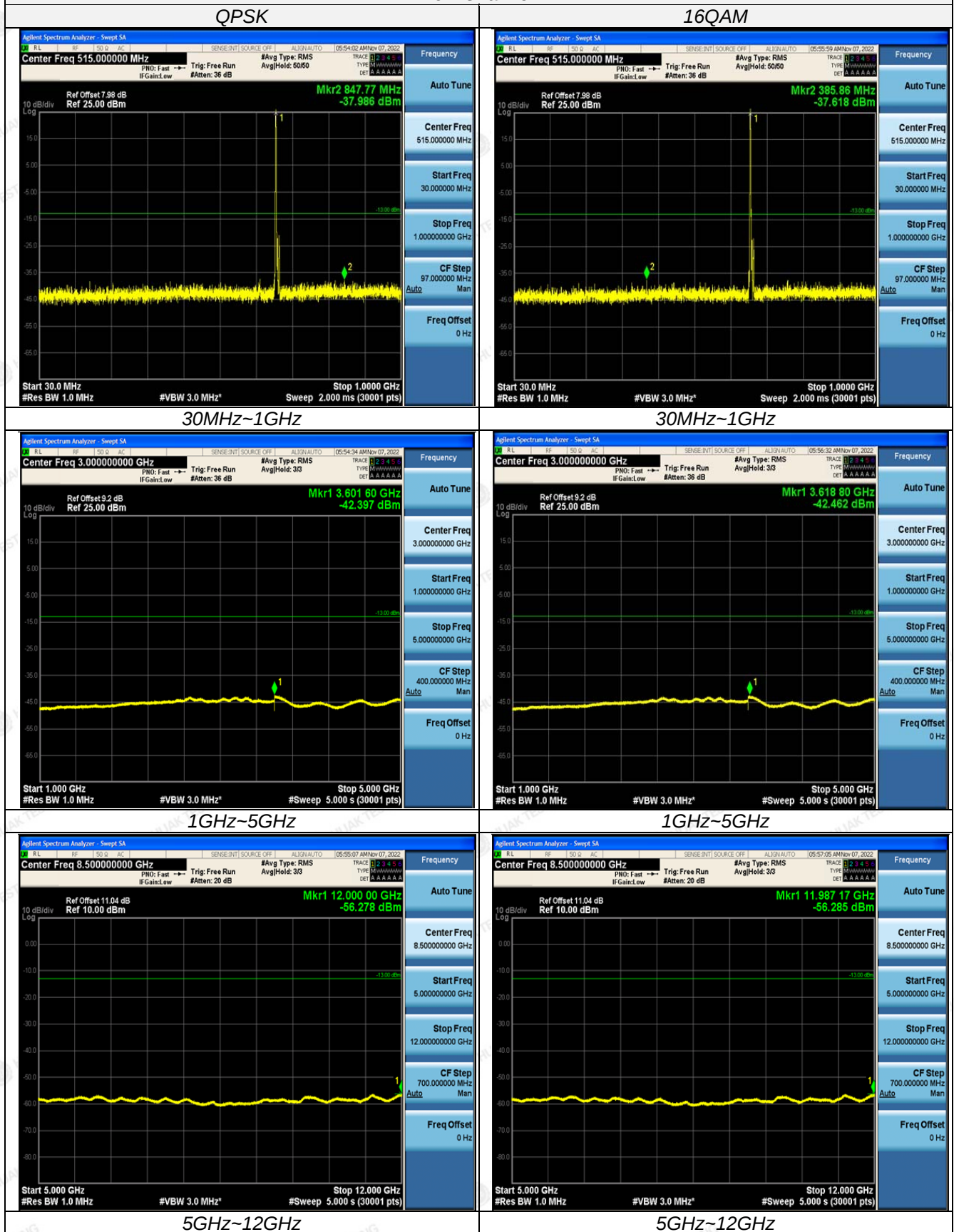


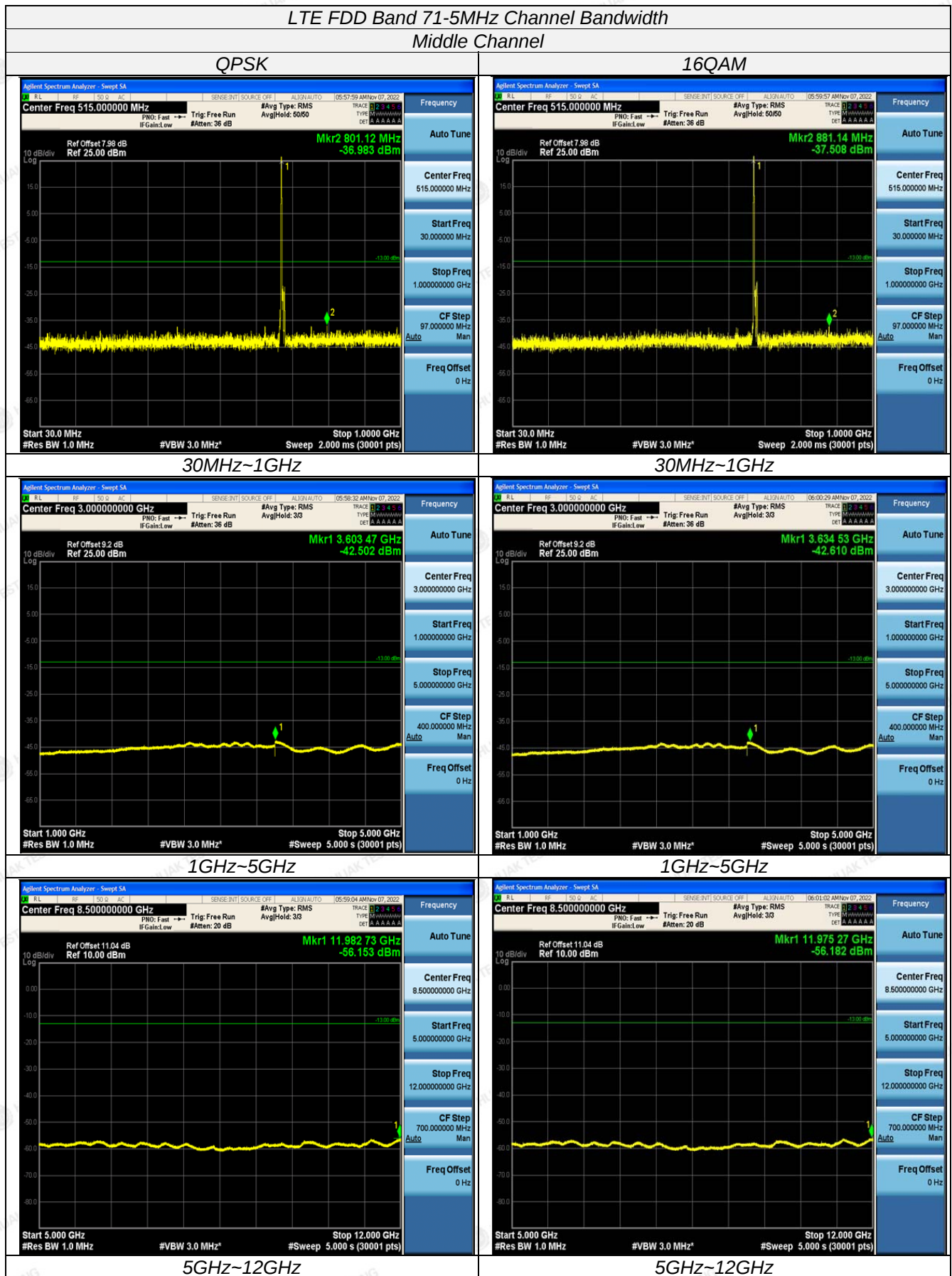
LTE FDD Band 71-5MHz Channel Bandwidth
Low Channel

