

8 Conducted Spurious Emission Test

8.1. Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

§27.53(a)(4)

70 + 10 log (P) dB above 2365 MHz. The limit of emission equal to -40dBm

70 + 10 log (P) dB below 2288 MHz. The limit of emission equal to -40dBm

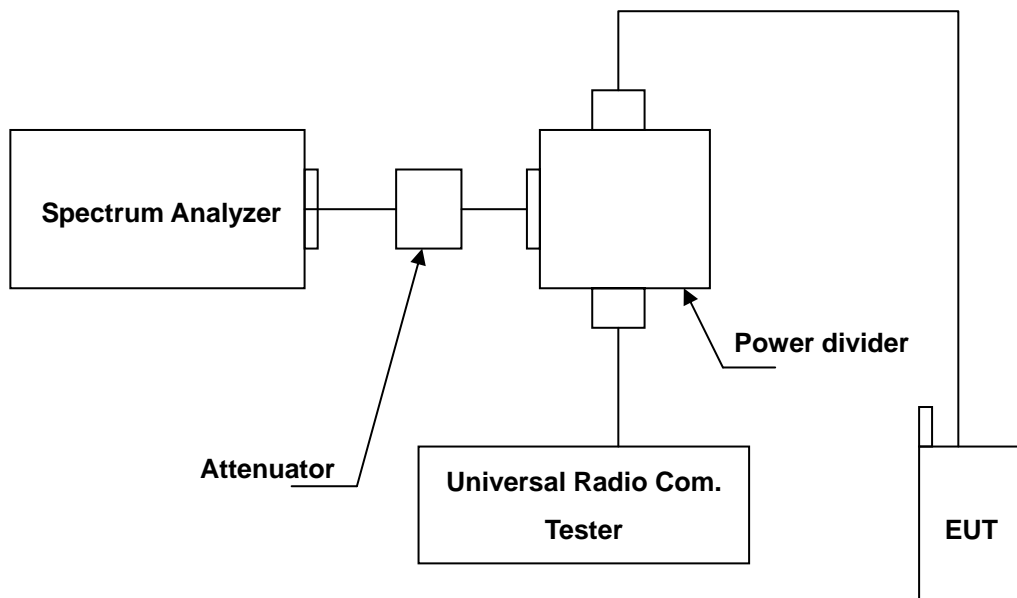
8.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/14/2015	1 year
Wideband Radio Communication Test	R & S	CMW500	103168	10/30/2015	1 year
Attenuator	RADIALL	R41572000	0603033073	N.C.R.	-----
Power divider	Agilent	87302C	3239A00760	N.C.R.	-----
Test Site	ATL	TE02	TE02	N.C.R.	-----

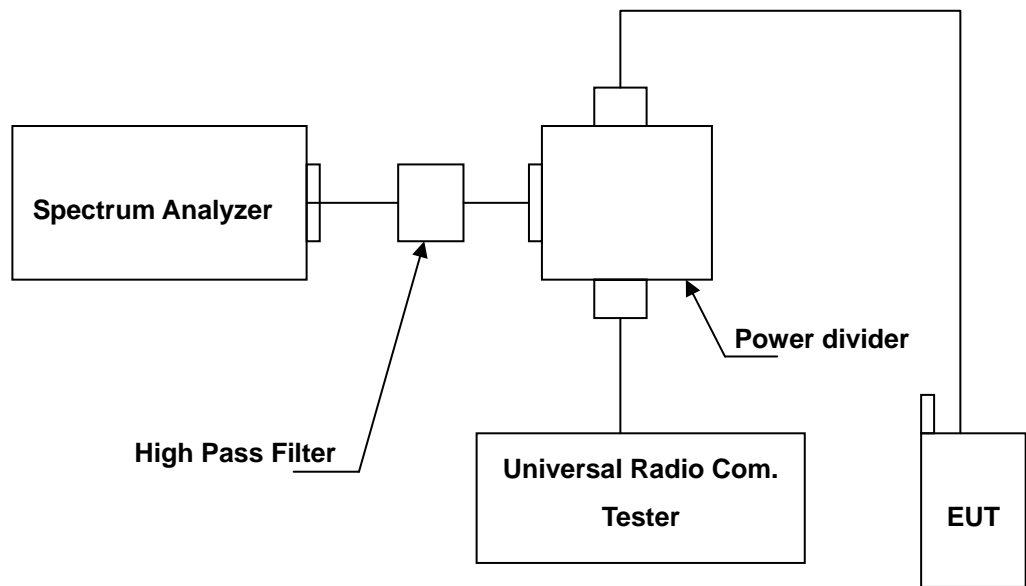
Note: N.C.R. = No Calibration Request.

8.3. Setup

Below 2.8GHz



Above 2.8GHz



8.4. Test Procedure

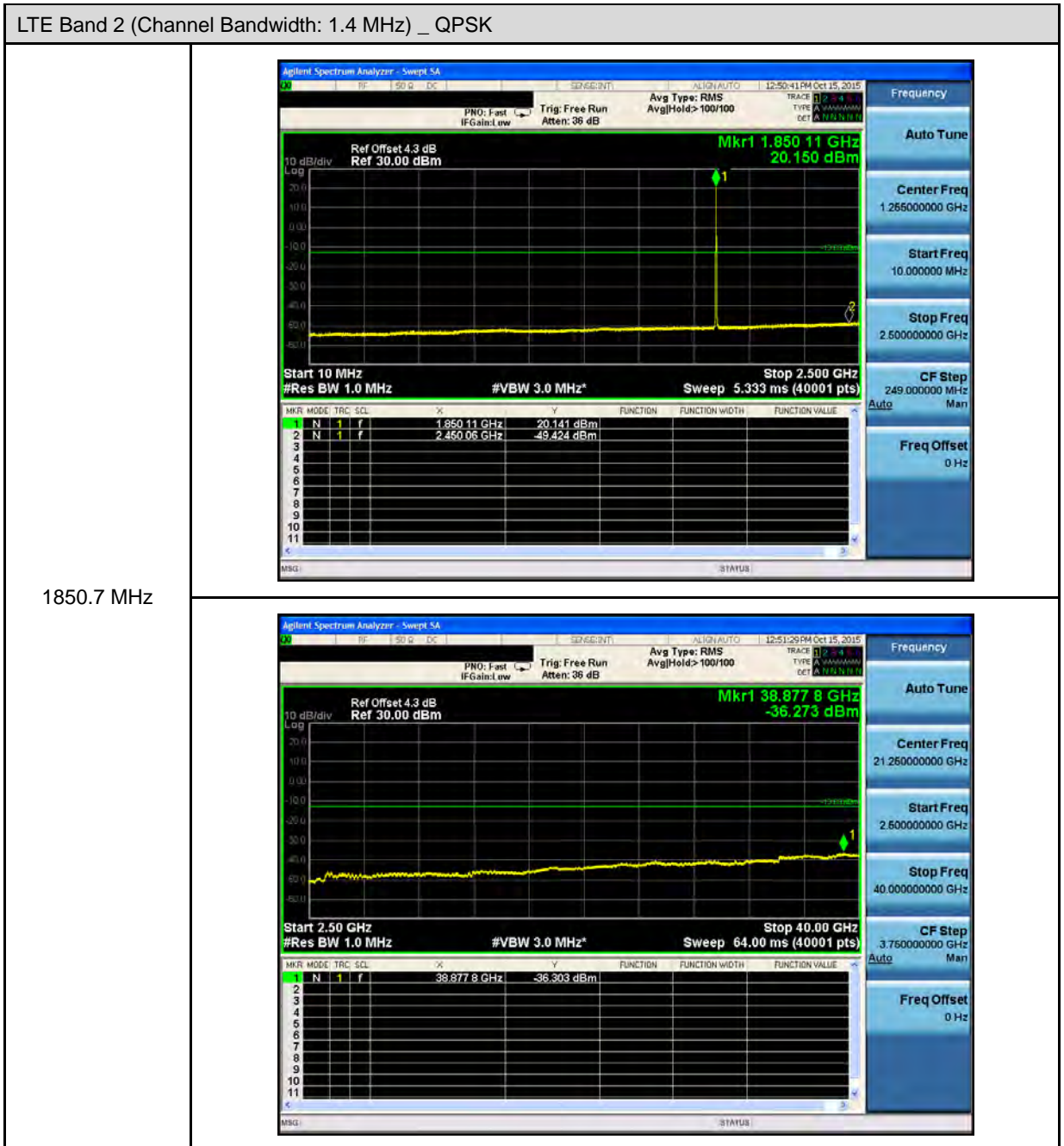
- The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
- The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- When the spectrum scanned from 10MHz to 2.5GHz (Band 7, Band 30 and Band 41: scanned from 10MHz to 4GHz) , it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=3MHz.
- When the spectrum scanned from 2.5GHz to 10th harmonic (Band 7, Band 30 and Band 41: scanned from 4GHz to 10th harmonic), it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=3MHz.

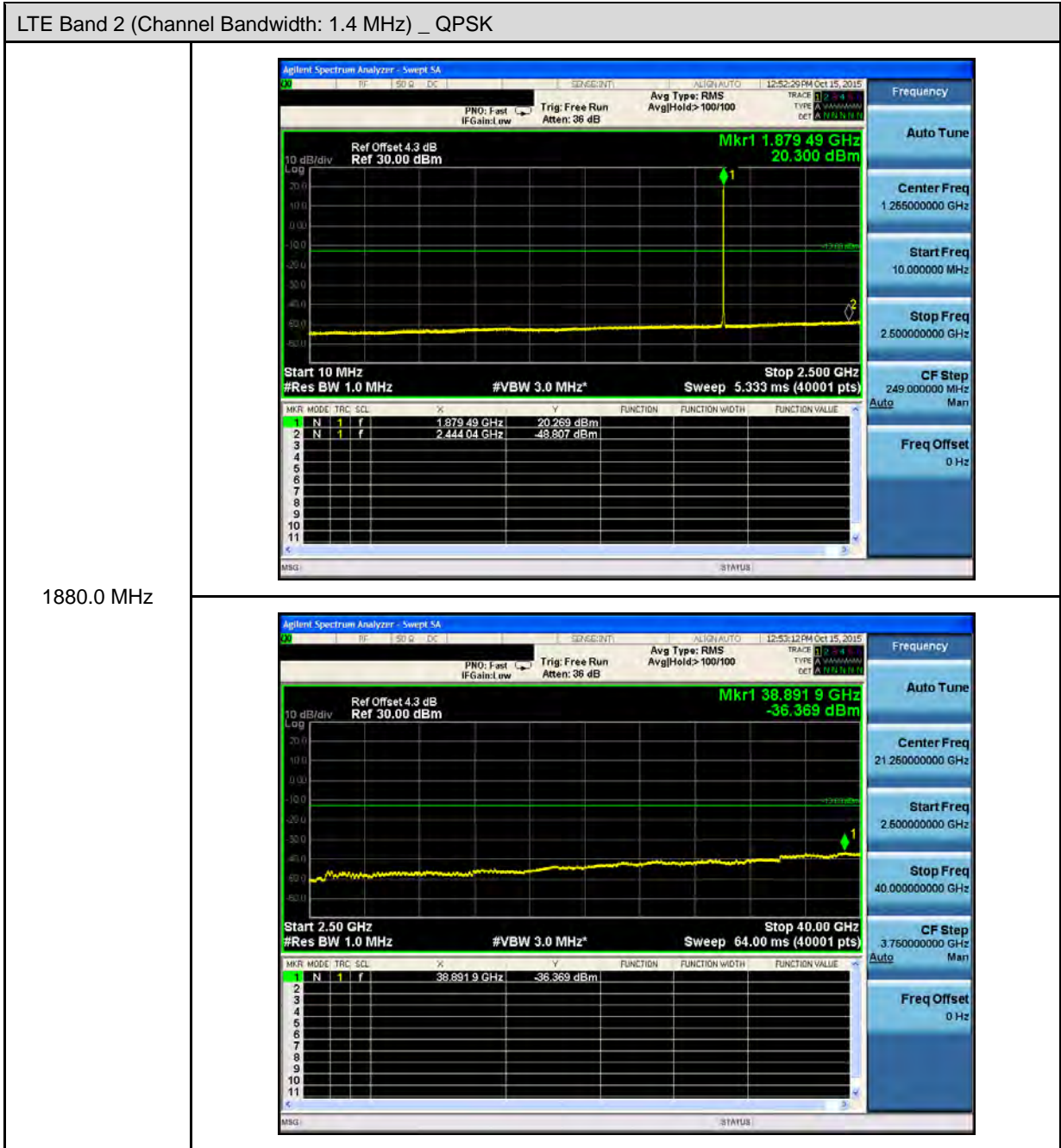
8.5. Uncertainty

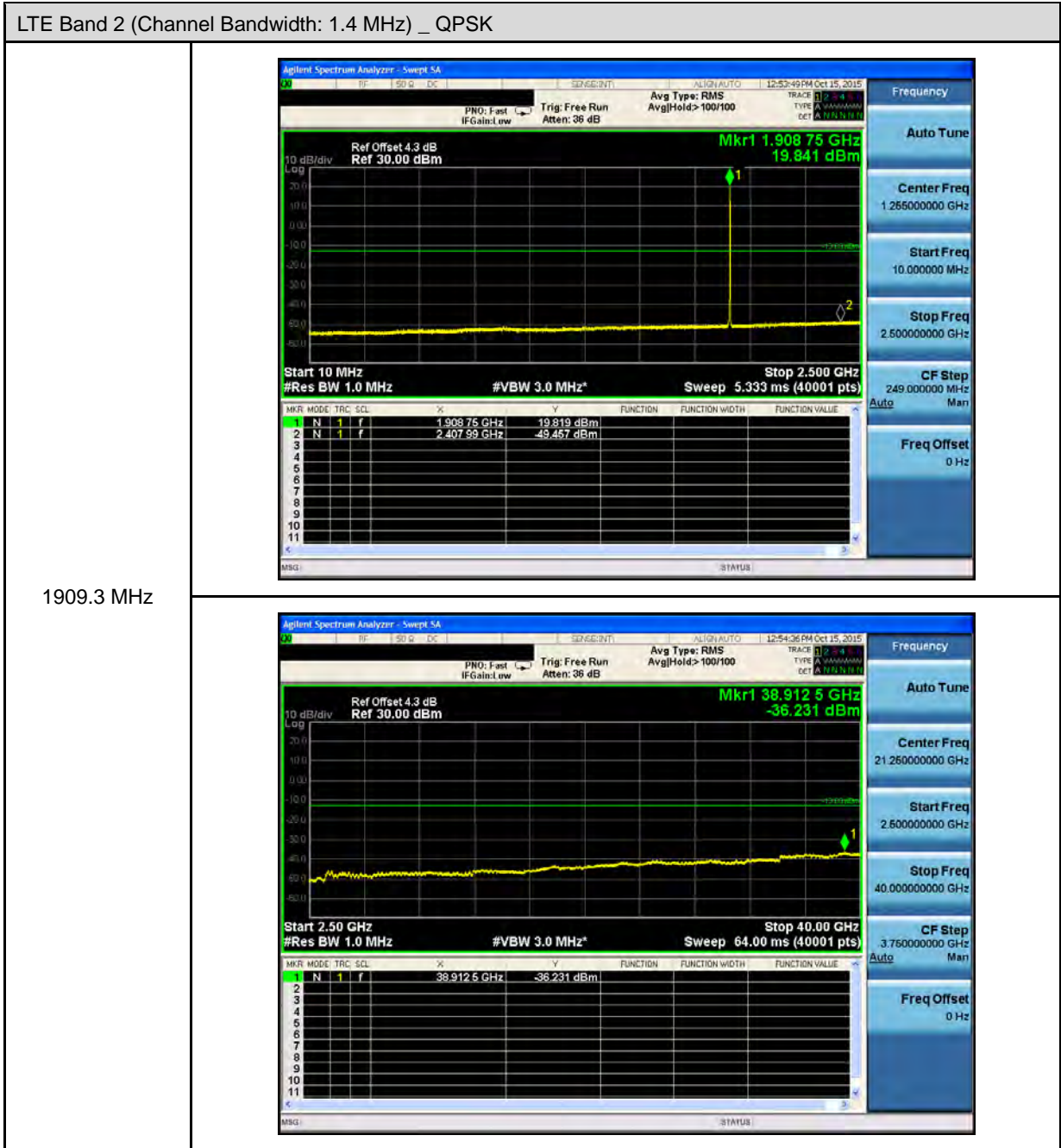
The measurement uncertainty is evaluated as ± 2.24 dB.

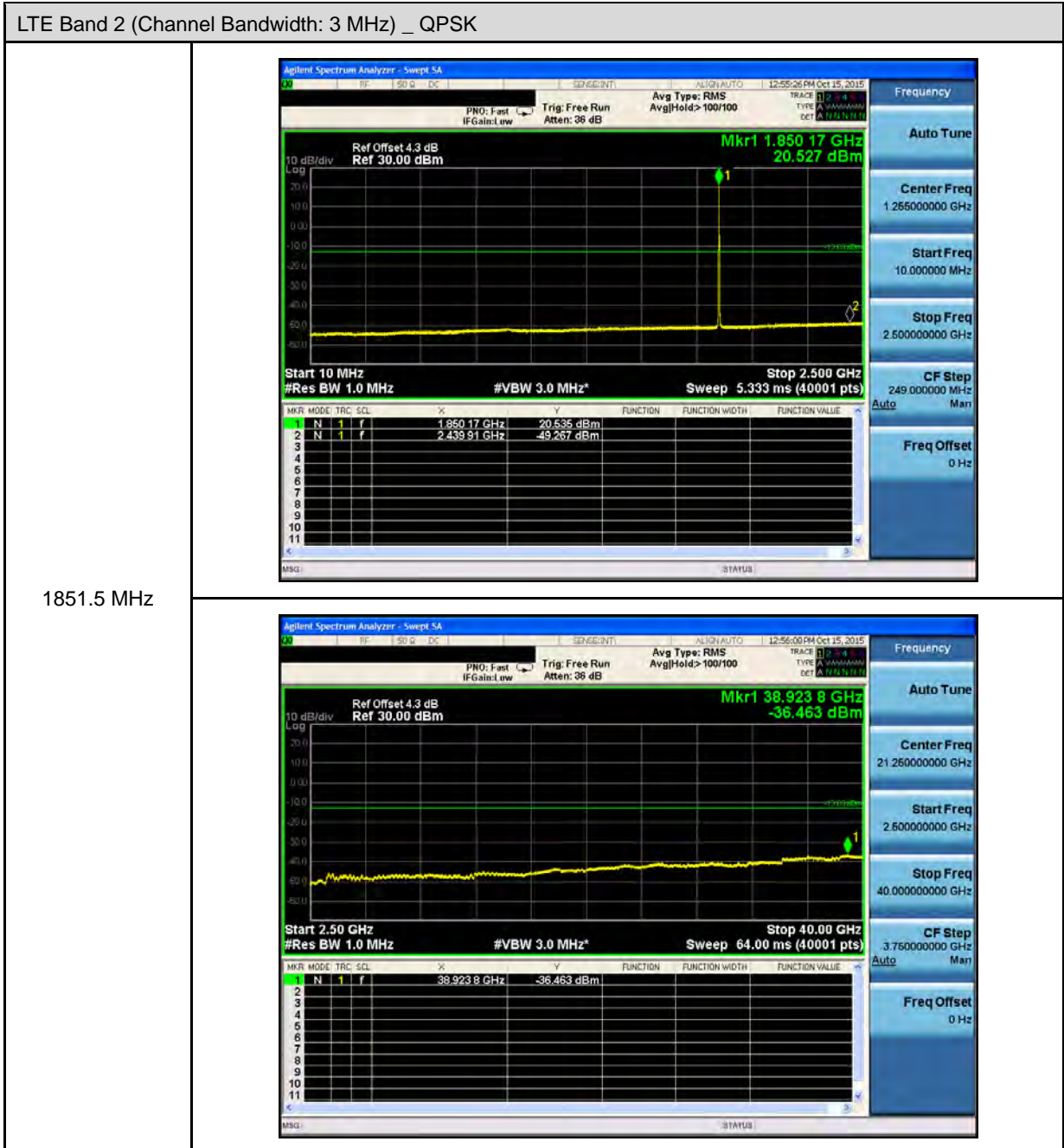
8.6. Test Results

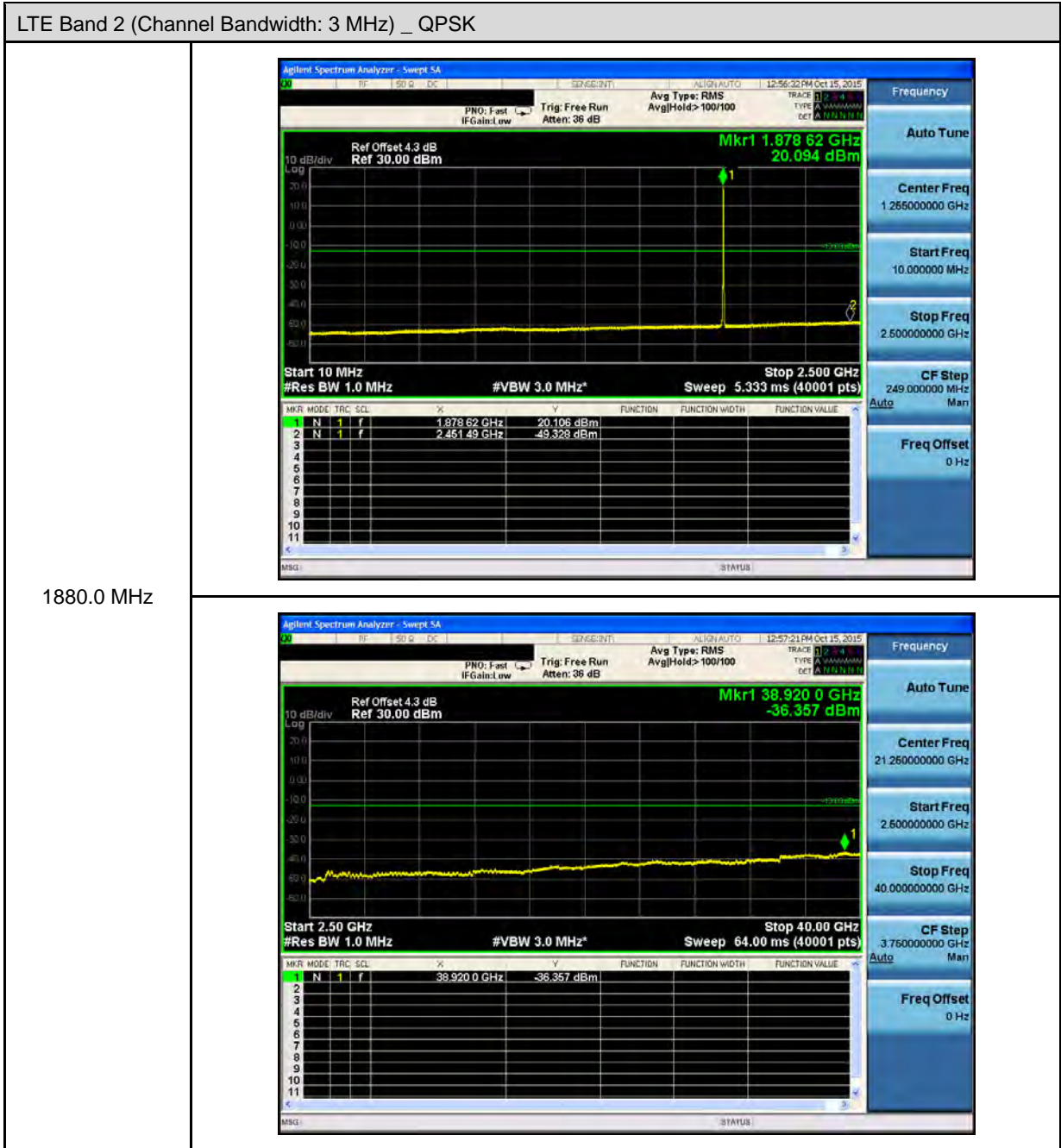
Model Number	AC815S
Test Item	Conducted Spurious Emission
Date of Test	10/15/2015, 12/03/2015

