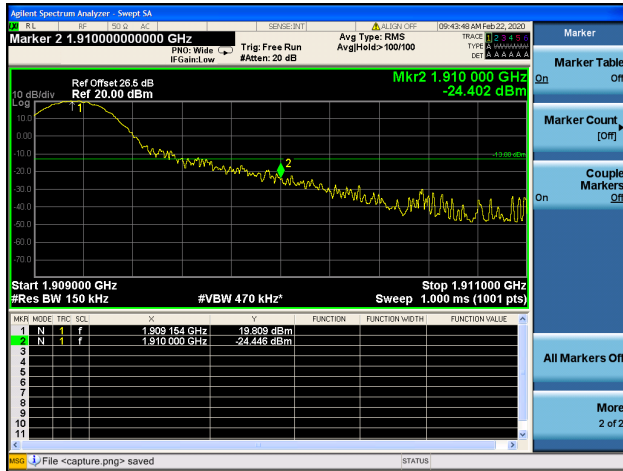




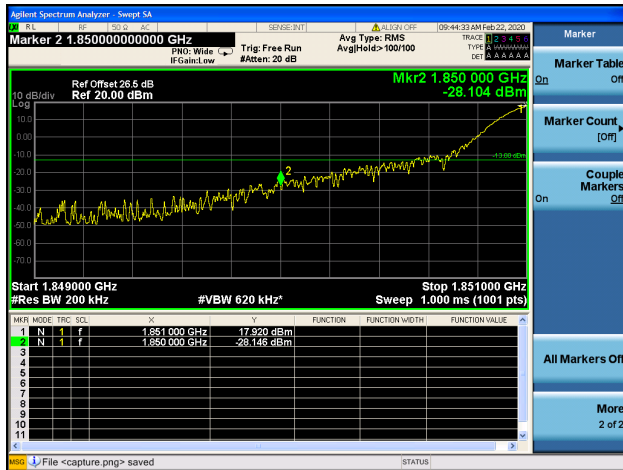
Band2 / 15MHz / High CH / QPSK / 1 RB



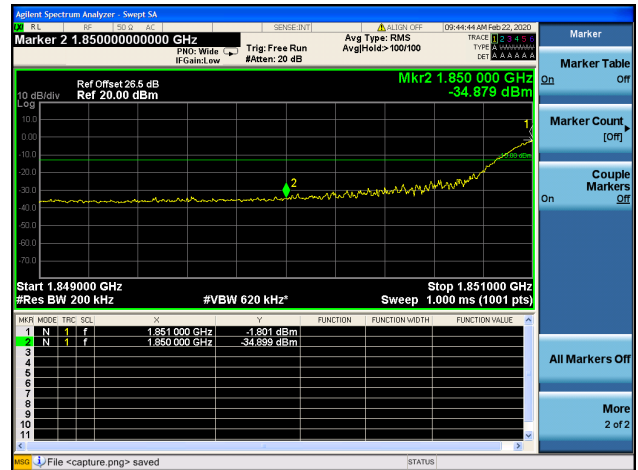
Band2 / 15MHz / High CH / QPSK / FULL RB