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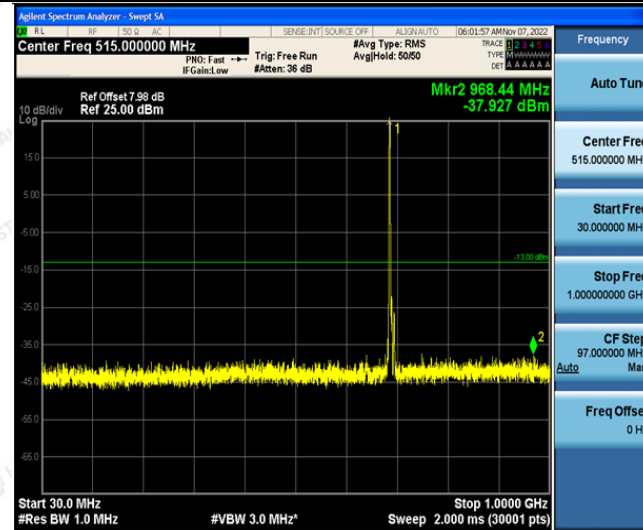
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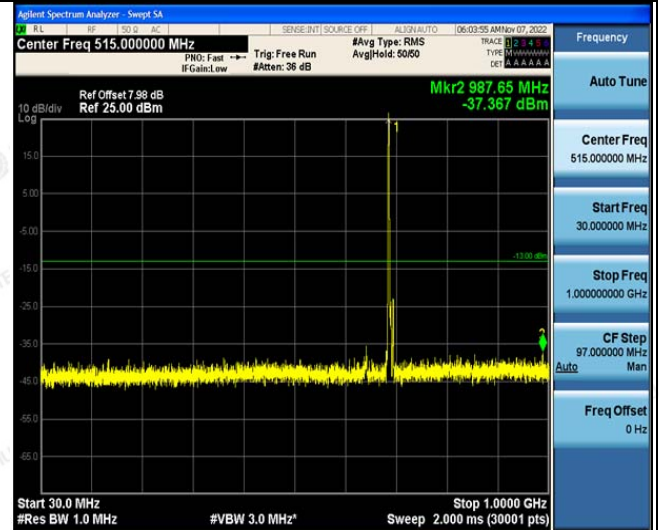


LTE FDD Band 71-5MHz Channel Bandwidth
High Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz~5GHz



1GHz~5GHz



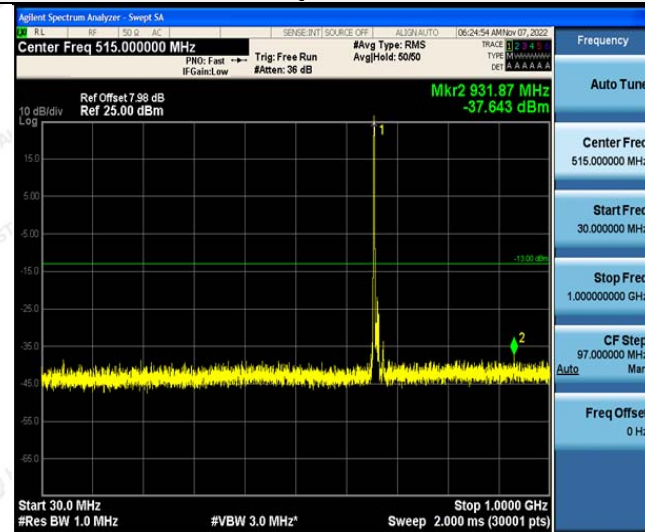
5GHz~12GHz

5GHz~12GHz

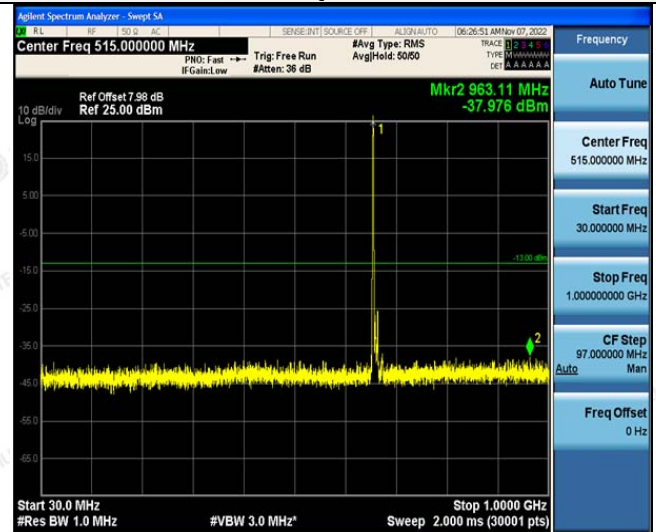


LTE FDD Band 71-10MHz Channel Bandwidth
Low Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz~5GHz