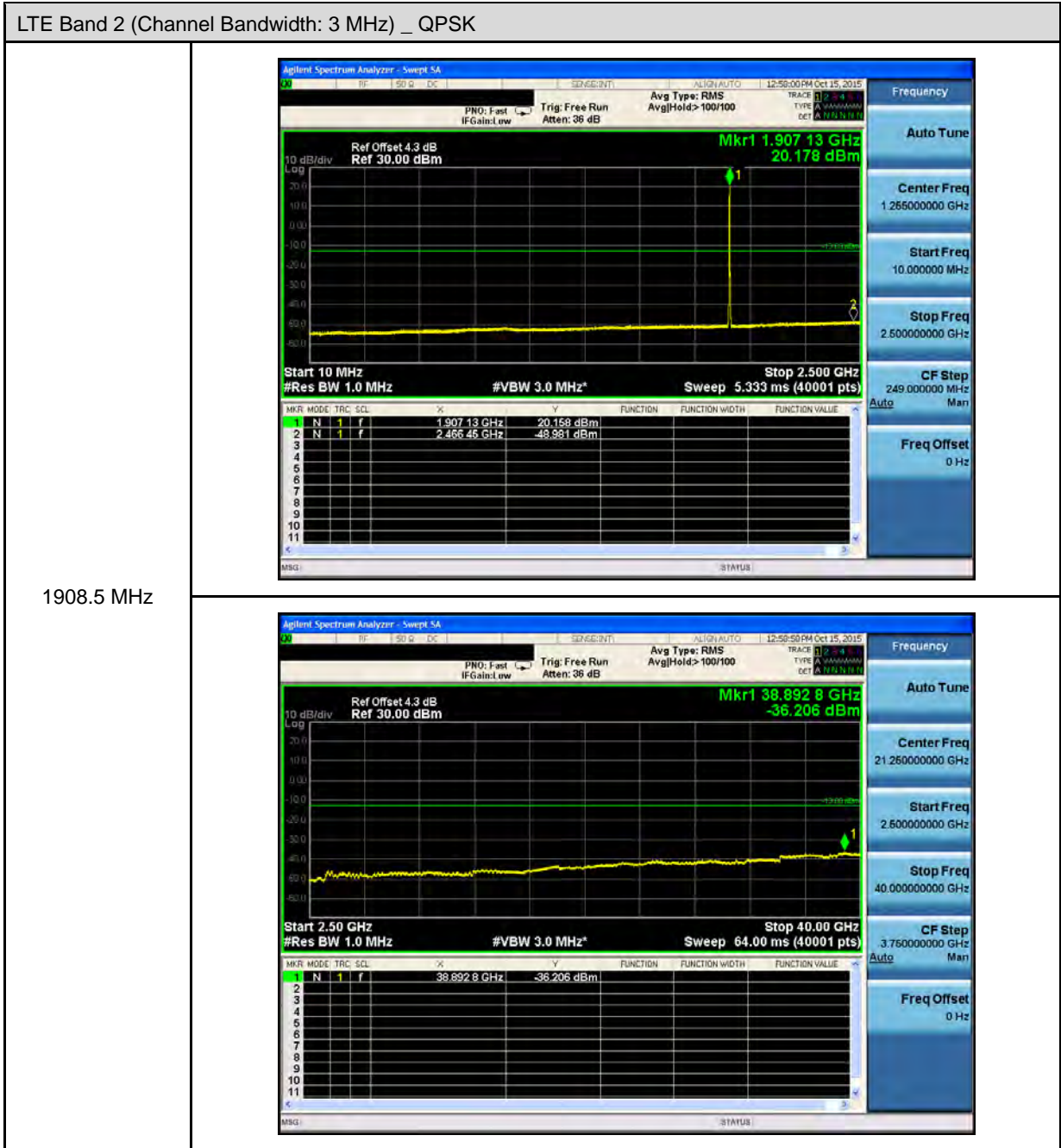


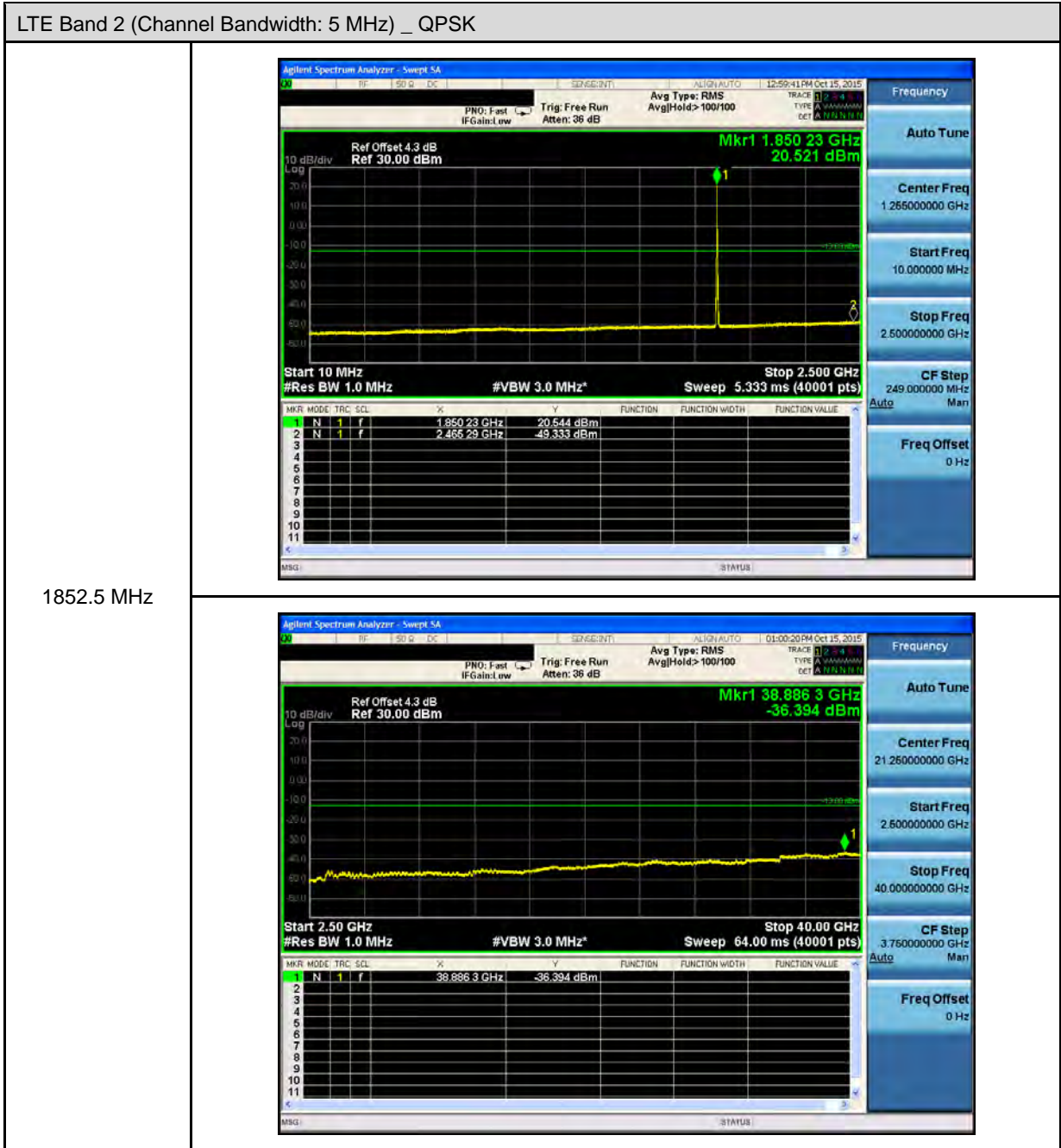


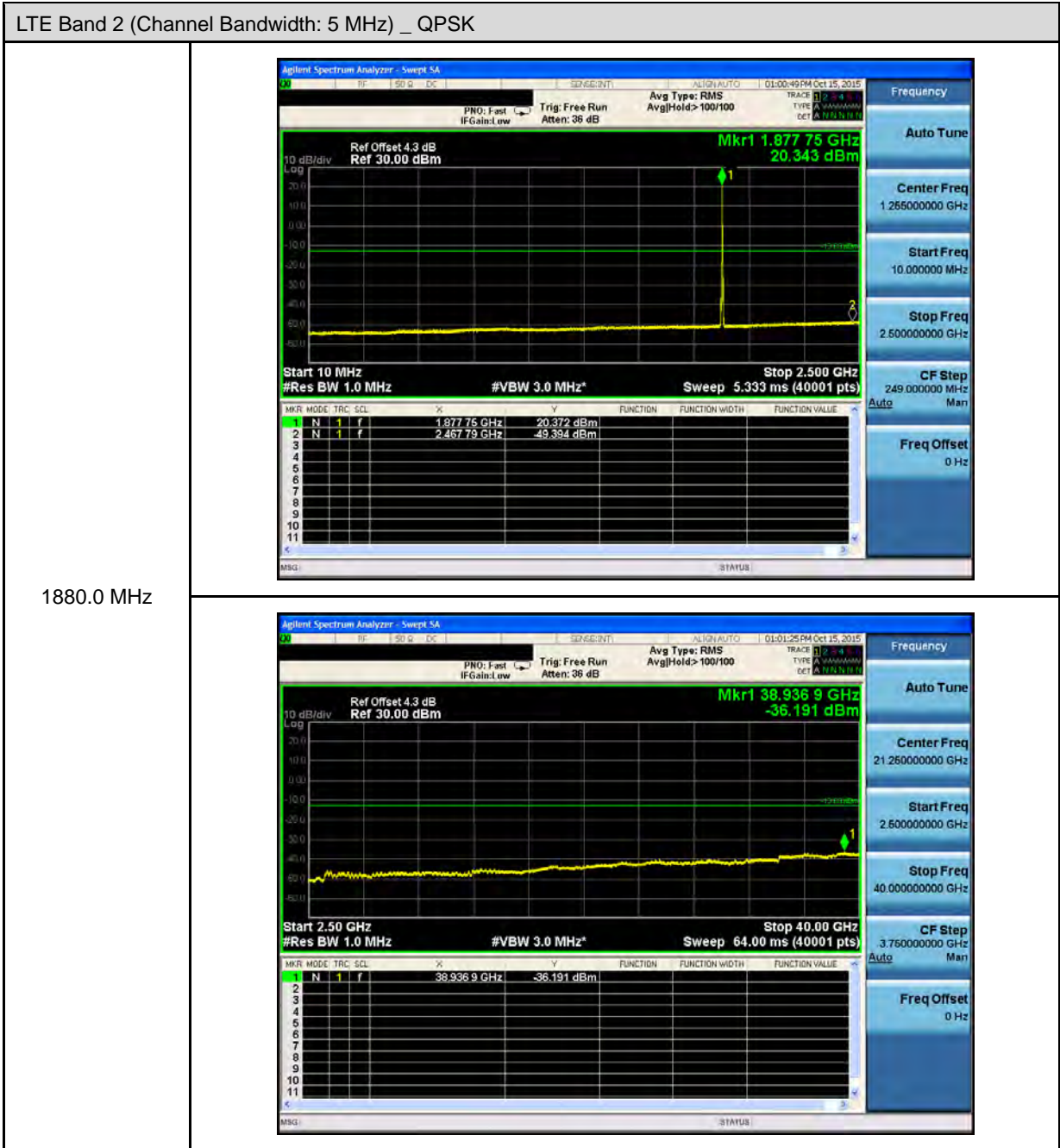


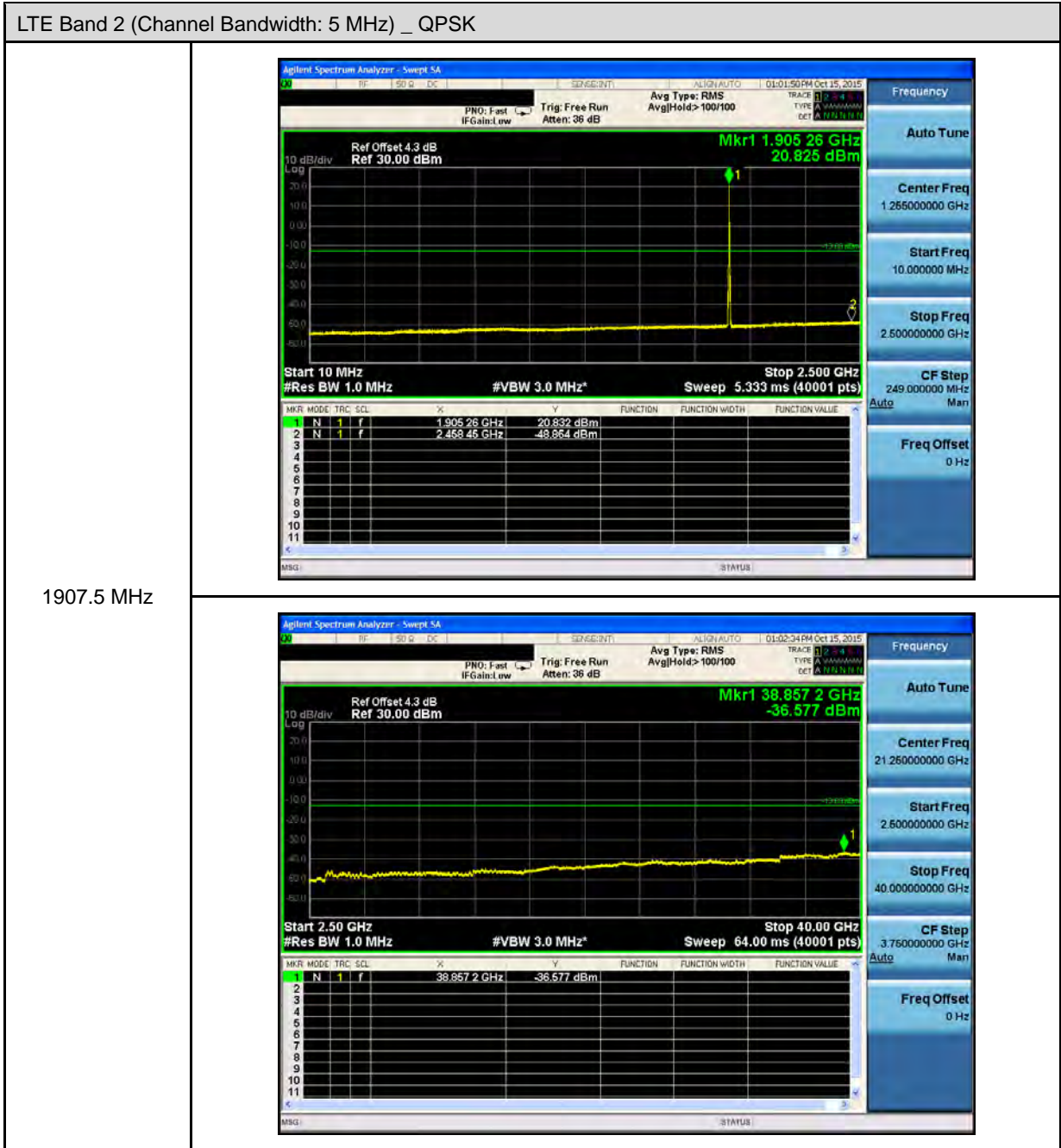


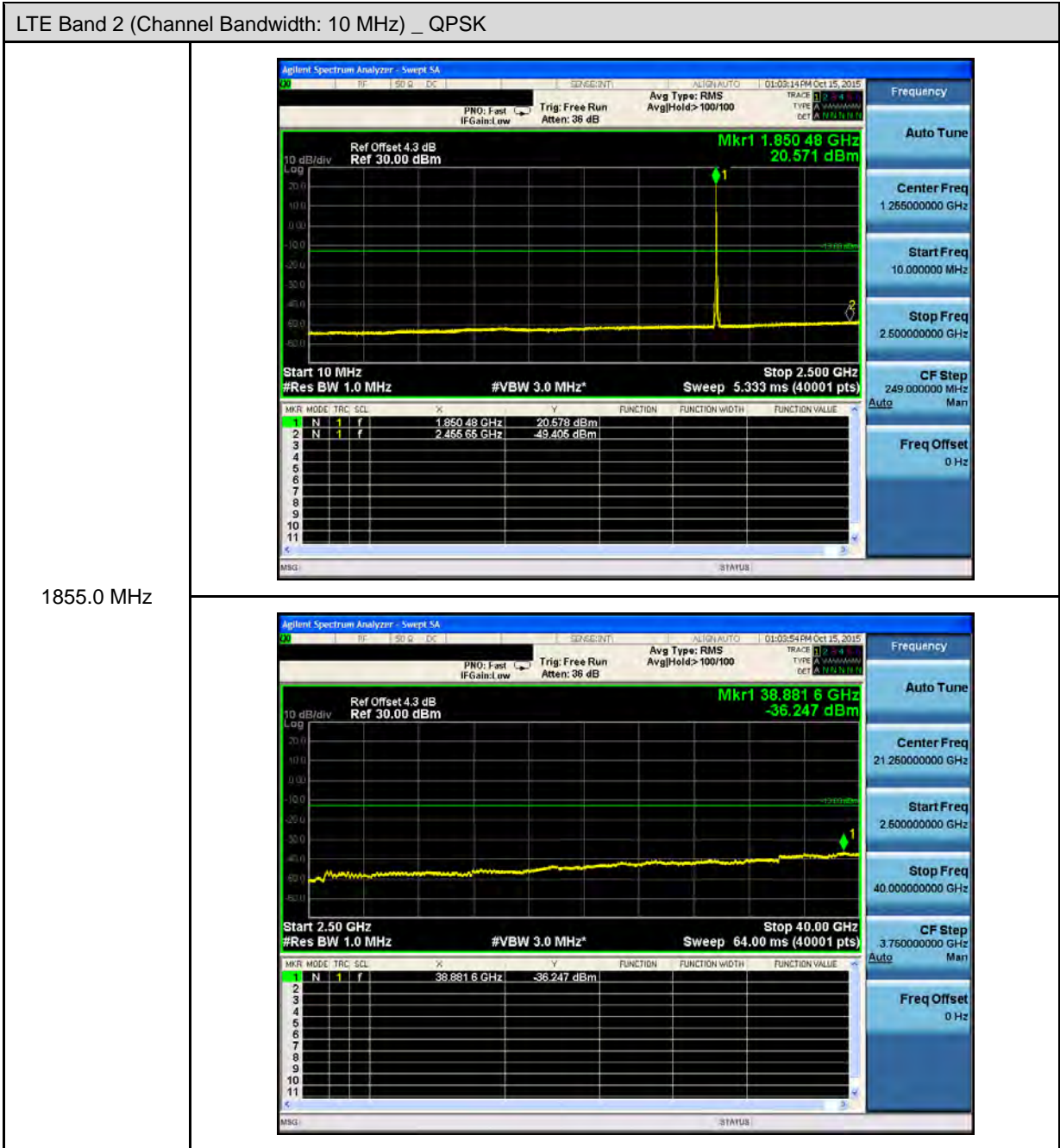


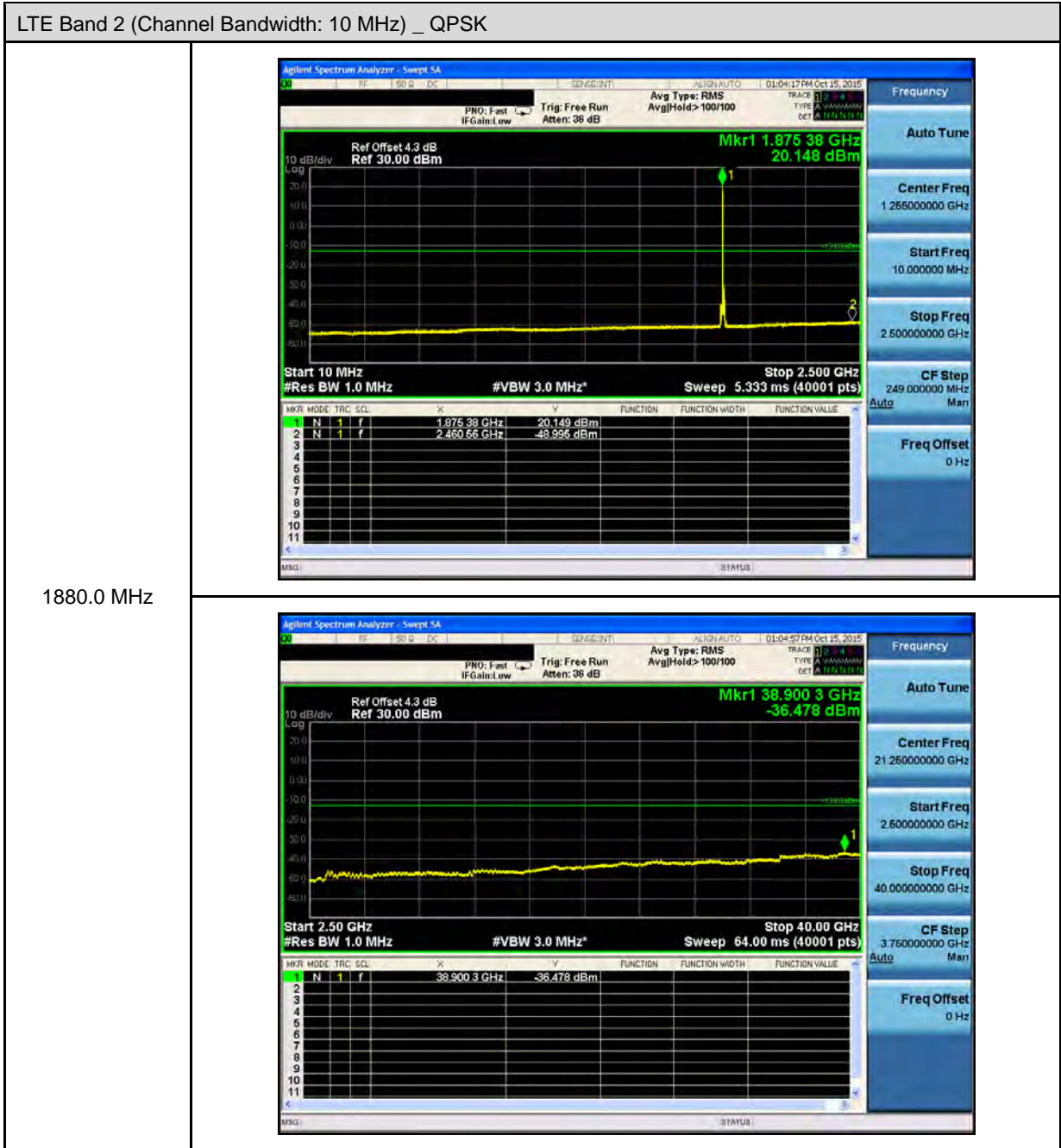


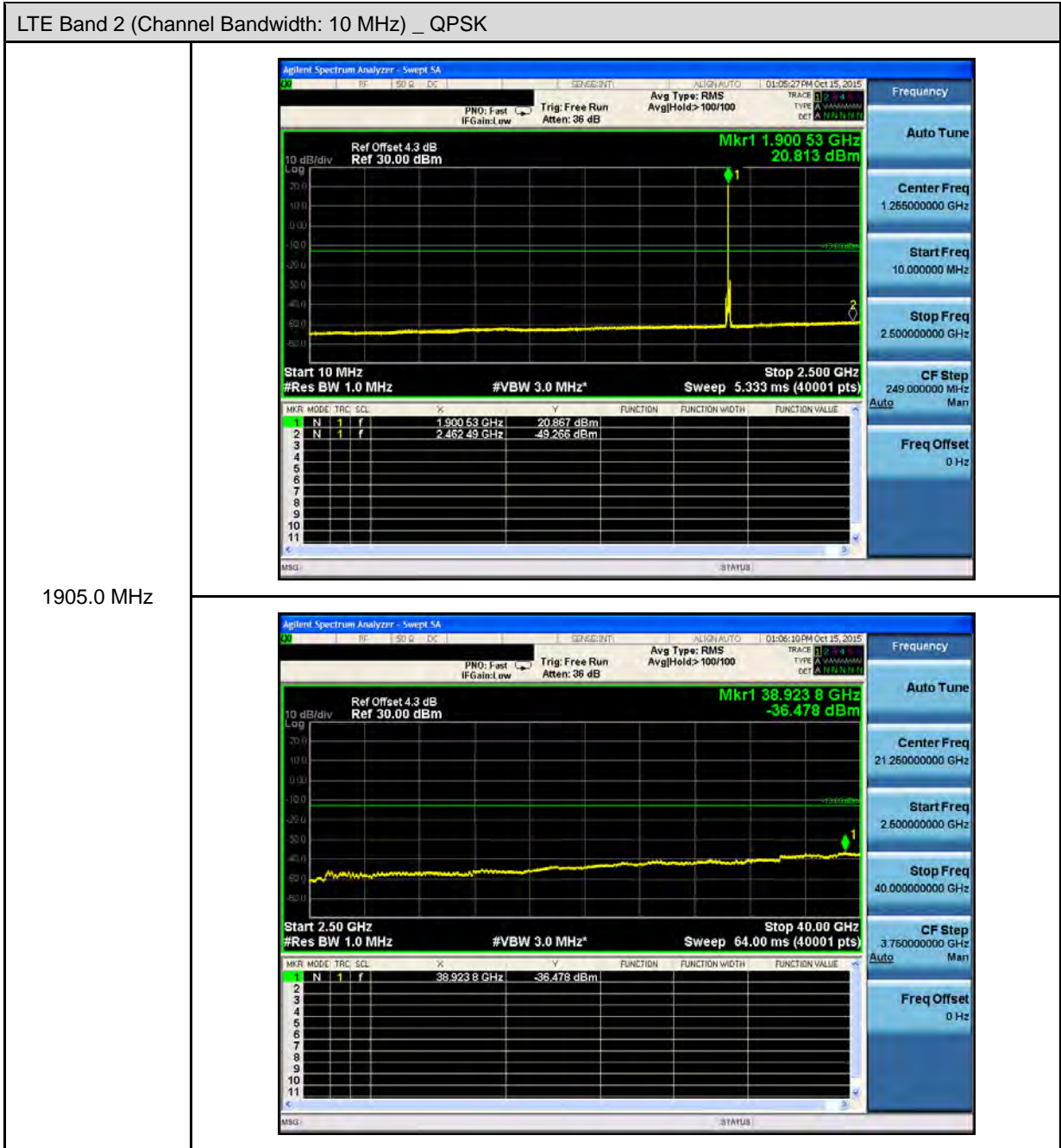


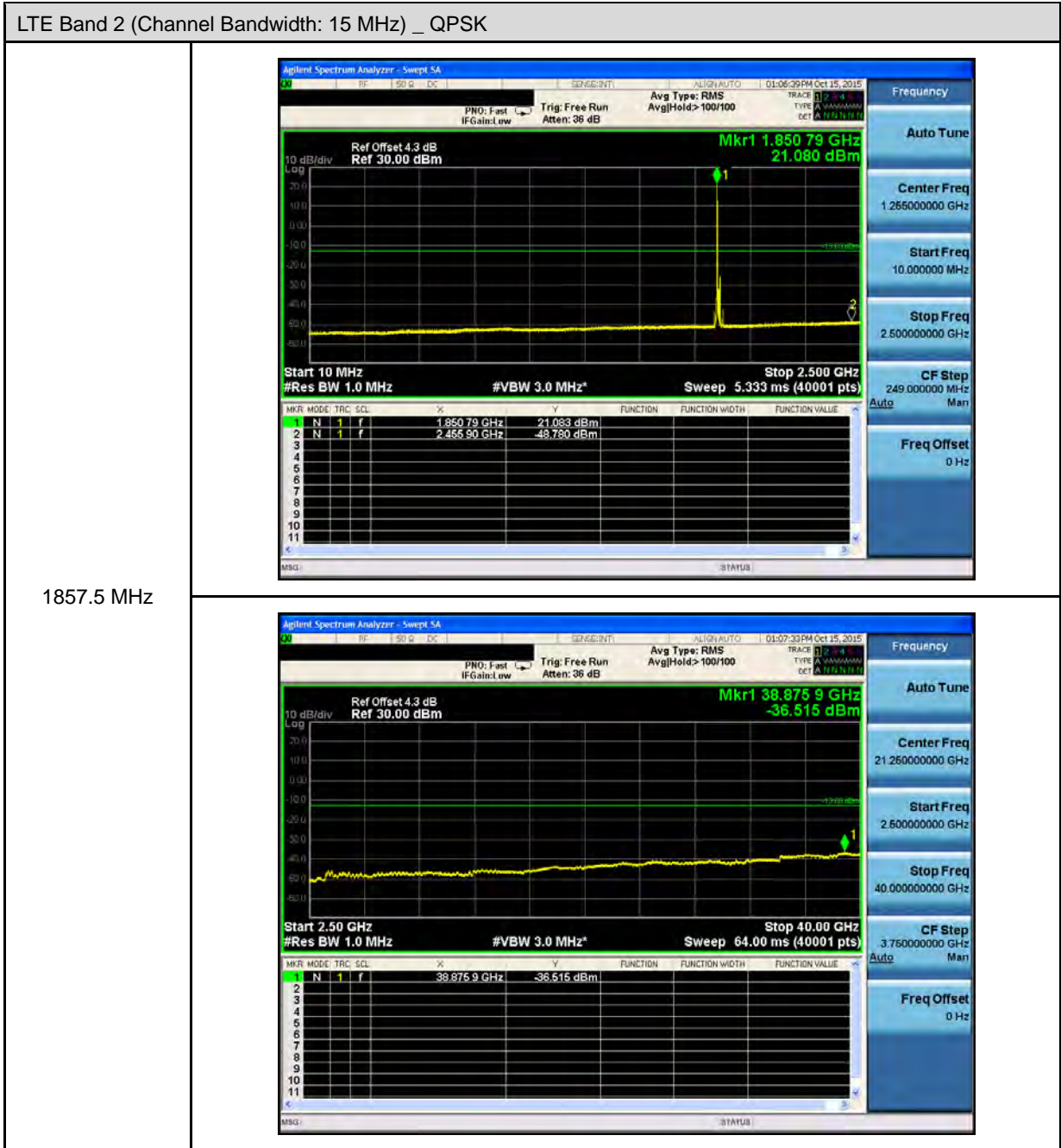


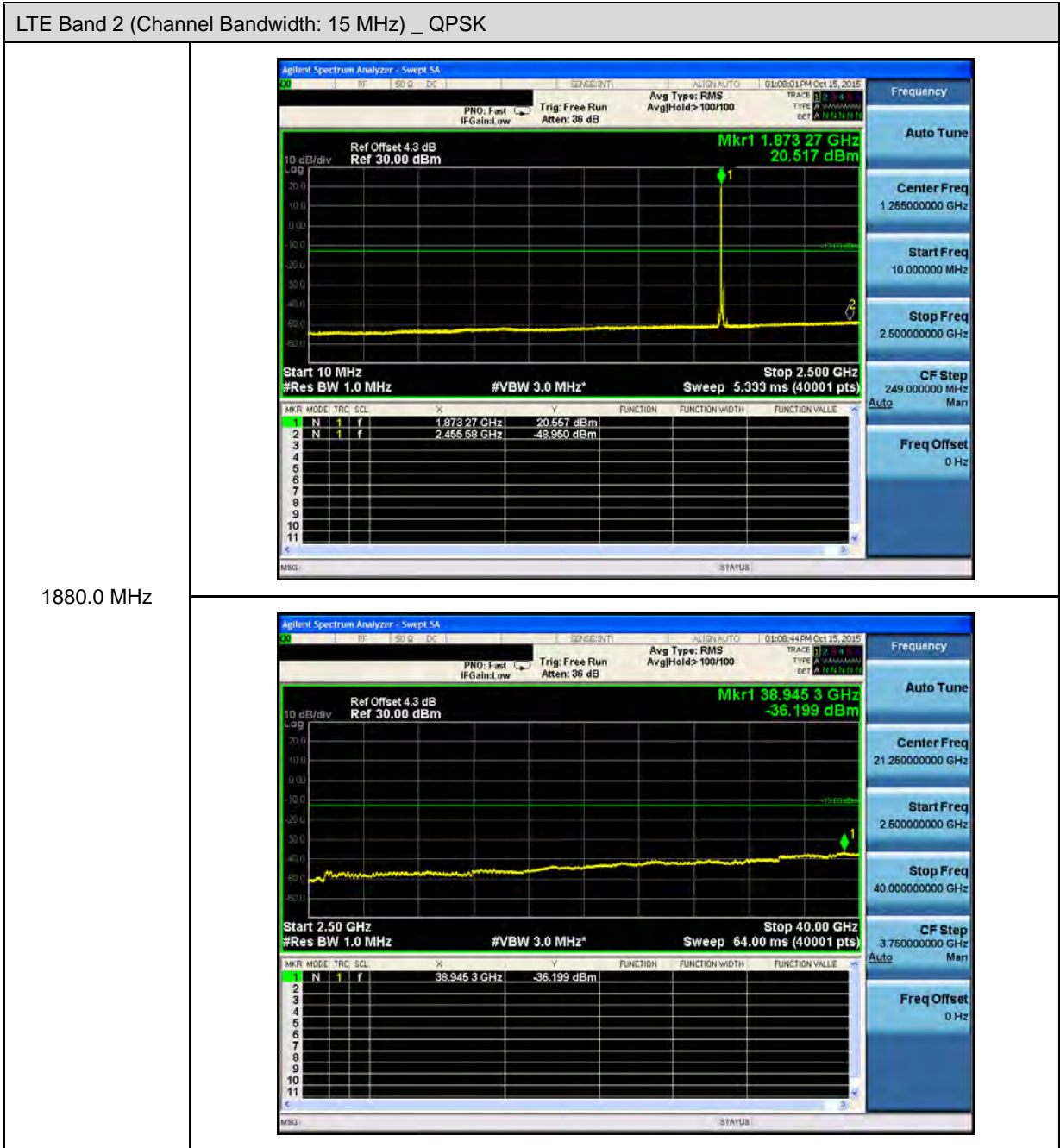


