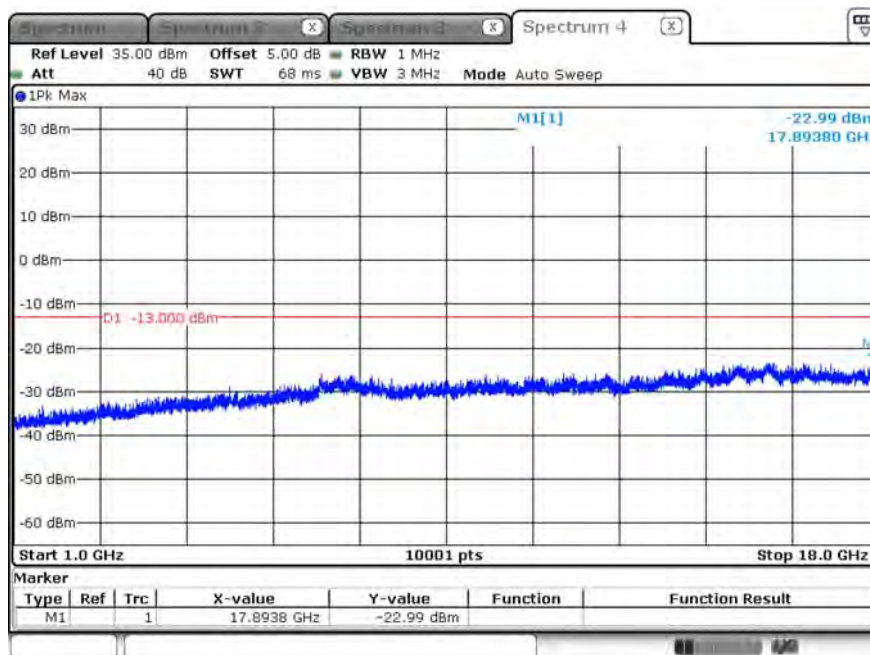


Date: 9 APR 2019 20:23:01

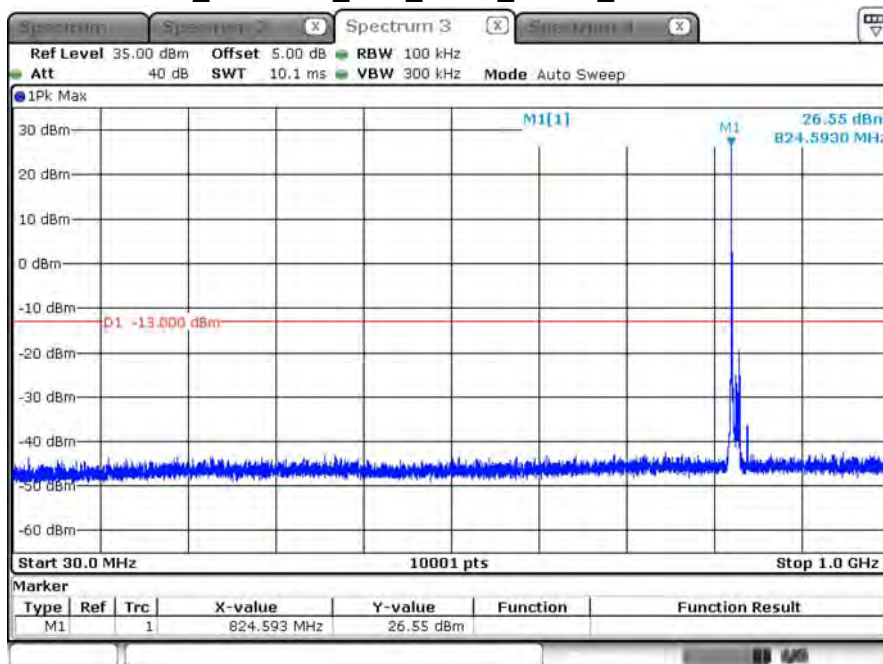
B5_CH20425_5M_1RB0_QPSK_Under 1G



Date: 9 APR 2019 20:21:52

B5_CH20450_10M_1RB0_QPSK_Above 1G

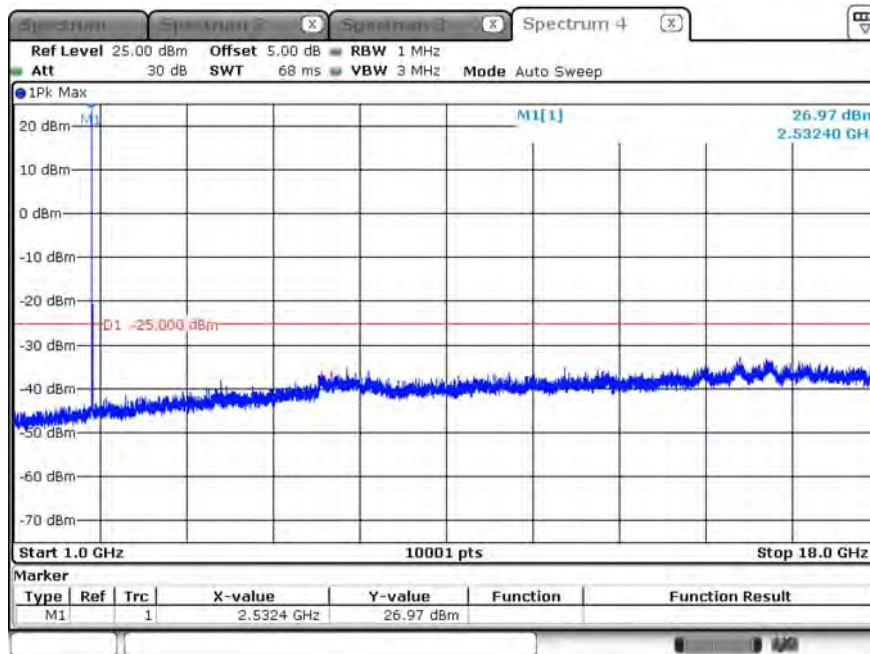
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B5_CH20450_10M_1RB0_QPSK_Under 1G

Date: 9 APR 2019 20:27:58

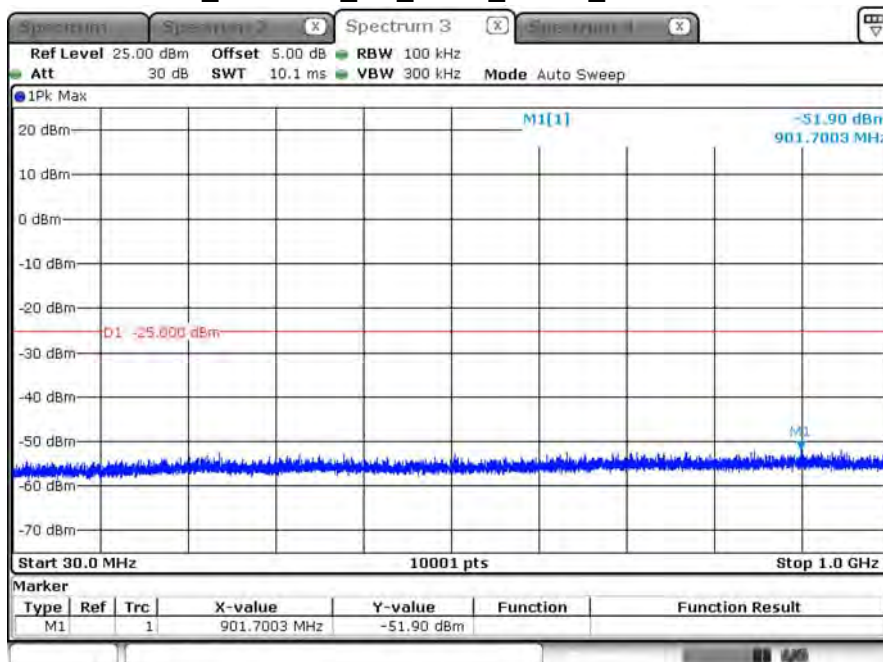
Product	Module		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2019/06/05	Test Site	SR10-H