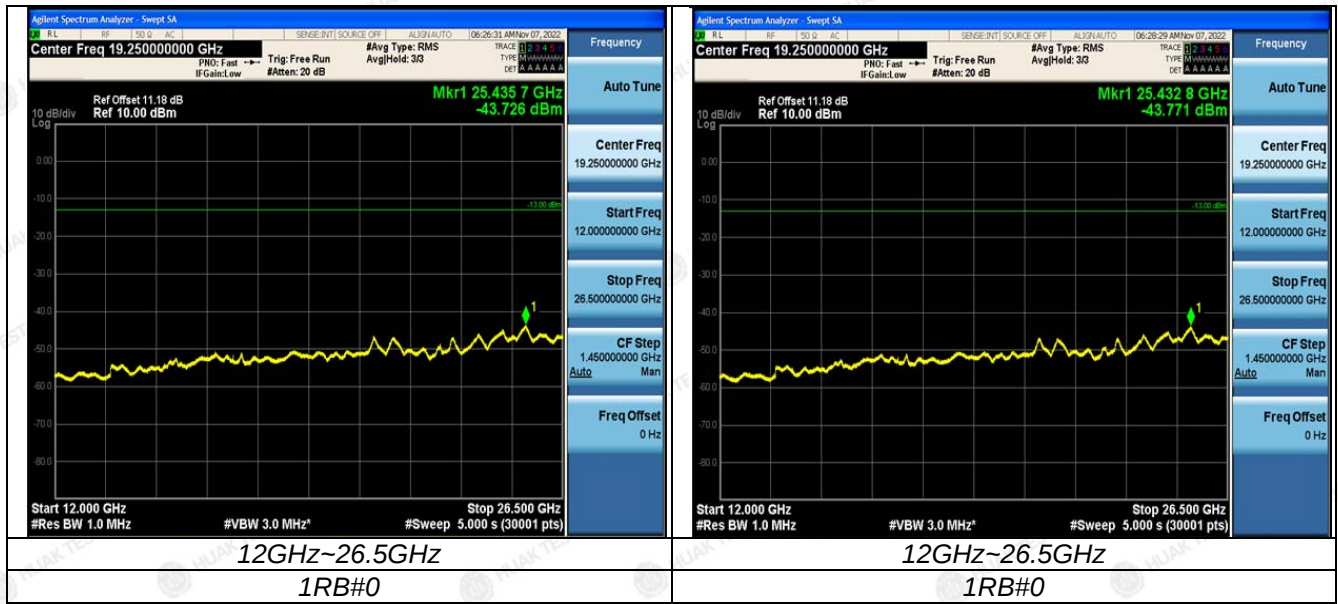


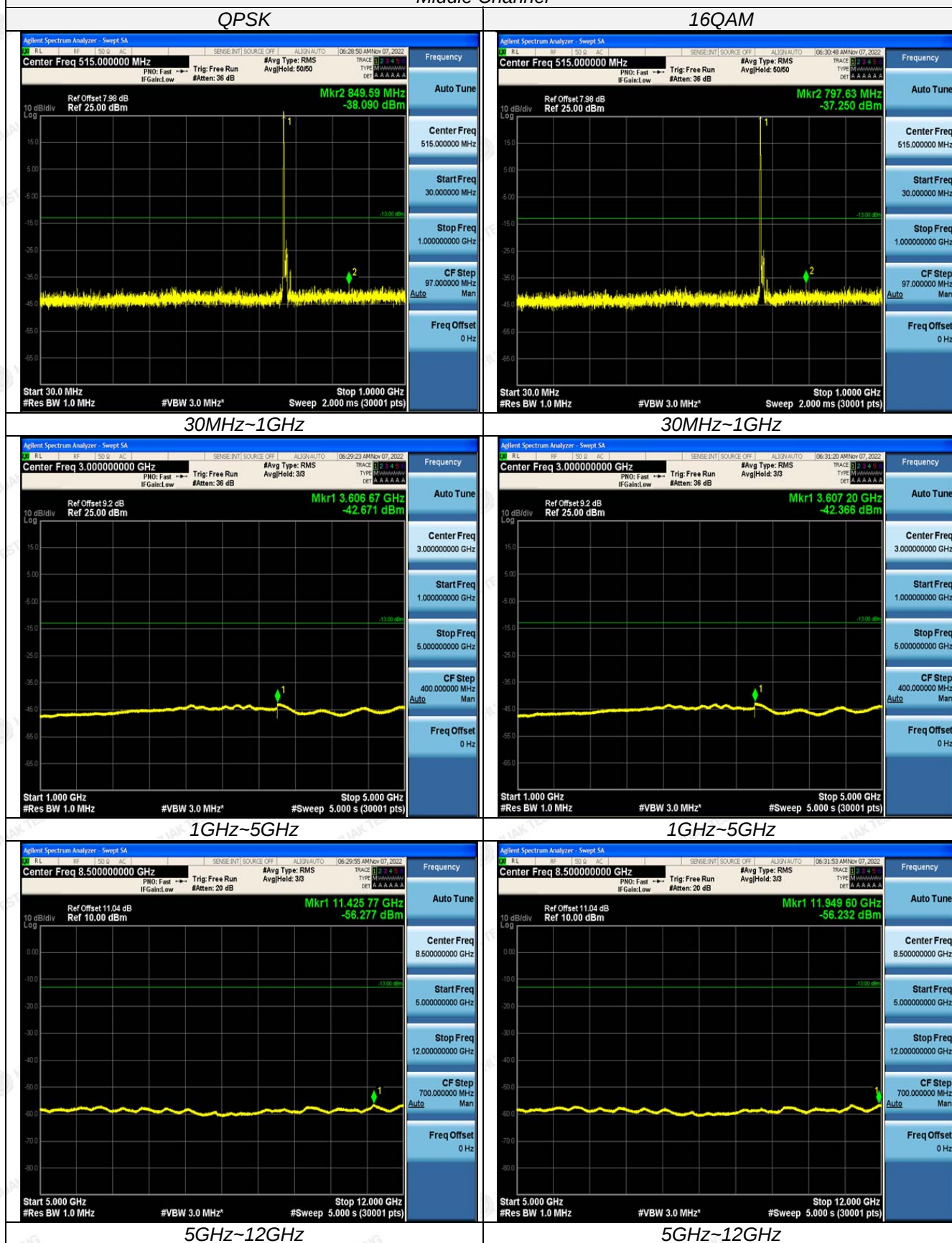
1GHz~5GHz



5GHz~12GHz

5GHz~12GHz

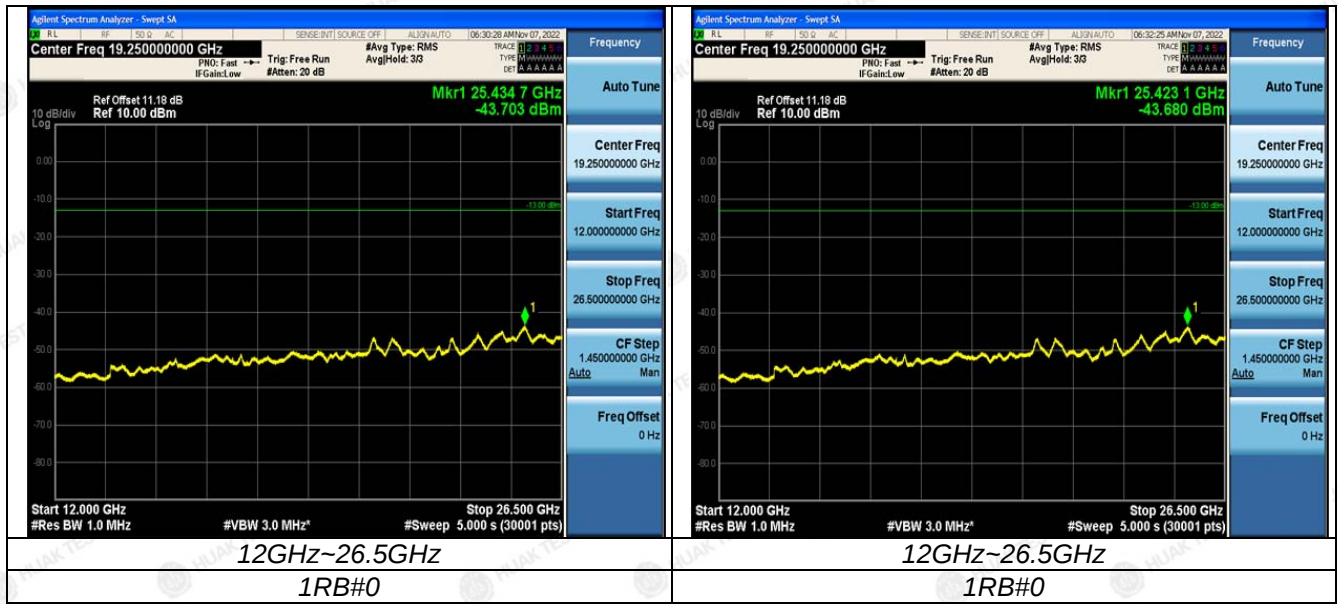


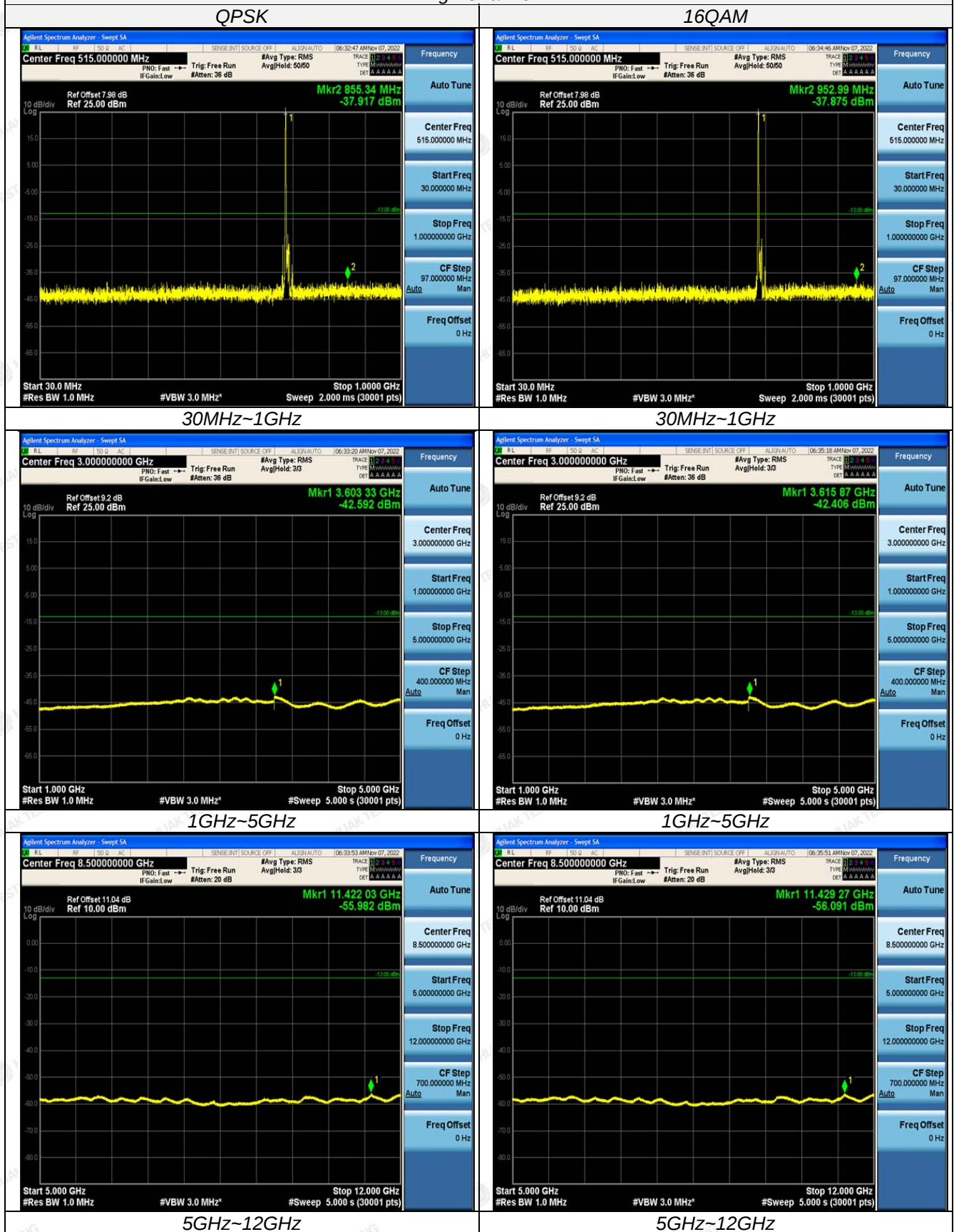
LTE FDD Band 71-10MHz Channel Bandwidth
Middle Channel