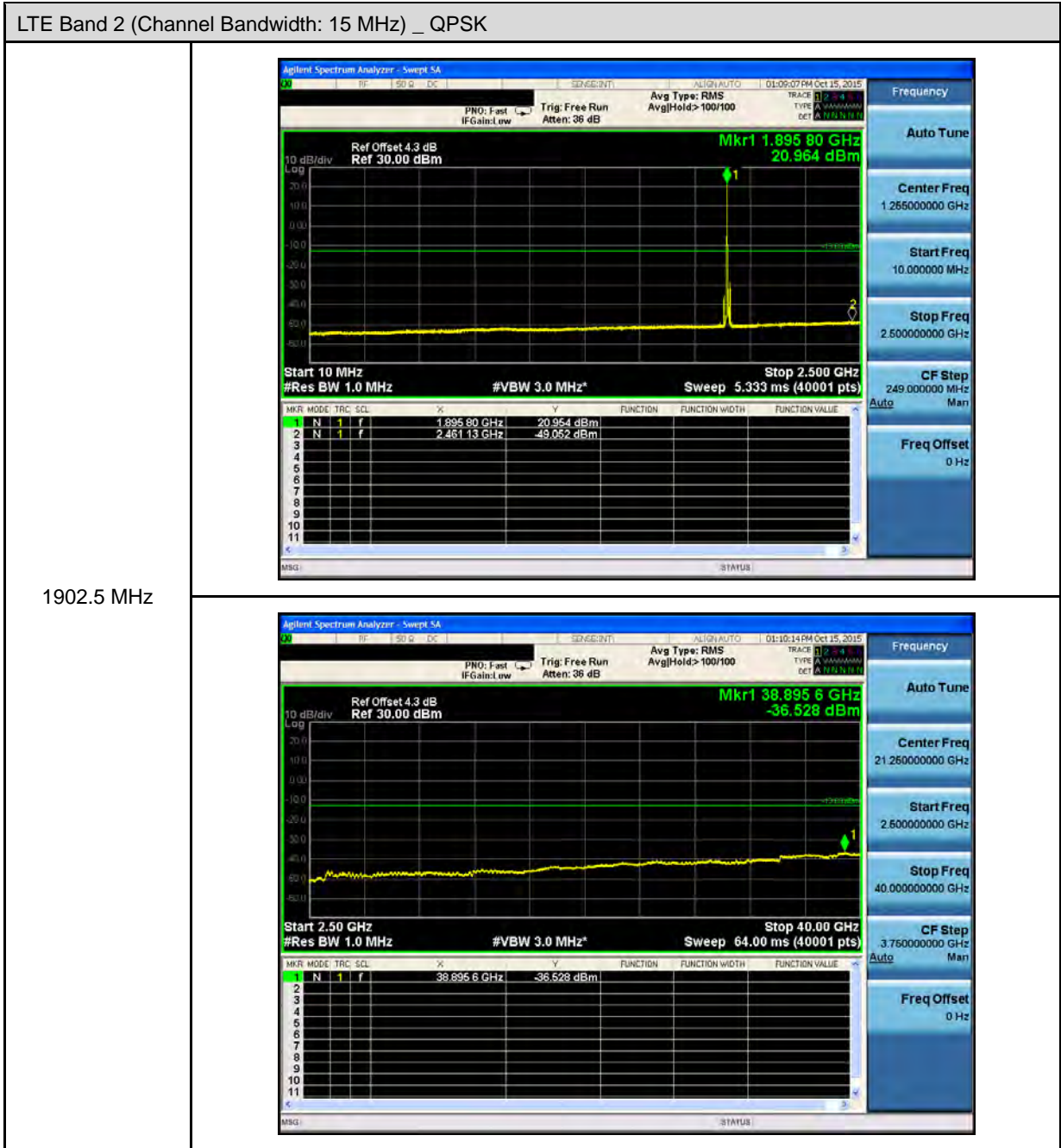


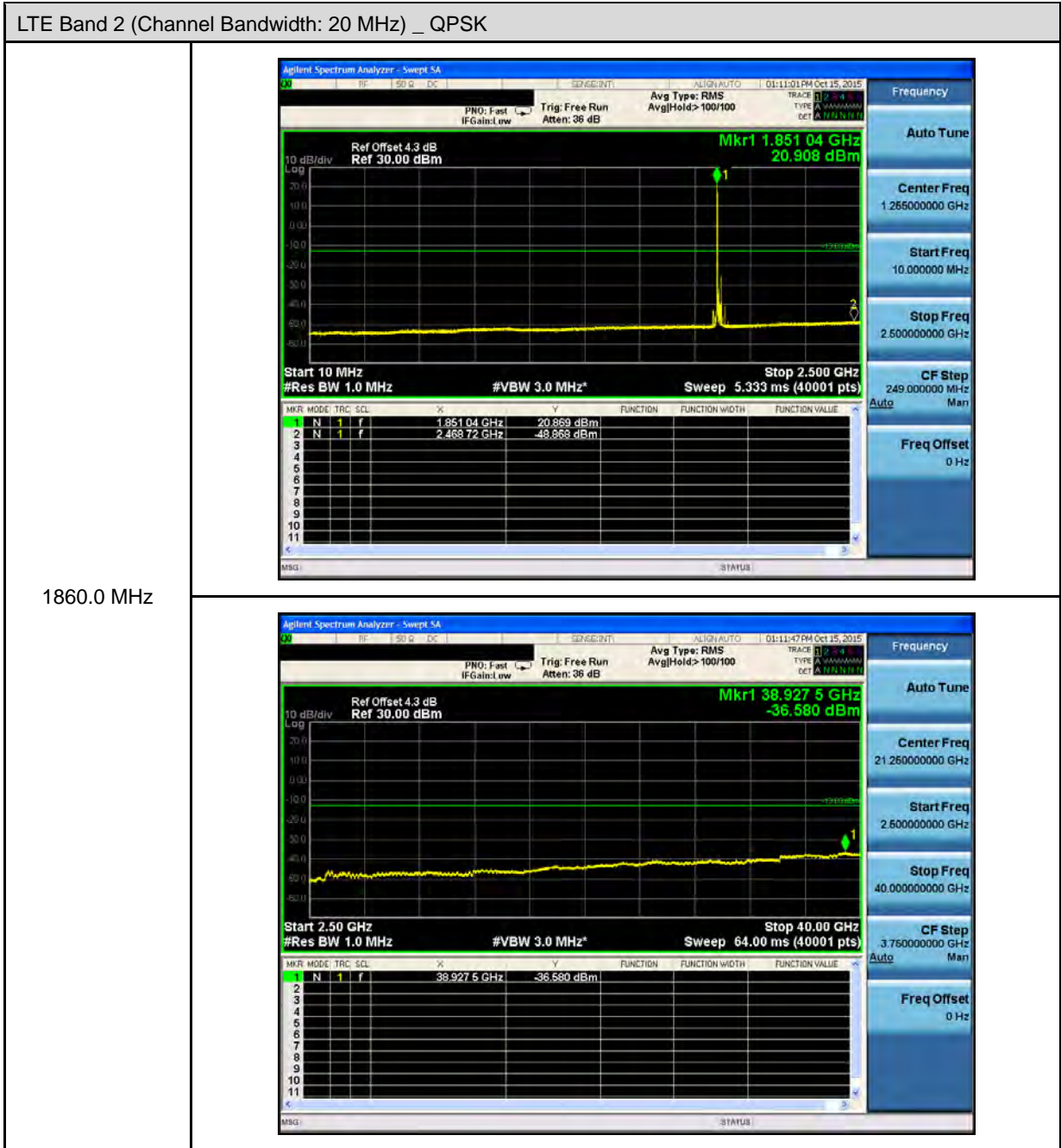


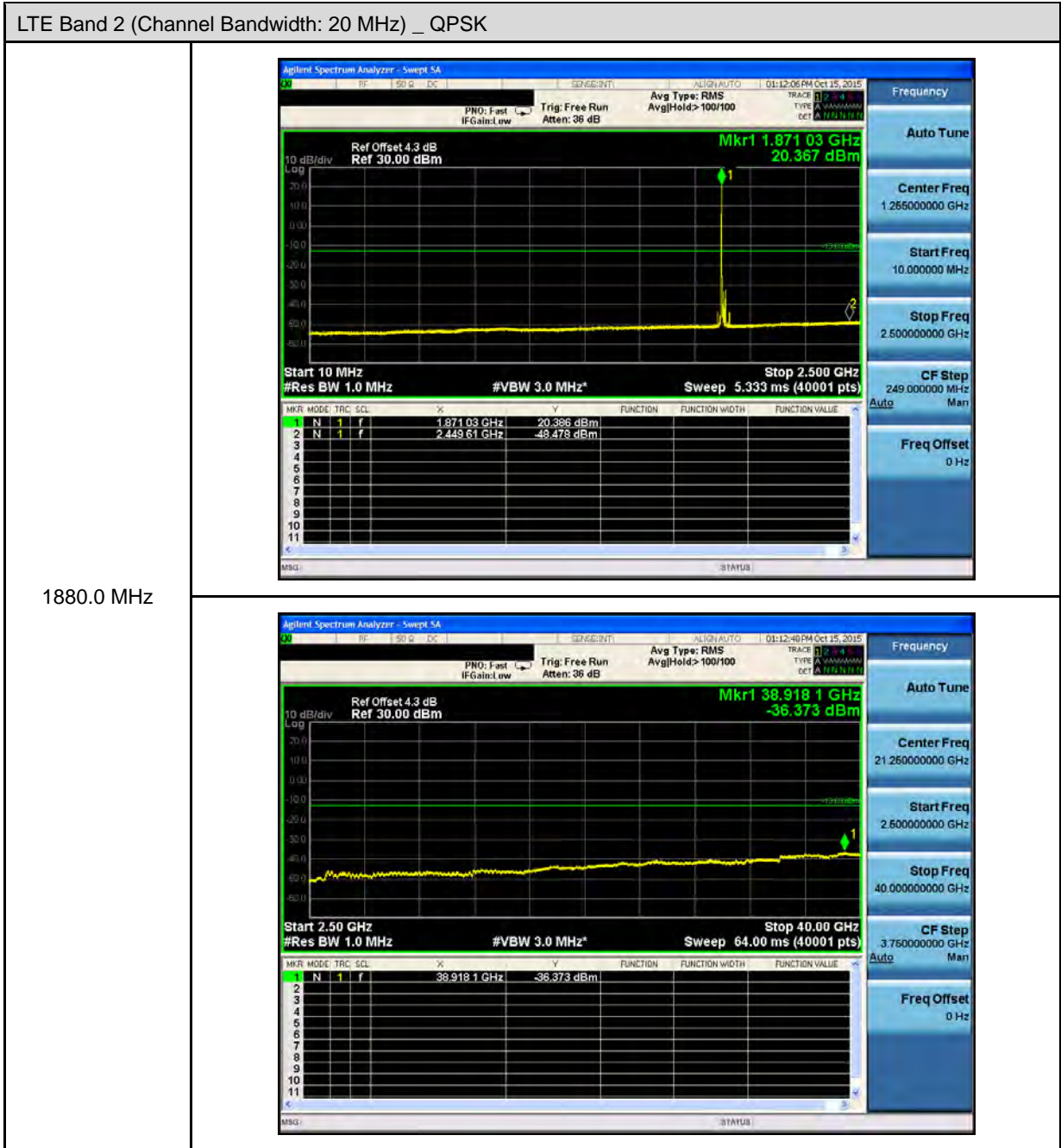


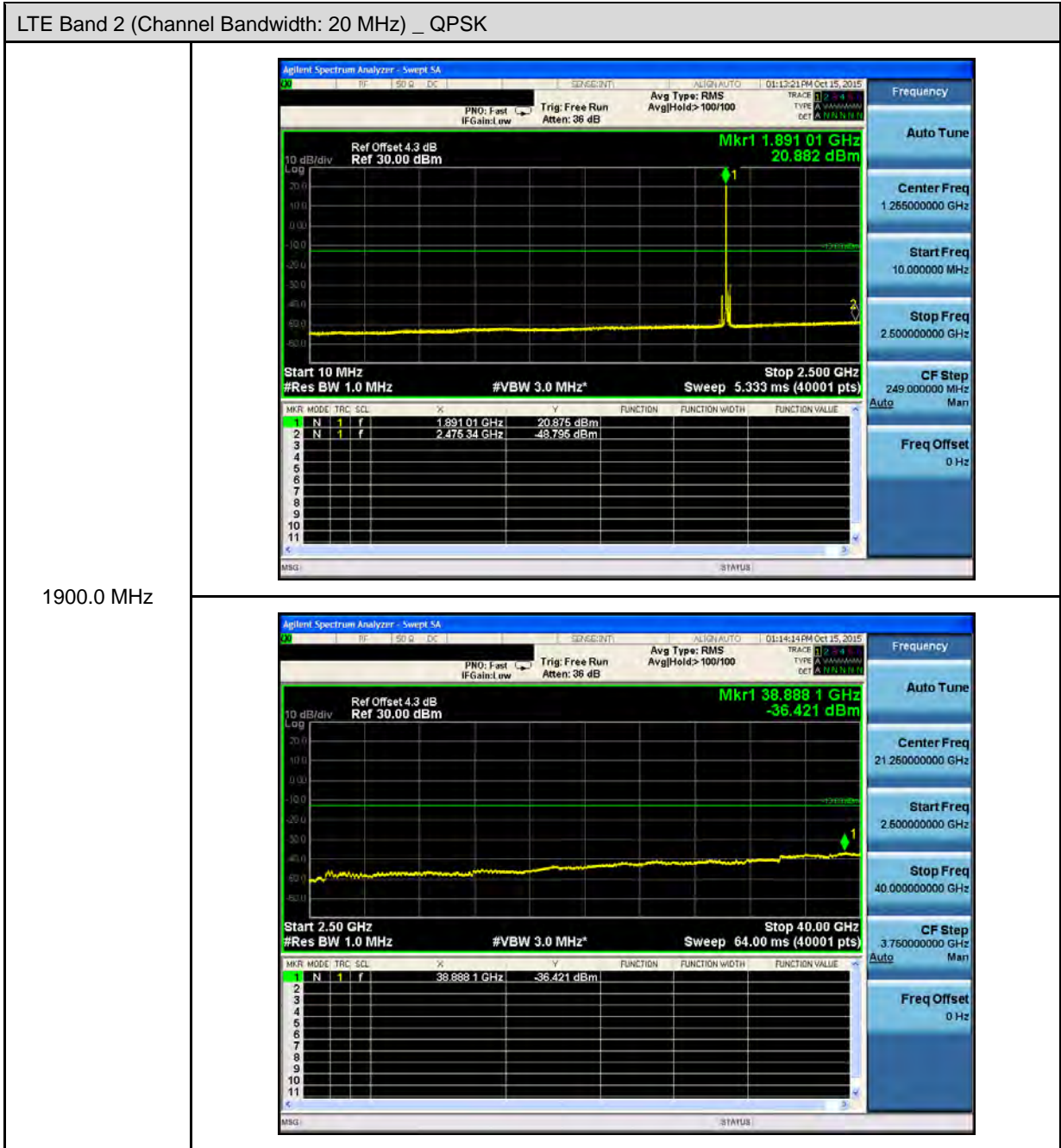


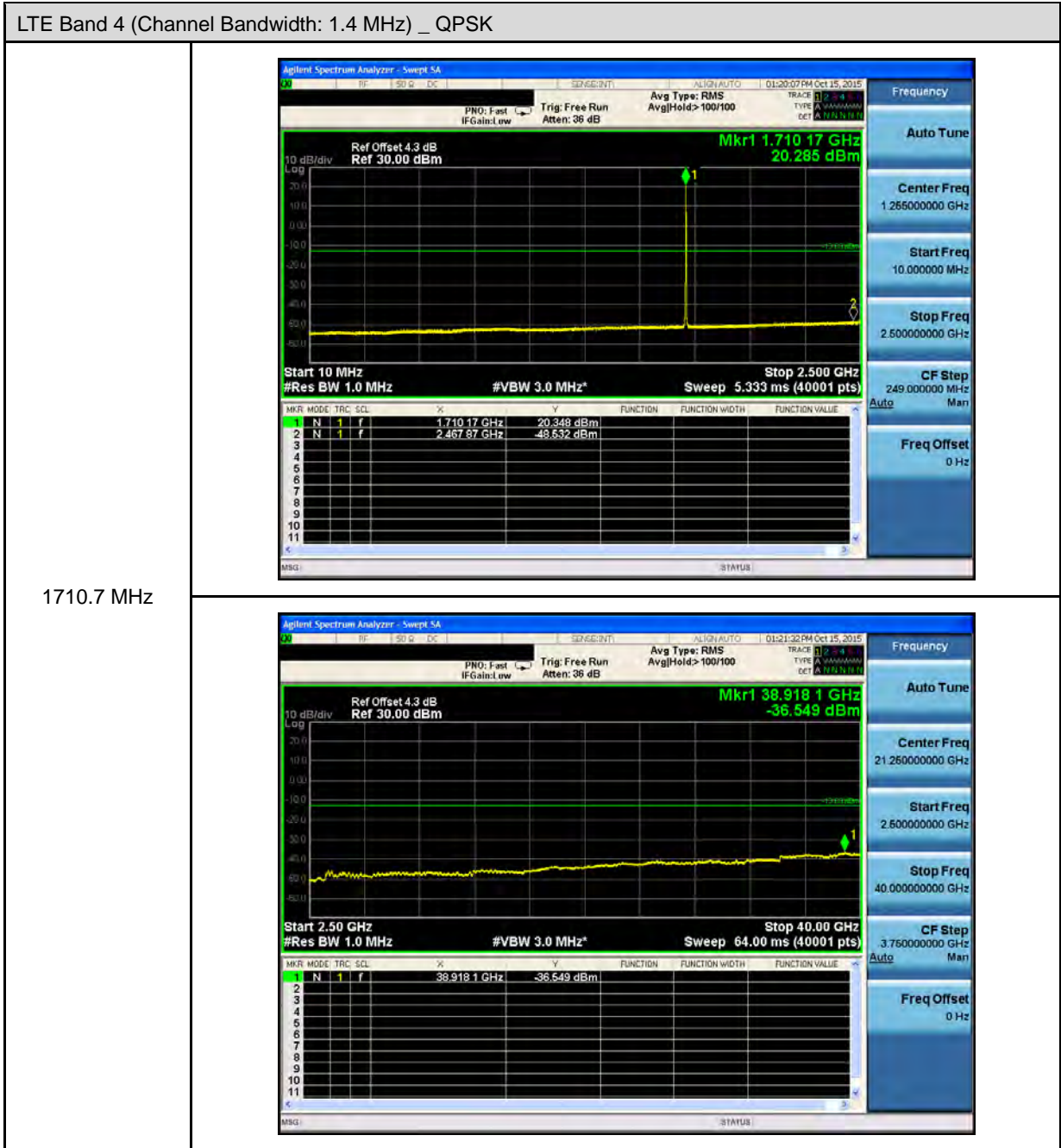


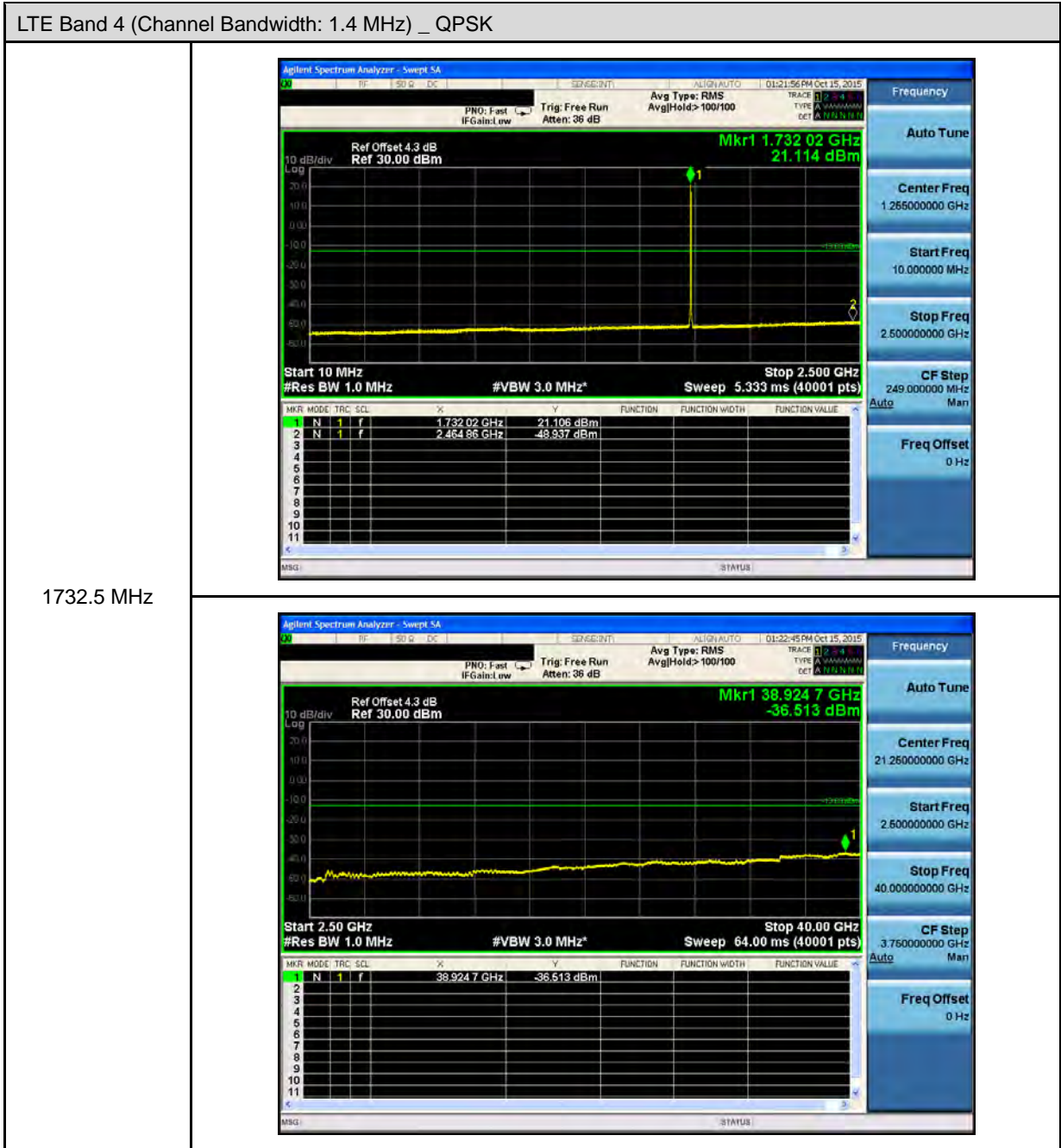


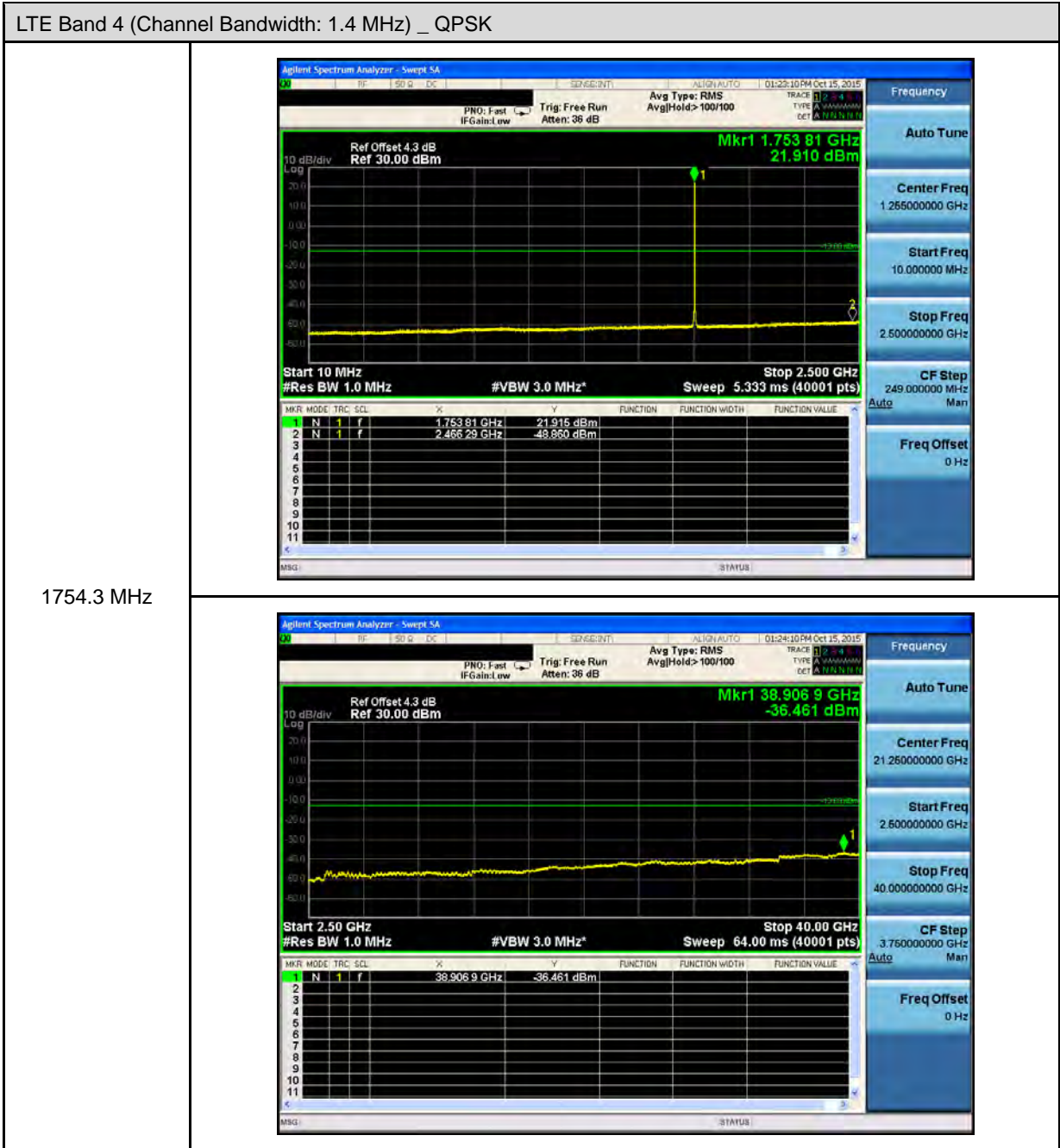


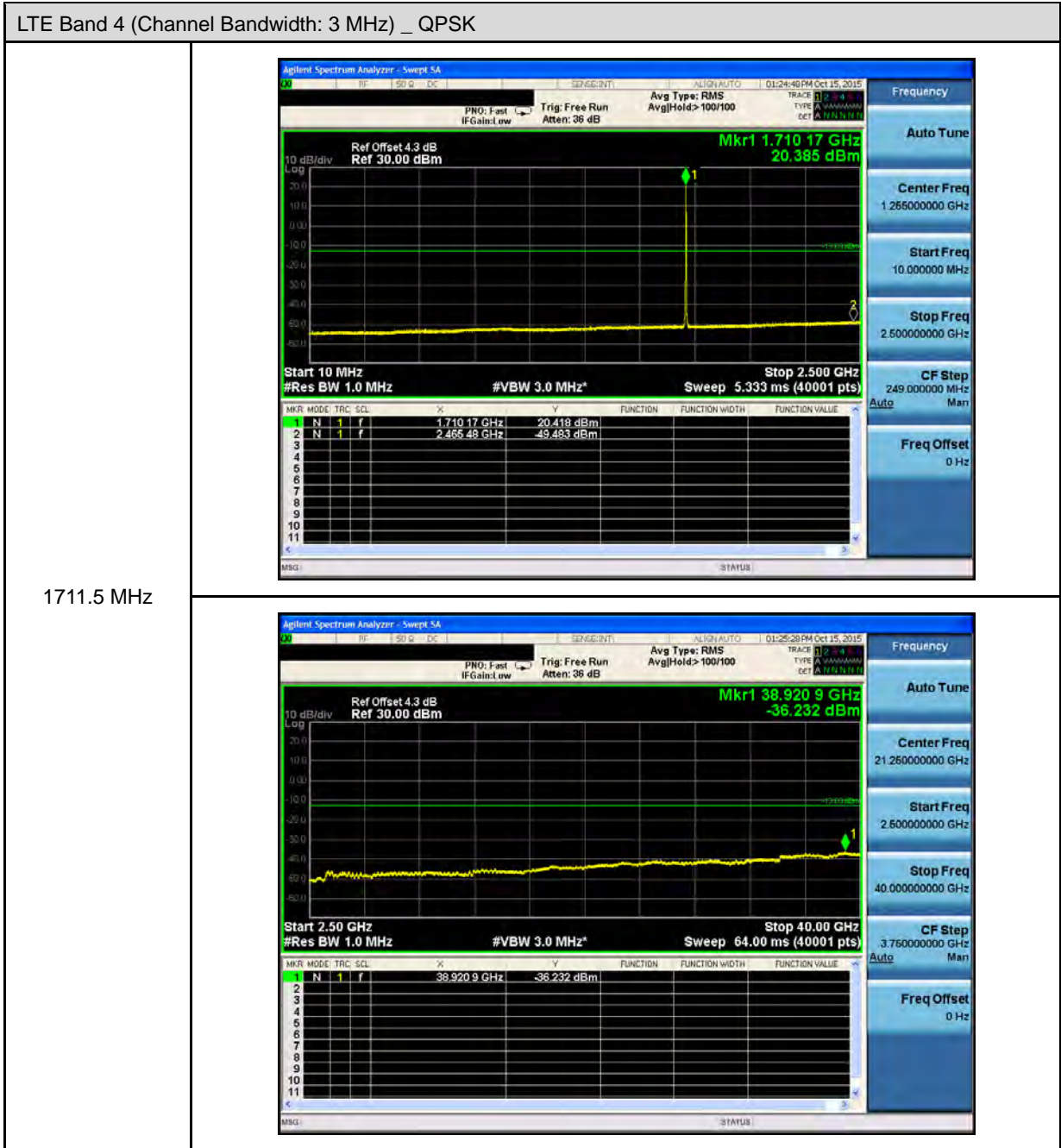