B7_CH21100_5M_1RB0_QPSK_Above 1G

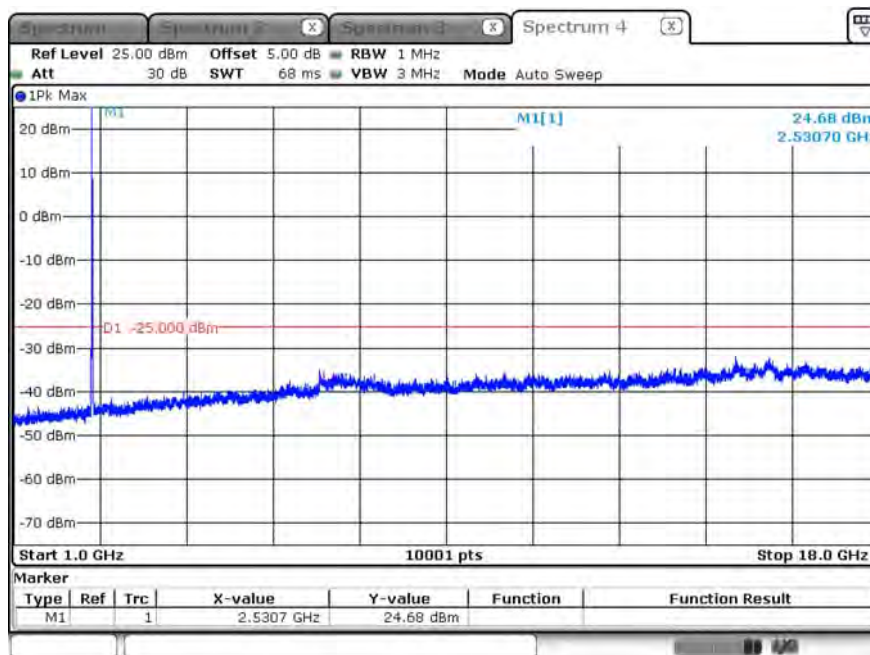


Date: 5 JUN 2019 13:58:18

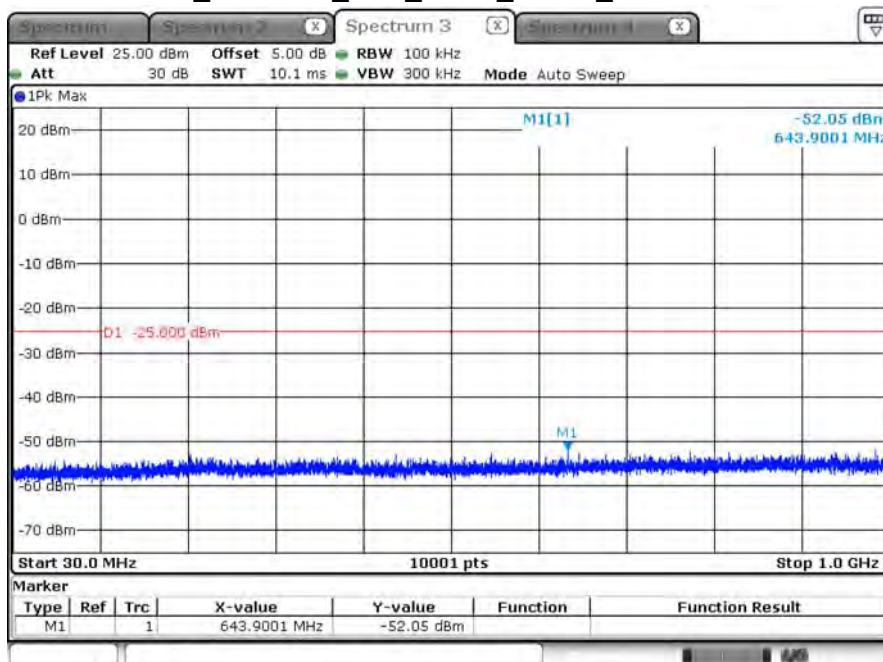
B7_CH21100_5M_1RB0_QPSK_Under 1G



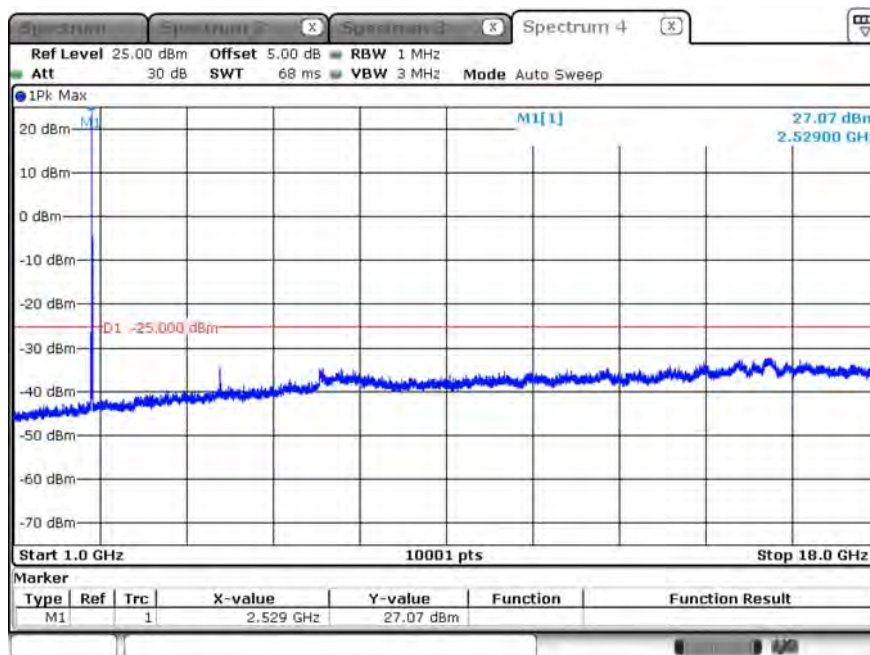
Date: 5 JUN 2019 13:58:48

B7_CH21100_10M_1RB0_QPSK_Above 1G

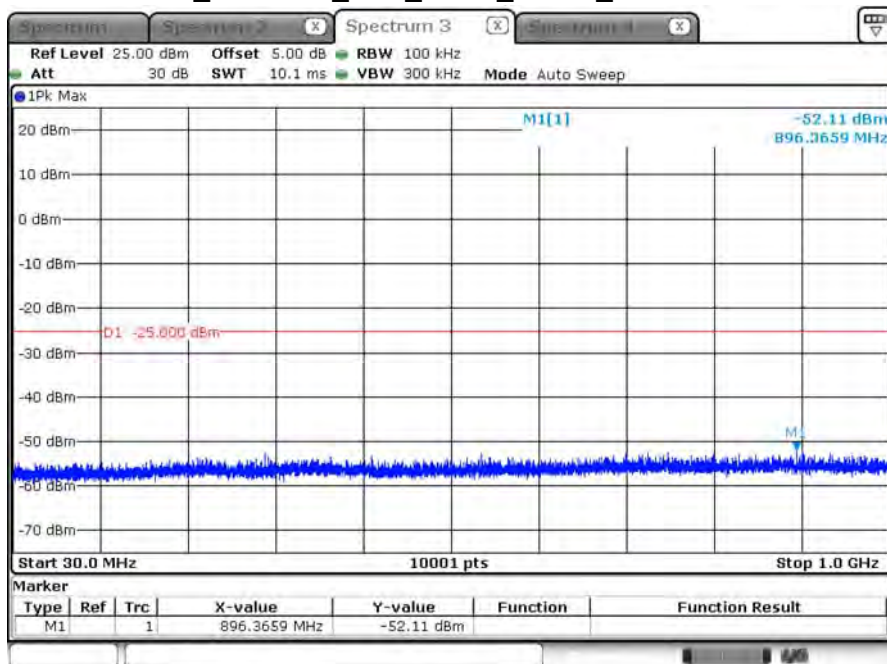
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B7_CH21100_10M_1RB0_QPSK_Under 1G

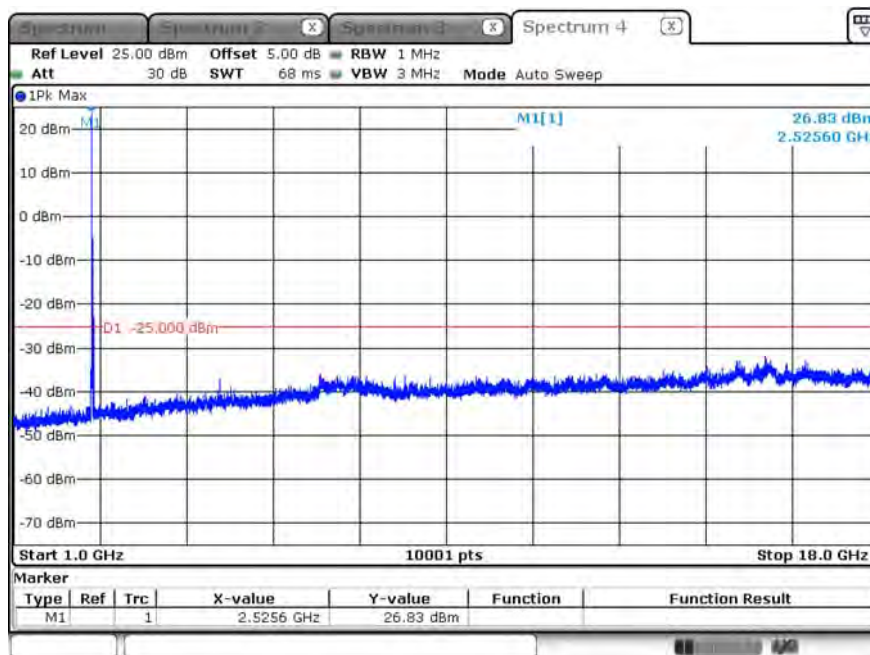
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B7_CH21100_15M_1RB0_QPSK_Above 1G