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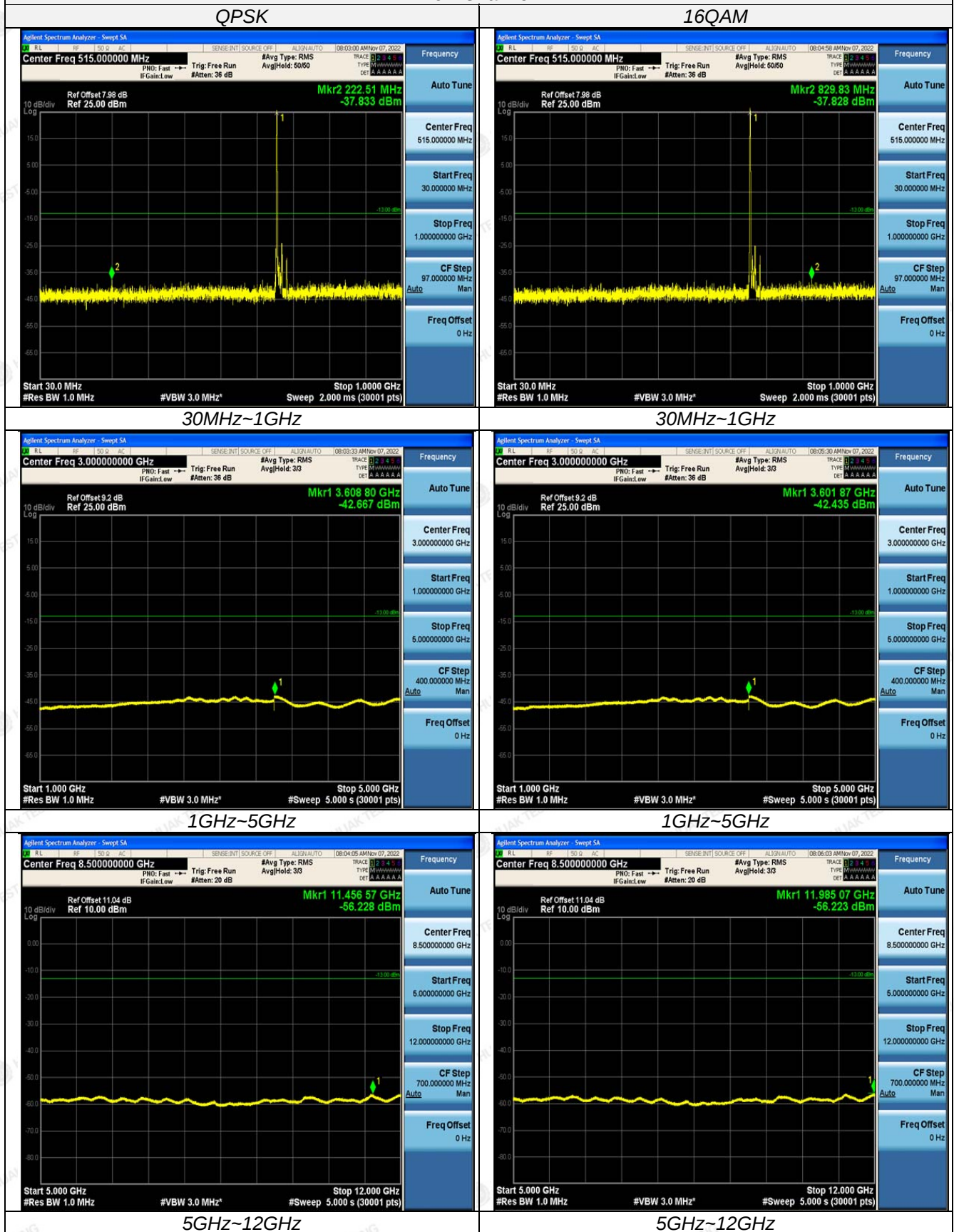
LTE FDD Band 71-10MHz Channel Bandwidth
High Channel

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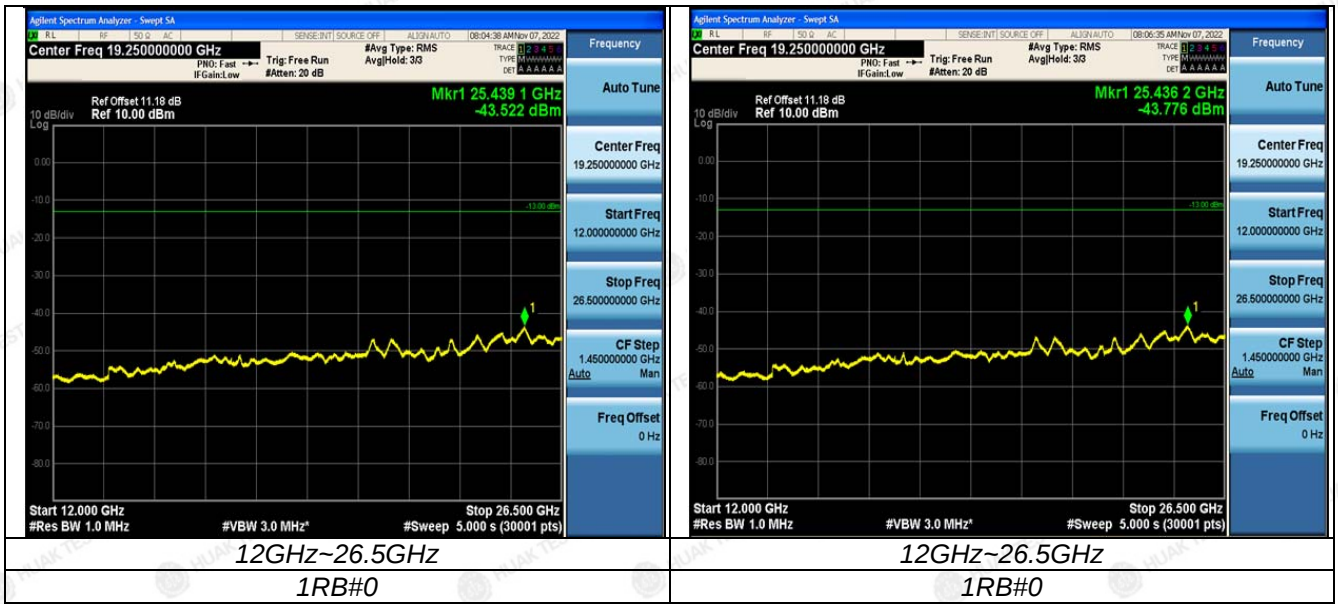