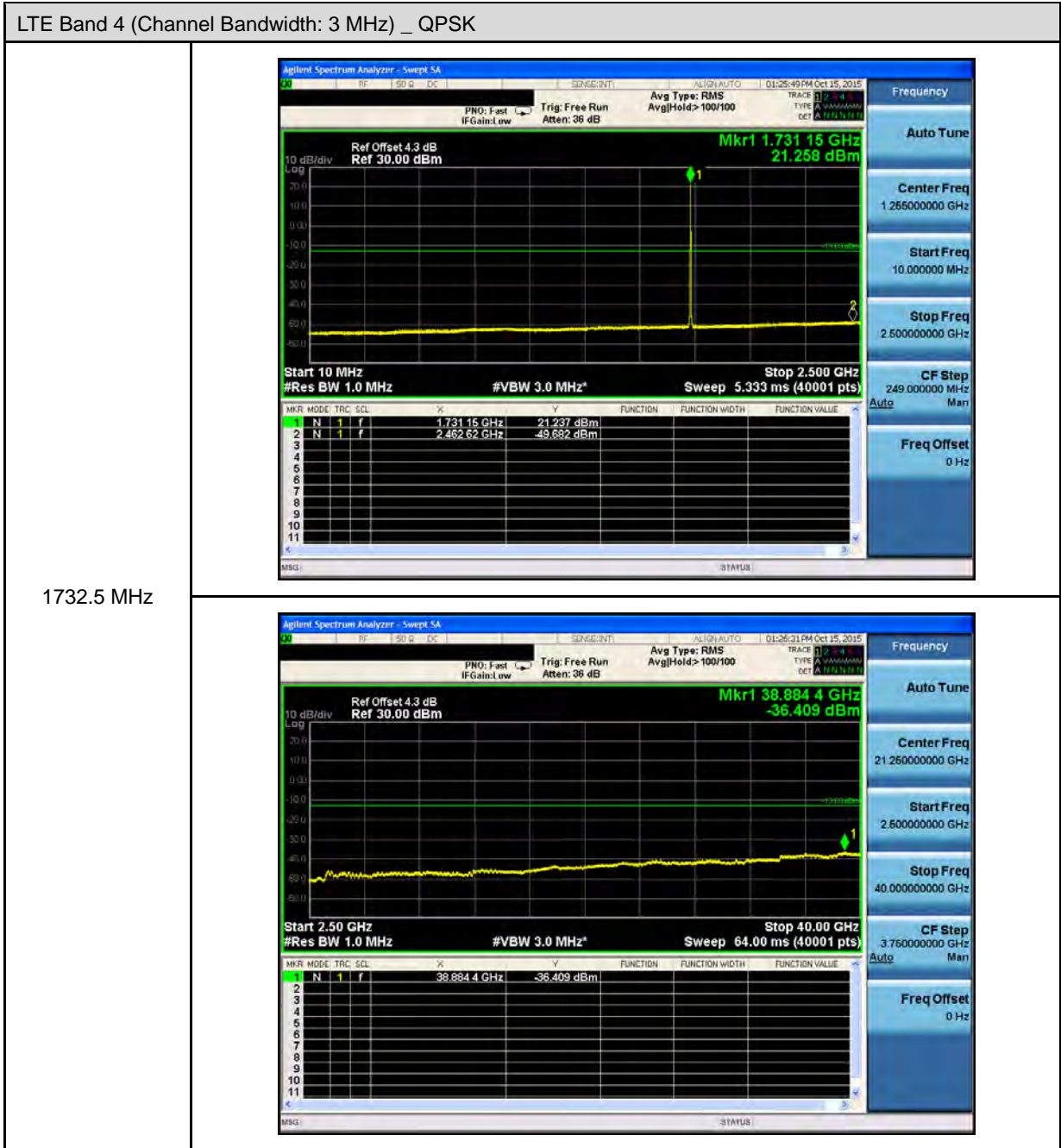


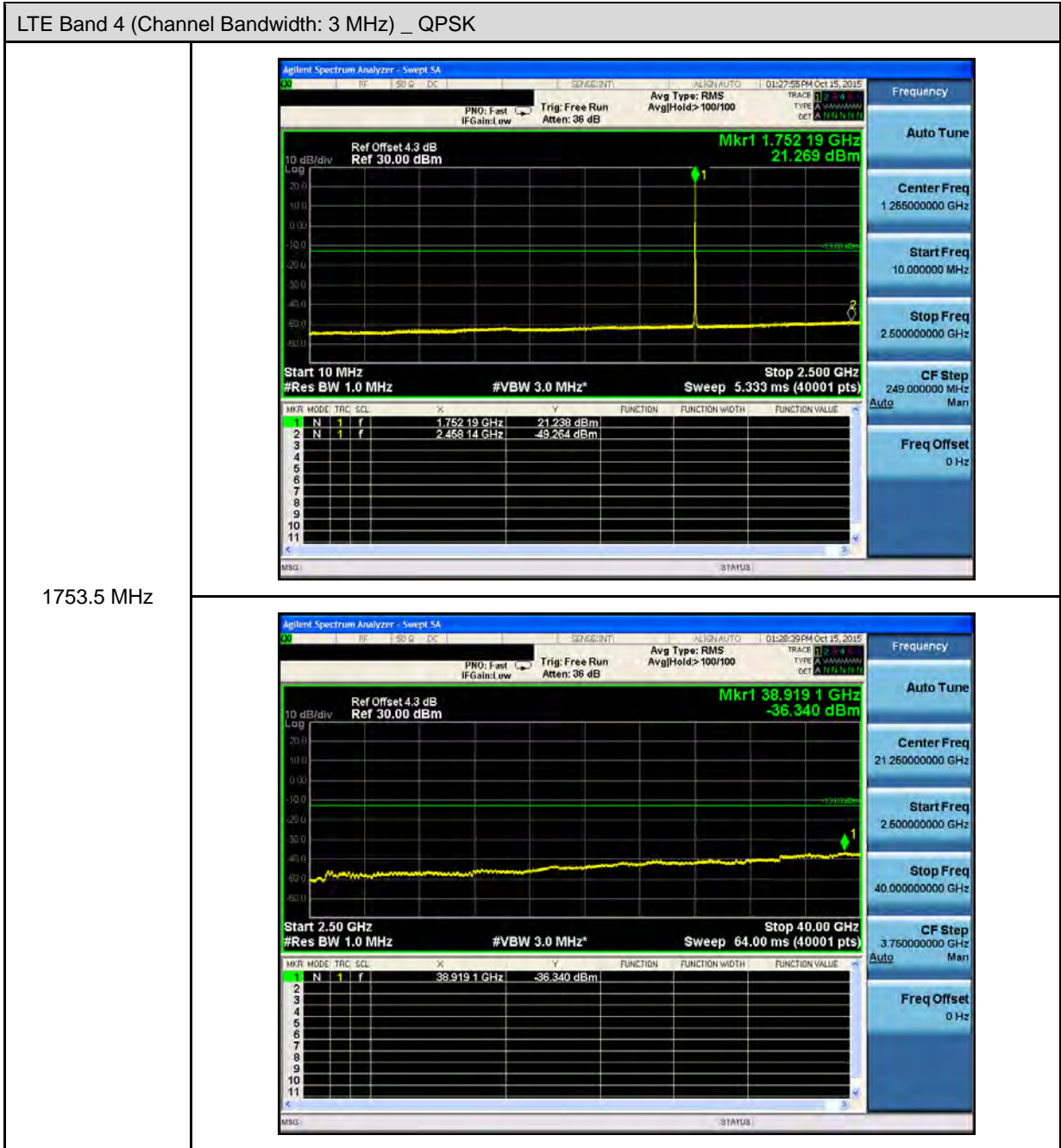


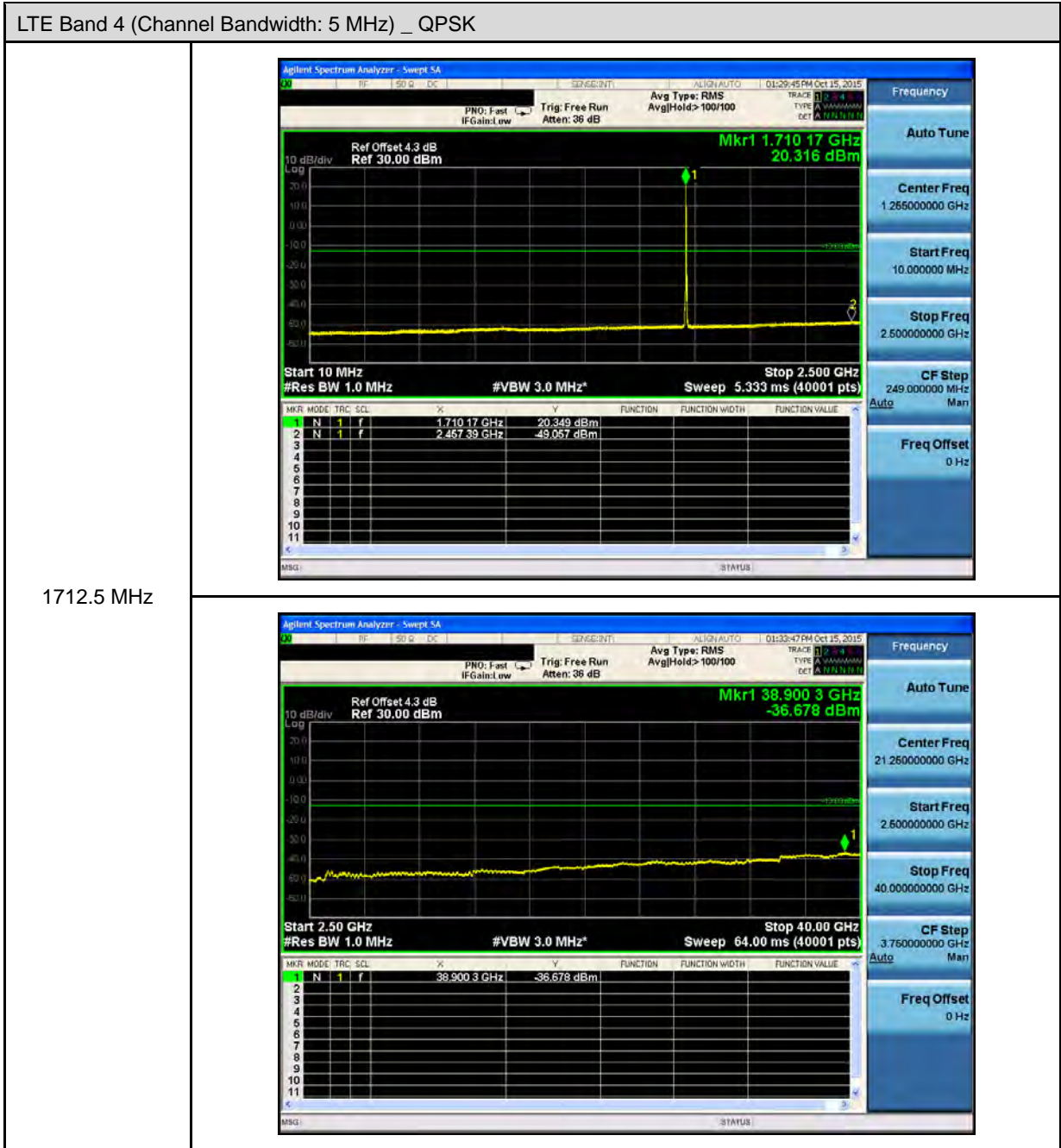


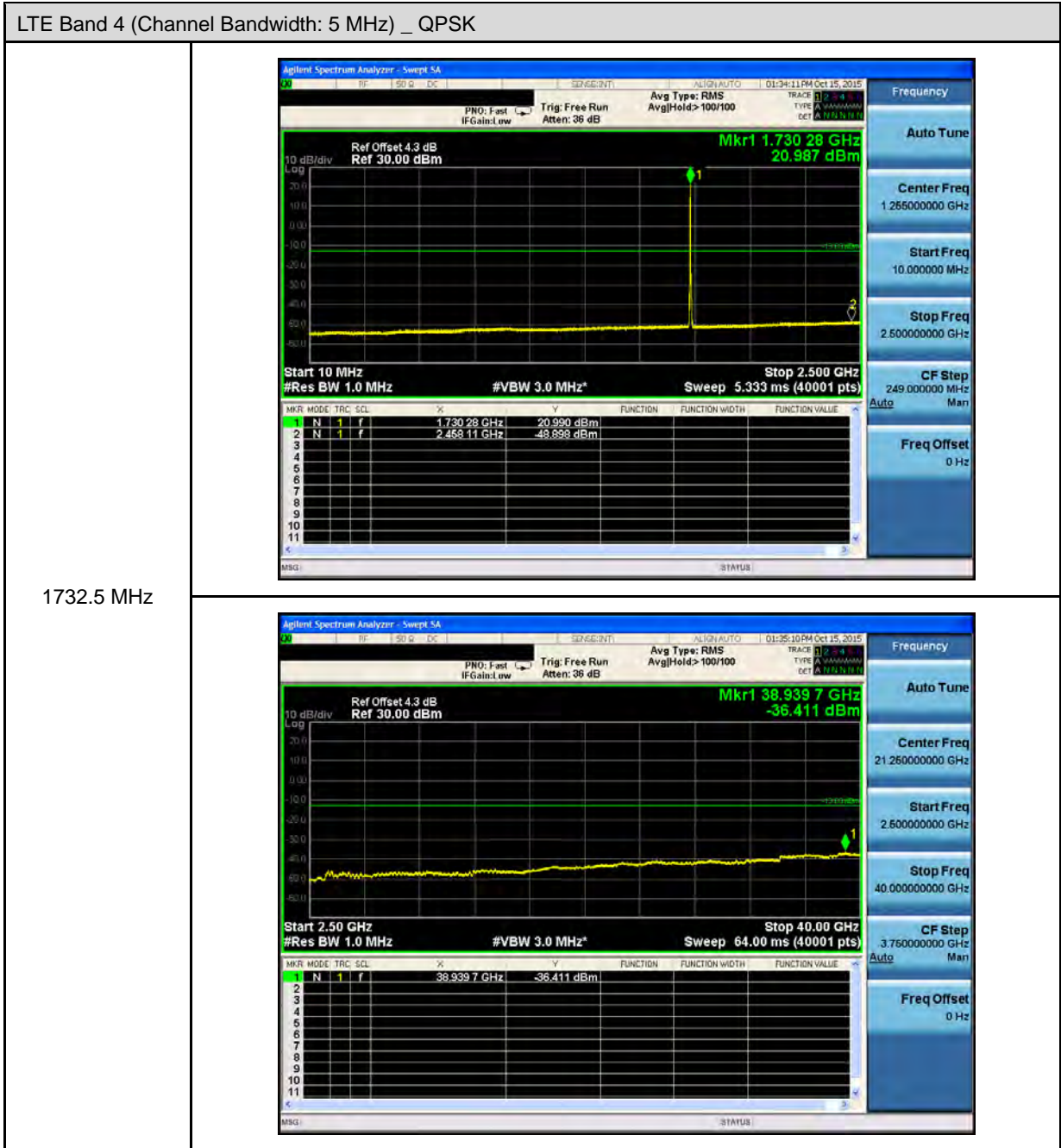


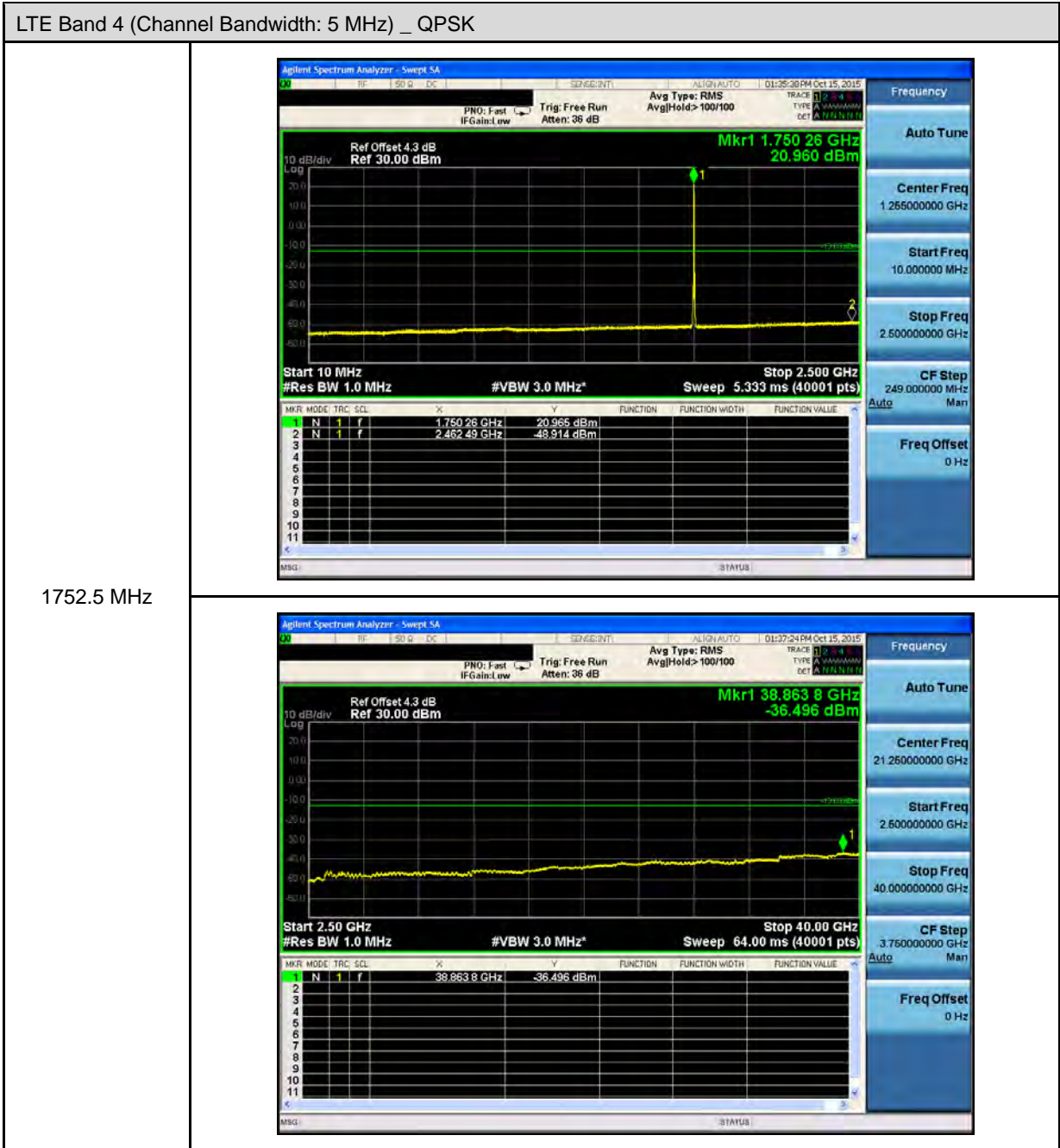


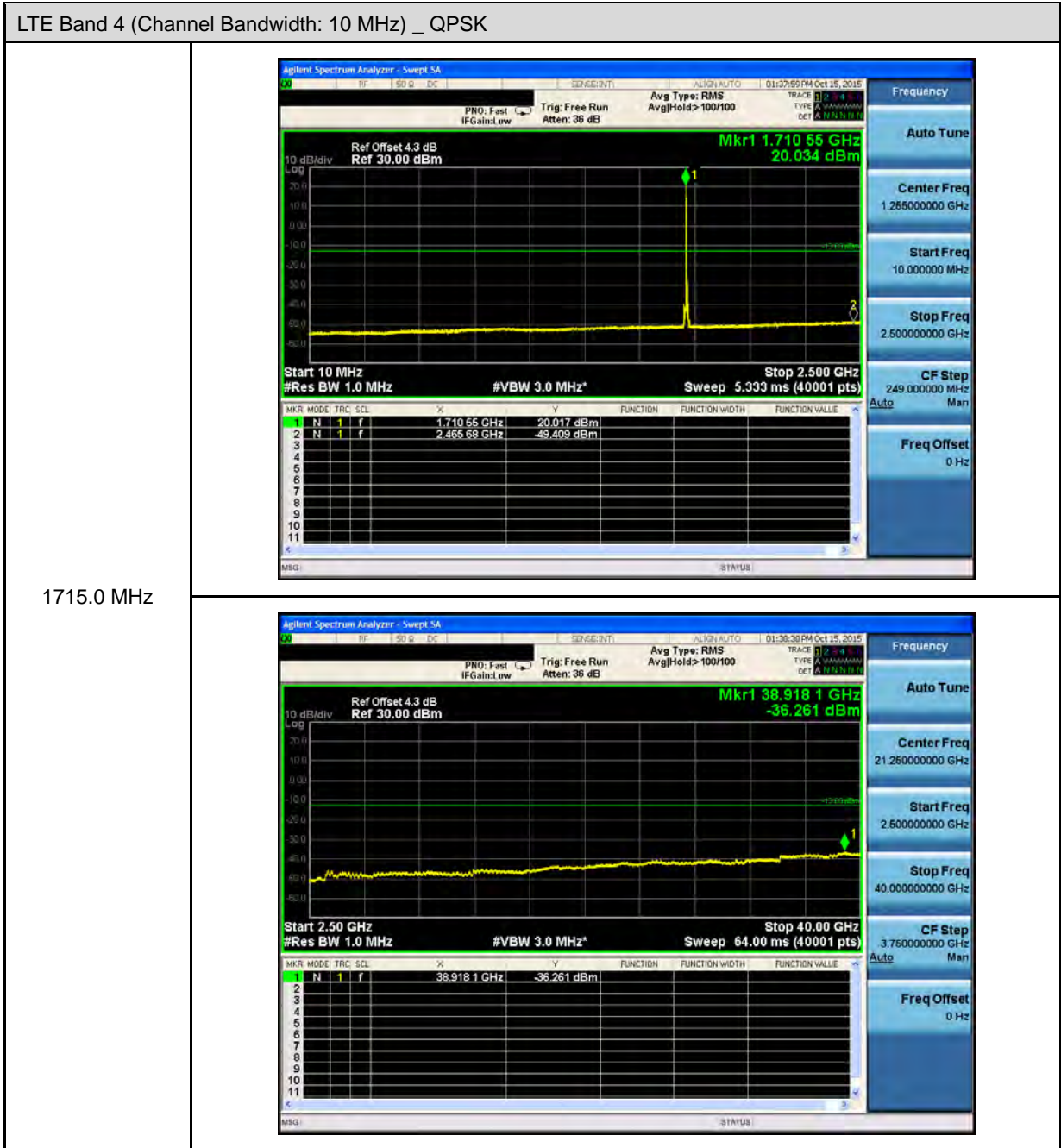


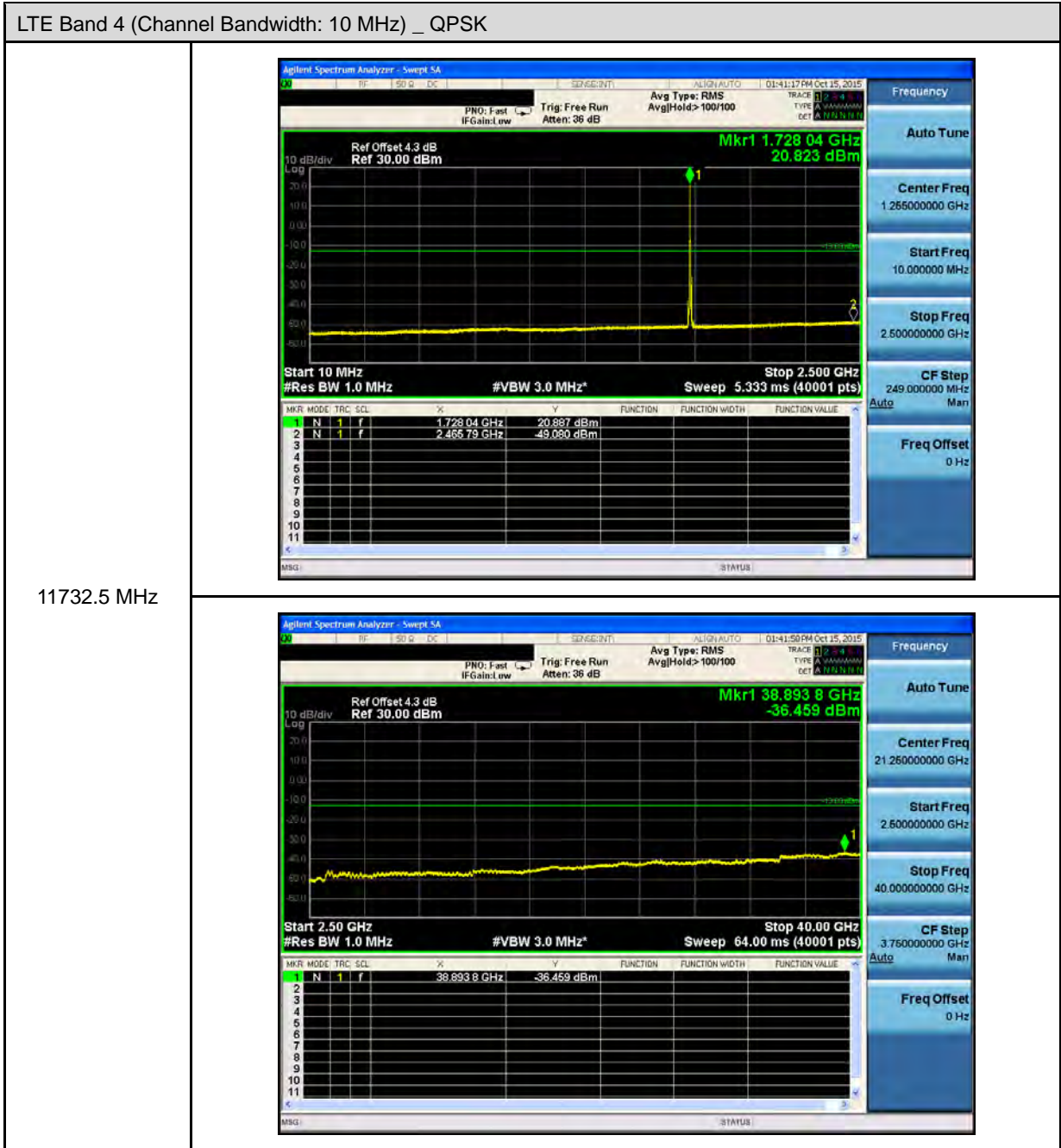


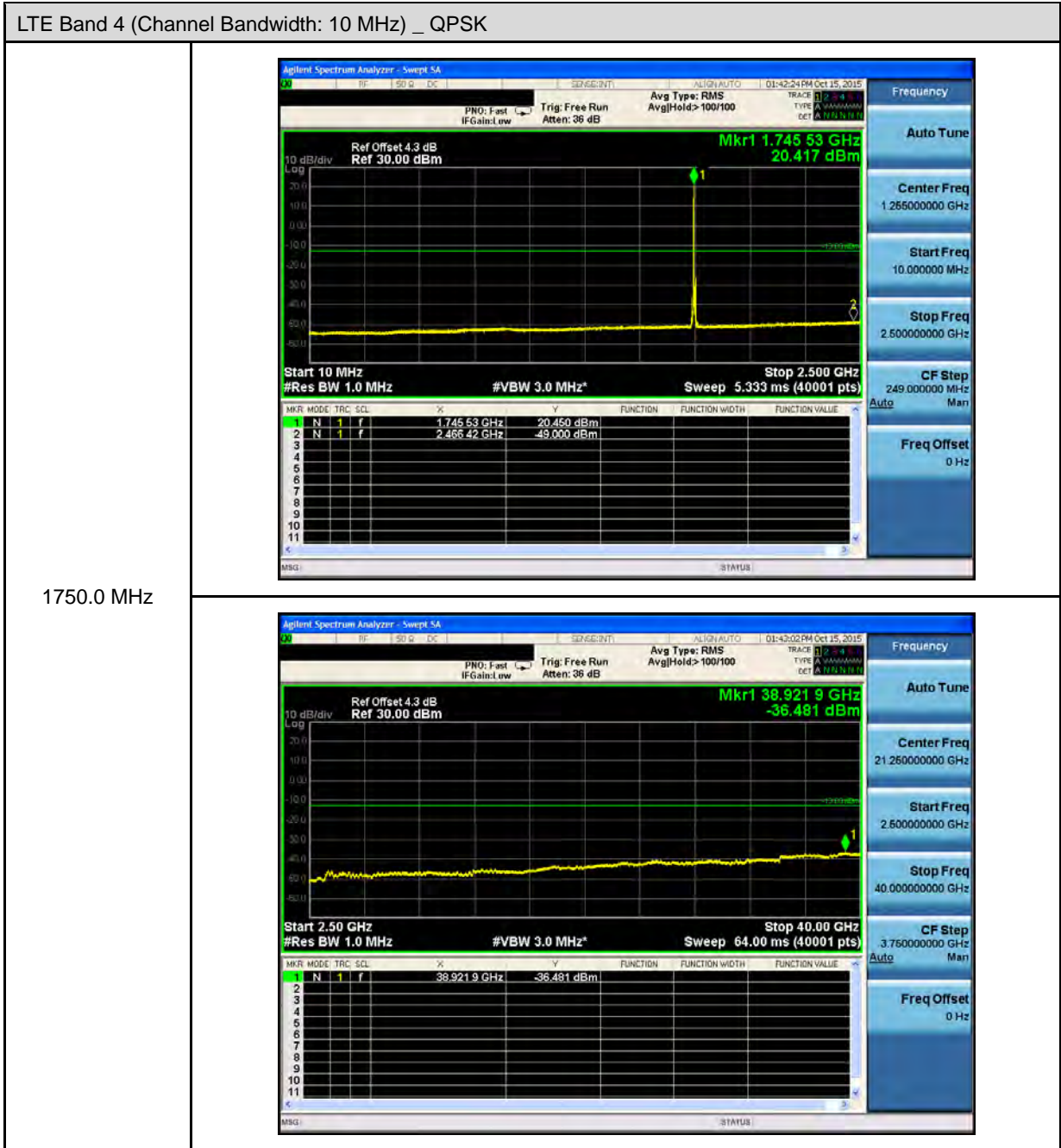


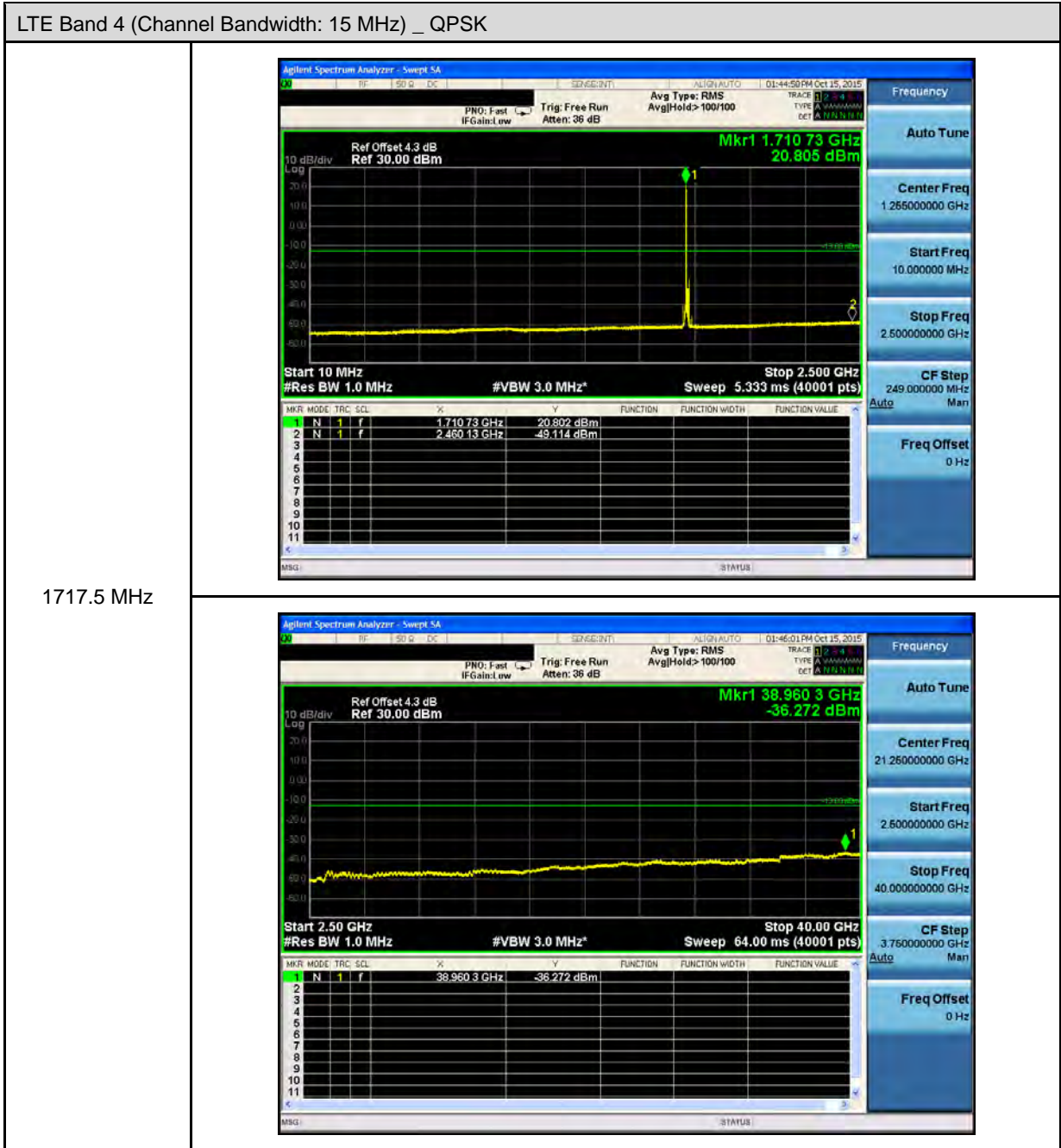