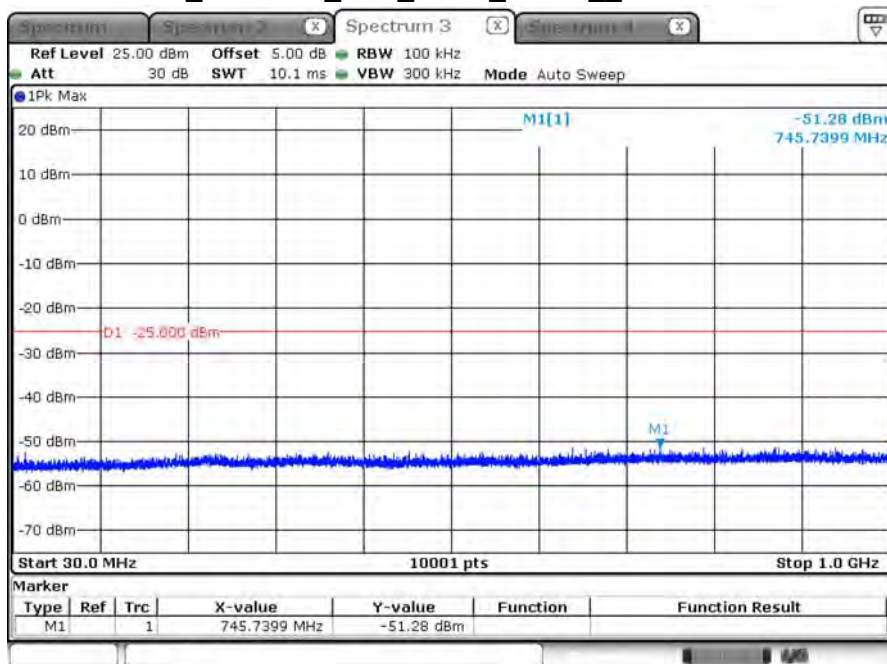
Date: 5 JUN 2019 13:52:45

B7_CH21100_15M_1RB0_QPSK_Under 1G

Date: 5 JUN 2019 13:53:04

B7_CH21100_20M_1RB0_QPSK_Above 1G

Date: 5 JUN 2019 13:49:47

B7_CH21100_20M_1RB0_QPSK_Under 1G

Date: 5 JUN 2019 13:49:28

Product	Module		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 1: LTE Band 2		
Date of Test	2019/04/23	Test Site	CB2-H

LTE_B2_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18607 (1850.7MHz)								
3701.10	-65.390	H	-66.794	4.284	11.938	-59.140	-13	-46.140
5552.10	-49.490	H	-44.099	5.201	12.900	-36.400	-13	-23.400
3701.40	-63.880	V	-63.343	4.284	11.937	-55.690	-13	-42.690
5552.10	-49.720	V	-44.419	5.201	12.900	-36.720	-13	-23.720

LTE_B2_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18607 (1850.7MHz)								
3701.40	-60.550	H	-61.953	4.284	11.937	-54.300	-13	-41.300
5552.10	-48.790	H	-43.399	5.201	12.900	-35.700	-13	-22.700
3701.40	-62.340	V	-61.803	4.284	11.937	-54.150	-13	-41.150
5552.10	-50.070	V	-44.769	5.201	12.900	-37.070	-13	-24.070

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-62.530	H	-64.007	4.335	11.832	-56.510	-13	-43.510
5460.00	-57.640	H	-52.489	5.169	12.828	-44.830	-13	-31.830
3760.00	-63.540	V	-62.907	4.335	11.832	-55.410	-13	-42.410
5640.00	-49.330	V	-44.455	5.235	12.900	-36.790	-13	-23.790

LTE_B2_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-59.500	H	-60.977	4.335	11.832	-53.480	-13	-40.480
5460.00	-57.870	H	-52.719	5.169	12.828	-45.060	-13	-32.060
3760.00	-61.890	V	-61.257	4.335	11.832	-53.760	-13	-40.760
5640.00	-49.600	V	-44.725	5.235	12.900	-37.060	-13	-24.060

LTE_B2_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19193 (1909.3MHz)								
3818.60	-62.310	H	-63.872	4.385	11.727	-56.530	-13	-43.530
5727.90	-56.630	H	-51.751	5.269	12.900	-44.120	-13	-31.120
3818.60	-60.420	V	-59.712	4.385	11.727	-52.370	-13	-39.370
5727.90	-47.620	V	-43.181	5.269	12.900	-35.550	-13	-22.550

LTE_B2_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19193 (1909.3MHz)								
3818.60	-62.850	H	-64.412	4.385	11.727	-57.070	-13	-44.070
5727.90	-56.890	H	-52.011	5.269	12.900	-44.380	-13	-31.380
3818.60	-59.710	V	-59.002	4.385	11.727	-51.660	-13	-38.660
5727.90	-48.100	V	-43.661	5.269	12.900	-36.030	-13	-23.030

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18615 (1851.5MHz)								
3703.00	-62.630	H	-64.039	4.286	11.935	-56.390	-13	-43.390
5554.50	-61.900	H	-56.518	5.202	12.900	-48.820	-13	-35.820
3703.00	-66.260	V	-65.729	4.286	11.935	-58.080	-13	-45.080
5554.50	-56.800	V	-51.518	5.202	12.900	-43.820	-13	-30.820

LTE_B2_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18615 (1851.5MHz)								
3703.00	-62.450	H	-63.859	4.286	11.935	-56.210	-13	-43.210
5554.50	-61.970	H	-56.588	5.202	12.900	-48.890	-13	-35.890
3703.00	-66.050	V	-65.519	4.286	11.935	-57.870	-13	-44.870
5554.50	-56.780	V	-51.498	5.202	12.900	-43.800	-13	-30.800

LTE_B2_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-61.630	H	-63.107	4.335	11.832	-55.610	-13	-42.610
5640.00	-56.900	H	-51.755	5.235	12.900	-44.090	-13	-31.090
3760.00	-63.710	V	-63.077	4.335	11.832	-55.580	-13	-42.580
5640.00	-53.030	V	-48.155	5.235	12.900	-40.490	-13	-27.490

LTE_B2_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-61.390	H	-62.867	4.335	11.832	-55.370	-13	-42.370
5640.00	-56.670	H	-51.525	5.235	12.900	-43.860	-13	-30.860
3760.00	-63.820	V	-63.187	4.335	11.832	-55.690	-13	-42.690
5640.00	-53.060	V	-48.185	5.235	12.900	-40.520	-13	-27.520

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19185 (1908.5MHz)								
3817.00	-59.640	H	-61.206	4.384	11.729	-53.860	-13	-40.860
5725.50	-53.270	H	-48.382	5.268	12.900	-40.750	-13	-27.750
3817.00	-57.150	V	-56.436	4.384	11.729	-49.090	-13	-36.090
5725.50	-46.240	V	-41.782	5.268	12.900	-34.150	-13	-21.150

LTE_B2_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19185 (1908.5MHz)								
3817.00	-59.830	H	-61.396	4.384	11.729	-54.050	-13	-41.050
5725.50	-52.900	H	-48.012	5.268	12.900	-40.380	-13	-27.380
3817.00	-57.450	V	-56.736	4.384	11.729	-49.390	-13	-36.390
5725.50	-46.310	V	-41.852	5.268	12.900	-34.220	-13	-21.220

LTE_B2_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18625 (1852.5MHz)								
3705.00	-63.770	H	-65.194	4.287	11.931	-57.550	-13	-44.550
5557.50	-58.950	H	-53.567	5.203	12.900	-45.870	-13	-32.870
3705.00	-64.150	V	-63.614	4.287	11.931	-55.970	-13	-42.970
5557.50	-50.300	V	-45.017	5.203	12.900	-37.320	-13	-24.320

LTE_B2_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18625 (1852.5MHz)								
3705.00	-64.330	H	-65.754	4.287	11.931	-58.110	-13	-45.110
5557.50	-59.170	H	-53.787	5.203	12.900	-46.090	-13	-33.090
3705.00	-64.420	V	-63.884	4.287	11.931	-56.240	-13	-43.240
5557.50	-51.340	V	-46.057	5.203	12.900	-38.360	-13	-25.360

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-64.740	H	-65.458	4.331	11.839	-57.950	-13	-44.950
5640.00	-52.430	H	-46.517	5.233	12.900	-38.850	-13	-25.850
3756.00	-66.820	V	-65.438	4.331	11.839	-57.930	-13	-44.930
5634.00	-45.470	V	-39.807	5.233	12.900	-32.140	-13	-19.140