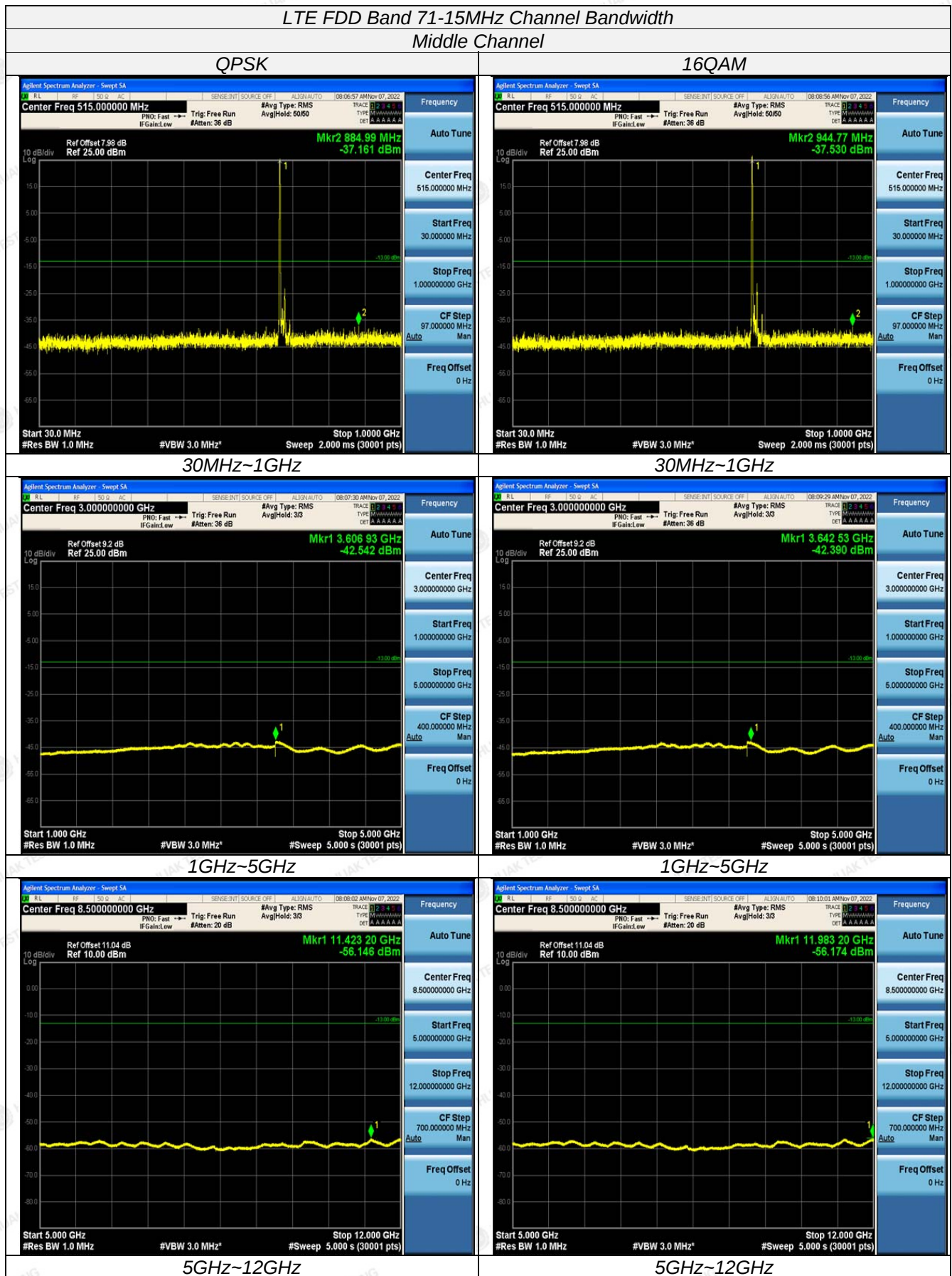
LTE FDD Band 71-15MHz Channel Bandwidth
Low Channel

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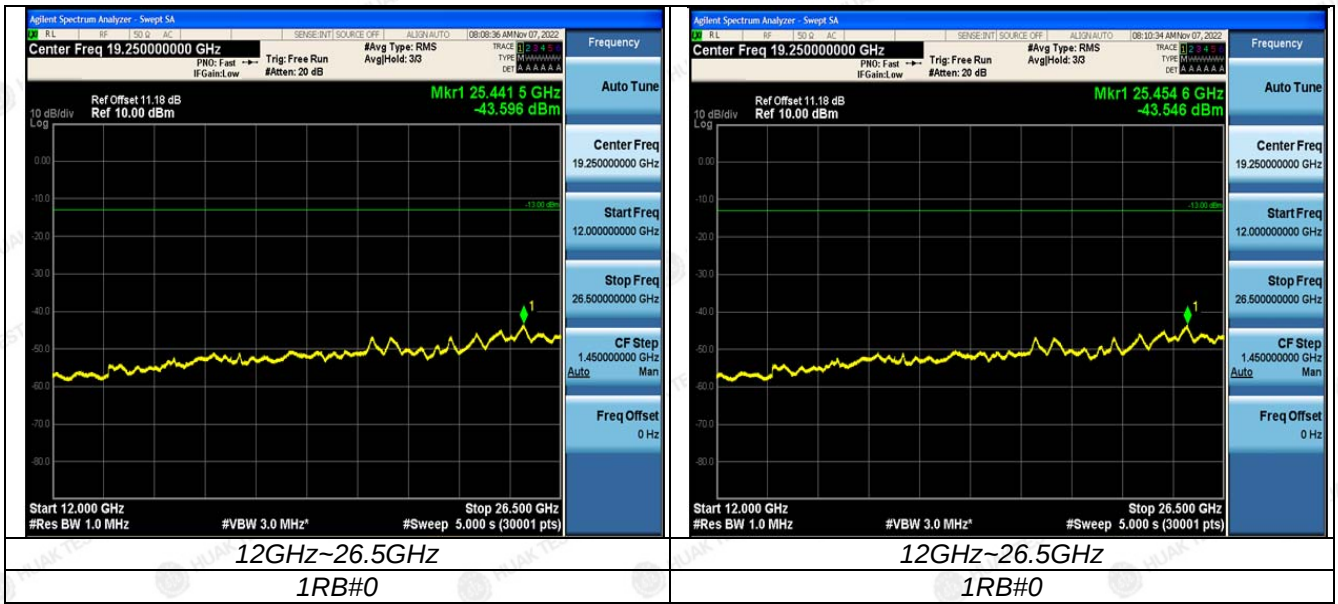




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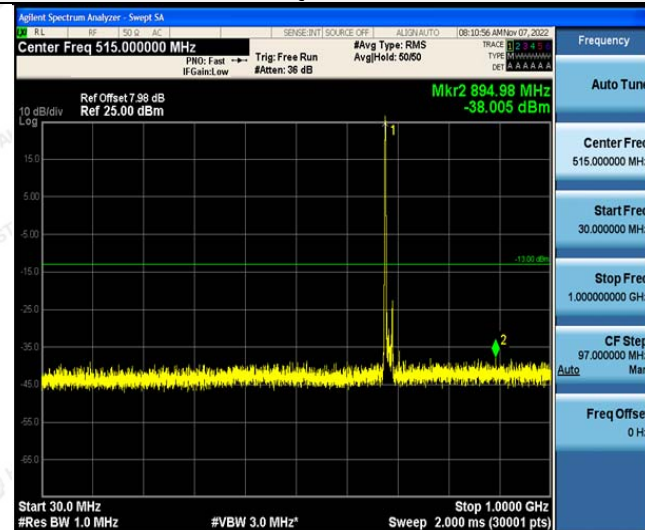
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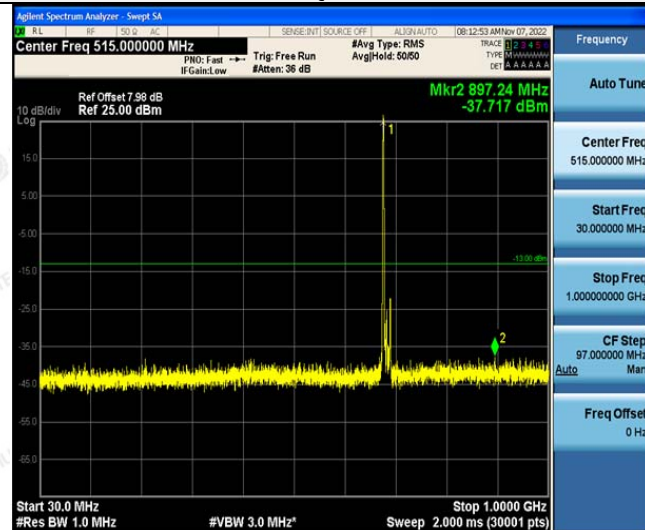


LTE FDD Band 71-15MHz Channel Bandwidth
High Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz~5GHz