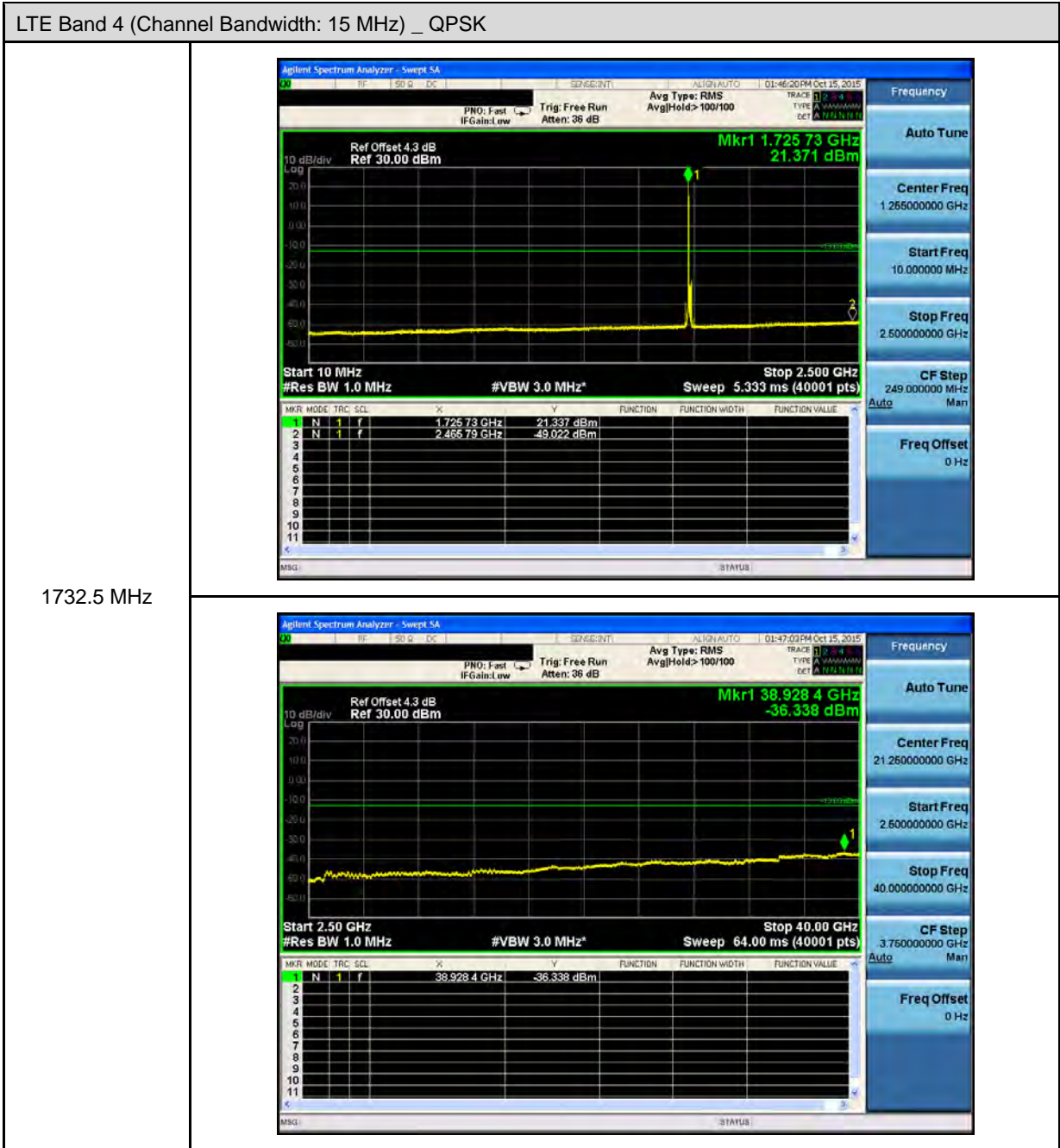


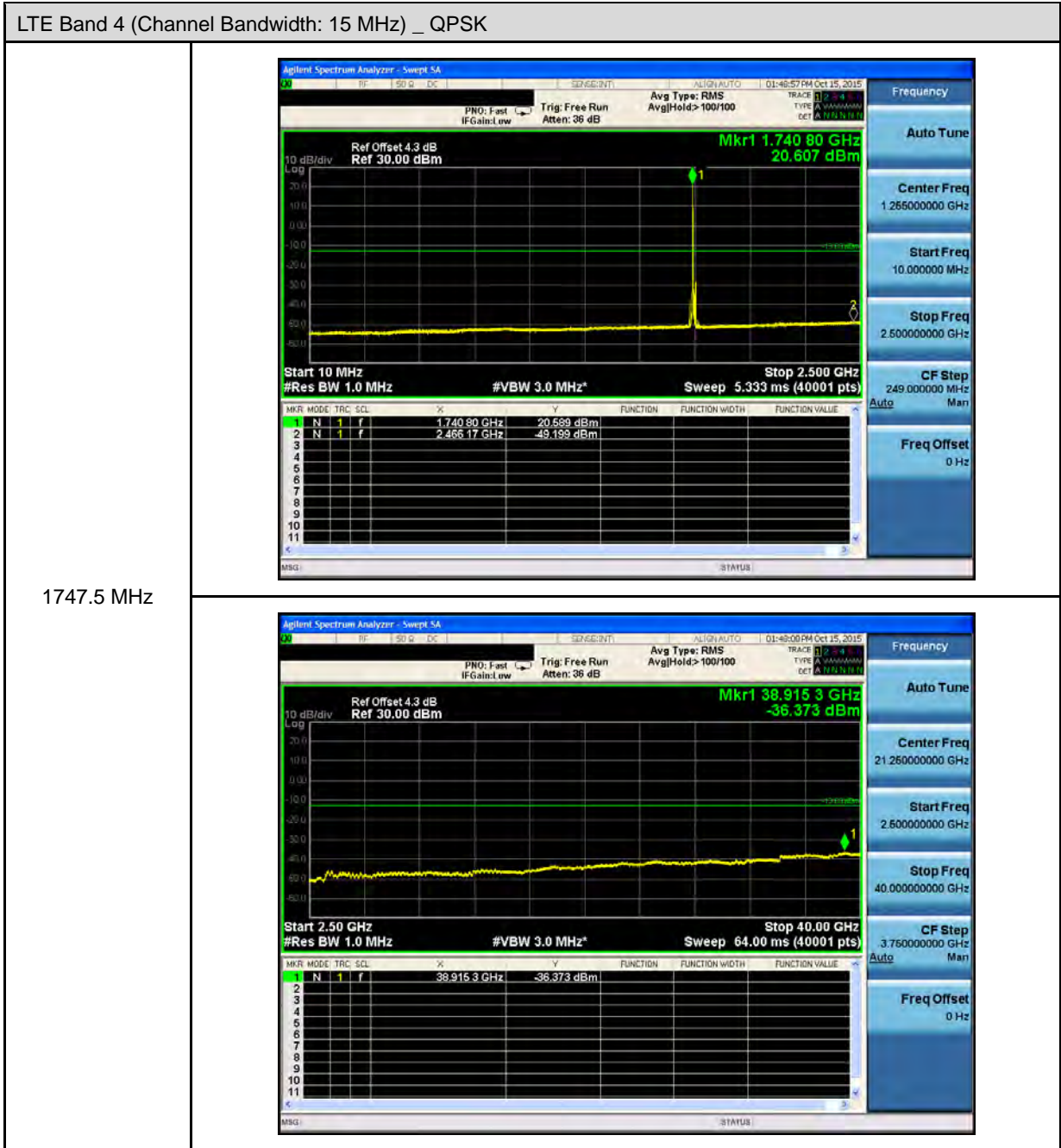


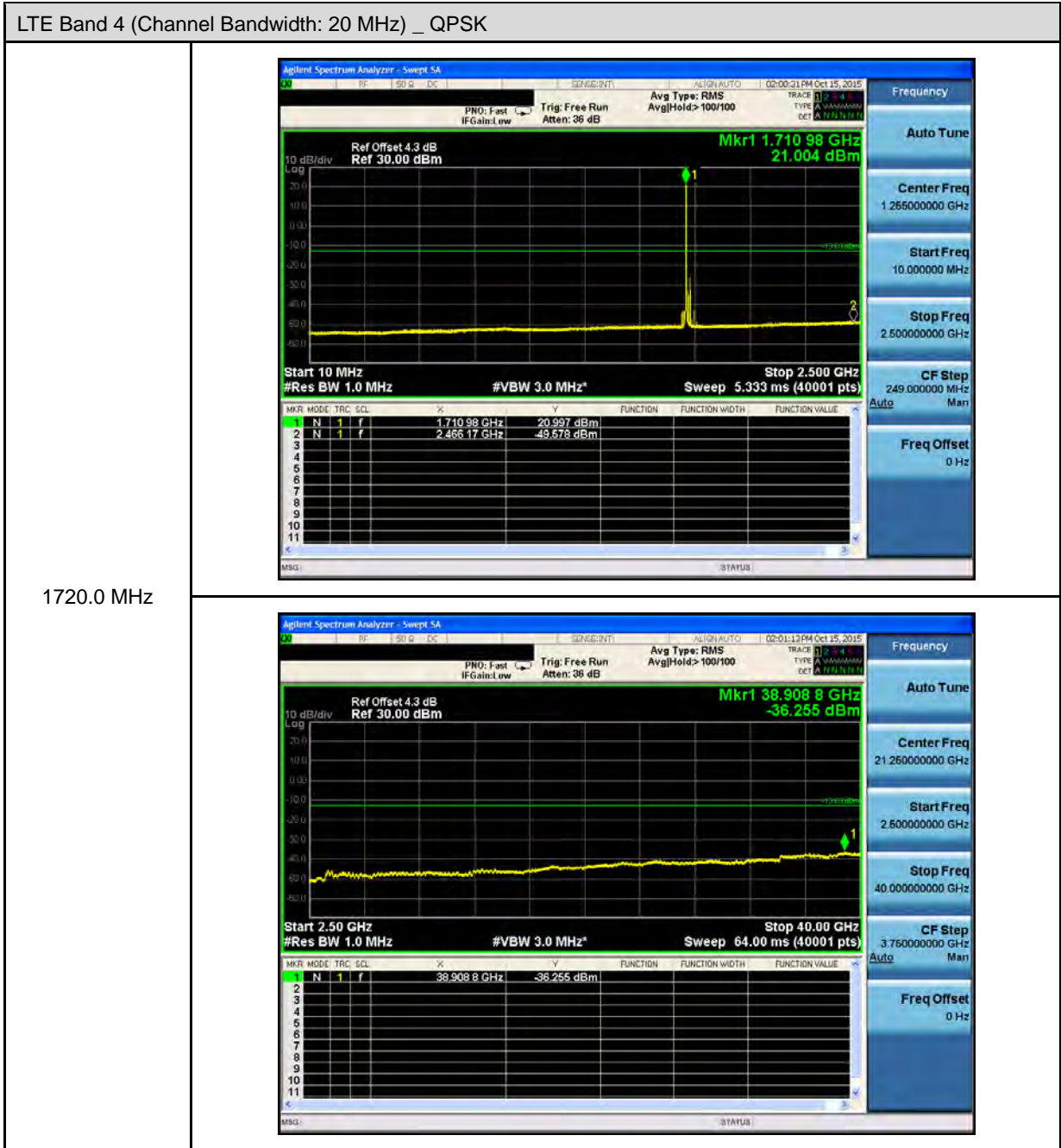


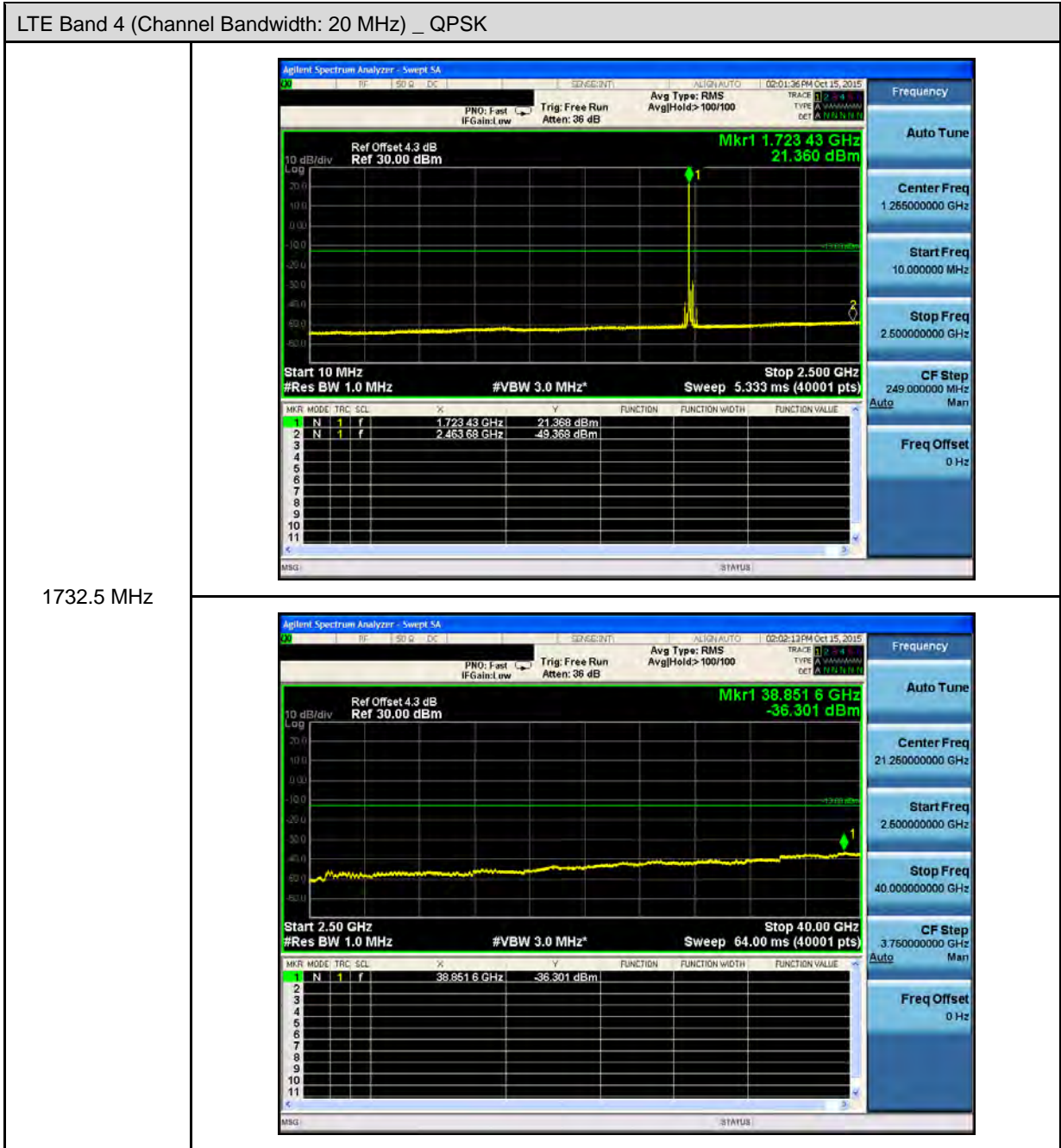


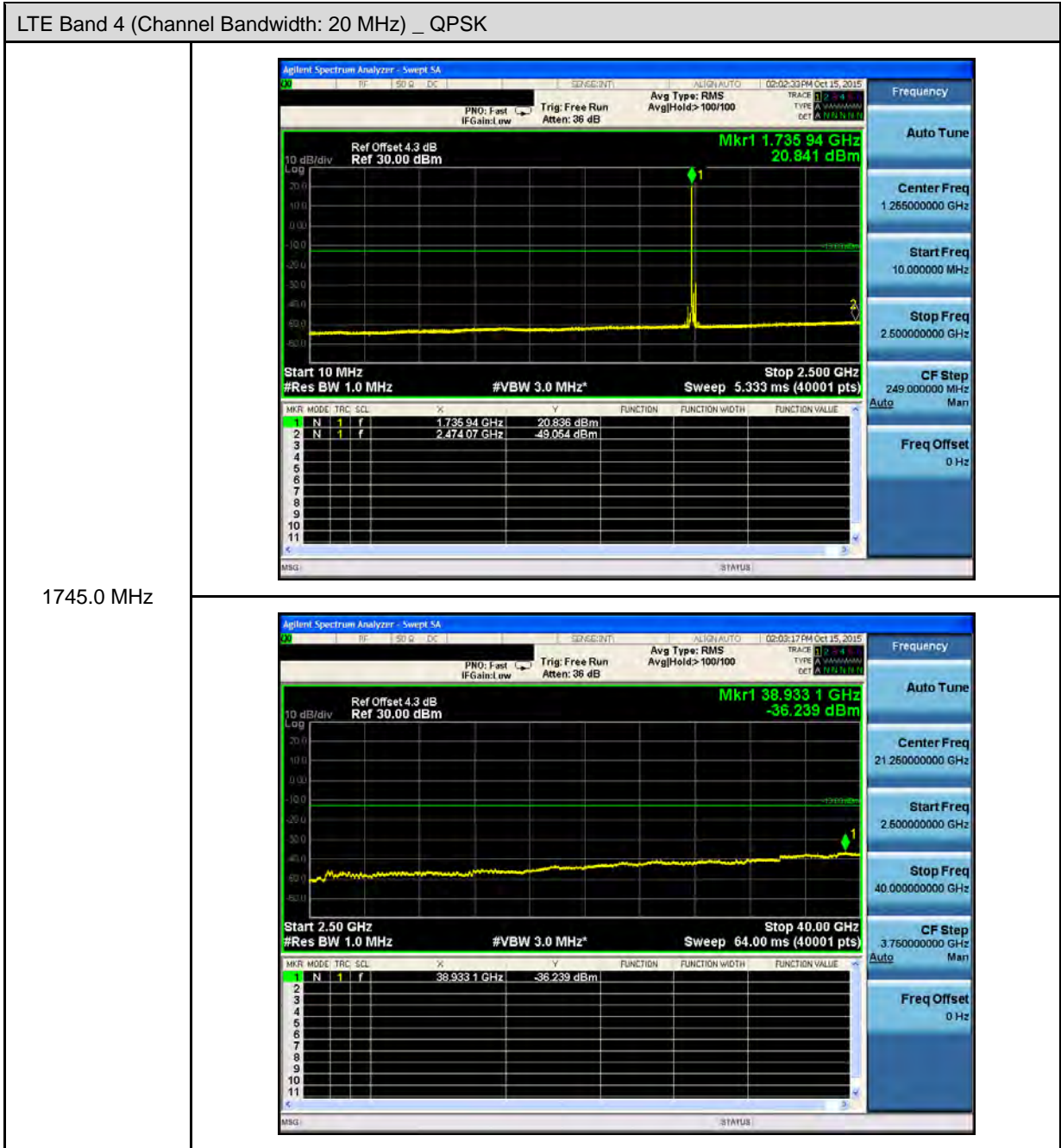


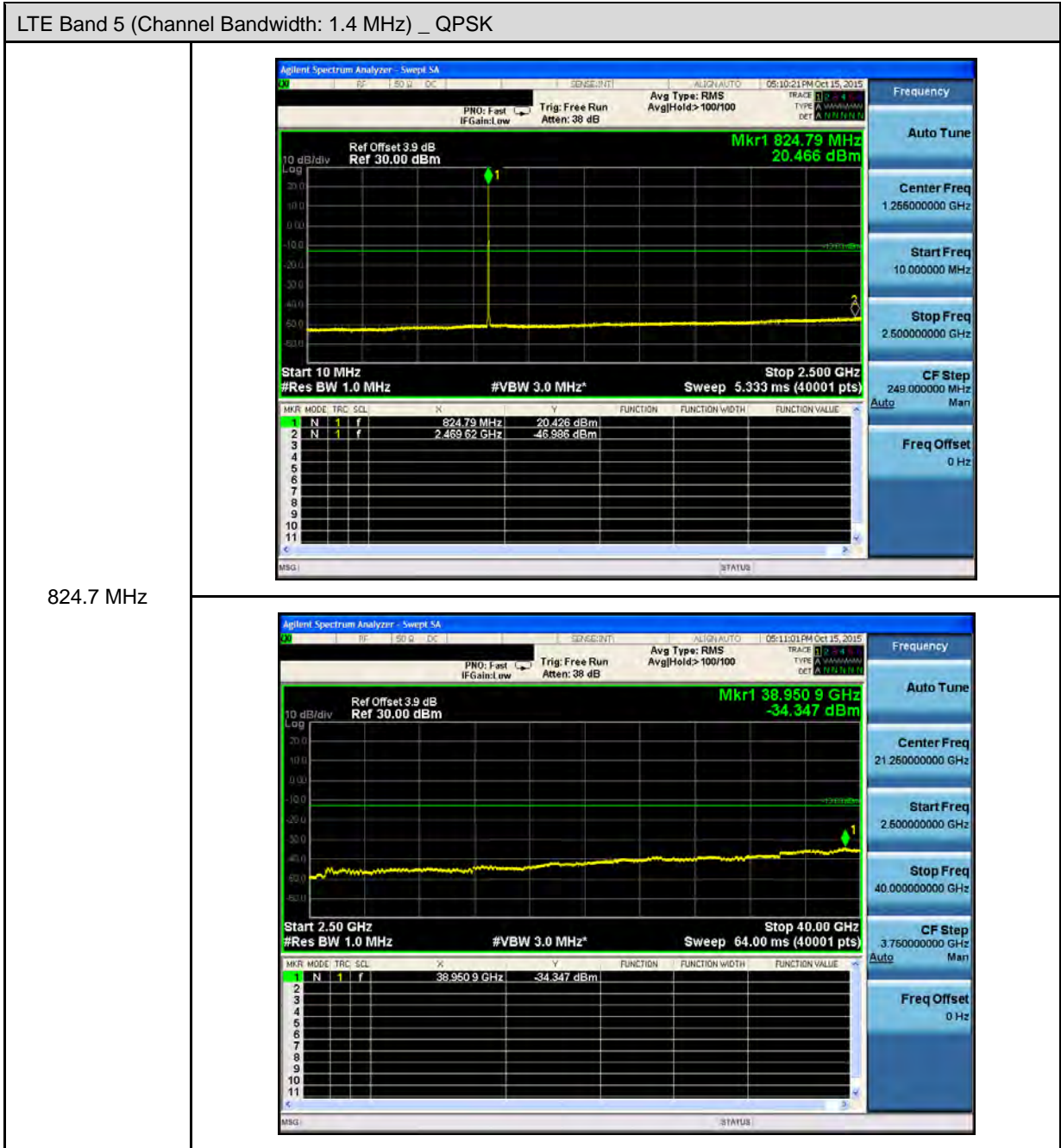


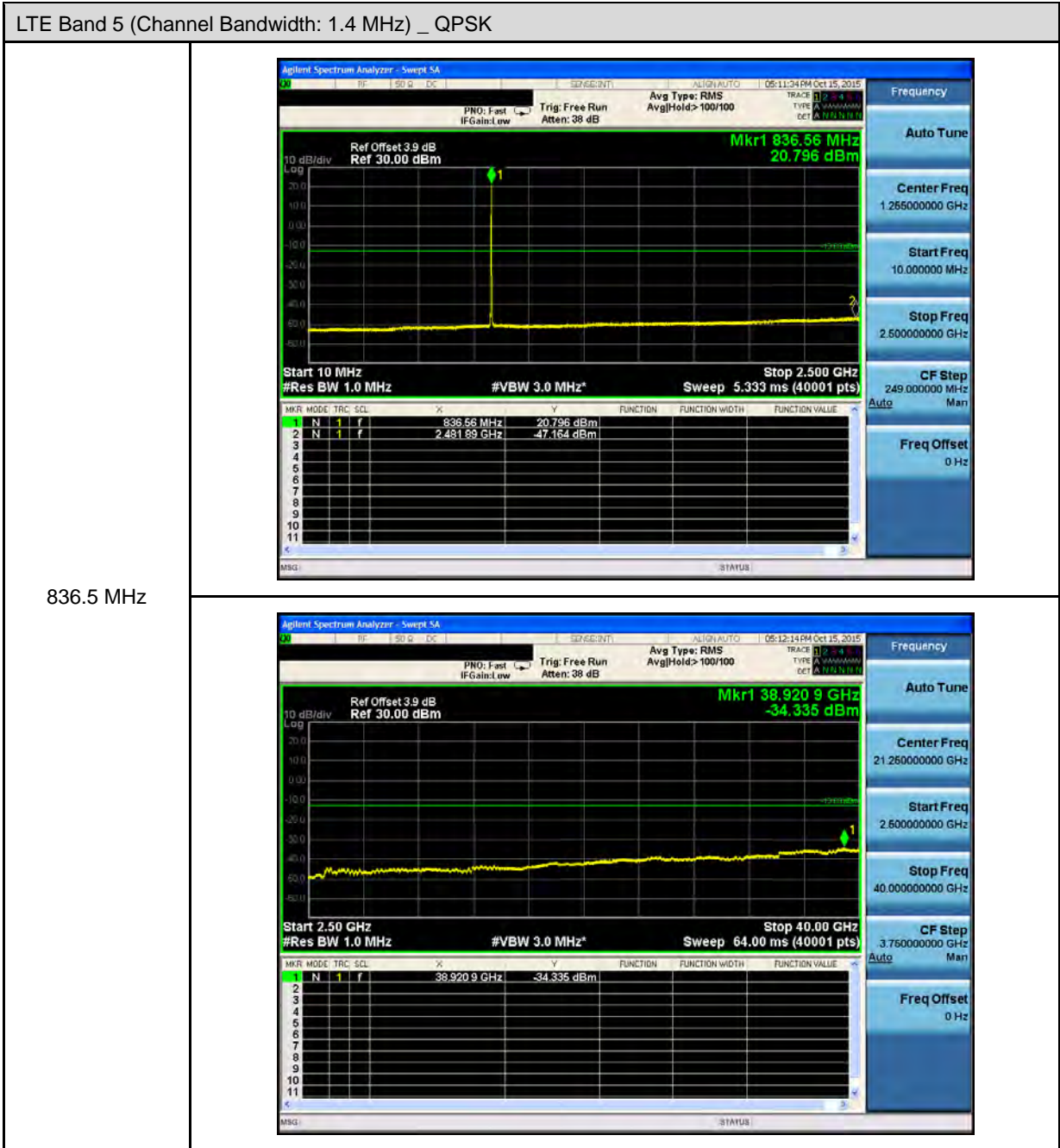


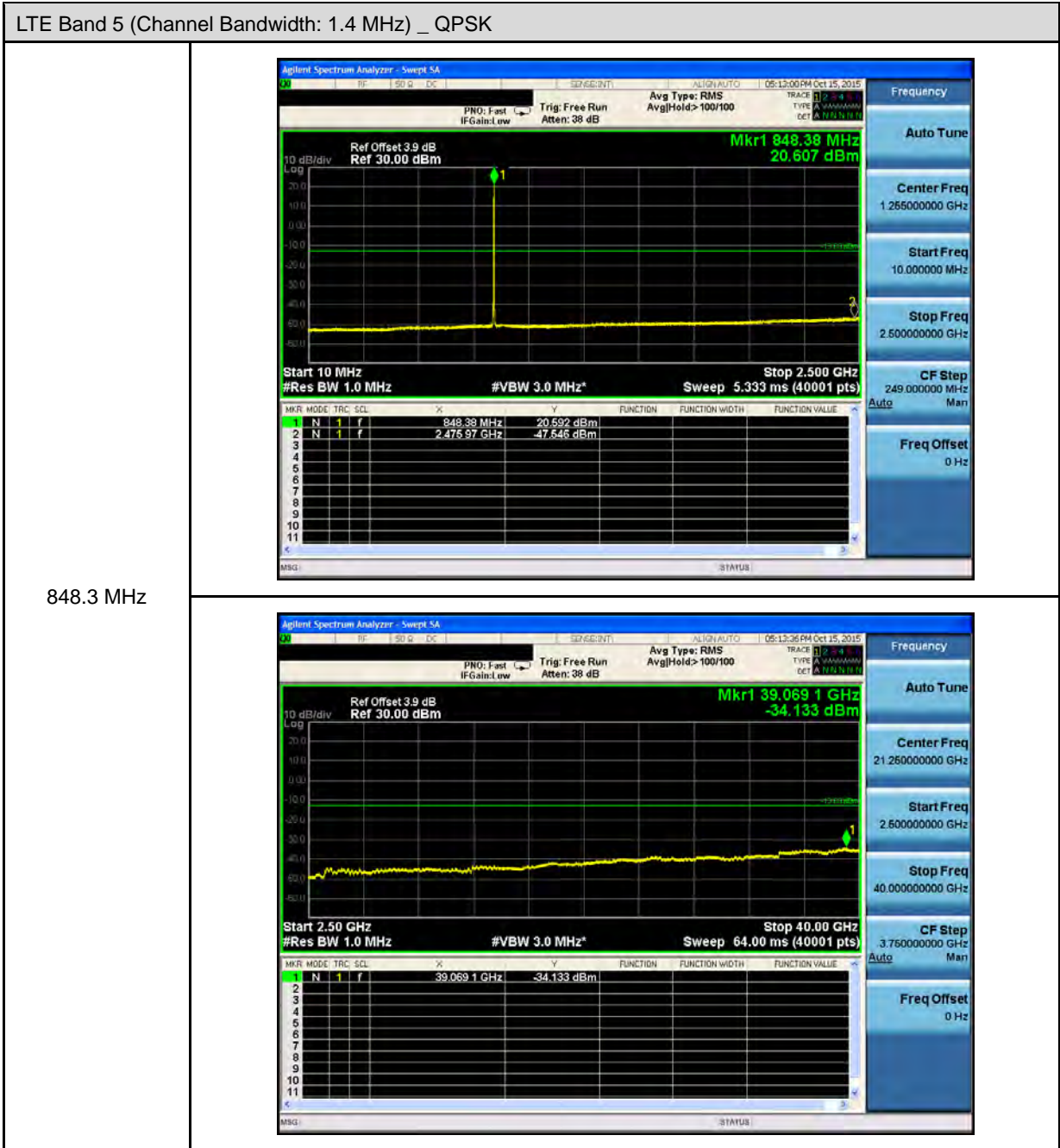