LTE_B2_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-52.790	H	-53.497	4.335	11.832	-46.000	-13	-33.000
5640.00	-56.580	H	-50.665	5.235	12.900	-43.000	-13	-30.000
3760.00	-52.140	V	-50.747	4.335	11.832	-43.250	-13	-30.250
5640.00	-48.690	V	-43.025	5.235	12.900	-35.360	-13	-22.360

LTE_B2_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19175 (1907.5MHz)								
3811.00	-58.410	H	-59.202	4.378	11.740	-51.840	-13	-38.840
5716.50	-50.870	H	-45.225	5.265	12.900	-37.590	-13	-24.590
3811.00	-66.120	V	-64.652	4.378	11.740	-57.290	-13	-44.290
5716.50	-42.550	V	-37.325	5.265	12.900	-29.690	-13	-16.690

LTE_B2_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19175 (1907.5MHz)								
3811.00	-62.550	H	-63.342	4.378	11.740	-55.980	-13	-42.980
5716.50	-51.790	H	-46.145	5.265	12.900	-38.510	-13	-25.510
3811.00	-62.310	V	-63.102	4.378	11.740	-55.740	-13	-42.740
5716.50	-43.890	V	-38.245	5.265	12.900	-30.610	-13	-17.610

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18650 (1855MHz)								
3706.00	-54.420	H	-55.071	4.288	11.929	-47.430	-13	-34.430
5559.00	-59.240	H	-53.066	5.204	12.900	-45.370	-13	-32.370
3706.00	-60.630	V	-59.331	4.288	11.929	-51.690	-13	-38.690
5559.00	-51.810	V	-45.736	5.204	12.900	-38.040	-13	-25.040

LTE_B2_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18650 (1855MHz)								
3706.00	-63.020	H	-63.671	4.288	11.929	-56.030	-13	-43.030
5559.00	-58.380	H	-52.206	5.204	12.900	-44.510	-13	-31.510
3706.00	-50.020	V	-48.721	4.288	11.929	-41.080	-13	-28.080
5559.00	-51.430	V	-45.356	5.204	12.900	-37.660	-13	-24.660

LTE_B2_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-53.710	H	-54.417	4.335	11.832	-46.920	-13	-33.920
5640.00	-55.450	H	-49.535	5.235	12.900	-41.870	-13	-28.870
3760.00	-52.210	V	-50.817	4.335	11.832	-43.320	-13	-30.320
5640.00	-46.220	V	-40.555	5.235	12.900	-32.890	-13	-19.890

LTE_B2_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-53.940	H	-54.647	4.335	11.832	-47.150	-13	-34.150
5640.00	-56.170	H	-50.255	5.235	12.900	-42.590	-13	-29.590
3760.00	-52.470	V	-51.077	4.335	11.832	-43.580	-13	-30.580
5640.00	-47.190	V	-41.525	5.235	12.900	-33.860	-13	-20.860

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19150 (1905MHz)								
3800.00	-54.030	H	-54.801	4.369	11.760	-47.410	-13	-34.410
5700.00	-51.130	H	-45.431	5.259	12.900	-37.790	-13	-24.790
3800.00	-63.330	V	-61.871	4.369	11.760	-54.480	-13	-41.480
5700.00	-41.880	V	-36.561	5.259	12.900	-28.920	-13	-15.920

LTE_B2_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19150 (1905MHz)								
3800.00	-62.300	H	-63.071	4.369	11.760	-55.680	-13	-42.680
5700.00	-51.040	H	-45.341	5.259	12.900	-37.700	-13	-24.700
3800.00	-59.480	V	-58.021	4.369	11.760	-50.630	-13	-37.630
5700.00	-43.340	V	-38.021	5.259	12.900	-30.380	-13	-17.380

LTE_B2_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18675 (1857.5MHz)								
3715.00	-55.010	H	-55.677	4.296	11.913	-48.060	-13	-35.060
5572.50	-64.540	H	-58.411	5.209	12.900	-50.720	-13	-37.720
3715.00	-64.700	V	-63.387	4.296	11.913	-55.770	-13	-42.770
5572.50	-54.990	V	-48.991	5.209	12.900	-41.300	-13	-28.300

LTE_B2_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18675 (1857.5MHz)								
3715.00	-55.140	H	-55.807	4.296	11.913	-48.190	-13	-35.190
5572.50	-65.600	H	-59.471	5.209	12.900	-51.780	-13	-38.780
3715.00	-64.980	V	-63.667	4.296	11.913	-56.050	-13	-43.050
5572.50	-55.050	V	-49.051	5.209	12.900	-41.360	-13	-28.360

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-56.610	H	-57.327	4.335	11.832	-49.830	-13	-36.830
5640.00	-66.480	H	-60.585	5.235	12.900	-52.920	-13	-39.920
3760.00	-66.220	V	-64.827	4.335	11.832	-57.330	-13	-44.330
5640.00	-53.850	V	-48.225	5.235	12.900	-40.560	-13	-27.560

LTE_B2_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-56.350	H	-57.067	4.335	11.832	-49.570	-13	-36.570
5640.00	-66.640	H	-60.745	5.235	12.900	-53.080	-13	-40.080
3760.00	-66.820	V	-65.427	4.335	11.832	-57.930	-13	-44.930
5640.00	-54.340	V	-48.715	5.235	12.900	-41.050	-13	-28.050

LTE_B2_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19125 (1902.5MHz)								
3805.00	-48.840	H	-49.628	4.373	11.751	-42.250	-13	-29.250
5707.50	-60.640	H	-54.968	5.262	12.900	-47.330	-13	-34.330
3805.00	-63.310	V	-61.858	4.373	11.751	-54.480	-13	-41.480
5707.50	-51.710	V	-46.438	5.262	12.900	-38.800	-13	-25.800

LTE_B2_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19125 (1902.5MHz)								
3805.00	-48.700	H	-49.488	4.373	11.751	-42.110	-13	-29.110
5707.50	-61.600	H	-55.928	5.262	12.900	-48.290	-13	-35.290
3805.00	-62.920	V	-61.468	4.373	11.751	-54.090	-13	-41.090
5707.50	-51.130	V	-45.858	5.262	12.900	-38.220	-13	-25.220

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18700 (1860MHz)								
3720.00	-62.760	H	-63.434	4.300	11.904	-55.830	-13	-42.830
5580.00	-61.200	H	-55.098	5.212	12.900	-47.410	-13	-34.410
3720.00	-64.700	V	-63.374	4.300	11.904	-55.770	-13	-42.770
5580.00	-54.580	V	-48.628	5.212	12.900	-40.940	-13	-27.940

LTE_B2_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18700 (1860MHz)								
3720.00	-62.110	H	-62.784	4.300	11.904	-55.180	-13	-42.180
5580.00	-62.260	H	-56.158	5.212	12.900	-48.470	-13	-35.470
3720.00	-64.680	V	-63.354	4.300	11.904	-55.750	-13	-42.750
5580.00	-54.380	V	-48.428	5.212	12.900	-40.740	-13	-27.740

LTE_B2_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-60.050	H	-60.767	4.335	11.832	-53.270	-13	-40.270
5640.00	-63.100	H	-57.205	5.235	12.900	-49.540	-13	-36.540
3760.00	-54.880	V	-53.487	4.335	11.832	-45.990	-13	-32.990
5640.00	-68.170	V	-62.545	5.235	12.900	-54.880	-13	-41.880

LTE_B2_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 18900 (1880MHz)								
3760.00	-60.130	H	-60.847	4.335	11.832	-53.350	-13	-40.350
5640.00	-63.230	H	-57.335	5.235	12.900	-49.670	-13	-36.670
3760.00	-54.950	V	-53.557	4.335	11.832	-46.060	-13	-33.060
5640.00	-67.530	V	-61.905	5.235	12.900	-54.240	-13	-41.240

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B2_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19100 (1900MHz)								
3800.00	-55.010	H	-55.781	4.369	11.760	-48.390	-13	-35.390
5700.00	-67.820	H	-62.121	5.259	12.900	-54.480	-13	-41.480
3800.00	-55.520	V	-54.061	4.369	11.760	-46.670	-13	-33.670
5700.00	-67.870	V	-62.551	5.259	12.900	-54.910	-13	-41.910

LTE_B2_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19100 (1900MHz)								
3800.00	-54.950	H	-55.721	4.369	11.760	-48.330	-13	-35.330
5700.00	-67.890	H	-62.191	5.259	12.900	-54.550	-13	-41.550
3800.00	-55.900	V	-54.441	4.369	11.760	-47.050	-13	-34.050
5700.00	-67.820	V	-62.501	5.259	12.900	-54.860	-13	-41.860