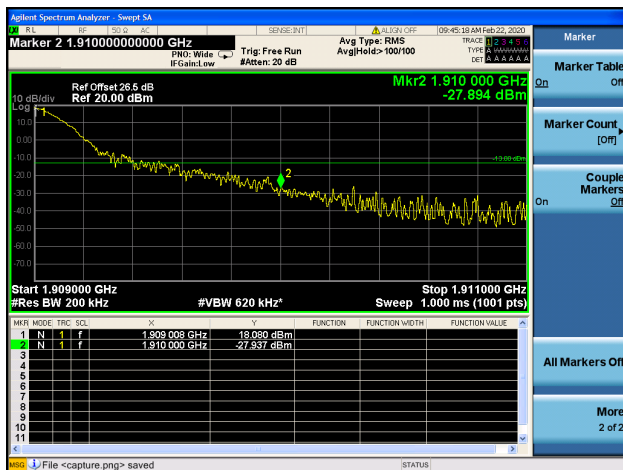
Band2 / 20MHz / Low CH / QPSK / 1 RB



Band2 / 20MHz / Low CH / QPSK / FULL RB



Band2 / 20MHz / High CH / QPSK / 1 RB

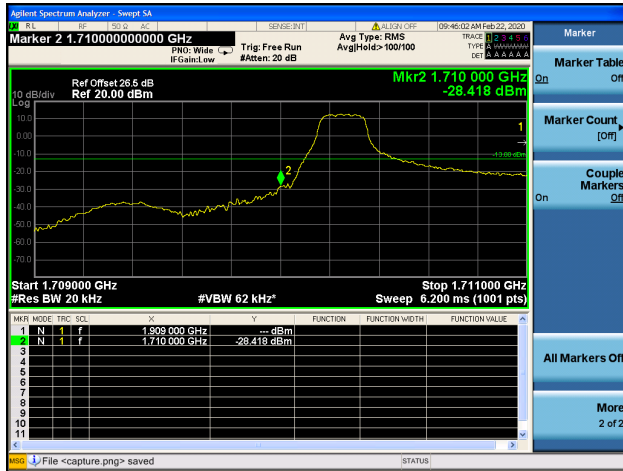


Band2 / 20MHz / High CH / QPSK / FULL RB





Band4 / 1.4MHz / Low CH / QPSK / 1 RB



Band4 / 1.4MHz / Low CH / QPSK / FULL RB



Band4 / 1.4MHz / High CH / QPSK / 1 RB



Band4 / 1.4MHz / High CH / QPSK / FULL RB



Band4 / 3MHz / Low CH / QPSK / 1 RB



Band4 / 3MHz / Low CH / QPSK / FULL RB

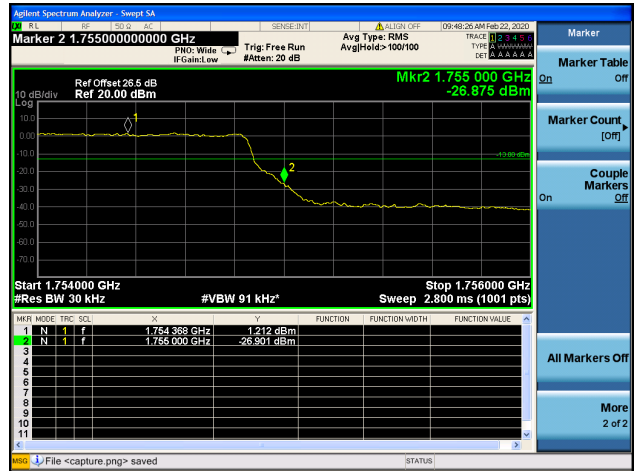




Band4 / 3MHz / High CH / QPSK / 1 RB



Band4 / 3MHz / High CH / QPSK / FULL RB



Band4 / 5MHz / Low CH / QPSK / 1 RB



Band4 / 5MHz / Low CH / QPSK / FULL RB



Band4 / 5MHz / High CH / QPSK / 1 RB



Band4 / 5MHz / High CH / QPSK / FULL RB





Band4 / 10MHz / Low CH / QPSK / 1 RB



Band4 / 10MHz / Low CH / QPSK / FULL RB



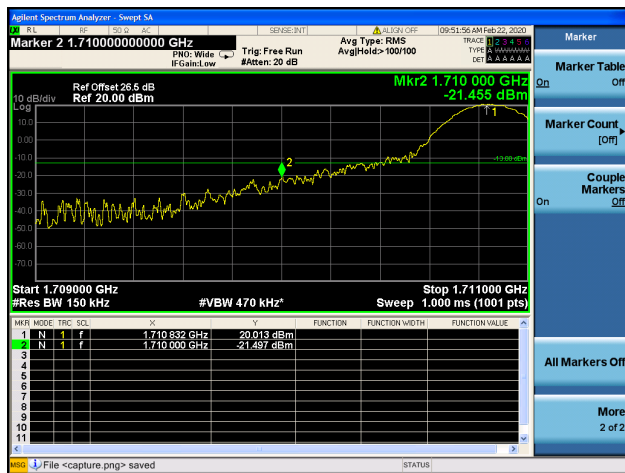
Band4 / 10MHz / High CH / QPSK / 1 RB



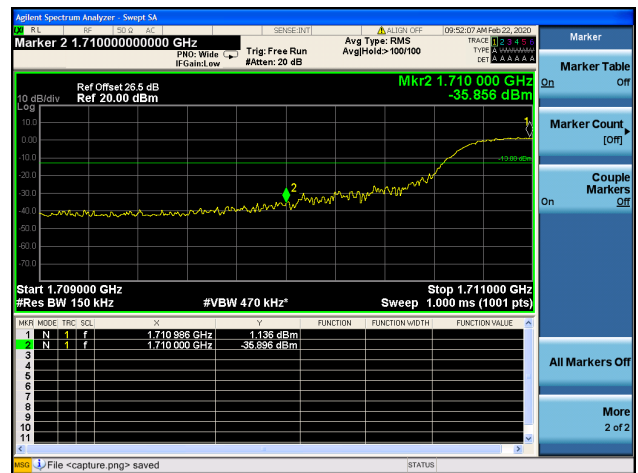
Band4 / 10MHz / High CH / QPSK / FULL RB



Band4 / 15MHz / Low CH / QPSK / 1 RB



Band4 / 15MHz / Low CH / QPSK / FULL RB





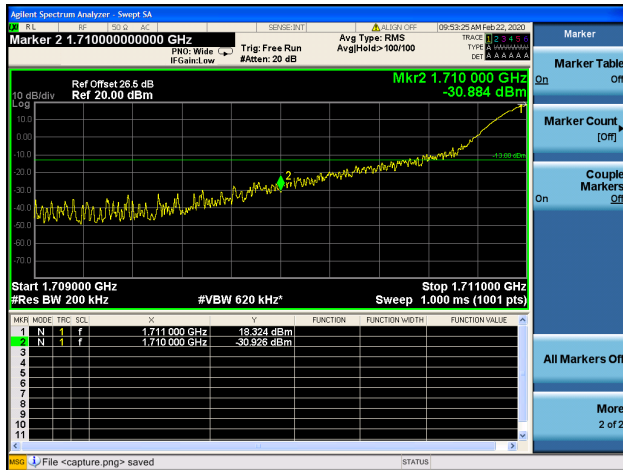
Band4 / 15MHz / High CH / QPSK / 1 RB



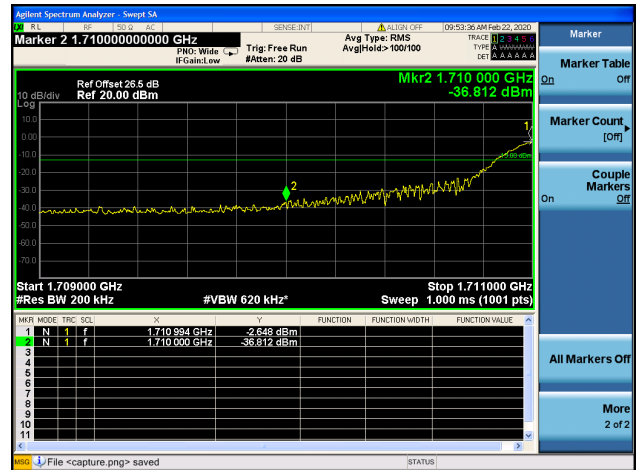
Band4 / 15MHz / High CH / QPSK / FULL RB