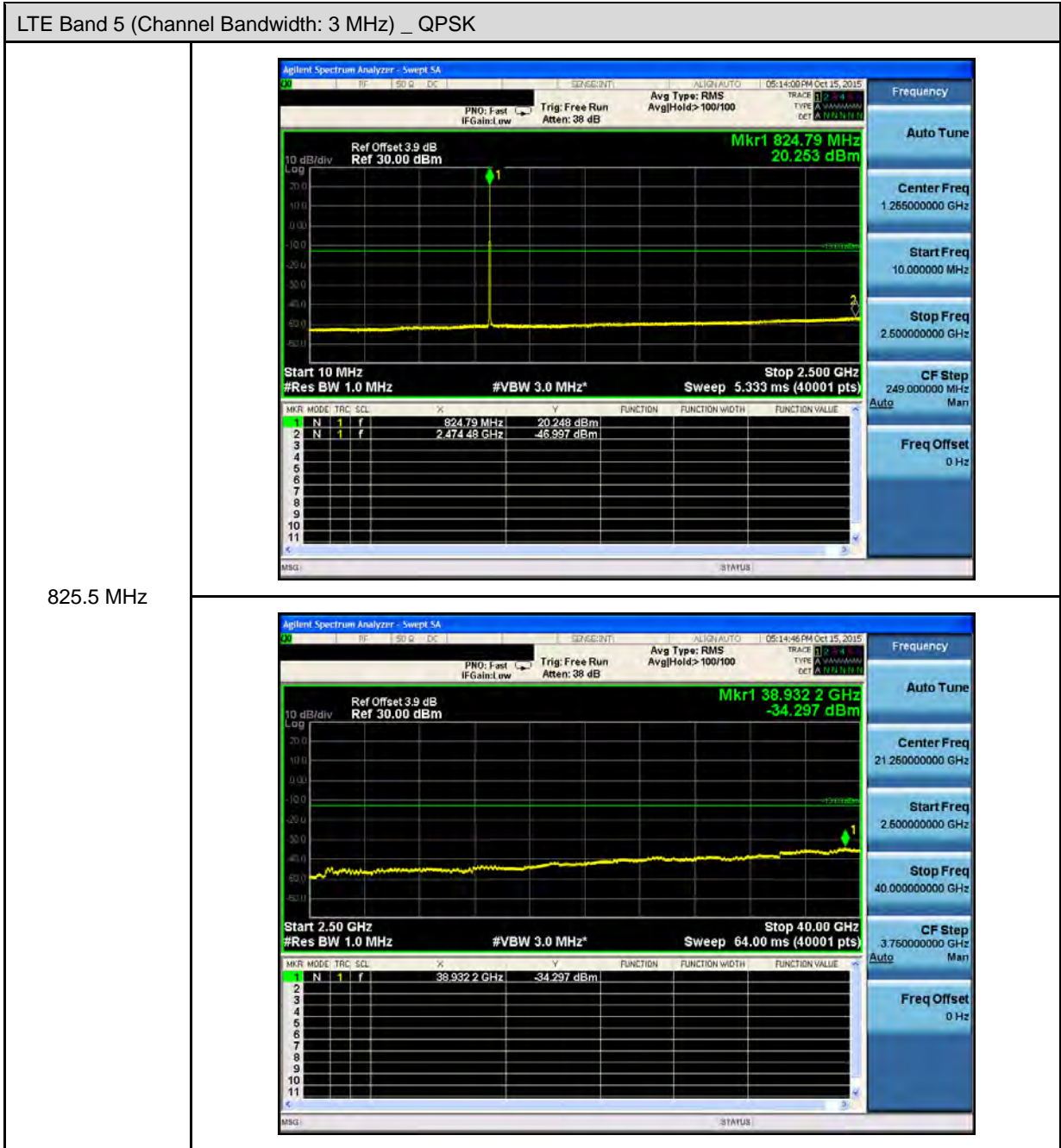


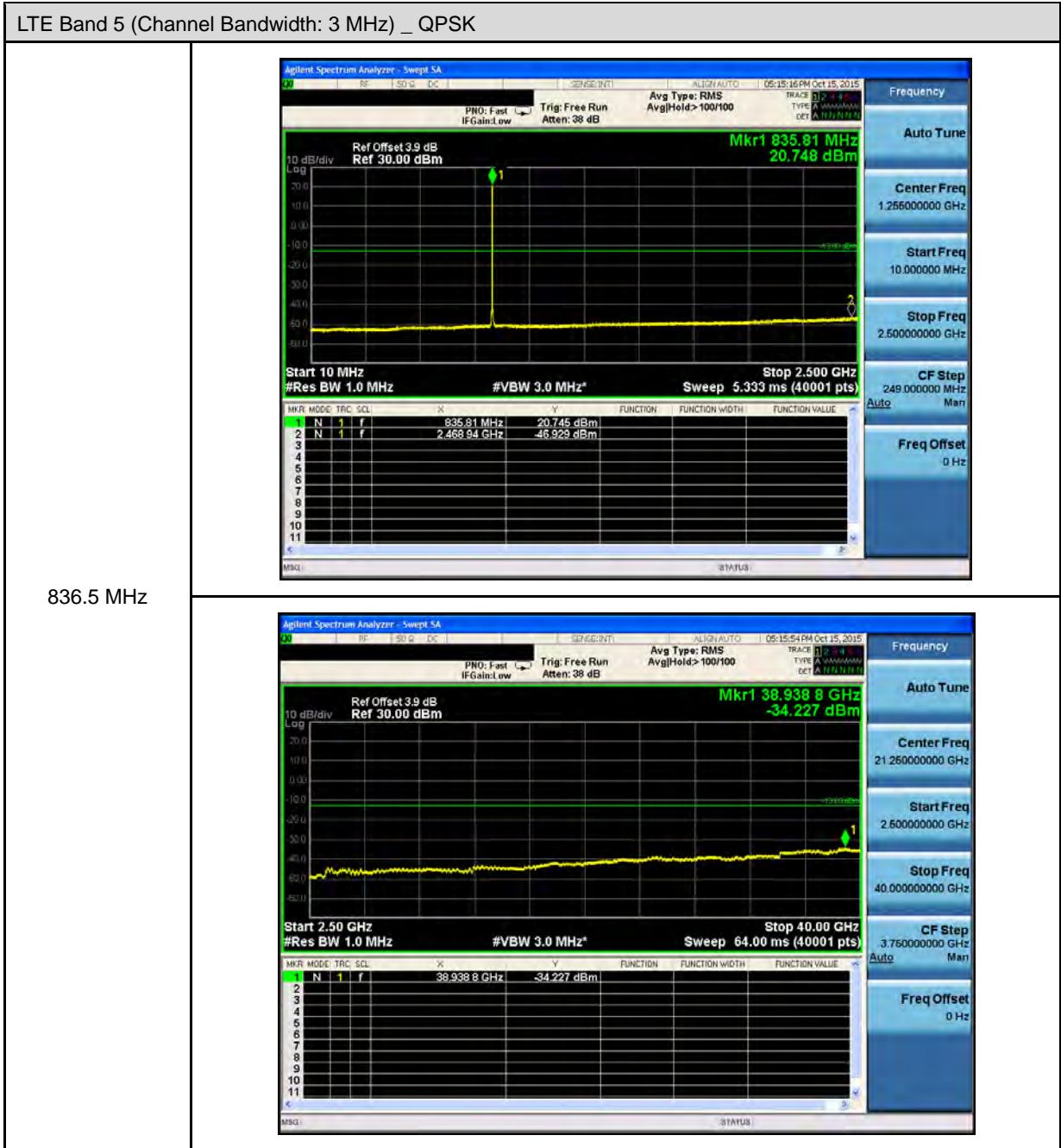


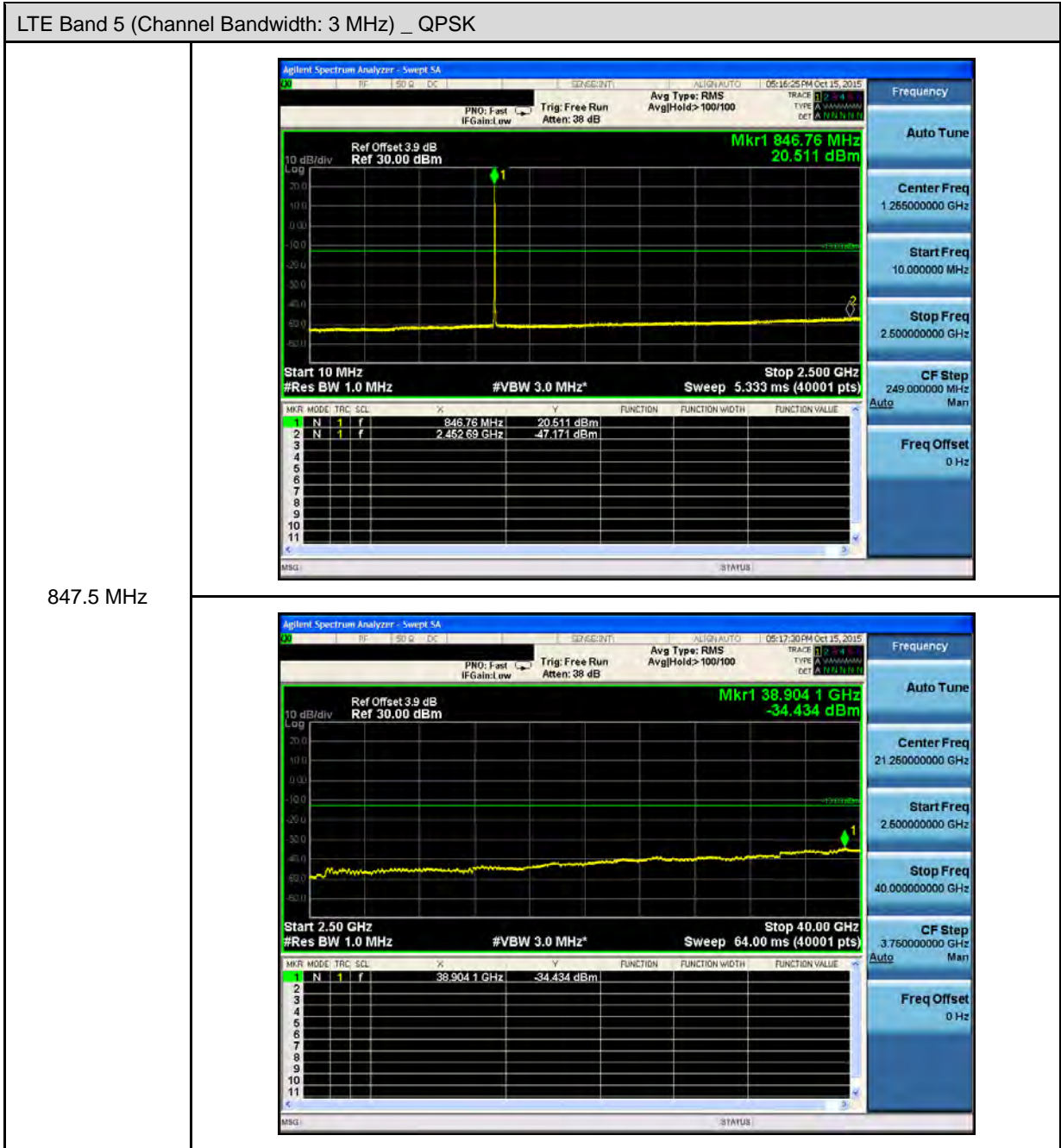


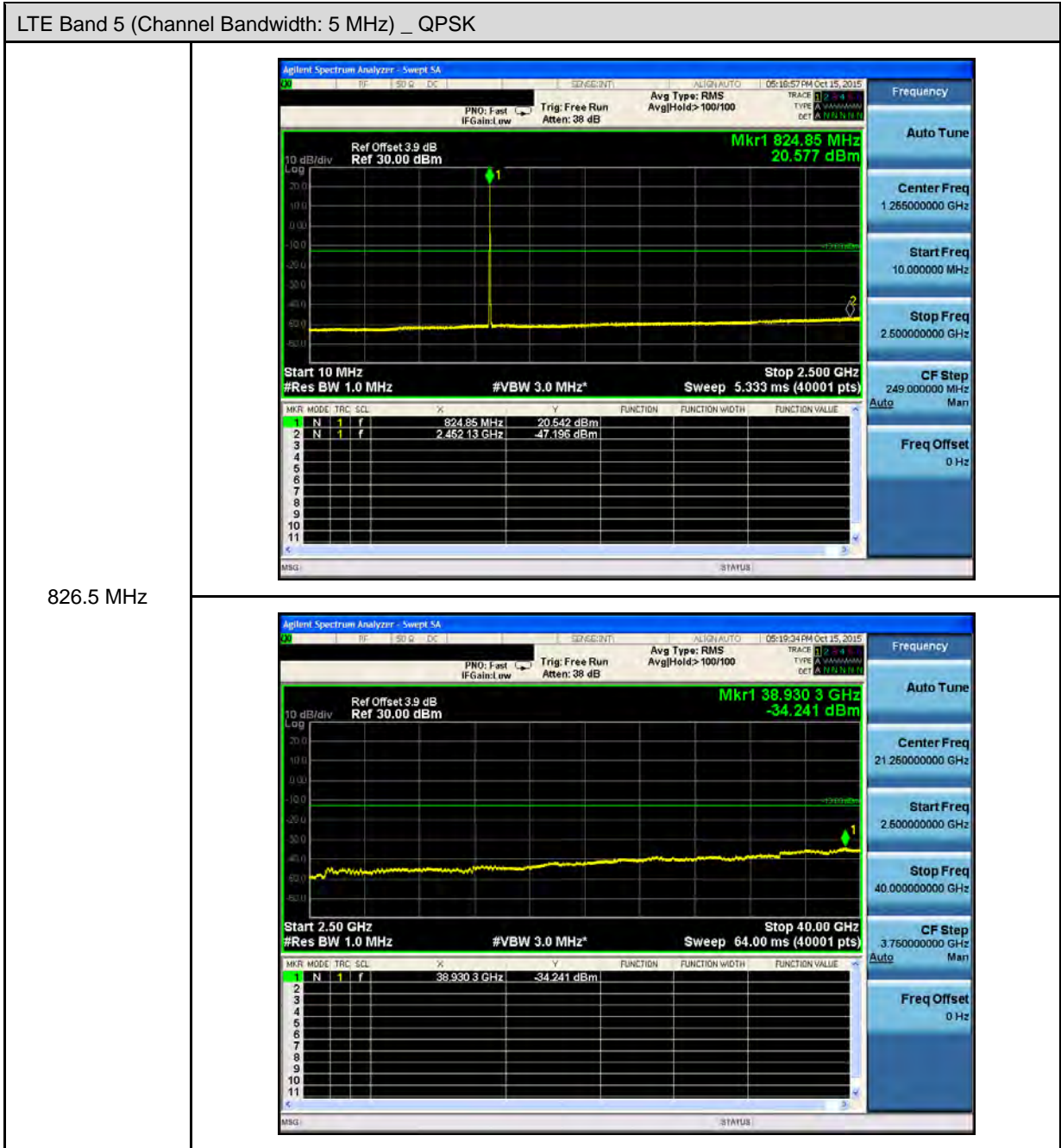


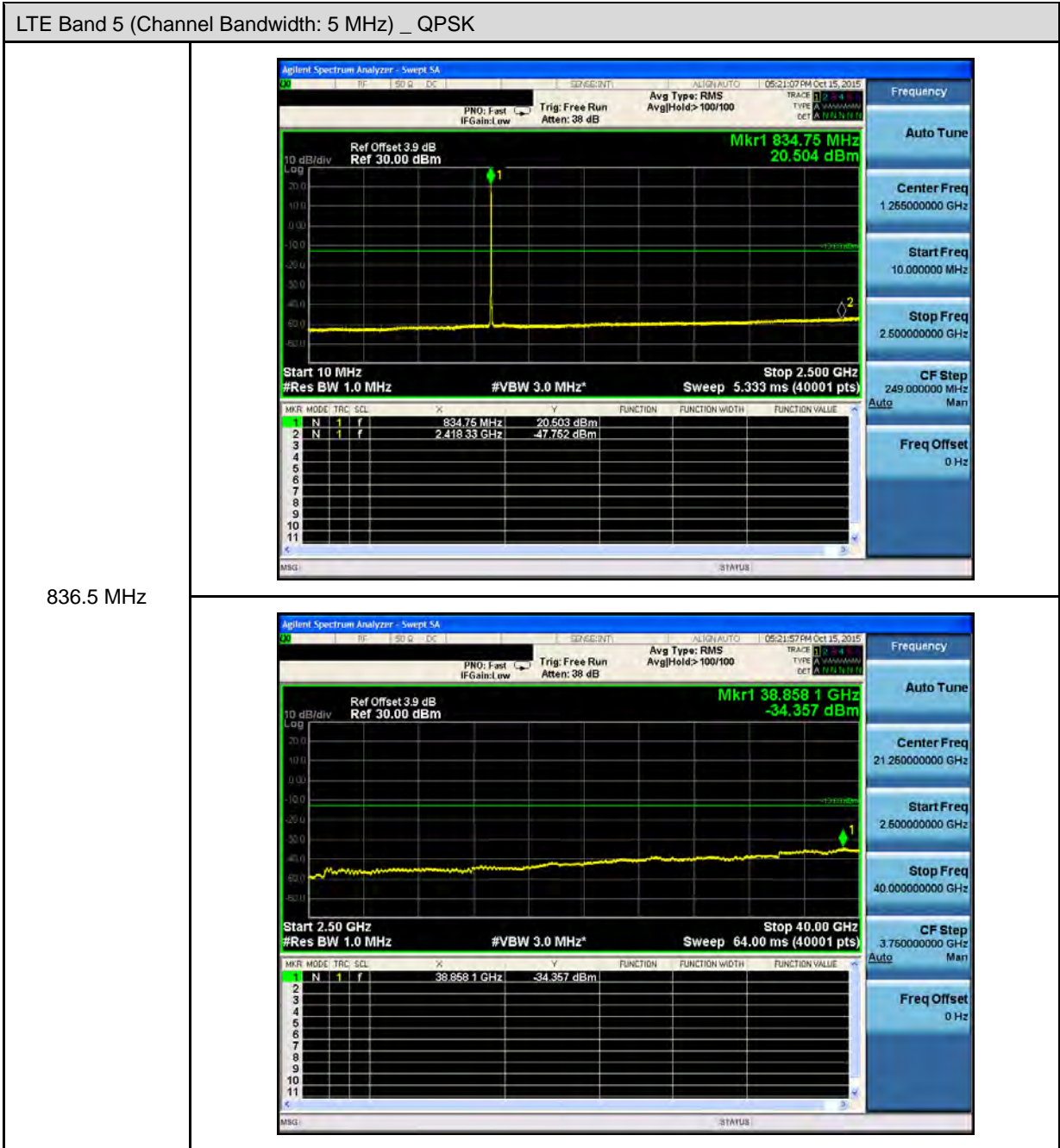


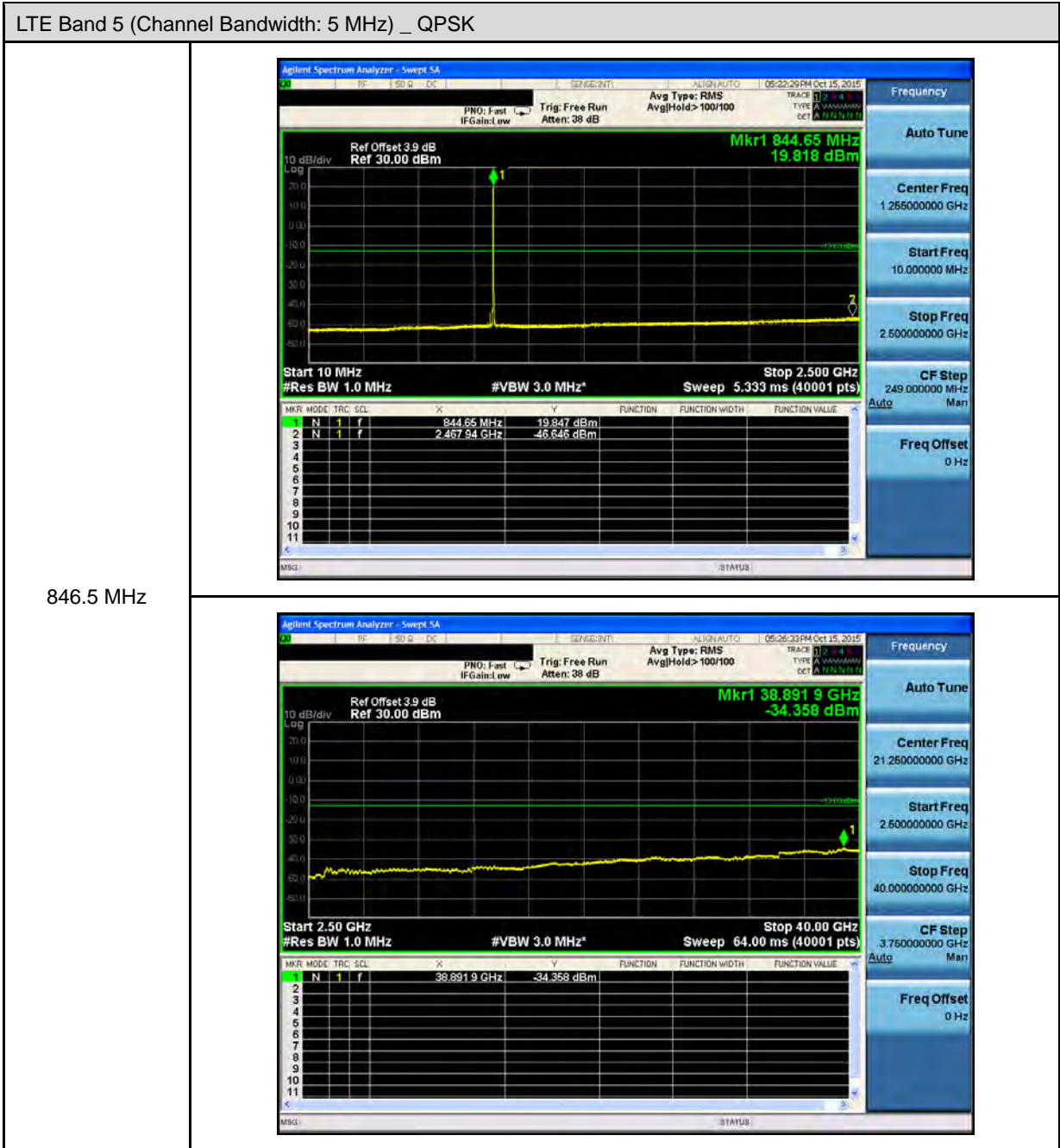


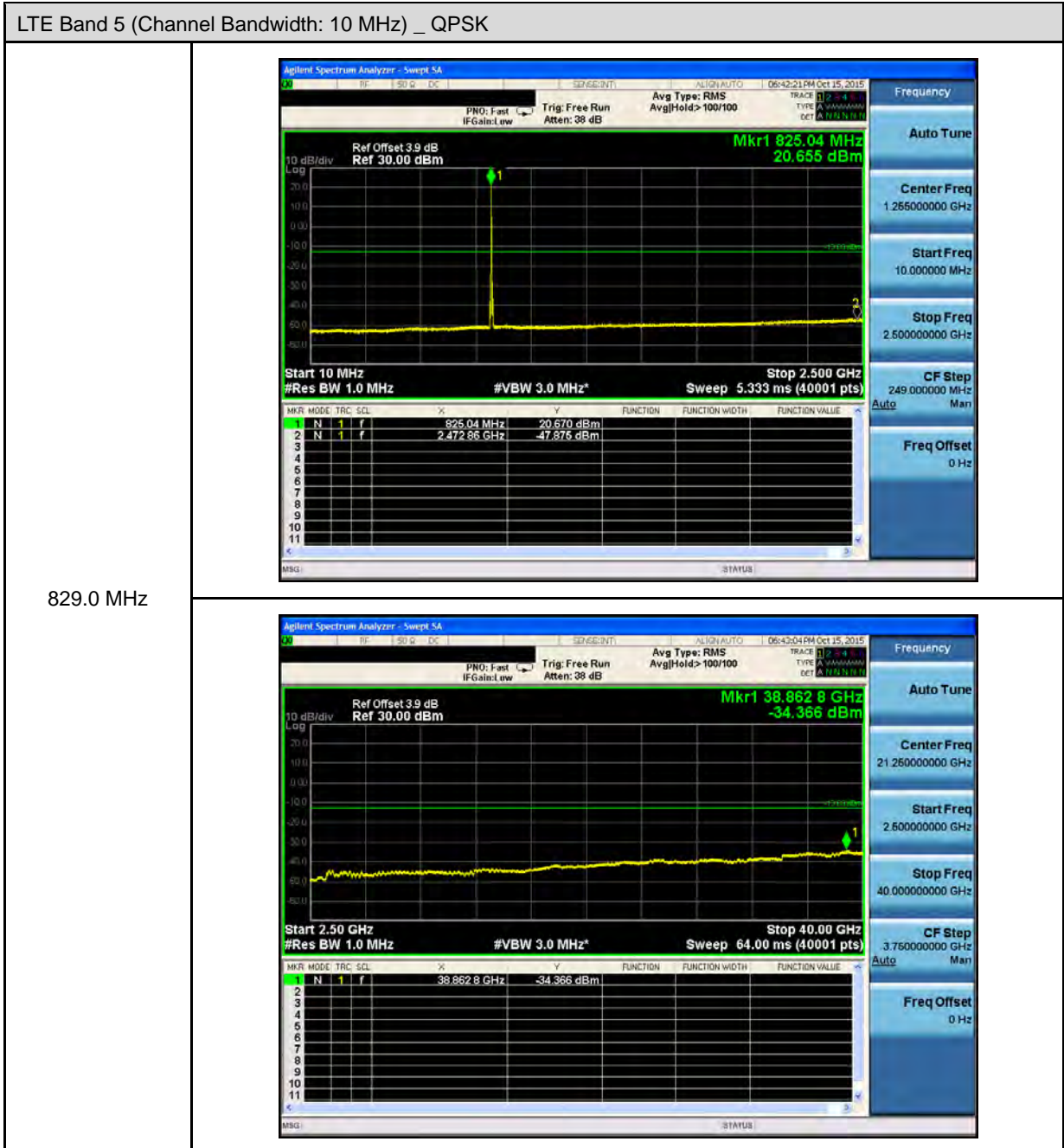


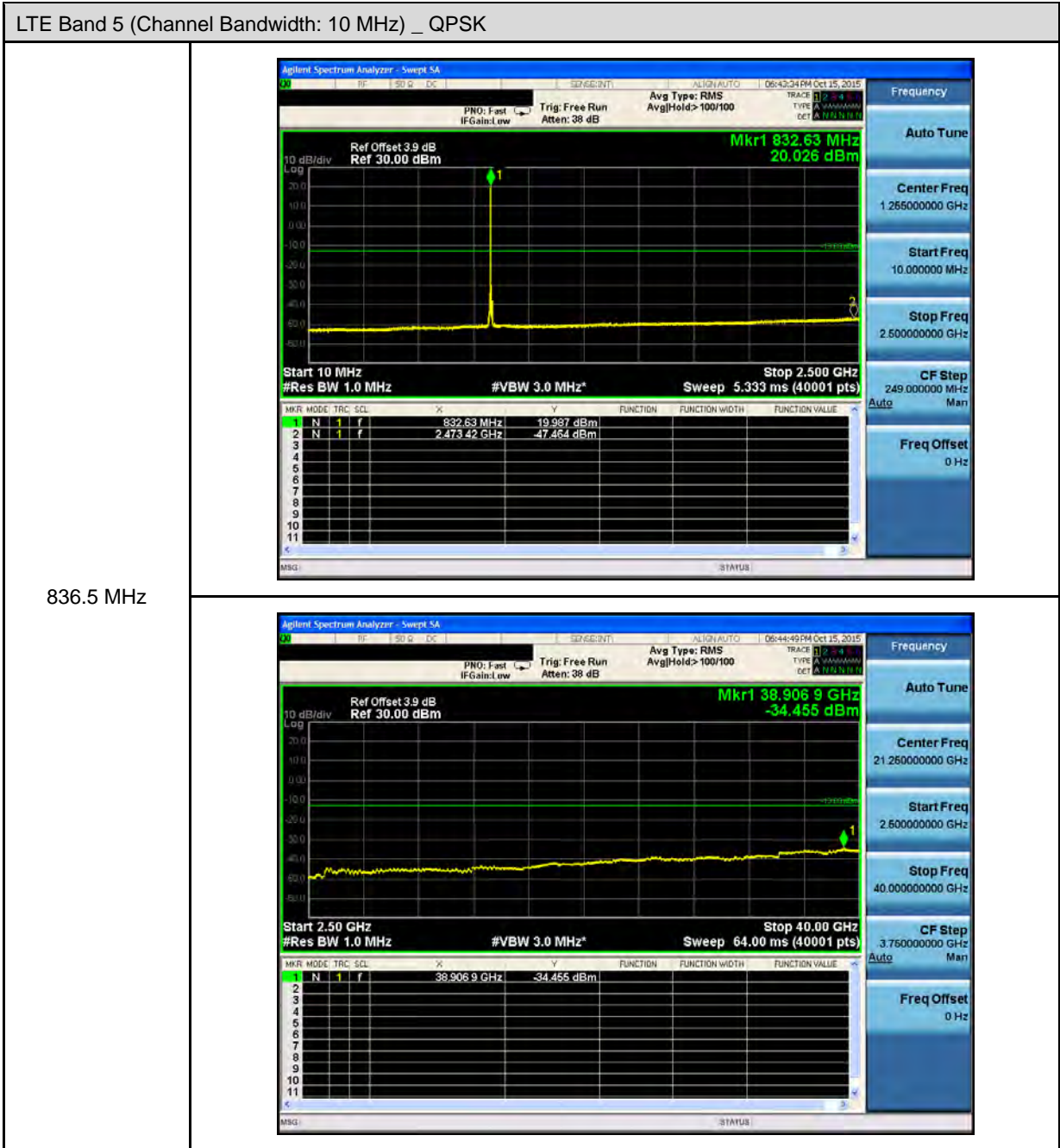


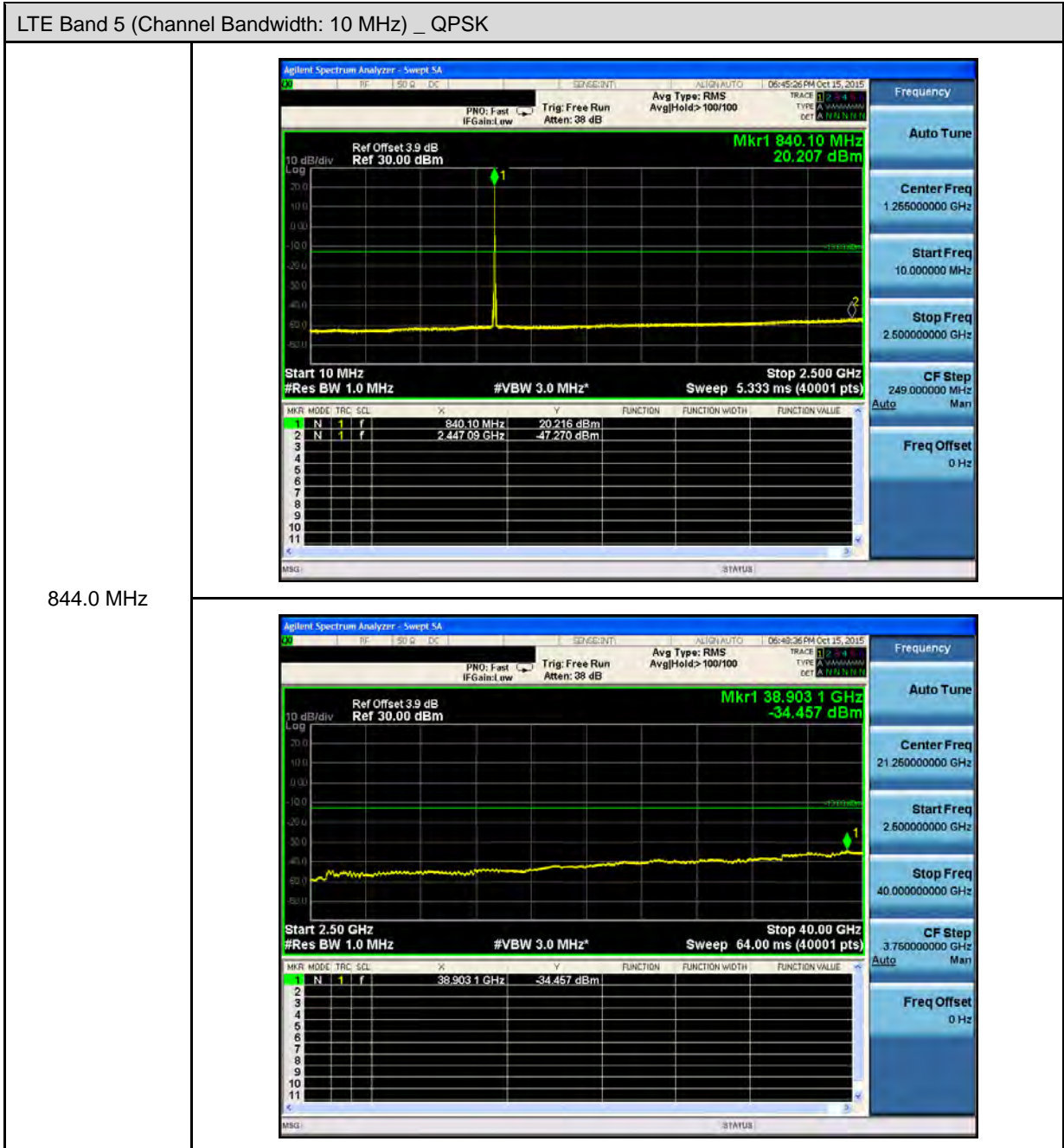