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

Product	Module		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2019/04/24	Test Site	CB2-H

LTE_B4_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19957 (1710.7MHz)								
3421.40	-52.150	H	-52.611	4.064	12.096	-44.580	-13	-31.580
5132.10	-57.520	H	-54.363	5.075	12.238	-47.200	-13	-34.200
3421.40	-47.280	V	-46.451	4.064	12.096	-38.420	-13	-25.420
5132.10	-53.490	V	-49.793	5.075	12.238	-42.630	-13	-29.630

LTE_B4_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19957 (1710.7MHz)								
3421.40	-52.530	H	-52.991	4.064	12.096	-44.960	-13	-31.960
5132.10	-57.630	H	-54.473	5.075	12.238	-47.310	-13	-34.310
3421.40	-47.320	V	-46.491	4.064	12.096	-38.460	-13	-25.460
5132.10	-53.240	V	-49.543	5.075	12.238	-42.380	-13	-29.380

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-54.360	H	-54.509	4.090	12.209	-46.390	-13	-33.390
5197.50	-59.650	H	-55.932	5.094	12.356	-48.670	-13	-35.670
3465.00	-48.680	V	-47.569	4.090	12.209	-39.450	-13	-26.450
5197.50	-52.190	V	-48.022	5.094	12.356	-40.760	-13	-27.760

LTE_B4_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-54.250	H	-54.399	4.090	12.209	-46.280	-13	-33.280
5197.50	-59.920	H	-56.202	5.094	12.356	-48.940	-13	-35.940
3465.00	-47.720	V	-46.609	4.090	12.209	-38.490	-13	-25.490
5197.50	-52.140	V	-47.972	5.094	12.356	-40.710	-13	-27.710

LTE_B4_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20393 (1754.3MHz)								
3508.60	-49.130	H	-49.536	4.118	12.285	-41.370	-13	-28.370
5262.90	-55.880	H	-51.601	5.113	12.473	-44.240	-13	-31.240
3508.60	-53.360	V	-52.376	4.118	12.285	-44.210	-13	-31.210
5262.90	-47.850	V	-43.221	5.113	12.473	-35.860	-13	-22.860

LTE_B4_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20393 (1754.3MHz)								
3508.60	-48.250	H	-48.656	4.118	12.285	-40.490	-13	-27.490
5262.90	-57.260	H	-52.981	5.113	12.473	-45.620	-13	-32.620
3508.60	-53.420	V	-52.436	4.118	12.285	-44.270	-13	-31.270
5262.90	-48.520	V	-43.891	5.113	12.473	-36.530	-13	-23.530

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19965 (1711.5MHz)								
3423.00	-60.760	H	-61.205	4.065	12.100	-53.170	-13	-40.170
5134.50	-54.930	H	-51.746	5.076	12.242	-44.580	-13	-31.580
3423.00	-56.040	V	-55.205	4.065	12.100	-47.170	-13	-34.170
5134.50	-46.990	V	-43.266	5.076	12.242	-36.100	-13	-23.100

LTE_B4_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19965 (1711.5MHz)								
3423.00	-61.270	H	-61.715	4.065	12.100	-53.680	-13	-40.680
5134.50	-54.750	H	-51.566	5.076	12.242	-44.400	-13	-31.400
3423.00	-56.200	V	-55.365	4.065	12.100	-47.330	-13	-34.330
5134.50	-47.180	V	-43.456	5.076	12.242	-36.290	-13	-23.290

LTE_B4_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-59.630	H	-59.779	4.090	12.209	-51.660	-13	-38.660
5197.50	-57.720	H	-54.002	5.094	12.356	-46.740	-13	-33.740
3465.00	-58.150	V	-57.039	4.090	12.209	-48.920	-13	-35.920
5197.50	-49.680	V	-45.512	5.094	12.356	-38.250	-13	-25.250

LTE_B4_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-59.540	H	-59.689	4.090	12.209	-51.570	-13	-38.570
5197.50	-57.860	H	-54.142	5.094	12.356	-46.880	-13	-33.880
3465.00	-58.000	V	-56.889	4.090	12.209	-48.770	-13	-35.770
5197.50	-49.740	V	-45.572	5.094	12.356	-38.310	-13	-25.310

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20385 (1753.5MHz)								
3507.00	-53.640	H	-54.040	4.117	12.287	-45.870	-13	-32.870
5260.50	-57.490	H	-53.227	5.112	12.469	-45.870	-13	-32.870
3507.00	-57.320	V	-56.340	4.117	12.287	-48.170	-13	-35.170
5260.50	-46.480	V	-41.867	5.112	12.469	-34.510	-13	-21.510

LTE_B4_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20385 (1753.5MHz)								
3507.00	-53.400	H	-53.800	4.117	12.287	-45.630	-13	-32.630
5260.50	-57.530	H	-53.267	5.112	12.469	-45.910	-13	-32.910
3507.00	-57.520	V	-56.540	4.117	12.287	-48.370	-13	-35.370
5260.50	-46.460	V	-41.847	5.112	12.469	-34.490	-13	-21.490

LTE_B4_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19975 (1712.5MHz)								
3425.00	-57.130	H	-57.569	4.066	12.105	-49.530	-13	-36.530
5137.50	-55.620	H	-52.411	5.077	12.248	-45.240	-13	-32.240
3425.00	-50.910	V	-50.069	4.066	12.105	-42.030	-13	-29.030
5137.50	-51.390	V	-47.651	5.077	12.248	-40.480	-13	-27.480

LTE_B4_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 19975 (1712.5MHz)								
3425.00	-57.430	H	-57.869	4.066	12.105	-49.830	-13	-36.830
5137.50	-55.720	H	-52.511	5.077	12.248	-45.340	-13	-32.340
3425.00	-50.240	V	-49.399	4.066	12.105	-41.360	-13	-28.360
5137.50	-50.720	V	-46.981	5.077	12.248	-39.810	-13	-26.810

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-57.100	H	-57.249	4.090	12.209	-49.130	-13	-36.130
5197.50	-57.910	H	-54.192	5.094	12.356	-46.930	-13	-33.930
3465.00	-54.310	V	-53.199	4.090	12.209	-45.080	-13	-32.080
5197.50	-52.830	V	-48.662	5.094	12.356	-41.400	-13	-28.400

LTE_B4_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-57.250	H	-57.399	4.090	12.209	-49.280	-13	-36.280
5197.50	-58.020	H	-54.302	5.094	12.356	-47.040	-13	-34.040
3465.00	-54.340	V	-53.229	4.090	12.209	-45.110	-13	-32.110
5197.50	-53.130	V	-48.962	5.094	12.356	-41.700	-13	-28.700

LTE_B4_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20375 (1752.5MHz)								
3505.00	-53.040	H	-53.436	4.115	12.291	-45.260	-13	-32.260
5257.50	-57.180	H	-52.952	5.111	12.464	-45.600	-13	-32.600
3505.00	-54.790	V	-53.806	4.115	12.291	-45.630	-13	-32.630
5257.50	-48.300	V	-43.712	5.111	12.464	-36.360	-13	-23.360

LTE_B4_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20375 (1752.5MHz)								
3505.00	-53.160	H	-53.556	4.115	12.291	-45.380	-13	-32.380
5257.50	-56.990	H	-52.762	5.111	12.464	-45.410	-13	-32.410
3505.00	-54.570	V	-53.586	4.115	12.291	-45.410	-13	-32.410
5257.50	-48.460	V	-43.872	5.111	12.464	-36.520	-13	-23.520

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20000 (1715MHz)								
3430.00	-48.040	H	-48.439	4.069	12.118	-40.390	-13	-27.390
5145.00	-56.210	H	-52.932	5.079	12.261	-45.750	-13	-32.750
3430.00	-51.860	V	-50.979	4.069	12.118	-42.930	-13	-29.930
5145.00	-50.210	V	-46.412	5.079	12.261	-39.230	-13	-26.230

LTE_B4_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20000 (1715MHz)								
3430.00	-48.800	H	-49.199	4.069	12.118	-41.150	-13	-28.150
5145.00	-56.490	H	-53.212	5.079	12.261	-46.030	-13	-33.030
3430.00	-52.260	V	-51.379	4.069	12.118	-43.330	-13	-30.330
5145.00	-51.440	V	-47.642	5.079	12.261	-40.460	-13	-27.460

LTE_B4_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-53.210	H	-53.359	4.090	12.209	-45.240	-13	-32.240
5197.50	-61.670	H	-57.952	5.094	12.356	-50.690	-13	-37.690
3465.00	-53.570	V	-52.459	4.090	12.209	-44.340	-13	-31.340
5197.50	-55.450	V	-51.282	5.094	12.356	-44.020	-13	-31.020