1GHz~5GHz



5GHz~12GHz

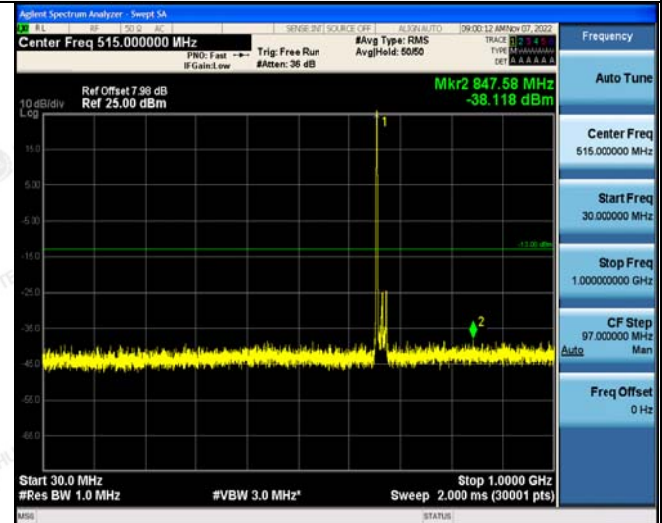
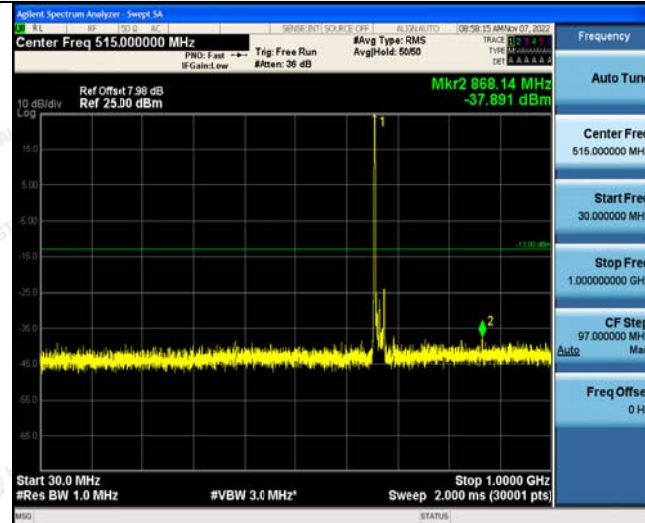
5GHz~12GHz



LTE FDD Band 71-20MHz Channel Bandwidth
Low Channel

QPSK

16QAM



30MHz~1GHz

30MHz~1GHz



1GHz~5GHz

1GHz~5GHz



5GHz~12GHz

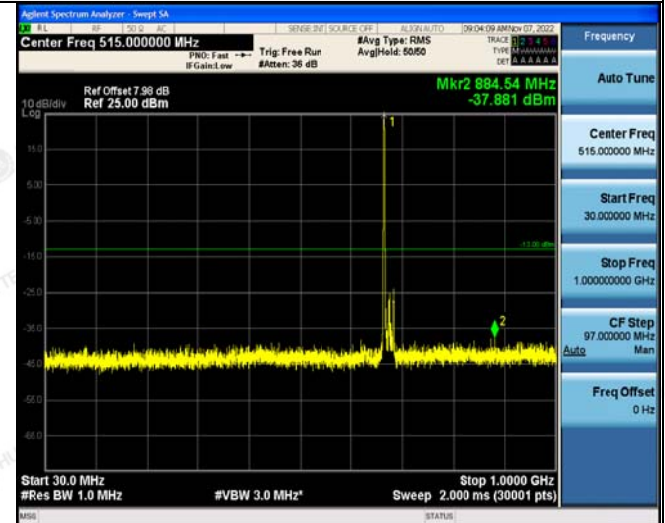
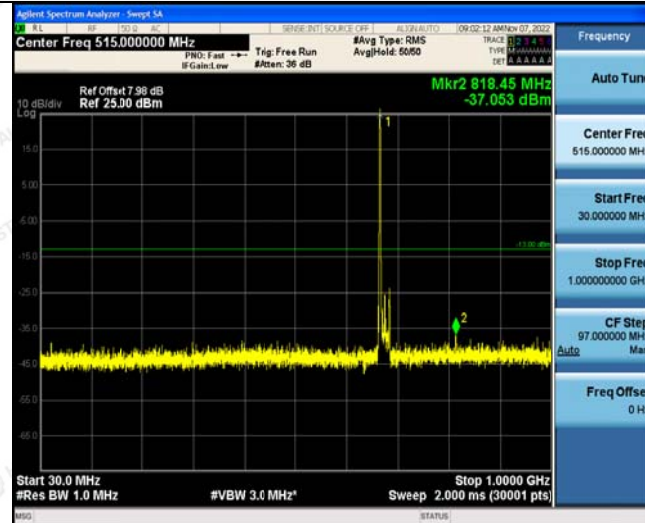
5GHz~12GHz



LTE FDD Band 71-20MHz Channel Bandwidth
Middle Channel

QPSK

16QAM



30MHz~1GHz

30MHz~1GHz



1GHz~5GHz

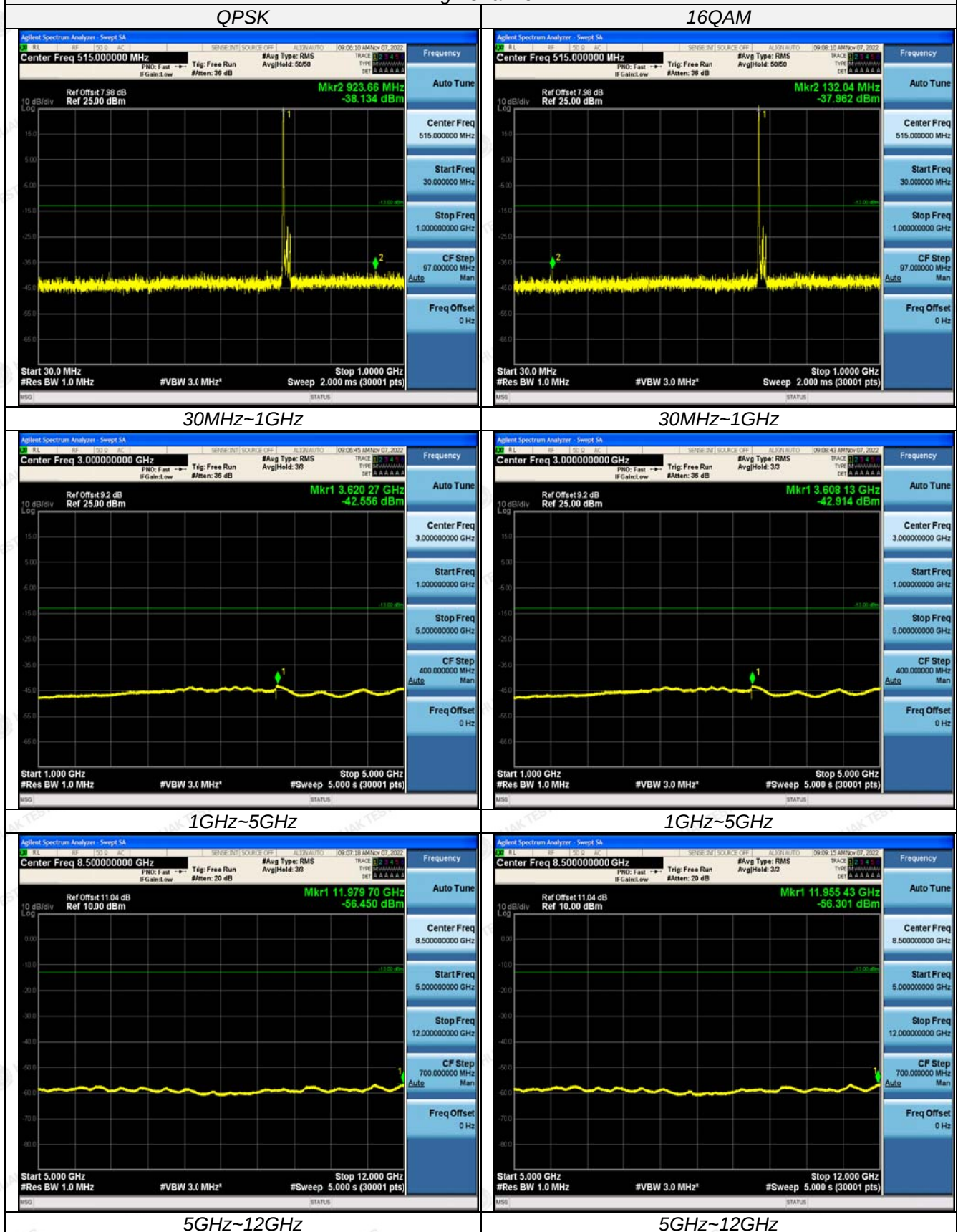
1GHz~5GHz



5GHz~12GHz

5GHz~12GHz



LTE FDD Band 71-20MHz Channel Bandwidth
High Channel

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**Radiated Measurement:**

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 71; recorded worst case for each Channel Bandwidth of LTE FDD Band 71.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
3. We were not recorded other points as values lower than limits.
4. $Margin = Limit - EIRP$