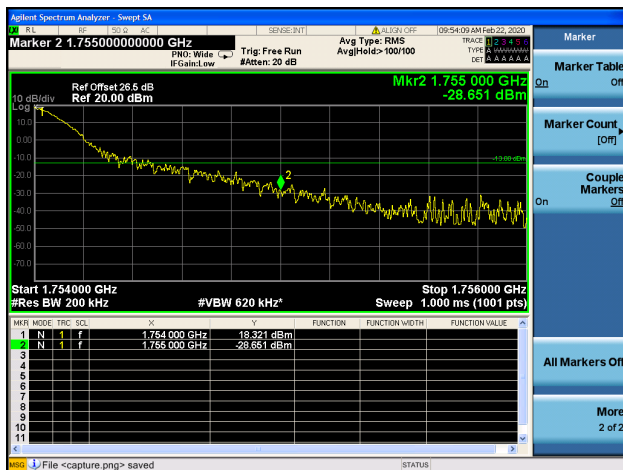
Band4 / 20MHz / Low CH / QPSK / 1 RB



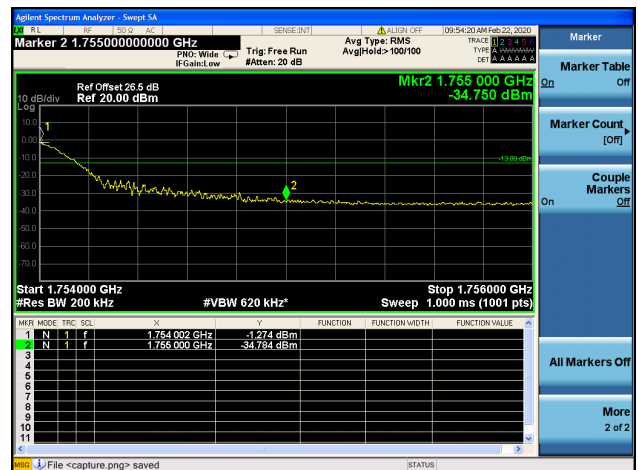
Band4 / 20MHz / Low CH / QPSK / FULL RB



Band4 / 20MHz / High CH / QPSK / 1 RB

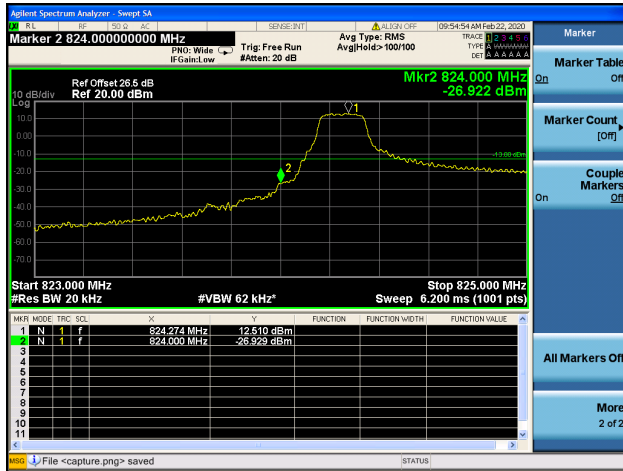


Band4 / 20MHz / High CH / QPSK / FULL RB

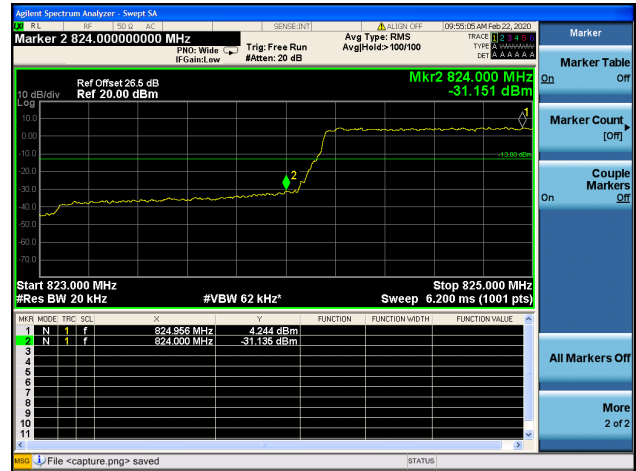




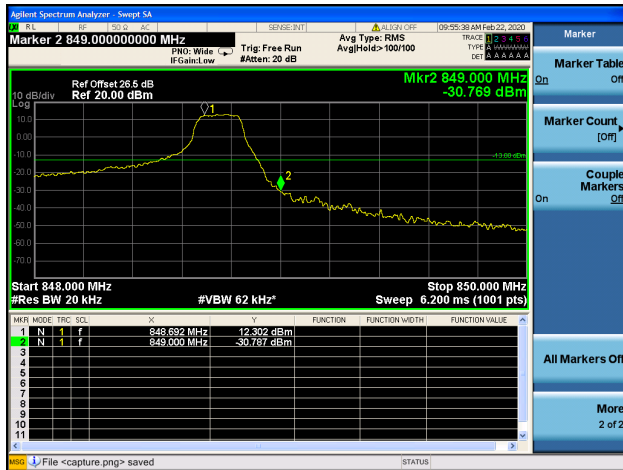
Band5 / 1.4MHz / Low CH / QPSK / 1 RB



Band5 / 1.4MHz / Low CH / QPSK / FULL RB



Band5 / 1.4MHz / High CH / QPSK / 1 RB



Band5 / 1.4MHz / High CH / QPSK / FULL RB



Band5 / 3MHz / Low CH / QPSK / 1 RB



Band5 / 3MHz / Low CH / QPSK / FULL RB

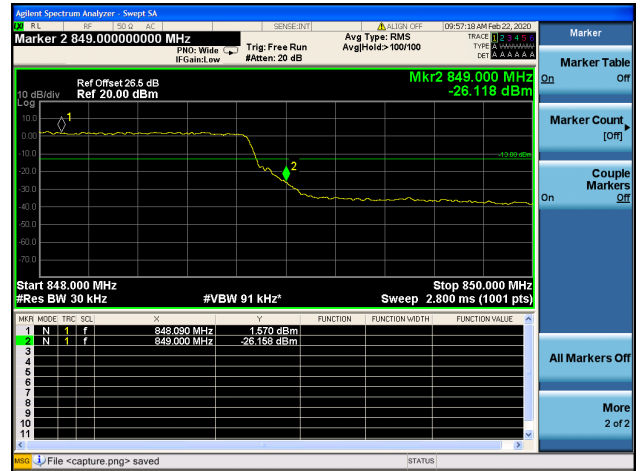




Band5 / 3MHz / High CH / QPSK / 1 RB



Band5 / 3MHz / High CH / QPSK / FULL RB



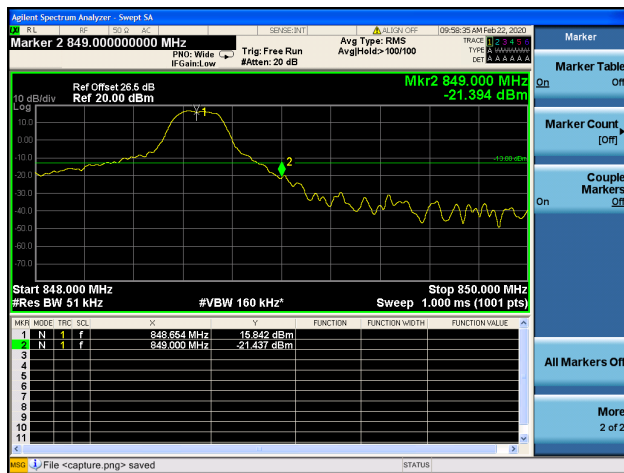
Band5 / 5MHz / Low CH / QPSK / 1 RB



Band5 / 5MHz / Low CH / QPSK / FULL RB



Band5 / 5MHz / High CH / QPSK / 1 RB

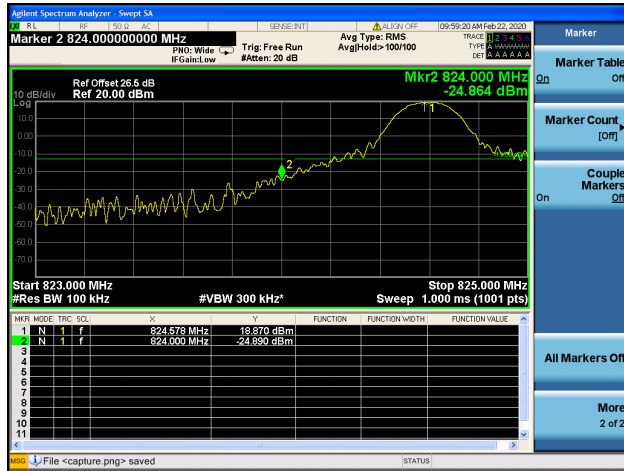


Band5 / 5MHz / High CH / QPSK / FULL RB





Band5 / 10MHz / Low CH / QPSK / 1 RB



Band5 / 10MHz / Low CH / QPSK / FULL RB



Band5 / 10MHz / High CH / QPSK / 1 RB



Band5 / 10MHz / High CH / QPSK / FULL RB





LTE Band 7

Channel Bandwidth: 5MHz

Channel	20775	1RB	Channel	20775	FULL RB																																																																																																																
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Channel Bandwidth: 5MHz

Channel	21425	1RB	Channel	21425	FULL RB																																																																																																
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LTE Band 7

Channel Bandwidth: 10MHz

Channel	20800	1RB	Channel	20800	FULL RB																																																																																																																
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Channel Bandwidth: 10MHz