LTE_B4_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-53.130	H	-53.279	4.090	12.209	-45.160	-13	-32.160
5197.50	-61.840	H	-58.122	5.094	12.356	-50.860	-13	-37.860
3465.00	-54.720	V	-53.609	4.090	12.209	-45.490	-13	-32.490
5197.50	-57.560	V	-53.392	5.094	12.356	-46.130	-13	-33.130

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20350 (1750MHz)								
3500.00	-48.940	H	-49.329	4.111	12.300	-41.140	-13	-28.140
5250.00	-57.640	H	-53.471	5.109	12.450	-46.130	-13	-33.130
3500.00	-44.690	V	-43.719	4.111	12.300	-35.530	-13	-22.530
5250.00	-52.280	V	-47.741	5.109	12.450	-40.400	-13	-27.400

LTE_B4_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20385 (1750MHz)								
3500.00	-48.150	H	-48.539	4.111	12.300	-40.350	-13	-27.350
5250.00	-58.340	H	-54.171	5.109	12.450	-46.830	-13	-33.830
3500.00	-44.650	V	-43.679	4.111	12.300	-35.490	-13	-22.490
5250.00	-52.260	V	-47.721	5.109	12.450	-40.380	-13	-27.380

LTE_B4_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20025 (1717.5MHz)								
3435.00	-51.260	H	-51.629	4.072	12.131	-43.570	-13	-30.570
5152.50	-55.810	H	-52.484	5.081	12.275	-45.290	-13	-32.290
3435.00	-57.530	V	-56.619	4.072	12.131	-48.560	-13	-35.560
5152.50	-59.860	V	-56.014	5.081	12.275	-48.820	-13	-35.820

LTE_B4_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20025 (1717.5MHz)								
3435.00	-51.330	H	-51.699	4.072	12.131	-43.640	-13	-30.640
5152.50	-56.030	H	-52.704	5.081	12.275	-45.510	-13	-32.510
3435.00	-57.420	V	-56.509	4.072	12.131	-48.450	-13	-35.450
5152.50	-59.830	V	-55.984	5.081	12.275	-48.790	-13	-35.790

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-60.210	H	-60.359	4.090	12.209	-52.240	-13	-39.240
5197.50	-66.180	H	-62.462	5.094	12.356	-55.200	-13	-42.200
3465.00	-56.840	V	-55.729	4.090	12.209	-47.610	-13	-34.610
5197.50	-60.540	V	-56.372	5.094	12.356	-49.110	-13	-36.110

LTE_B4_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3465.00	-60.360	H	-60.509	4.090	12.209	-52.390	-13	-39.390
5197.50	-66.340	H	-62.622	5.094	12.356	-55.360	-13	-42.360
3465.00	-57.280	V	-56.169	4.090	12.209	-48.050	-13	-35.050
5197.50	-60.300	V	-56.132	5.094	12.356	-48.870	-13	-35.870

LTE_B4_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20325(1747.5MHz)								
3495.00	-55.790	H	-56.139	4.108	12.287	-47.960	-13	-34.960
5242.50	-63.340	H	-59.230	5.107	12.437	-51.900	-13	-38.900
3495.00	-52.100	V	-51.109	4.108	12.287	-42.930	-13	-29.930
5242.50	-55.550	V	-51.060	5.107	12.437	-43.730	-13	-30.730

LTE_B4_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20325(1747.5MHz)								
3495.00	-55.680	H	-56.029	4.108	12.287	-47.850	-13	-34.850
5242.50	-63.270	H	-59.160	5.107	12.437	-51.830	-13	-38.830
3495.00	-51.890	V	-50.899	4.108	12.287	-42.720	-13	-29.720
5242.50	-56.210	V	-51.720	5.107	12.437	-44.390	-13	-31.390

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20050 (1720MHz)								
3422.00	-51.690	H	-52.143	4.065	12.097	-44.110	-13	-31.110
5133.00	-56.480	H	-53.314	5.075	12.239	-46.150	-13	-33.150
3422.00	-55.070	V	-54.243	4.065	12.097	-46.210	-13	-33.210
5133.00	-44.740	V	-41.034	5.075	12.239	-33.870	-13	-20.870

LTE_B4_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20050 (1720MHz)								
3422.00	-57.640	H	-58.093	4.065	12.097	-50.060	-13	-37.060
5133.00	-59.500	H	-56.334	5.075	12.239	-49.170	-13	-36.170
3422.00	-58.550	V	-57.723	4.065	12.097	-49.690	-13	-36.690
5133.00	-57.440	V	-53.734	5.075	12.239	-46.570	-13	-33.570

LTE_B4_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3440.00	-62.820	H	-63.149	4.075	12.144	-55.080	-13	-42.080
5166.00	-58.780	H	-55.324	5.085	12.299	-48.110	-13	-35.110
3444.00	-59.770	V	-58.807	4.078	12.154	-50.730	-13	-37.730
5166.00	-55.630	V	-51.684	5.085	12.299	-44.470	-13	-31.470

LTE_B4_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20175 (1732.5MHz)								
3444.00	-63.160	H	-63.467	4.078	12.154	-55.390	-13	-42.390
5166.00	-58.390	H	-54.934	5.085	12.299	-47.720	-13	-34.720
3444.00	-60.370	V	-59.407	4.078	12.154	-51.330	-13	-38.330
5166.00	-55.400	V	-51.454	5.085	12.299	-44.240	-13	-31.240

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B4_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20300 (1745MHz)								
3472.00	-64.200	H	-64.403	4.094	12.227	-56.270	-13	-43.270
5208.00	-56.480	H	-52.677	5.097	12.374	-45.400	-13	-32.400
3472.00	-61.500	V	-60.423	4.094	12.227	-52.290	-13	-39.290
5208.00	-52.840	V	-48.607	5.097	12.374	-41.330	-13	-28.330

LTE_B4_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20300 (1745MHz)								
3472.00	-64.430	H	-64.633	4.094	12.227	-56.500	-13	-43.500
5208.00	-60.360	H	-56.557	5.097	12.374	-49.280	-13	-36.280
3472.00	-62.380	V	-62.583	4.094	12.227	-54.450	-13	-41.450
5208.00	-56.930	V	-53.127	5.097	12.374	-45.850	-13	-32.850

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

Product	Module		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2019/04/25	Test Site	CB2-H

LTE_B5_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20407 (824.7MHz)								
1649.40	-48.720	H	-61.517	2.791	8.748	-55.560	-13	-42.560
2474.10	-39.400	H	-49.970	3.438	10.559	-42.850	-13	-29.850
1649.40	-50.330	V	-62.557	2.791	8.748	-56.600	-13	-43.600
2474.10	-43.640	V	-52.220	3.438	10.559	-45.100	-13	-32.100

LTE_B5_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20407 (824.7MHz)								
1649.40	-48.650	H	-61.447	2.791	8.748	-55.490	-13	-42.490
2474.10	-39.350	H	-49.920	3.438	10.559	-42.800	-13	-29.800
1649.40	-50.780	V	-63.007	2.791	8.748	-57.050	-13	-44.050
2474.10	-44.770	V	-53.350	3.438	10.559	-46.230	-13	-33.230

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B5_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.20	-53.150	H	-65.987	2.813	8.820	-59.980	-13	-46.980
2509.80	-34.750	H	-45.085	3.463	10.608	-37.940	-13	-24.940
1673.20	-52.310	V	-64.627	2.813	8.820	-58.620	-13	-45.620
2509.80	-39.030	V	-47.195	3.463	10.608	-40.050	-13	-27.050

LTE_B5_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.20	-53.220	H	-66.057	2.813	8.820	-60.050	-13	-47.050
2509.80	-34.920	H	-45.255	3.463	10.608	-38.110	-13	-25.110
1673.20	-52.280	V	-64.597	2.813	8.820	-58.590	-13	-45.590
2509.80	-39.330	V	-47.495	3.463	10.608	-40.350	-13	-27.350

LTE_B5_1.4M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20643 (848.3MHz)								
1696.60	-47.570	H	-60.446	2.834	8.890	-54.390	-13	-41.390
2544.90	-31.860	H	-41.838	3.488	10.636	-34.690	-13	-21.690
1696.60	-51.120	V	-63.536	2.834	8.890	-57.480	-13	-44.480
2544.90	-34.770	V	-42.498	3.488	10.636	-35.350	-13	-22.350

LTE_B5_1.4M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20643 (848.3MHz)								
1696.60	-47.780	H	-60.656	2.834	8.890	-54.600	-13	-41.600
2544.90	-31.740	H	-41.718	3.488	10.636	-34.570	-13	-21.570
1696.60	-51.190	V	-63.606	2.834	8.890	-57.550	-13	-44.550
2544.90	-34.810	V	-42.538	3.488	10.636	-35.390	-13	-22.390