LTE FDD Band 71 Channel Bandwidth 5MHz QPSK Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1331	-35.85	2.86	3.00	7.25	-33.61	-13.00	20.61	H
1996.5	-43.77	2.94	3.00	9.53	-39.33	-13.00	26.33	H
1331	-44.43	2.86	3.00	7.25	-42.19	-13.00	29.19	V
1996.5	-47.73	2.94	3.00	9.53	-43.29	-13.00	30.29	V

LTE FDD Band 71 Channel Bandwidth 5MHz QPSK Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-33.75	2.86	3.00	7.25	-31.51	-13.00	18.51	H
2041.5	-40.28	2.94	3.00	9.53	-35.84	-13.00	22.84	H
1361	-40.9	2.86	3.00	7.25	-38.66	-13.00	25.66	V
2041.5	-47.41	2.94	3.00	9.53	-42.97	-13.00	29.97	V

LTE FDD Band 71 Channel Bandwidth 5MHz QPSK High Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1391	-41.23	2.86	3.00	7.25	-38.99	-13.00	25.99	H
2086.5	-43.91	2.94	3.00	9.53	-39.47	-13.00	26.47	H
1391	-48.92	2.86	3.00	7.25	-46.68	-13.00	33.68	V
2086.5	-54.2	2.94	3.00	9.53	-49.76	-13.00	36.76	V

LTE FDD Band 71 Channel Bandwidth 10MHz QPSK Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1336	-40.55	2.86	3.00	7.25	-38.31	-13.00	25.31	H
2004	-44.93	2.94	3.00	9.53	-40.49	-13.00	27.49	H
1336	-49.1	2.86	3.00	7.25	-46.86	-13.00	33.86	V
2004	-53.49	2.94	3.00	9.53	-49.05	-13.00	36.05	V

LTE FDD Band 71 Channel Bandwidth 10MHz QPSK Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-38.71	2.86	3.00	7.25	-36.47	-13.00	23.47	H
2041.5	-45.36	2.94	3.00	9.53	-40.92	-13.00	27.92	H
1361	-49.89	2.86	3.00	7.25	-47.65	-13.00	34.65	V
2041.5	-53.01	2.94	3.00	9.53	-48.57	-13.00	35.57	V

*LTE FDD Band 71_Channel Bandwidth 10MHz_QPSK_High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1386	-38.98	2.86	3.00	7.25	-36.74	-13.00	23.74	H
2079	-44.82	2.94	3.00	9.53	-40.38	-13.00	27.38	H
1386	-48.81	2.86	3.00	7.25	-46.57	-13.00	33.57	V
2079	-53.65	2.94	3.00	9.53	-49.21	-13.00	36.21	V

LTE FDD Band 71_Channel Bandwidth 15MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1341	-38.88	2.86	3.00	7.25	-36.64	-13.00	23.64	H
2011.5	-44.24	2.94	3.00	9.53	-39.8	-13.00	26.8	H
1341	-49.81	2.86	3.00	7.25	-47.57	-13.00	34.57	V
2011.5	-53.26	2.94	3.00	9.53	-48.82	-13.00	35.82	V

LTE FDD Band 71_Channel Bandwidth 15MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-39.27	2.86	3.00	7.25	-37.03	-13.00	24.03	H
2041.5	-44.12	2.94	3.00	9.53	-39.68	-13.00	26.68	H
1361	-48.67	2.86	3.00	7.25	-46.43	-13.00	33.43	V
2041.5	-52.99	2.94	3.00	9.53	-48.55	-13.00	35.55	V

LTE FDD Band 71_Channel Bandwidth 15MHz_QPSK_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1381	-37.75	2.86	3.00	7.25	-35.51	-13.00	22.51	H
2071.5	-44.74	2.94	3.00	9.53	-40.3	-13.00	27.3	H
1381	-49.18	2.86	3.00	7.25	-46.94	-13.00	33.94	V
2071.5	-52.51	2.94	3.00	9.53	-48.07	-13.00	35.07	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1346	-38.31	2.86	3.00	7.25	-36.07	-13.00	23.07	H
2019	-44.54	2.94	3.00	9.53	-40.1	-13.00	27.1	H
1346	-49.53	2.86	3.00	7.25	-47.29	-13.00	34.29	V
2019	-51.97	2.94	3.00	9.53	-47.53	-13.00	34.53	V

LTE FDD Band 71_Channel Bandwidth 20MHz_QPSK_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-38.43	2.86	3.00	7.25	-36.19	-13.00	23.19	H
2041.5	-43.44	2.94	3.00	9.53	-39	-13.00	26	H
1361	-48.45	2.86	3.00	7.25	-46.21	-13.00	33.21	V
2041.5	-54.07	2.94	3.00	9.53	-49.63	-13.00	36.63	V

*LTE FDD Band 71 Channel Bandwidth 20MHz QPSK High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1376	-38.38	2.86	3.00	7.25	-36.14	-13.00	23.14	H
2064	-45.16	2.94	3.00	9.53	-40.72	-13.00	27.72	H
1376	-48.55	2.86	3.00	7.25	-46.31	-13.00	33.31	V
2064	-52.97	2.94	3.00	9.53	-48.53	-13.00	35.53	V

LTE FDD Band 71 Channel Bandwidth 5MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1331	-38.06	2.86	3.00	7.25	-35.82	-13.00	22.82	H
1996.5	-45.18	2.94	3.00	9.53	-40.74	-13.00	27.74	H
1331	-48.86	2.86	3.00	7.25	-46.62	-13.00	33.62	V
1996.5	-53.26	2.94	3.00	9.53	-48.82	-13.00	35.82	V

LTE FDD Band 71 Channel Bandwidth 5MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-39.11	2.86	3.00	7.25	-36.87	-13.00	23.87	H
2041.5	-44.42	2.94	3.00	9.53	-39.98	-13.00	26.98	H
1361	-49.23	2.86	3.00	7.25	-46.99	-13.00	33.99	V
2041.5	-52.98	2.94	3.00	9.53	-48.54	-13.00	35.54	V

LTE FDD Band 71 Channel Bandwidth 5MHz 16QAM High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1391	-38.64	2.86	3.00	7.25	-36.4	-13.00	23.4	H
2086.5	-45.78	2.94	3.00	9.53	-41.34	-13.00	28.34	H
1391	-50.09	2.86	3.00	7.25	-47.85	-13.00	34.85	V
2086.5	-52.95	2.94	3.00	9.53	-48.51	-13.00	35.51	V

LTE FDD Band 71 Channel Bandwidth 10MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1336	-38.61	2.86	3.00	7.25	-36.37	-13.00	23.37	H
2004	-43.81	2.94	3.00	9.53	-39.37	-13.00	26.37	H
1336	-49.67	2.86	3.00	7.25	-47.43	-13.00	34.43	V
2004	-52.71	2.94	3.00	9.53	-48.27	-13.00	35.27	V

LTE FDD Band 71 Channel Bandwidth 10MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-38.55	2.86	3.00	7.25	-36.31	-13.00	23.31	H
2041.5	-45.98	2.94	3.00	9.53	-41.54	-13.00	28.54	H
1361	-49.87	2.86	3.00	7.25	-47.63	-13.00	34.63	V
2041.5	-52.42	2.94	3.00	9.53	-47.98	-13.00	34.98	V