Channel	21400	1RB	Channel	21400	FULL RB																																																																																																
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LTE Band 7

Channel Bandwidth: 15MHz

Channel	20825	1RB	Channel	20825	FULL RB																																																																																																																
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Channel Bandwidth: 15MHz

Channel	21375	1RB	Channel	21375	FULL RB																																																																																																
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LTE Band 7

Channel Bandwidth: 20MHz

Channel	20850	1RB	Channel	20850	FULL RB																																																																																																																
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Channel Bandwidth: 20MHz

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LTE Band 38

Channel Bandwidth: 5MHz

Channel	37775	1RB	Channel	37775	FULL RB																																																																																
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1	1	2.5450 GHz	2.5500 GHz	1.000 MHz	2.548766667 GHz	-46.67 dBm	-21.67 dB																																																																														
2	2	2.5500 GHz	2.5650 GHz	1.000 MHz	2.563325000 GHz	-48.75 dBm	-35.75 dB																																																																														
3	3	2.5650 GHz	2.5700 GHz	100.0 kHz	2.568991667 GHz	-38.16 dBm	-26.16 dB																																																																														
4	4	2.5700 GHz	2.5900 GHz	1.000 MHz	2.574166667 GHz	-17.39 dBm	-12.61 dB																																																																														

Channel Bandwidth: 5MHz

Channel	38225	1RB	Channel	38225	FULL RB																																																																																
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LTE Band 38