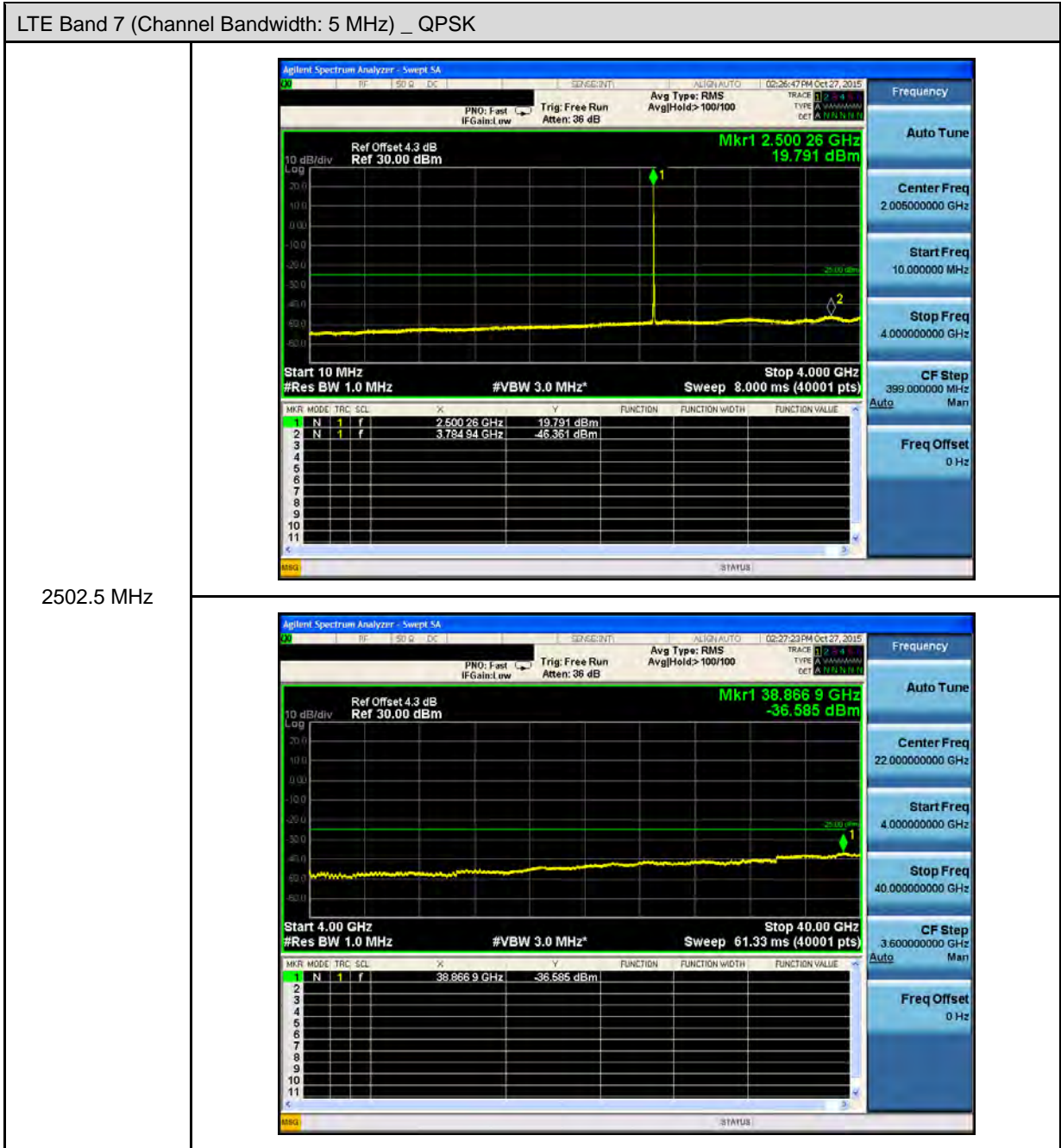


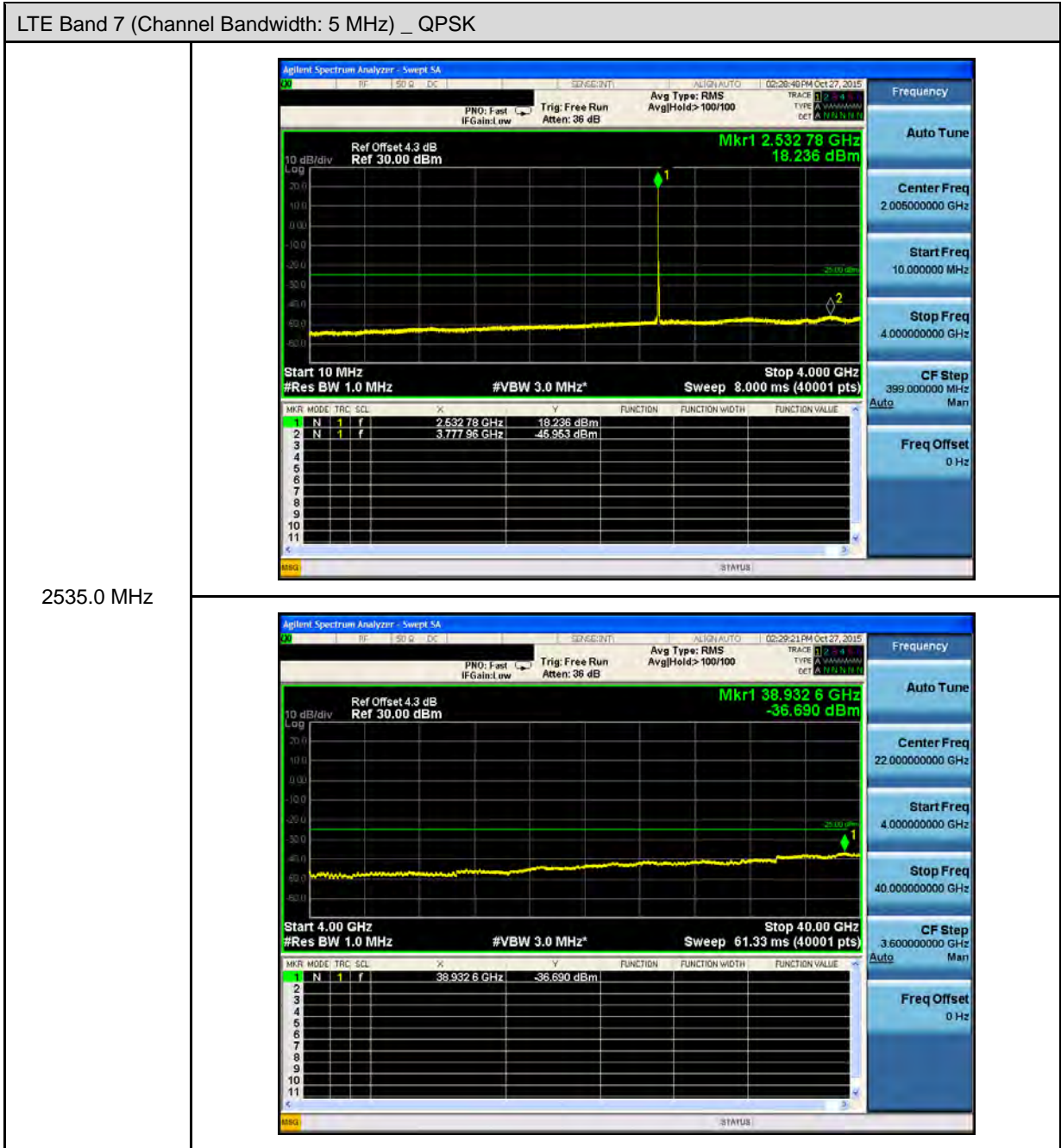


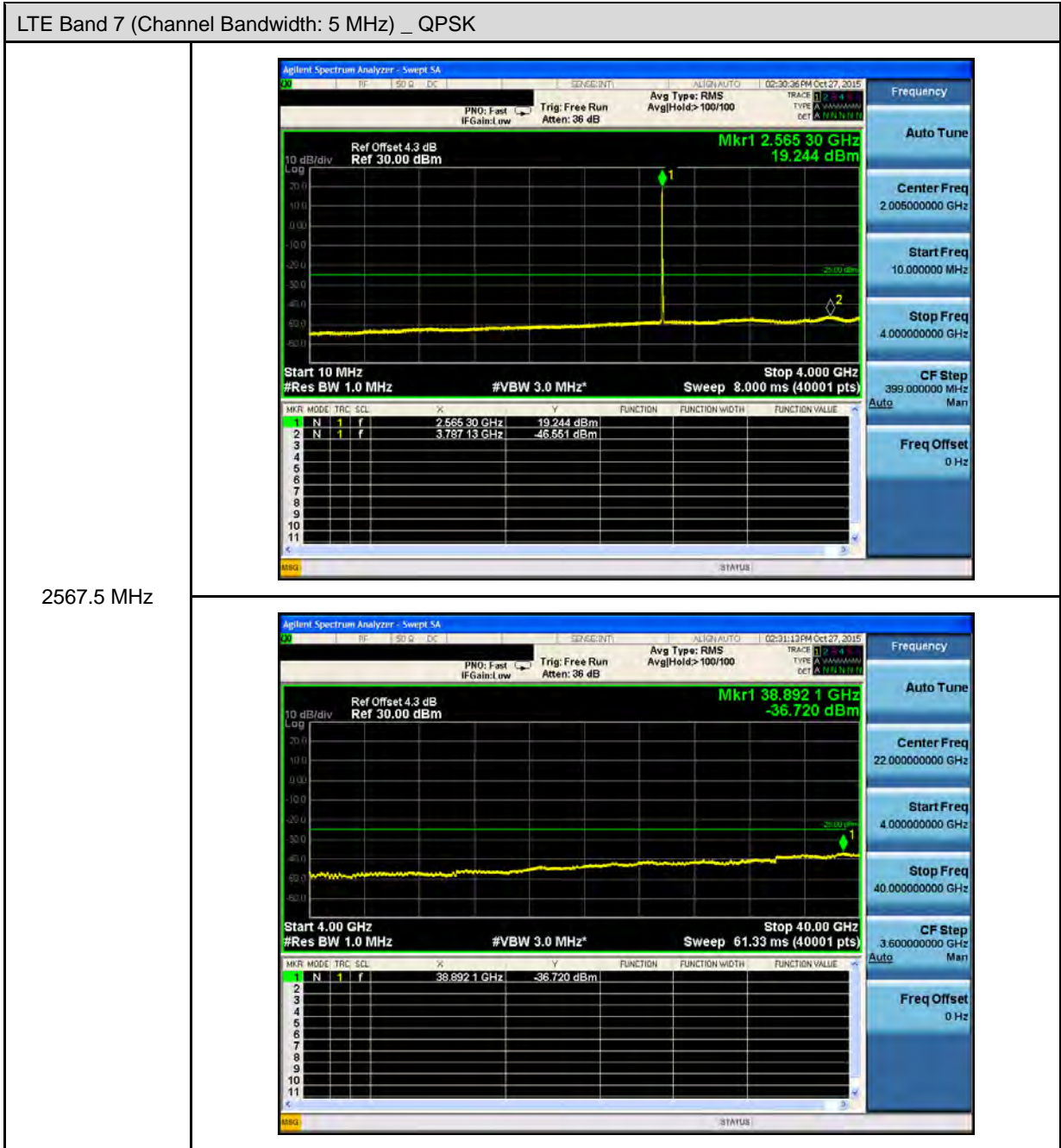


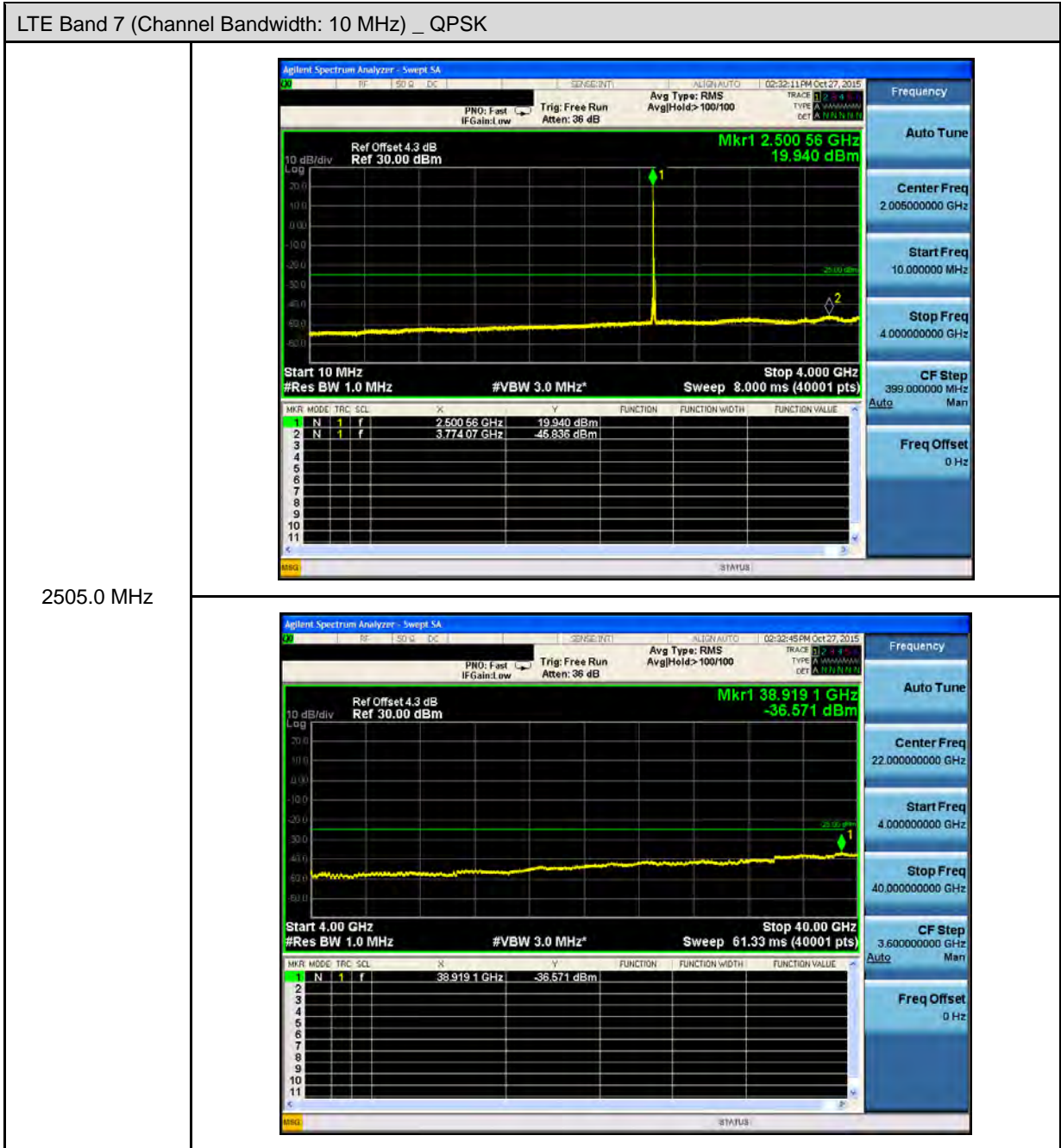


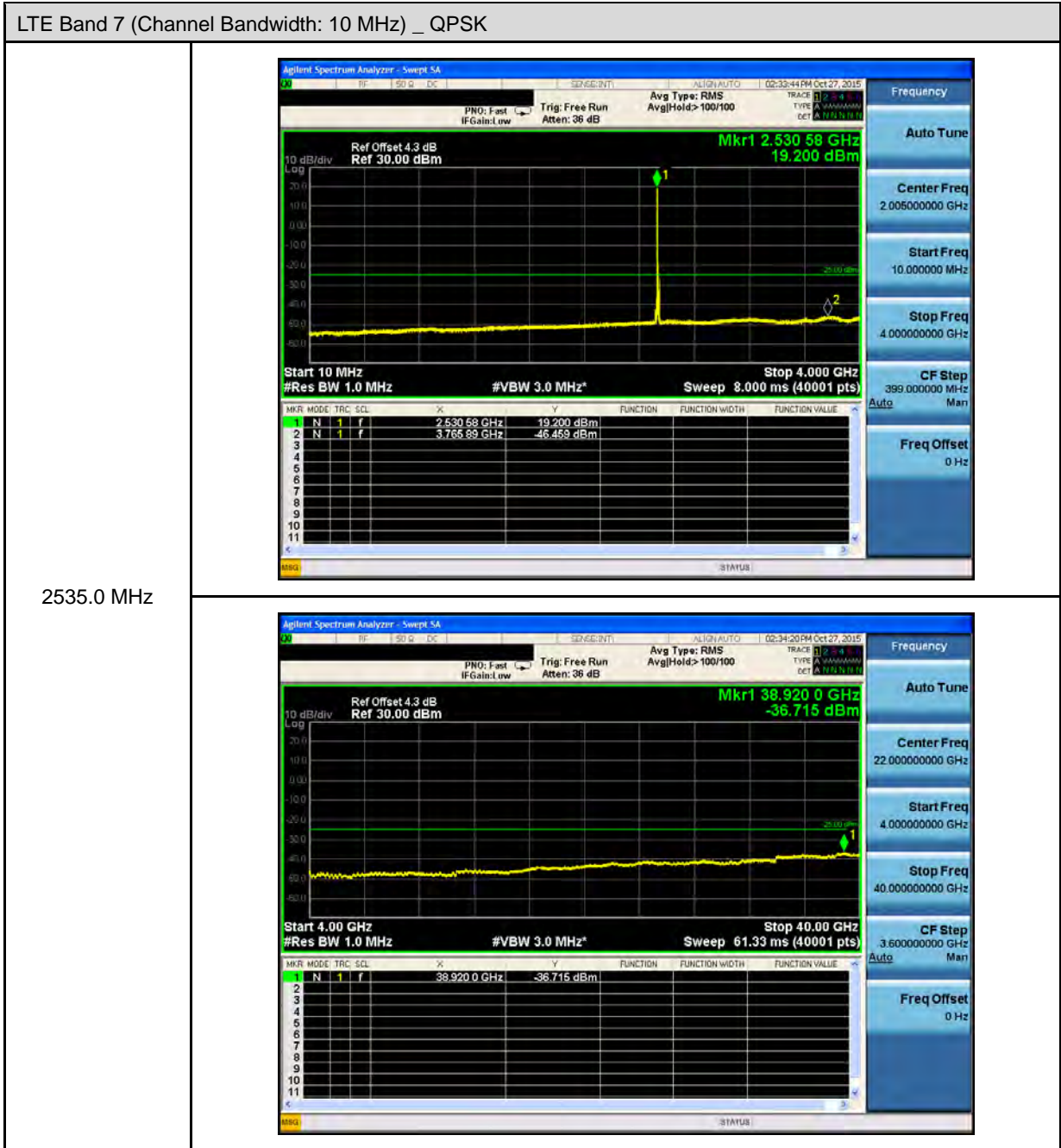


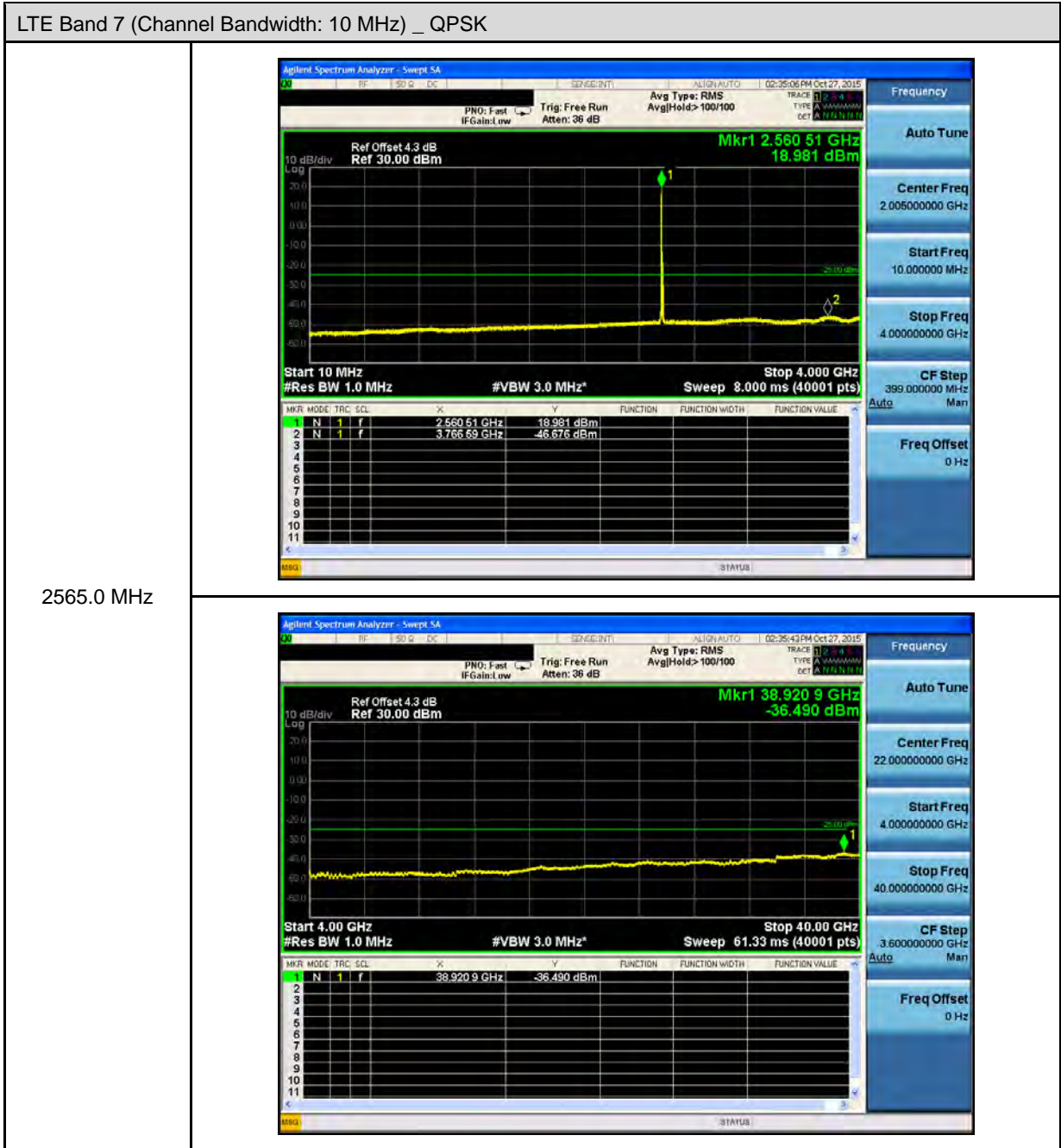


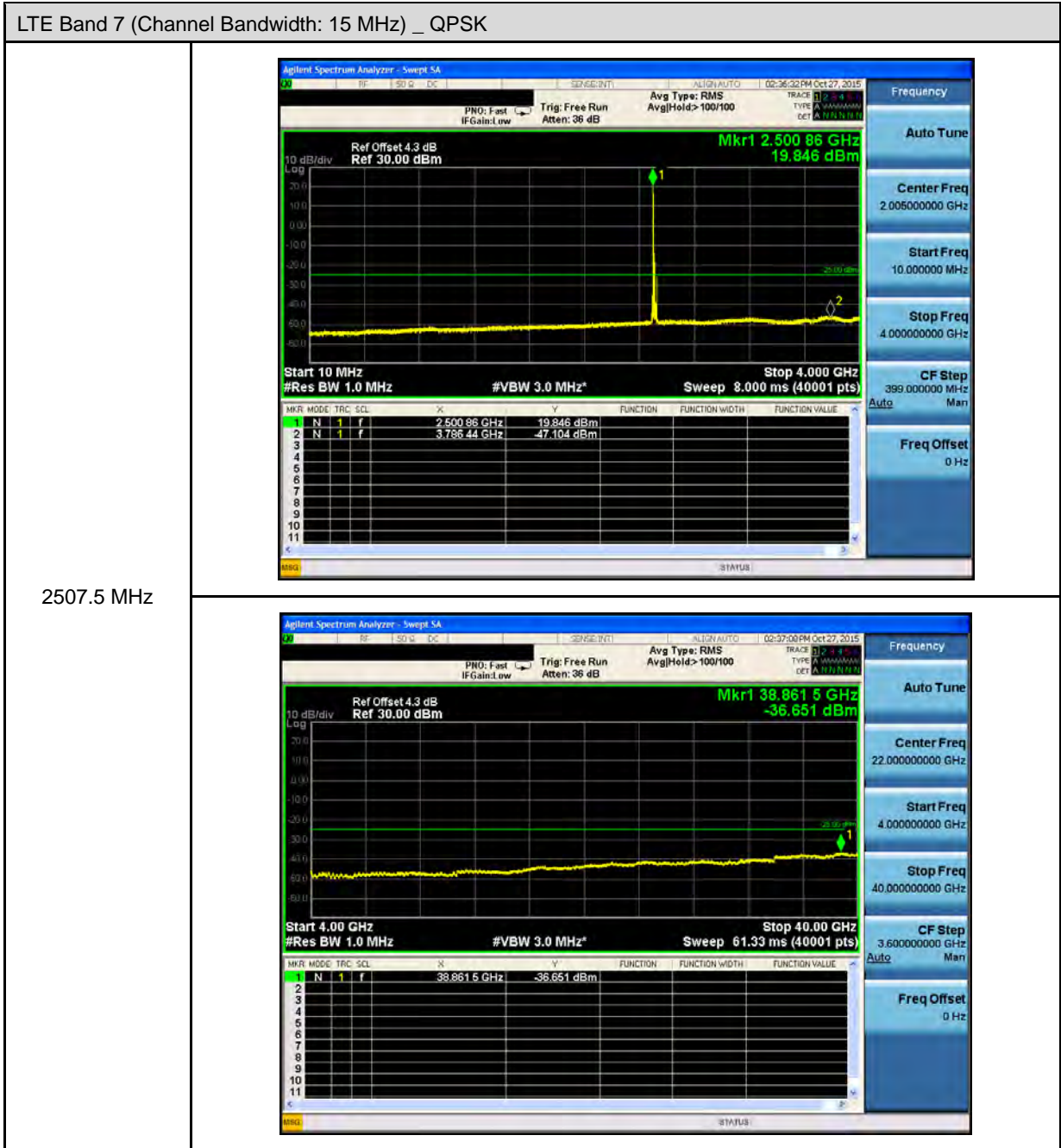


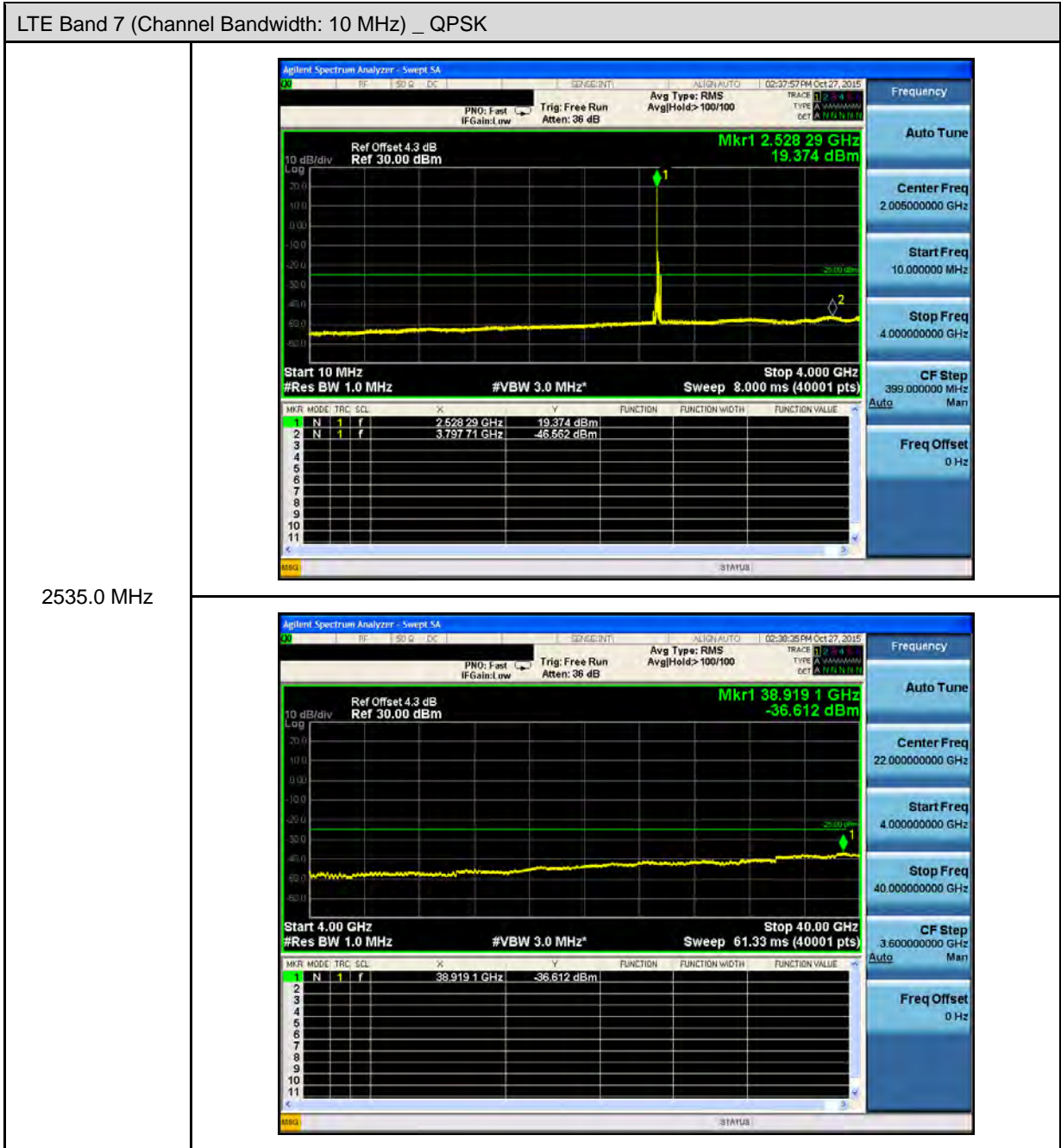