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B5_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20415 (825.5MHz)								
1651.00	-48.120	H	-60.921	2.792	8.753	-54.960	-13	-41.960
2476.50	-39.680	H	-50.213	3.440	10.562	-43.090	-13	-30.090
1651.00	-53.400	V	-65.631	2.792	8.753	-59.670	-13	-46.670
2476.50	-42.090	V	-50.623	3.440	10.562	-43.500	-13	-30.500

LTE_B5_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20415 (825.5MHz)								
1651.00	-48.030	H	-60.831	2.792	8.753	-54.870	-13	-41.870
2476.50	-39.720	H	-50.253	3.440	10.562	-43.130	-13	-30.130
1651.00	-52.820	V	-65.051	2.792	8.753	-59.090	-13	-46.090
2476.50	-43.270	V	-51.803	3.440	10.562	-44.680	-13	-31.680

LTE_B5_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.00	-55.050	H	-67.897	2.812	8.819	-61.890	-13	-48.890
2509.50	-38.130	H	-48.465	3.463	10.608	-41.320	-13	-28.320
1673.00	-54.310	V	-66.637	2.812	8.819	-60.630	-13	-47.630
2509.50	-42.170	V	-50.335	3.463	10.608	-43.190	-13	-30.190

LTE_B5_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.00	-54.740	H	-67.587	2.812	8.819	-61.580	-13	-48.580
2509.50	-37.290	H	-47.625	3.463	10.608	-40.480	-13	-27.480
1673.00	-54.260	V	-66.587	2.812	8.819	-60.580	-13	-47.580
2509.50	-42.260	V	-50.425	3.463	10.608	-43.280	-13	-30.280

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B5_3M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20635 (847.5MHz)								
1695.00	-47.470	H	-60.343	2.832	8.885	-54.290	-13	-41.290
2542.50	-36.560	H	-46.568	3.486	10.634	-39.420	-13	-26.420
1695.00	-51.080	V	-63.483	2.832	8.885	-57.430	-13	-44.430
2542.50	-39.440	V	-47.198	3.486	10.634	-40.050	-13	-27.050

LTE_B5_3M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20635 (847.5MHz)								
1695.00	-47.330	H	-60.203	2.832	8.885	-54.150	-13	-41.150
2542.50	-36.720	H	-46.728	3.486	10.634	-39.580	-13	-26.580
1695.00	-51.240	V	-63.643	2.832	8.885	-57.590	-13	-44.590
2542.50	-39.510	V	-47.268	3.486	10.634	-40.120	-13	-27.120

LTE_B5_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20425 (826.5MHz)								
1653.00	-48.200	H	-60.995	2.794	8.759	-55.030	-13	-42.030
2479.50	-38.500	H	-49.025	3.442	10.567	-41.900	-13	-28.900
1653.00	-53.230	V	-65.465	2.794	8.759	-59.500	-13	-46.500
2479.50	-40.850	V	-49.355	3.442	10.567	-42.230	-13	-29.230

LTE_B5_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20425 (826.5MHz)								
1653.00	-48.130	H	-60.925	2.794	8.759	-54.960	-13	-41.960
2479.50	-38.450	H	-48.975	3.442	10.567	-41.850	-13	-28.850
1653.00	-53.170	V	-65.405	2.794	8.759	-59.440	-13	-46.440
2479.50	-41.250	V	-49.755	3.442	10.567	-42.630	-13	-29.630

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B5_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.00	-54.440	H	-67.287	2.812	8.819	-61.280	-13	-48.280
2509.50	-38.990	H	-49.325	3.463	10.608	-42.180	-13	-29.180
1673.00	-54.560	V	-66.887	2.812	8.819	-60.880	-13	-47.880
2509.50	-42.810	V	-50.975	3.463	10.608	-43.830	-13	-30.830

LTE_B5_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.00	-54.110	H	-66.957	2.812	8.819	-60.950	-13	-47.950
2509.50	-39.130	H	-49.465	3.463	10.608	-42.320	-13	-29.320
1673.00	-54.330	V	-66.657	2.812	8.819	-60.650	-13	-47.650
2509.50	-42.730	V	-50.895	3.463	10.608	-43.750	-13	-30.750

LTE_B5_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20625 (846.5MHz)								
1693.00	-48.150	H	-61.028	2.831	8.879	-54.980	-13	-41.980
2539.50	-37.310	H	-47.367	3.484	10.632	-40.220	-13	-27.220
1693.00	-52.240	V	-64.648	2.831	8.879	-58.600	-13	-45.600
2539.50	-39.810	V	-47.617	3.484	10.632	-40.470	-13	-27.470

LTE_B5_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20625 (846.5MHz)								
1693.00	-48.020	H	-60.898	2.831	8.879	-54.850	-13	-41.850
2539.50	-37.220	H	-47.277	3.484	10.632	-40.130	-13	-27.130
1693.00	-51.270	V	-63.678	2.831	8.879	-57.630	-13	-44.630
2539.50	-39.870	V	-47.677	3.484	10.632	-40.530	-13	-27.530

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B5_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20450 (829MHz)								
1658.00	-49.250	H	-62.055	2.799	8.774	-56.080	-13	-43.080
2487.00	-41.090	H	-51.562	3.447	10.579	-44.430	-13	-31.430
1658.00	-52.440	V	-64.695	2.799	8.774	-58.720	-13	-45.720
2487.00	-40.290	V	-48.712	3.447	10.579	-41.580	-13	-28.580

LTE_B5_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20450 (829MHz)								
1658.00	-49.330	H	-62.135	2.799	8.774	-56.160	-13	-43.160
2487.00	-41.240	H	-51.712	3.447	10.579	-44.580	-13	-31.580
1658.00	-52.610	V	-64.865	2.799	8.774	-58.890	-13	-45.890
2487.00	-40.380	V	-48.802	3.447	10.579	-41.670	-13	-28.670

LTE_B5_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.00	-52.610	H	-65.457	2.812	8.819	-59.450	-13	-46.450
2509.50	-39.210	H	-49.545	3.463	10.608	-42.400	-13	-29.400
1673.00	-53.990	V	-66.317	2.812	8.819	-60.310	-13	-47.310
2509.50	-43.070	V	-51.235	3.463	10.608	-44.090	-13	-31.090

LTE_B5_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20525 (836.5MHz)								
1673.00	-52.720	H	-65.567	2.812	8.819	-59.560	-13	-46.560
2509.50	-39.970	H	-50.305	3.463	10.608	-43.160	-13	-30.160
1673.00	-52.910	V	-65.237	2.812	8.819	-59.230	-13	-46.230
2509.50	-44.110	V	-52.275	3.463	10.608	-45.130	-13	-32.130

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B5_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20600 (844MHz)								
1688.00	-48.730	H	-61.598	2.826	8.864	-55.560	-13	-42.560
2532.00	-38.840	H	-49.007	3.479	10.626	-41.860	-13	-28.860
1688.00	-52.810	V	-65.198	2.826	8.864	-59.160	-13	-46.160
2532.00	-41.720	V	-49.617	3.479	10.626	-42.470	-13	-29.470

LTE_B5_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20600 (844MHz)								
1688.00	-48.950	H	-61.818	2.826	8.864	-55.780	-13	-42.780
2532.00	-38.900	H	-49.067	3.479	10.626	-41.920	-13	-28.920
1688.00	-52.980	V	-65.368	2.826	8.864	-59.330	-13	-46.330
2532.00	-41.760	V	-49.657	3.479	10.626	-42.510	-13	-29.510

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

Product	Module		
Test Item	Radiated Spurious Emissions		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2019/06/10	Test Site	CB2-H

LTE_B7_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20775 (2502.5MHz)								
5000.00	-66.060	H	-64.033	5.037	12.000	-57.070	-25	-32.070
7500.00	-70.090	H	-52.973	6.438	12.250	-47.160	-25	-22.160
5000.00	-61.550	V	-58.783	5.037	12.000	-51.820	-25	-26.820
7500.00	-61.630	V	-46.383	6.438	12.250	-40.570	-25	-15.570

LTE_B7_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20775 (2502.5MHz)								
5000.00	-66.030	H	-64.003	5.037	12.000	-57.040	-25	-32.040
7500.00	-70.190	H	-53.073	6.438	12.250	-47.260	-25	-22.260
5000.00	-67.560	V	-64.793	5.037	12.000	-57.830	-25	-32.830
7500.00	-62.520	V	-47.273	6.438	12.250	-41.460	-25	-16.460

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B7_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5066.00	-66.330	H	-63.733	5.056	12.119	-56.670	-25	-31.670
7599.00	-69.180	H	-52.898	6.571	12.339	-47.130	-25	-22.130
5066.00	-64.890	V	-61.653	5.056	12.119	-54.590	-25	-29.590
7599.00	-65.070	V	-50.428	6.571	12.339	-44.660	-25	-19.660