Channel Bandwidth: 10MHz

Channel	37800	1RB	Channel	37800	FULL RB																																																																																
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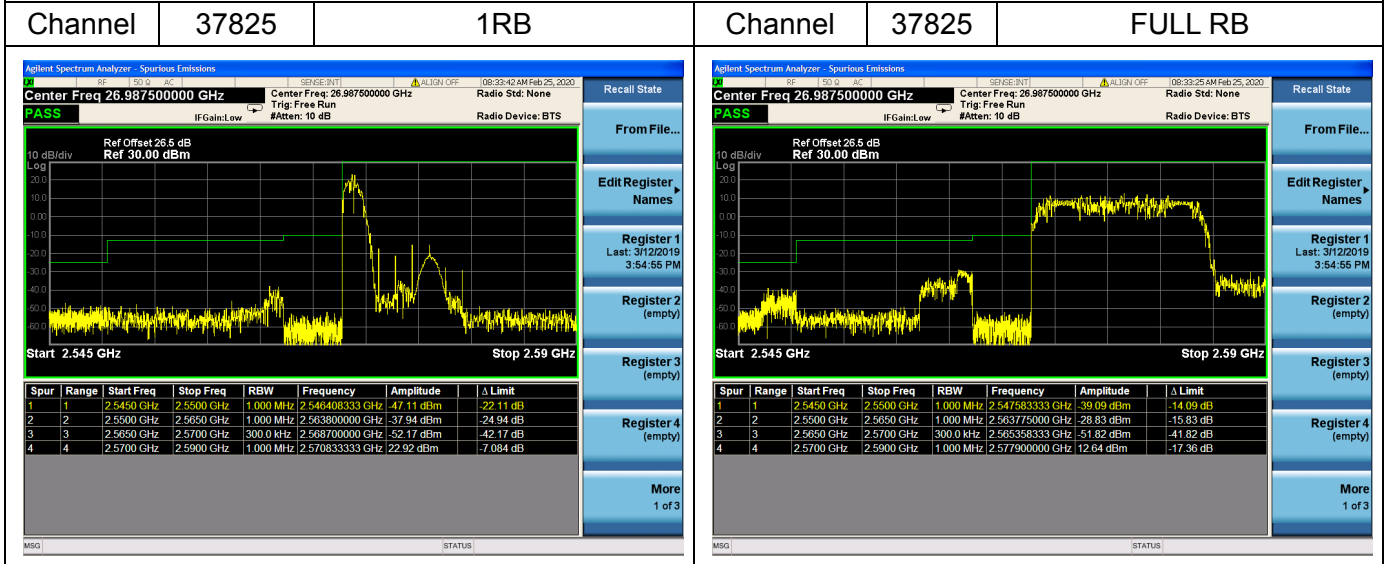
Channel Bandwidth: 10MHz

Channel	38200	1RB	Channel	38200	FULL RB																																																																																
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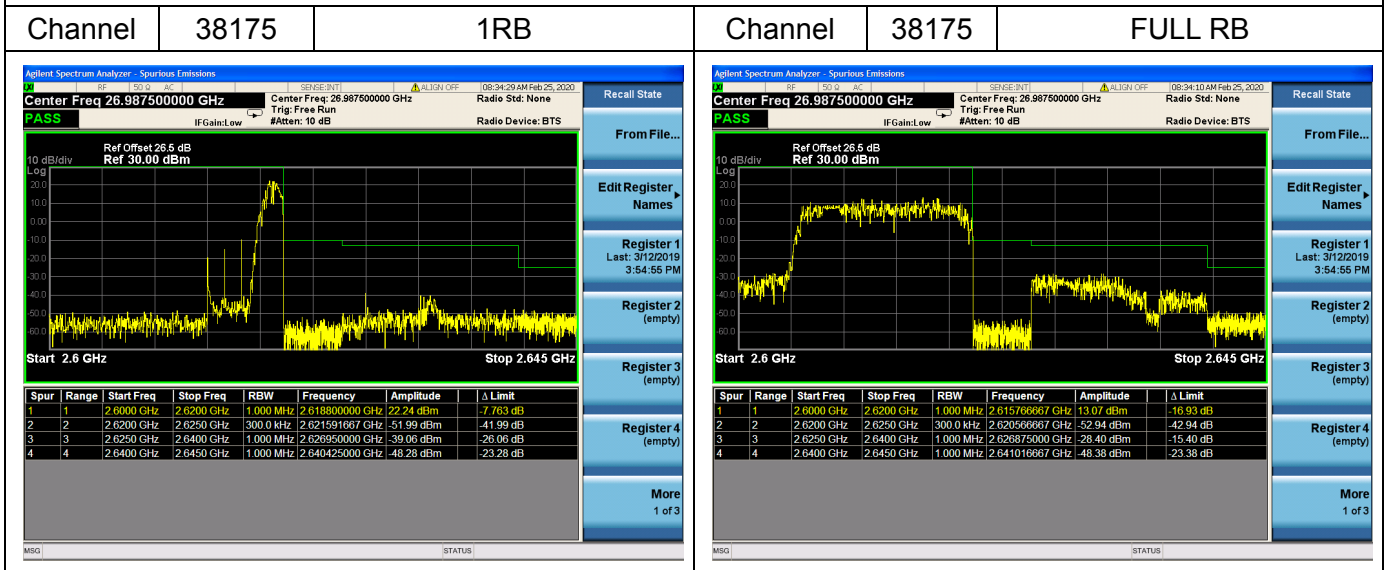


LTE Band 38

Channel Bandwidth: 15MHz



Channel Bandwidth: 15MHz





LTE Band 38

Channel Bandwidth: 20MHz

Channel	37850	1RB	Channel	37850	FULL RB																																																																																
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Channel Bandwidth: 20MHz