*LTE FDD Band 71_Channel Bandwidth 10MHz_16QAM_High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1386	-38.7	2.86	3.00	7.25	-36.46	-13.00	23.46	H
2079	-44.47	2.94	3.00	9.53	-40.03	-13.00	27.03	H
1386	-49.33	2.86	3.00	7.25	-47.09	-13.00	34.09	V
2079	-52.89	2.94	3.00	9.53	-48.45	-13.00	35.45	V

LTE FDD Band 71_Channel Bandwidth 15MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1341	-38.93	2.86	3.00	7.25	-36.69	-13.00	23.69	H
2011.5	-44.22	2.94	3.00	9.53	-39.78	-13.00	26.78	H
1341	-49.15	2.86	3.00	7.25	-46.91	-13.00	33.91	V
2011.5	-52.63	2.94	3.00	9.53	-48.19	-13.00	35.19	V

LTE FDD Band 71_Channel Bandwidth 15MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-37.6	2.86	3.00	7.25	-35.36	-13.00	22.36	H
2041.5	-44.03	2.94	3.00	9.53	-39.59	-13.00	26.59	H
1361	-50.19	2.86	3.00	7.25	-47.95	-13.00	34.95	V
2041.5	-53.22	2.94	3.00	9.53	-48.78	-13.00	35.78	V

LTE FDD Band 71_Channel Bandwidth 15MHz_16QAM_High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1381	-38.31	2.86	3.00	7.25	-36.07	-13.00	23.07	H
2071.5	-43.79	2.94	3.00	9.53	-39.35	-13.00	26.35	H
1381	-48.04	2.86	3.00	7.25	-45.8	-13.00	32.8	V
2071.5	-53.29	2.94	3.00	9.53	-48.85	-13.00	35.85	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM_Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1346	-38.35	2.86	3.00	7.25	-36.11	-13.00	23.11	H
2019	-43.93	2.94	3.00	9.53	-39.49	-13.00	26.49	H
1346	-48.86	2.86	3.00	7.25	-46.62	-13.00	33.62	V
2019	-52.64	2.94	3.00	9.53	-48.2	-13.00	35.2	V

LTE FDD Band 71_Channel Bandwidth 20MHz_16QAM_Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1361	-38.95	2.86	3.00	7.25	-36.71	-13.00	23.71	H
2041.5	-45.32	2.94	3.00	9.53	-40.88	-13.00	27.88	H
1361	-48.33	2.86	3.00	7.25	-46.09	-13.00	33.09	V
2041.5	-52.83	2.94	3.00	9.53	-48.39	-13.00	35.39	V

*LTE FDD Band 71 Channel Bandwidth 20MHz 16QAM High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1376	-38.62	2.86	3.00	7.25	-36.38	-13.00	23.38	H
2064	-44.76	2.94	3.00	9.53	-40.32	-13.00	27.32	H
1376	-48.7	2.86	3.00	7.25	-46.46	-13.00	33.46	V
2064	-52.54	2.94	3.00	9.53	-48.1	-13.00	35.1	V

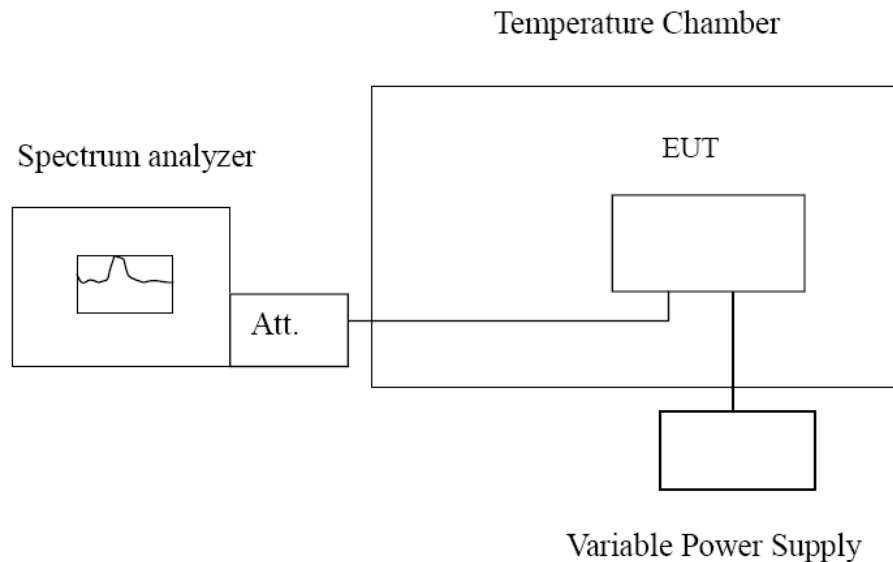


3.6 Frequency Stability Under Temperature & Voltage Variations

LIMIT

the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 12, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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.

**TEST RESULTS**

Remark:

1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 71; recorded worst case.

LTE Band 71, 5MHz bandwidth (worst case of all bandwidths).

Frequency Error vs Voltage

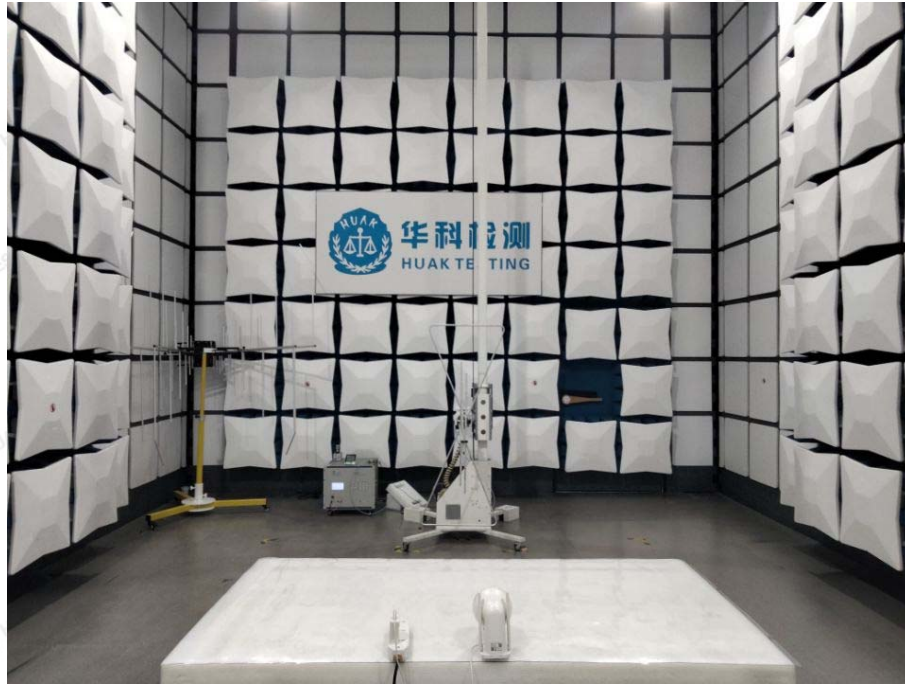
Voltage (V)	Frequency error (Hz)		Frequency error (ppm)	
	QPSK	16QAM	QPSK	16QAM
4.25	1.80	2.70	0.002705	0.004057
5.0	-2.12	-1.90	-0.003186	-0.002855
5.75	3.65	-2.36	0.005485	-0.003546

Frequency Error vs Temperature

Temperature (°C)	Frequency error (Hz)		Frequency error (ppm)	
	QPSK	16QAM	QPSK	16QAM
-30°	2.12	-0.87	0.003186	-0.001307
-20°	-2.76	3.08	-0.004147	0.004628
-10°	1.17	-2.15	0.001758	-0.003231
0°	1.42	2.52	0.002134	0.003787
10°	1.85	-1.50	0.002780	-0.002254
20°	-3.13	-3.43	-0.004703	-0.005154
30°	-4.06	-3.89	-0.005966	-0.005716
40°	1.47	-4.11	0.002160	-0.006040
50°	-2.13	-4.69	-0.003130	-0.006892



4 TEST SETUP PHOTOS OF THE EUT





5 PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

***** End of Report *****