LTE_B7_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5066.00	-66.540	H	-63.943	5.056	12.119	-56.880	-25	-31.880
7599.00	-69.950	H	-53.668	6.571	12.339	-47.900	-25	-22.900
5066.00	-64.950	V	-61.713	5.056	12.119	-54.650	-25	-29.650
7599.00	-65.430	V	-50.788	6.571	12.339	-45.020	-25	-20.020

LTE_B7_5M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21425 (2567.5MHz)								
5130.60	-66.210	H	-63.060	5.075	12.235	-55.900	-25	-30.900
7695.90	-69.050	H	-54.405	6.701	12.426	-48.680	-25	-23.680
5130.60	-65.720	V	-62.030	5.075	12.235	-54.870	-25	-29.870
7695.90	-65.990	V	-52.635	6.701	12.426	-46.910	-25	-21.910

LTE_B7_5M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21425 (2567.5MHz)								
5130.60	-66.760	H	-63.610	5.075	12.235	-56.450	-25	-31.450
7695.90	-69.320	H	-54.675	6.701	12.426	-48.950	-25	-23.950
5130.60	-62.960	V	-59.270	5.075	12.235	-52.110	-25	-27.110
7695.90	-66.720	V	-53.365	6.701	12.426	-47.640	-25	-22.640

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B7_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20800 (2505MHz)								
5010.00	-67.150	H	-65.028	5.040	12.018	-58.050	-25	-33.050
7515.00	-70.530	H	-53.366	6.458	12.264	-47.560	-25	-22.560
5010.00	-66.190	V	-63.348	5.040	12.018	-56.370	-25	-31.370
7515.00	-67.570	V	-52.276	6.458	12.264	-46.470	-25	-21.470

LTE_B7_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20800 (2505MHz)								
5010.00	-67.050	H	-64.928	5.040	12.018	-57.950	-25	-32.950
7515.00	-70.850	H	-53.686	6.458	12.264	-47.880	-25	-22.880
5010.00	-66.000	V	-63.158	5.040	12.018	-56.180	-25	-31.180
7515.00	-68.330	V	-53.036	6.458	12.264	-47.230	-25	-22.230

LTE_B7_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5070.00	-68.380	H	-65.749	5.057	12.126	-58.680	-25	-33.680
7605.00	-69.250	H	-53.076	6.579	12.345	-47.310	-25	-22.310
5070.00	-68.760	V	-65.499	5.057	12.126	-58.430	-25	-33.430
7605.00	-67.620	V	-53.066	6.579	12.345	-47.300	-25	-22.300

LTE_B7_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5070.00	-68.220	H	-65.589	5.057	12.126	-58.520	-25	-33.520
7605.00	-69.330	H	-53.156	6.579	12.345	-47.390	-25	-22.390
5070.00	-69.380	V	-66.119	5.057	12.126	-59.050	-25	-34.050
7605.00	-68.440	V	-53.886	6.579	12.345	-48.120	-25	-23.120

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B7_10M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21400 (2565MHz)								
5130.00	-68.080	H	-64.940	5.074	12.234	-57.780	-25	-32.780
7695.00	-68.970	H	-54.306	6.700	12.426	-48.580	-25	-23.580
5130.00	-68.140	V	-64.450	5.074	12.234	-57.290	-25	-32.290
7695.00	-67.710	V	-54.336	6.700	12.426	-48.610	-25	-23.610

LTE_B7_10M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21400 (2565MHz)								
5130.00	-67.960	H	-64.820	5.074	12.234	-57.660	-25	-32.660
7695.00	-69.090	H	-54.426	6.700	12.426	-48.700	-25	-23.700
5130.00	-68.180	V	-64.490	5.074	12.234	-57.330	-25	-32.330
7695.00	-68.570	V	-55.196	6.700	12.426	-49.470	-25	-24.470

LTE_B7_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20825 (2507.5MHz)								
5015.00	-67.400	H	-65.236	5.041	12.027	-58.250	-25	-33.250
7522.50	-69.890	H	-52.732	6.468	12.270	-46.930	-25	-21.930
5015.00	-65.730	V	-62.856	5.041	12.027	-55.870	-25	-30.870
7522.50	-67.630	V	-52.322	6.468	12.270	-46.520	-25	-21.520

LTE_B7_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20825 (2507.5MHz)								
5015.00	-67.500	H	-65.336	5.041	12.027	-58.350	-25	-33.350
7522.50	-70.010	H	-52.852	6.468	12.270	-47.050	-25	-22.050
5015.00	-65.910	V	-63.036	5.041	12.027	-56.050	-25	-31.050
7522.50	-67.800	V	-52.492	6.468	12.270	-46.690	-25	-21.690

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B7_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5070.00	-67.910	H	-65.279	5.057	12.126	-58.210	-25	-33.210
7605.00	-69.860	H	-53.686	6.579	12.345	-47.920	-25	-22.920
5070.00	-68.360	V	-65.099	5.057	12.126	-58.030	-25	-33.030
7605.00	-67.920	V	-53.366	6.579	12.345	-47.600	-25	-22.600

LTE_B7_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5070.00	-67.590	H	-64.959	5.057	12.126	-57.890	-25	-32.890
7605.00	-69.820	H	-53.646	6.579	12.345	-47.880	-25	-22.880
5070.00	-68.700	V	-65.439	5.057	12.126	-58.370	-25	-33.370
7605.00	-67.770	V	-53.216	6.579	12.345	-47.450	-25	-22.450

LTE_B7_15M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21375 (2562.5MHz)								
5125.00	-68.010	H	-64.902	5.073	12.225	-57.750	-25	-32.750
7687.50	-68.620	H	-53.819	6.690	12.419	-48.090	-25	-23.090
5125.00	-67.920	V	-64.262	5.073	12.225	-57.110	-25	-32.110
7687.50	-67.560	V	-54.079	6.690	12.419	-48.350	-25	-23.350

LTE_B7_15M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21375 (2562.5MHz)								
5125.00	-68.140	H	-65.032	5.073	12.225	-57.880	-25	-32.880
7687.50	-68.950	H	-54.149	6.690	12.419	-48.420	-25	-23.420
5125.00	-68.160	V	-64.502	5.073	12.225	-57.350	-25	-32.350
7687.50	-67.070	V	-53.589	6.690	12.419	-47.860	-25	-22.860

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B7_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20850 (2510MHz)								
5020.00	-67.100	H	-64.903	5.043	12.036	-57.910	-25	-32.910
7530.00	-70.860	H	-53.689	6.478	12.277	-47.890	-25	-22.890
5020.00	-68.140	V	-65.233	5.043	12.036	-58.240	-25	-33.240
7530.00	-68.400	V	-53.079	6.478	12.277	-47.280	-25	-22.280

LTE_B7_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 20850 (2510MHz)								
5020.00	-67.240	H	-65.043	5.043	12.036	-58.050	-25	-33.050
7530.00	-71.080	H	-53.909	6.478	12.277	-48.110	-25	-23.110
5020.00	-68.280	V	-65.373	5.043	12.036	-58.380	-25	-33.380
7530.00	-68.480	V	-53.159	6.478	12.277	-47.360	-25	-22.360

LTE_B7_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5070.00	-68.000	H	-65.369	5.057	12.126	-58.300	-25	-33.300
7605.00	-69.280	H	-53.106	6.579	12.345	-47.340	-25	-22.340
5070.00	-69.080	V	-65.819	5.057	12.126	-58.750	-25	-33.750
7605.00	-68.570	V	-54.016	6.579	12.345	-48.250	-25	-23.250

LTE_B7_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21100 (2535MHz)								
5070.00	-67.540	H	-64.909	5.057	12.126	-57.840	-25	-32.840
7605.00	-69.590	H	-53.416	6.579	12.345	-47.650	-25	-22.650
5070.00	-68.990	V	-65.729	5.057	12.126	-58.660	-25	-33.660
7605.00	-68.620	V	-54.066	6.579	12.345	-48.300	-25	-23.300

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain.

LTE_B7_20M_QPSK_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21350 (2560MHz)								
5120.00	-67.250	H	-64.194	5.072	12.216	-57.050	-25	-32.050
7680.00	-69.720	H	-54.802	6.680	12.412	-49.070	-25	-24.070
5120.00	-67.650	V	-64.034	5.072	12.216	-56.890	-25	-31.890
7680.00	-67.710	V	-54.142	6.680	12.412	-48.410	-25	-23.410

LTE_B7_20M_16-QAM_1RB0_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
Channel 21350 (2560MHz)								
5120.00	-67.050	H	-63.994	5.072	12.216	-56.850	-25	-31.850
7680.00	-70.010	H	-55.092	6.680	12.412	-49.360	-25	-24.360
5120.00	-67.970	V	-64.354	5.072	12.216	-57.210	-25	-32.210
7680.00	-67.820	V	-54.252	6.680	12.412	-48.520	-25	-23.520