Channel	38150	1RB	Channel	38150	FULL RB																																																																																
<table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>2.6000 GHz</td> <td>2.6200 GHz</td> <td>1.000 MHz</td> <td>2.618933333 GHz</td> <td>24.01 dBm</td> <td>-5.992 dB</td> </tr> <tr> <td>2</td> <td>2</td> <td>2.6200 GHz</td> <td>2.6250 GHz</td> <td>430.0 kHz</td> <td>2.620425000 GHz</td> <td>-51.05 dBm</td> <td>-41.05 dB</td> </tr> <tr> <td>3</td> <td>3</td> <td>2.6250 GHz</td> <td>2.6400 GHz</td> <td>1.000 MHz</td> <td>2.628025000 GHz</td> <td>-34.99 dBm</td> <td>-21.99 dB</td> </tr> <tr> <td>4</td> <td>4</td> <td>2.6400 GHz</td> <td>2.6450 GHz</td> <td>1.000 MHz</td> <td>2.641016667 GHz</td> <td>-47.91 dBm</td> <td>-22.91 dB</td> </tr> </tbody> </table>			Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit	1	1	2.6000 GHz	2.6200 GHz	1.000 MHz	2.618933333 GHz	24.01 dBm	-5.992 dB	2	2	2.6200 GHz	2.6250 GHz	430.0 kHz	2.620425000 GHz	-51.05 dBm	-41.05 dB	3	3	2.6250 GHz	2.6400 GHz	1.000 MHz	2.628025000 GHz	-34.99 dBm	-21.99 dB	4	4	2.6400 GHz	2.6450 GHz	1.000 MHz	2.641016667 GHz	-47.91 dBm	-22.91 dB	<table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>Δ Limit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>2.6000 GHz</td> <td>2.6200 GHz</td> <td>1.000 MHz</td> <td>2.602266667 GHz</td> <td>12.22 dBm</td> <td>-17.78 dB</td> </tr> <tr> <td>2</td> <td>2</td> <td>2.6200 GHz</td> <td>2.6250 GHz</td> <td>430.0 kHz</td> <td>2.624158333 GHz</td> <td>-52.07 dBm</td> <td>-42.07 dB</td> </tr> <tr> <td>3</td> <td>3</td> <td>2.6250 GHz</td> <td>2.6400 GHz</td> <td>1.000 MHz</td> <td>2.633375000 GHz</td> <td>-28.96 dBm</td> <td>-15.96 dB</td> </tr> <tr> <td>4</td> <td>4</td> <td>2.6400 GHz</td> <td>2.6450 GHz</td> <td>1.000 MHz</td> <td>2.643025000 GHz</td> <td>-46.45 dBm</td> <td>-21.45 dB</td> </tr> </tbody> </table>			Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit	1	1	2.6000 GHz	2.6200 GHz	1.000 MHz	2.602266667 GHz	12.22 dBm	-17.78 dB	2	2	2.6200 GHz	2.6250 GHz	430.0 kHz	2.624158333 GHz	-52.07 dBm	-42.07 dB	3	3	2.6250 GHz	2.6400 GHz	1.000 MHz	2.633375000 GHz	-28.96 dBm	-15.96 dB	4	4	2.6400 GHz	2.6450 GHz	1.000 MHz	2.643025000 GHz	-46.45 dBm	-21.45 dB
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2.7. Radiated Spurious Emissions

2.7.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

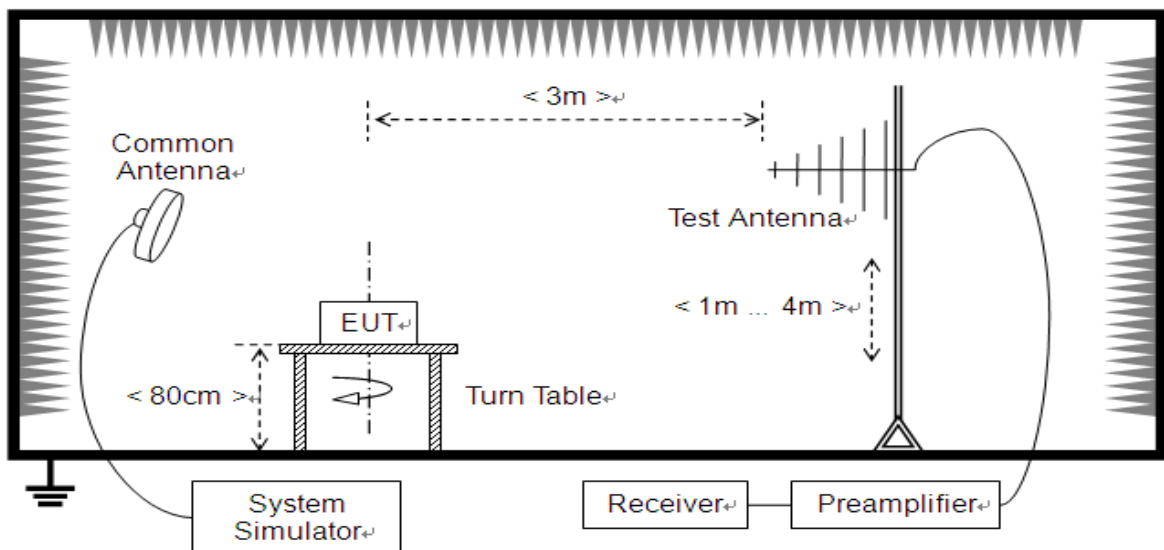
Additional requirement for LTE Band 7 / 38 / 41:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

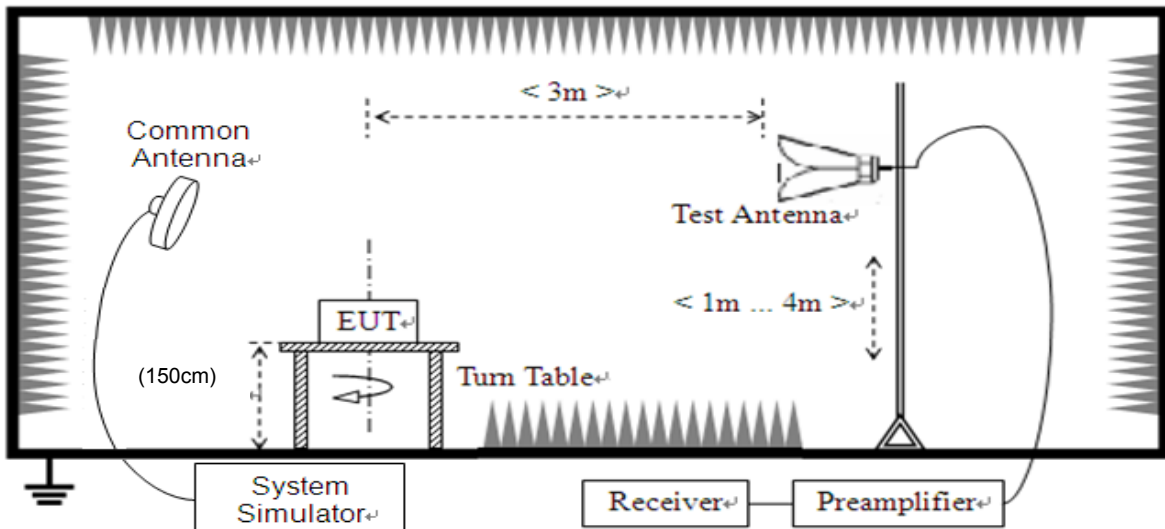
Additional requirement for LTE Band 30 / 40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

2.7.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.



2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

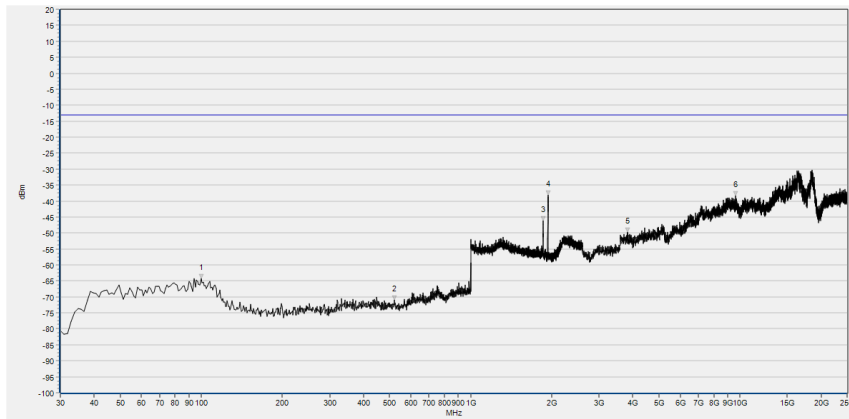
During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

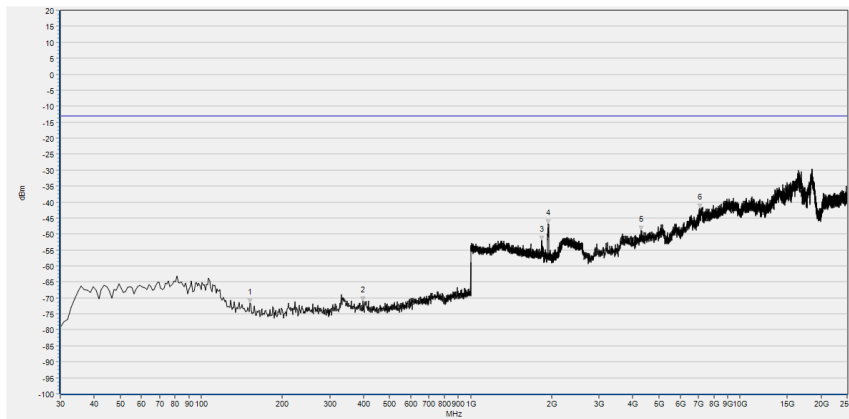
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

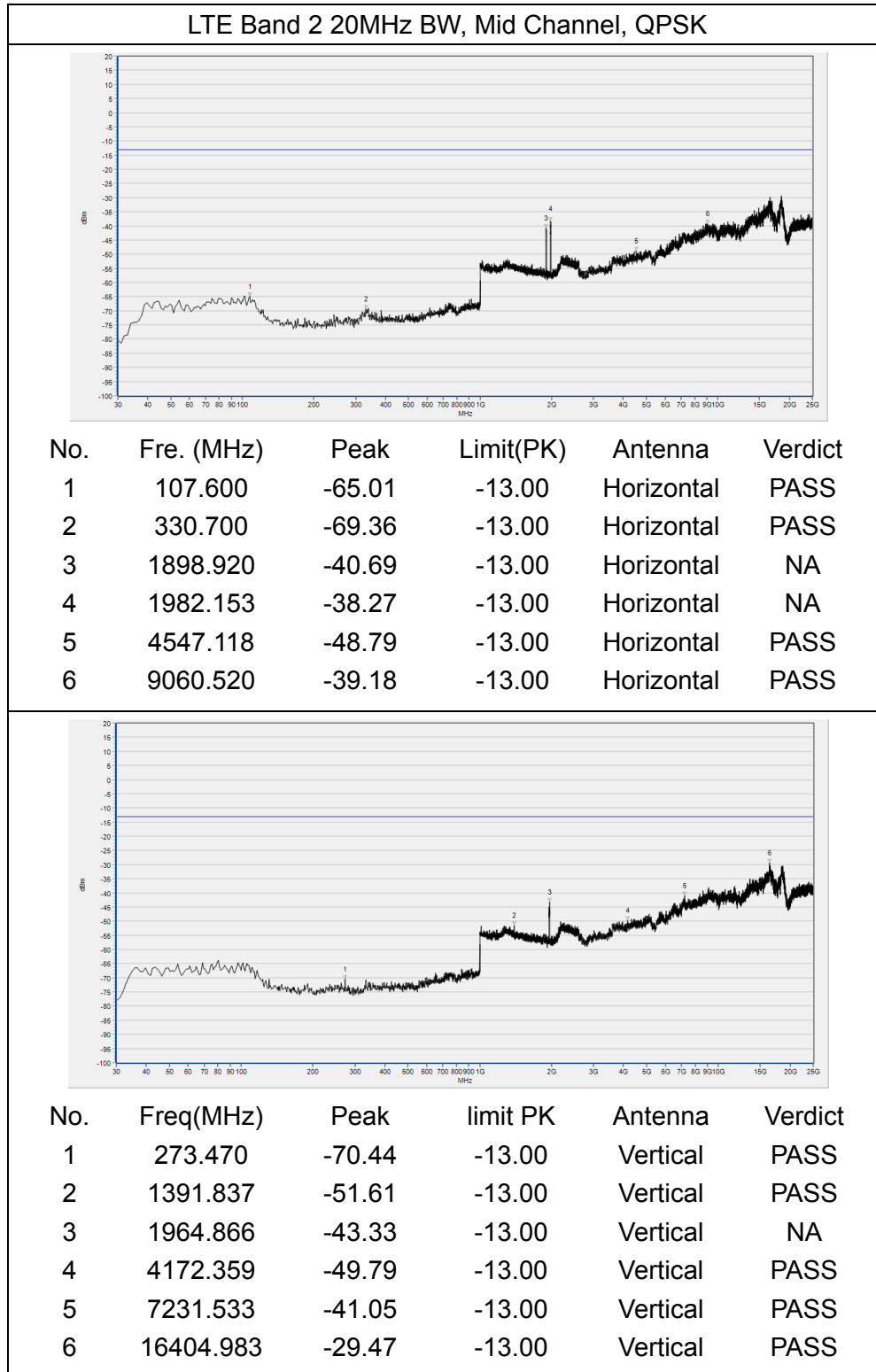
LTE Band 2 20MHz BW, Low Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	99.840	-64.35	-13.00	Horizontal	PASS
2	521.790	-71.00	-13.00	Horizontal	PASS
3	1857.303	-46.11	-13.00	Horizontal	NA
4	1943.097	-38.09	-13.00	Horizontal	NA
5	3822.040	-49.78	-13.00	Horizontal	PASS
6	9618.585	-38.28	-13.00	Horizontal	PASS

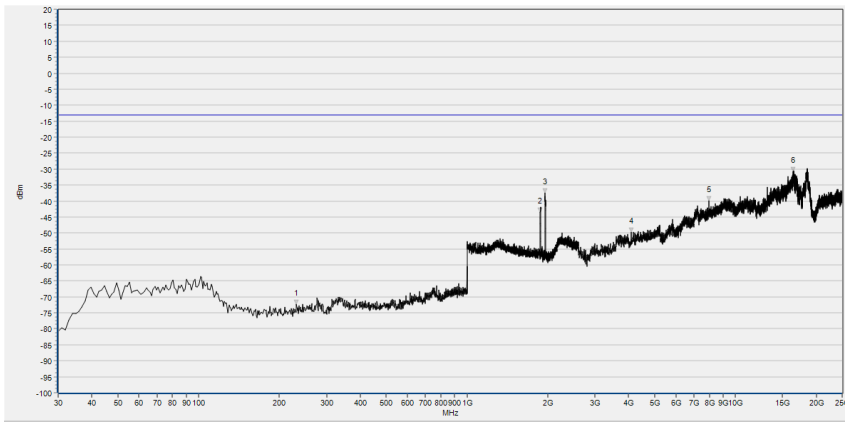


No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	151.250	-71.72	-13.00	Vertical	PASS
2	398.600	-71.05	-13.00	Vertical	PASS
3	1836.815	-52.01	-13.00	Vertical	NA
4	1946.299	-46.79	-13.00	Vertical	NA
5	4302.710	-48.93	-13.00	Vertical	PASS
6	7109.329	-41.90	-13.00	Vertical	PASS

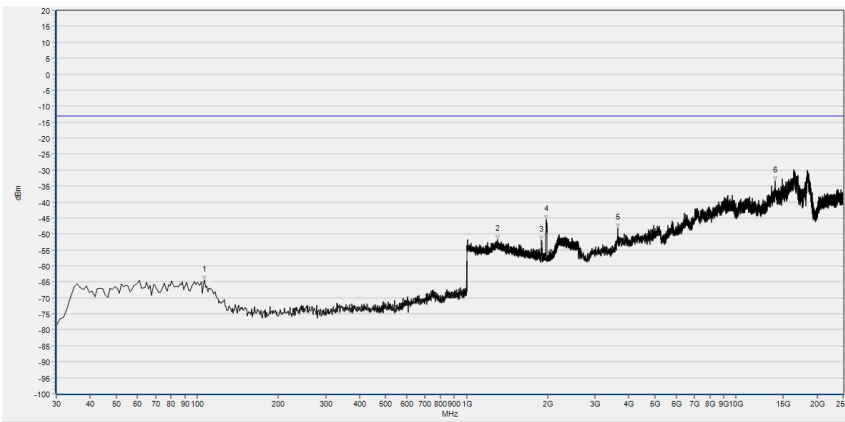




LTE Band 2 20MHz BW, High Channel, QPSK



No.	Fre. (MHz)	Peak	Limit(PK)	Antenna	Verdict
1	231.760	-72.33	-13.00	Horizontal	PASS
2	1876.511	-43.39	-13.00	Horizontal	NA
3	1955.902	-37.36	-13.00	Horizontal	NA
4	4094.963	-49.79	-13.00	Horizontal	PASS
5	7956.610	-39.93	-13.00	Horizontal	PASS
6	16425.350	-30.75	-13.00	Horizontal	PASS



No.	Freq(MHz)	Peak	limit PK	Antenna	Verdict
1	106.630	-64.44	-13.00	Vertical	PASS
2	1300.920	-51.75	-13.00	Vertical	PASS
3	1899.560	-51.88	-13.00	Vertical	NA
4	1975.750	-45.57	-13.00	Vertical	NA
5	3634.661	-48.15	-13.00	Vertical	PASS
6	14022.004	-33.48	-13.00	Vertical	PASS