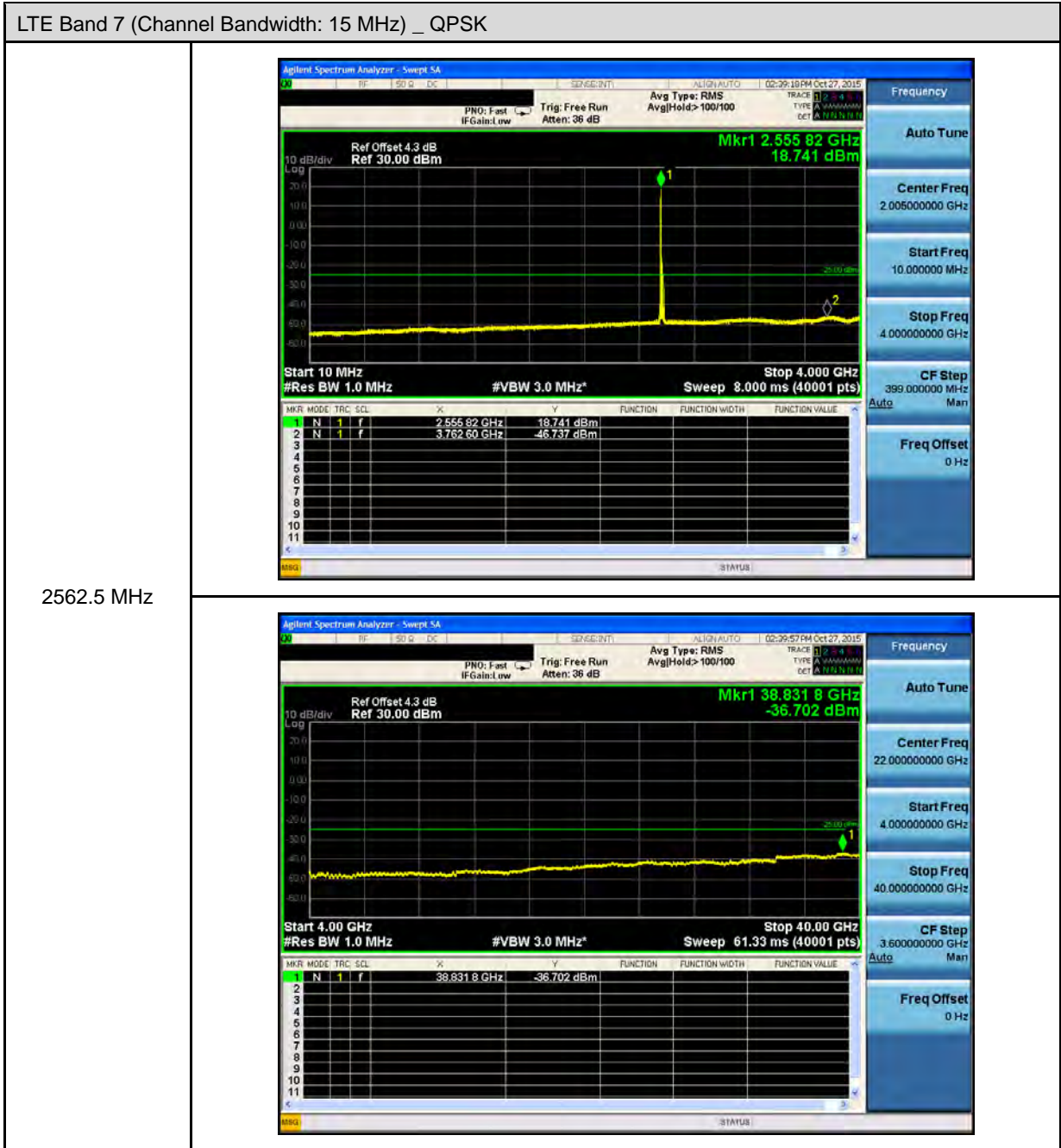


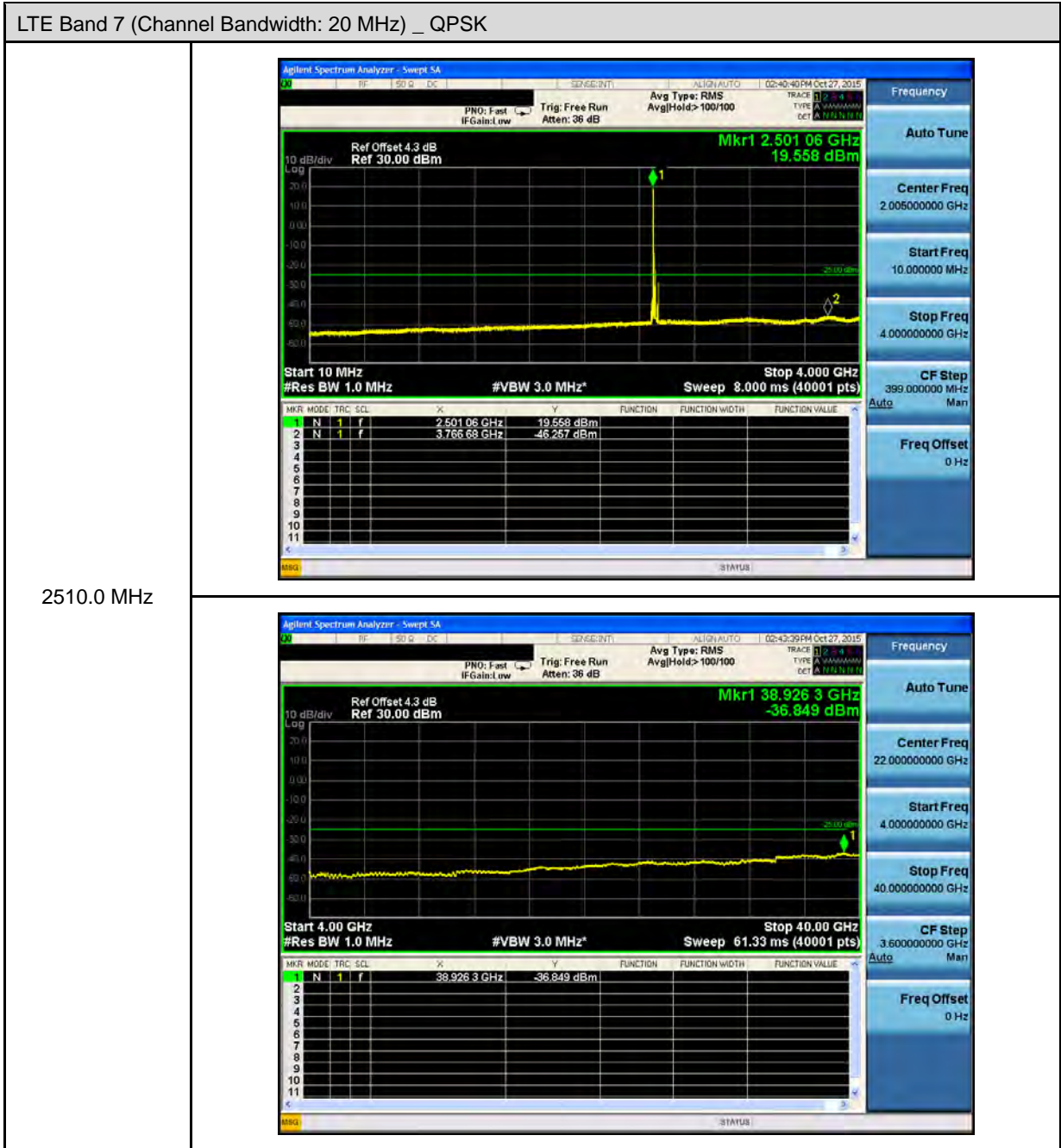


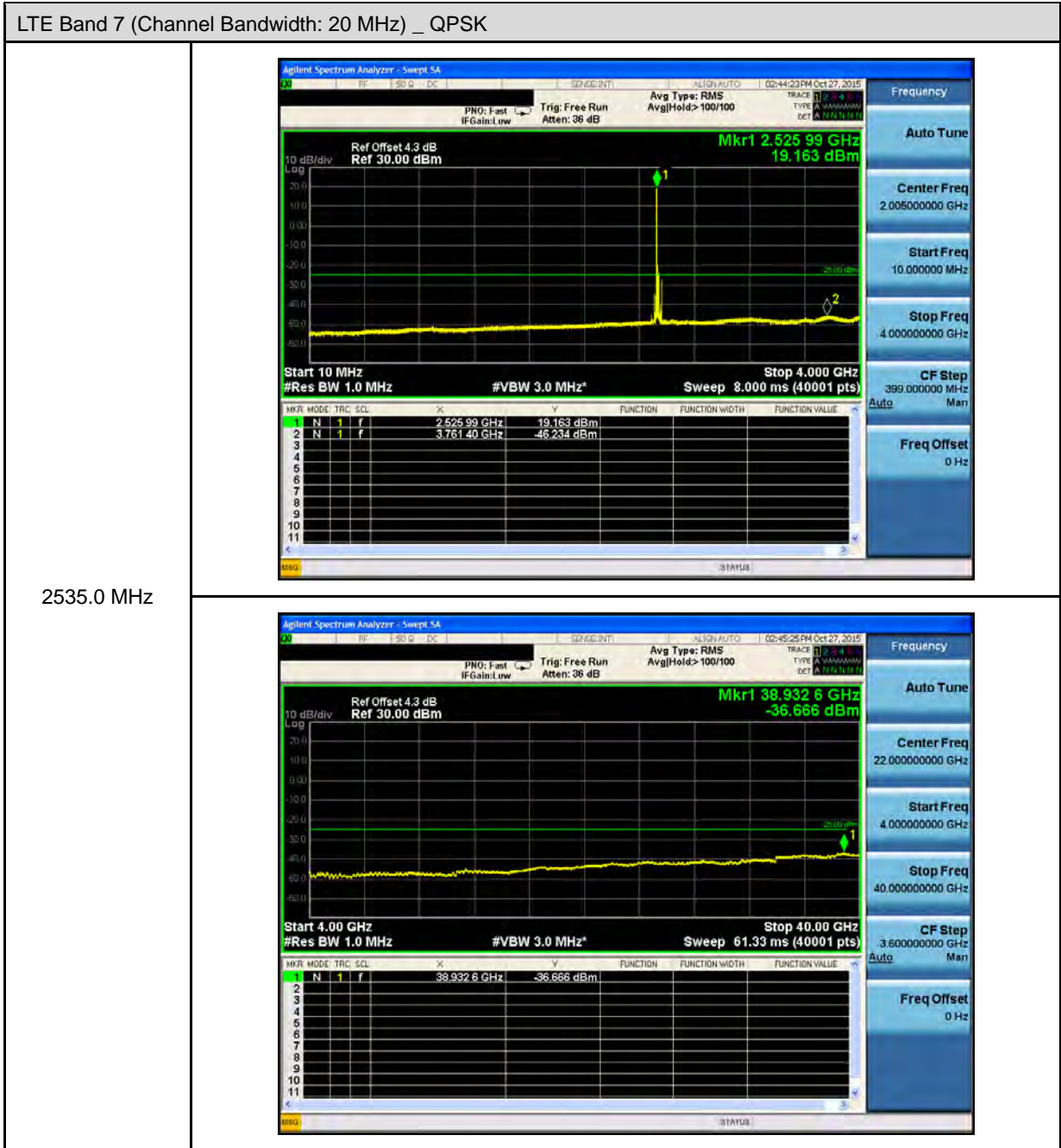


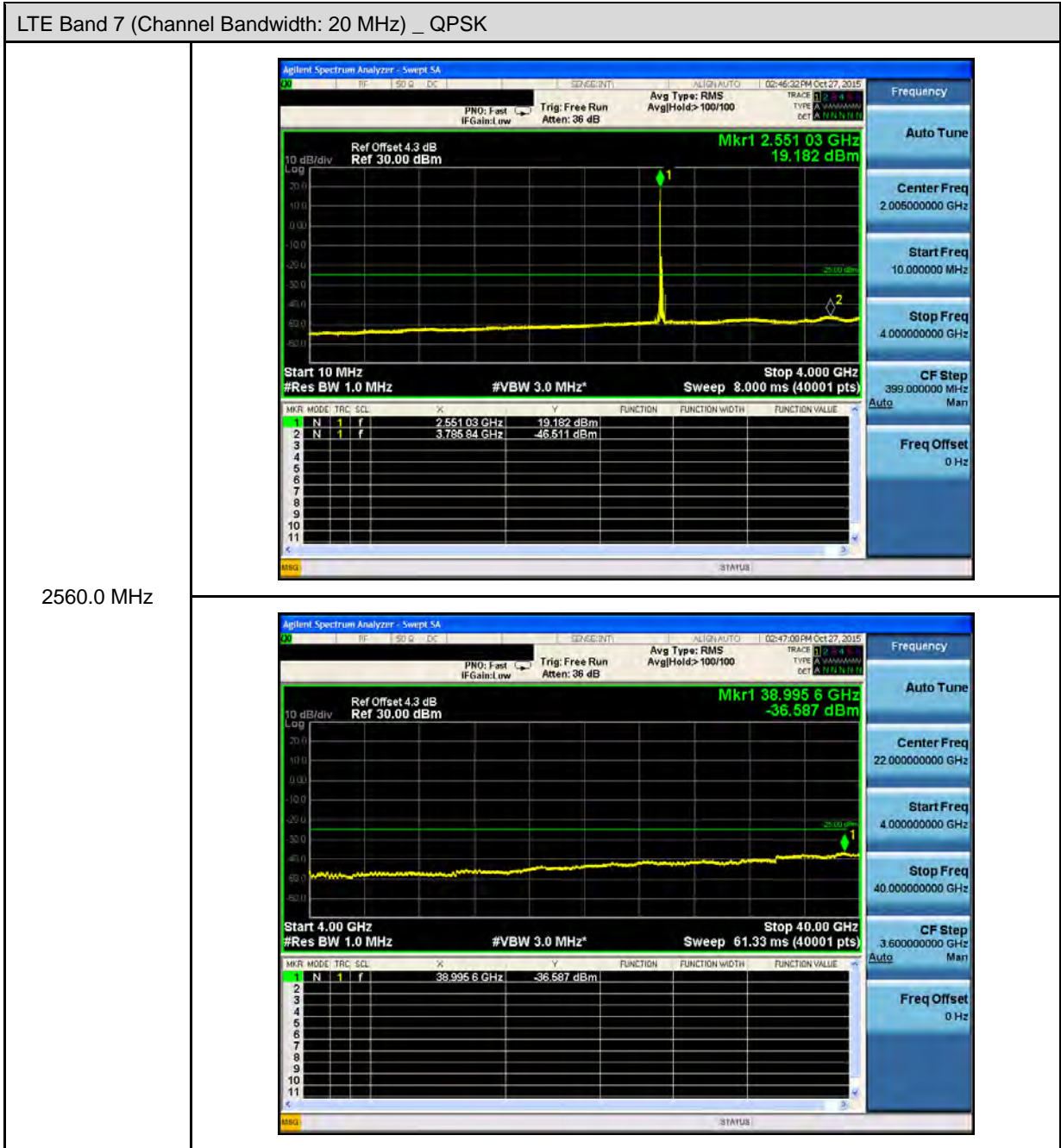


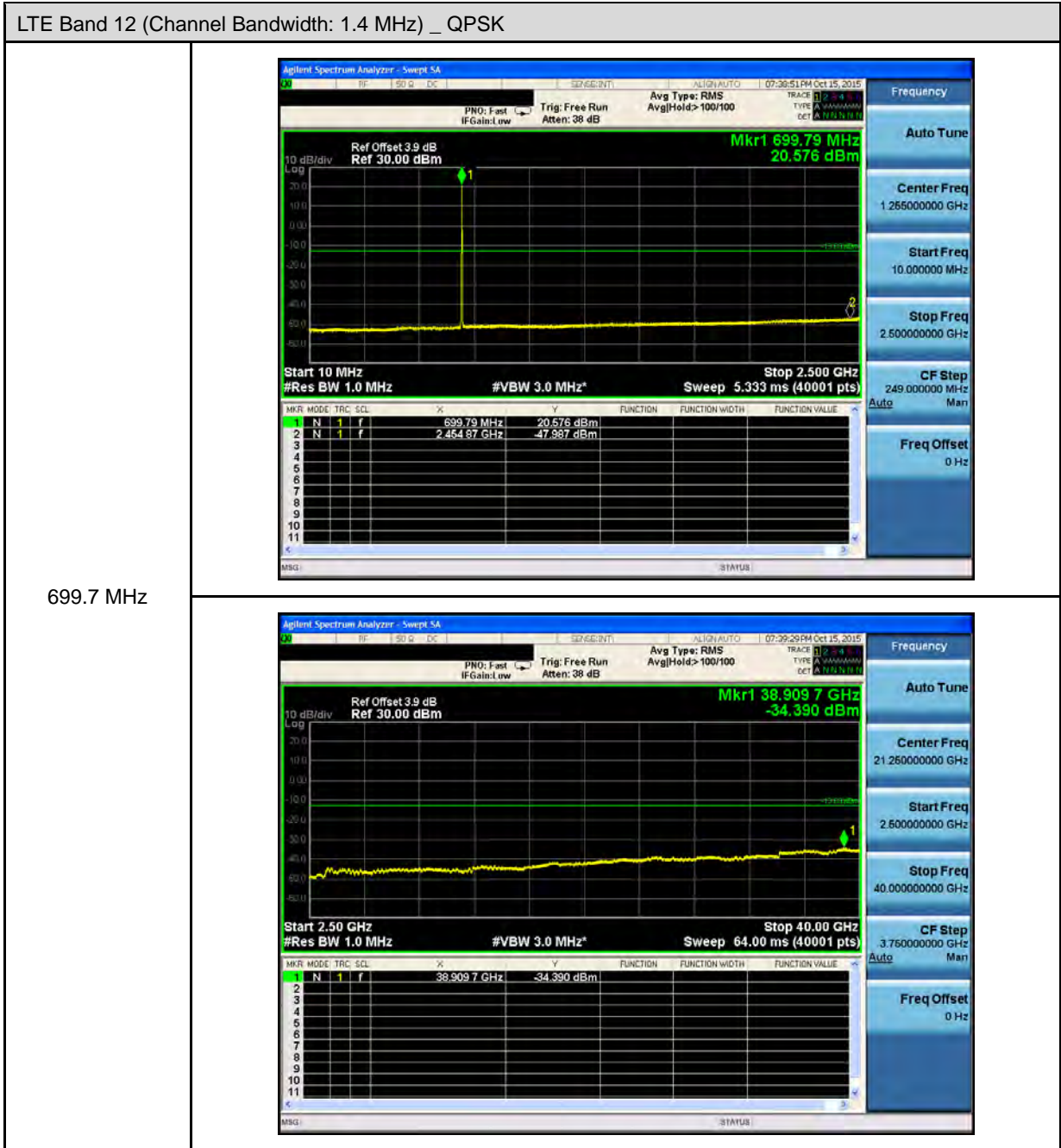


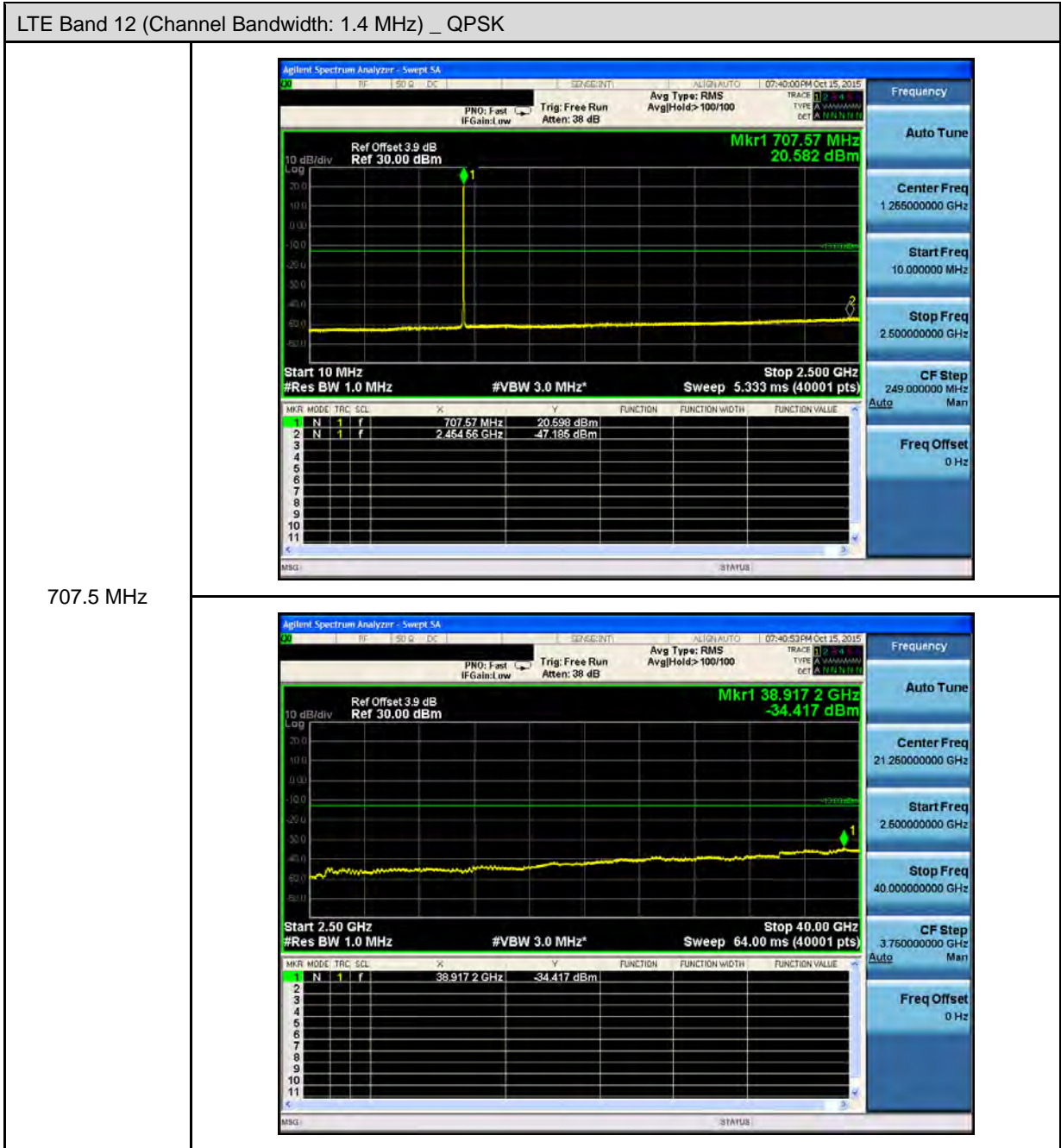


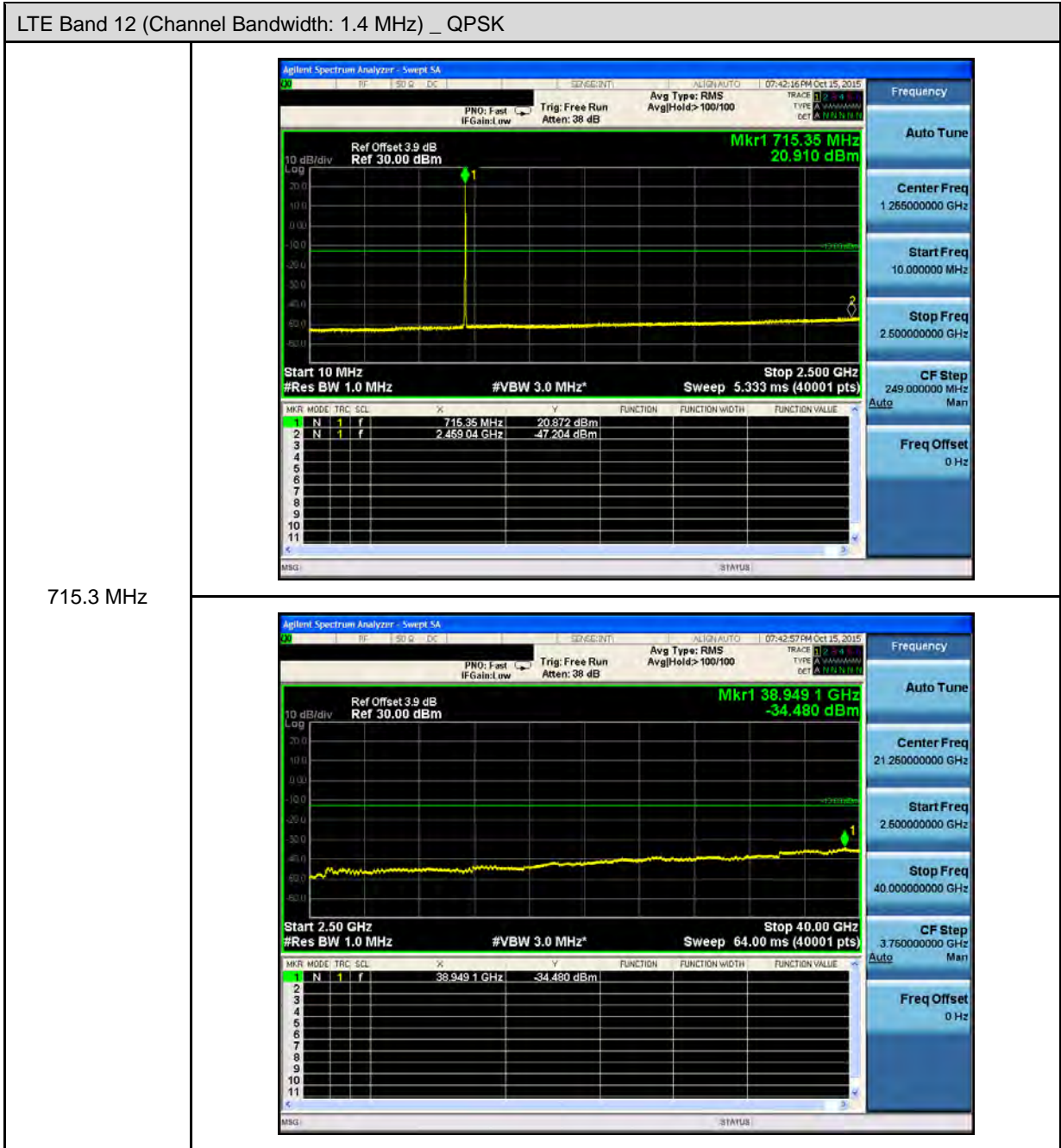


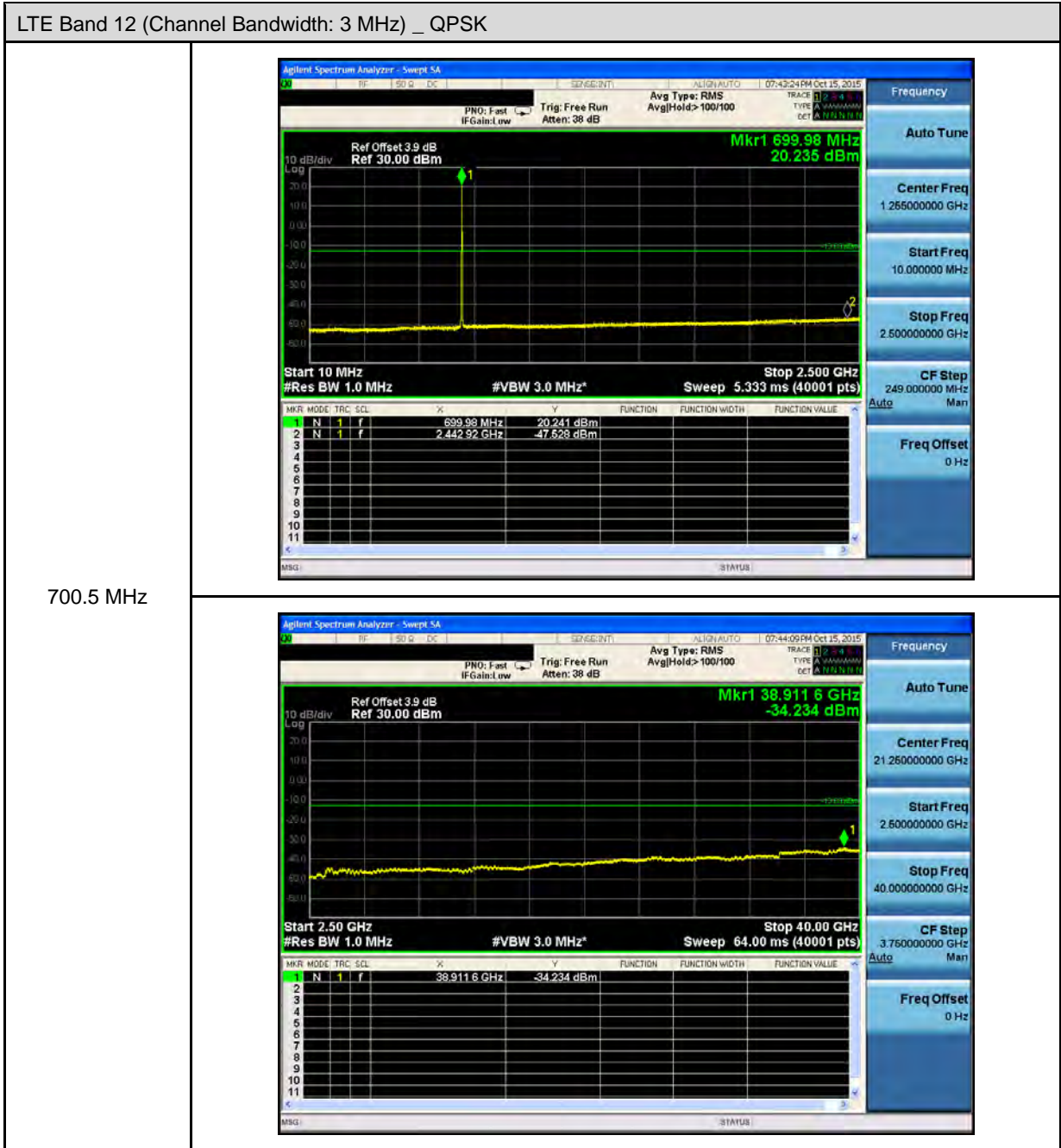


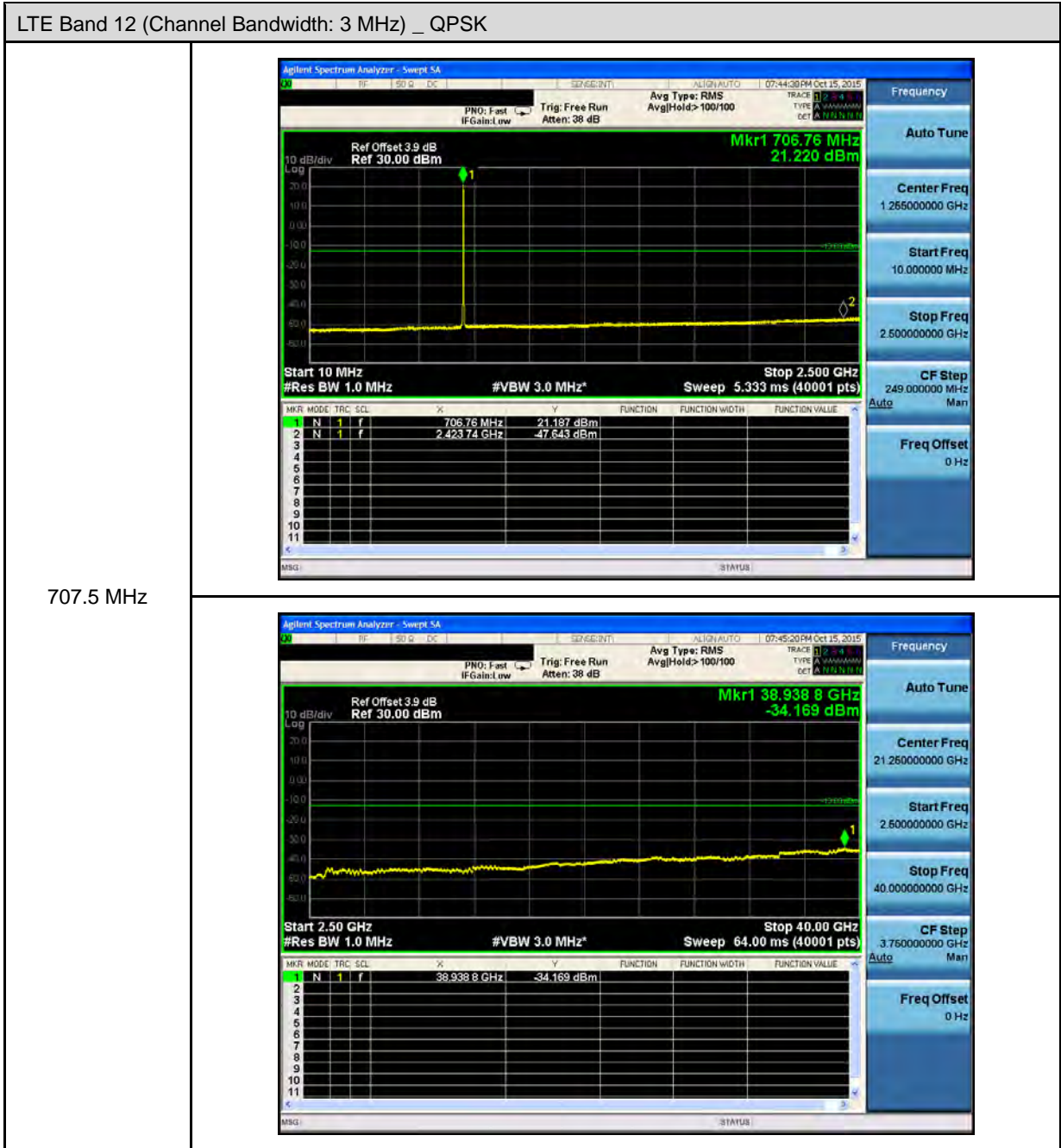


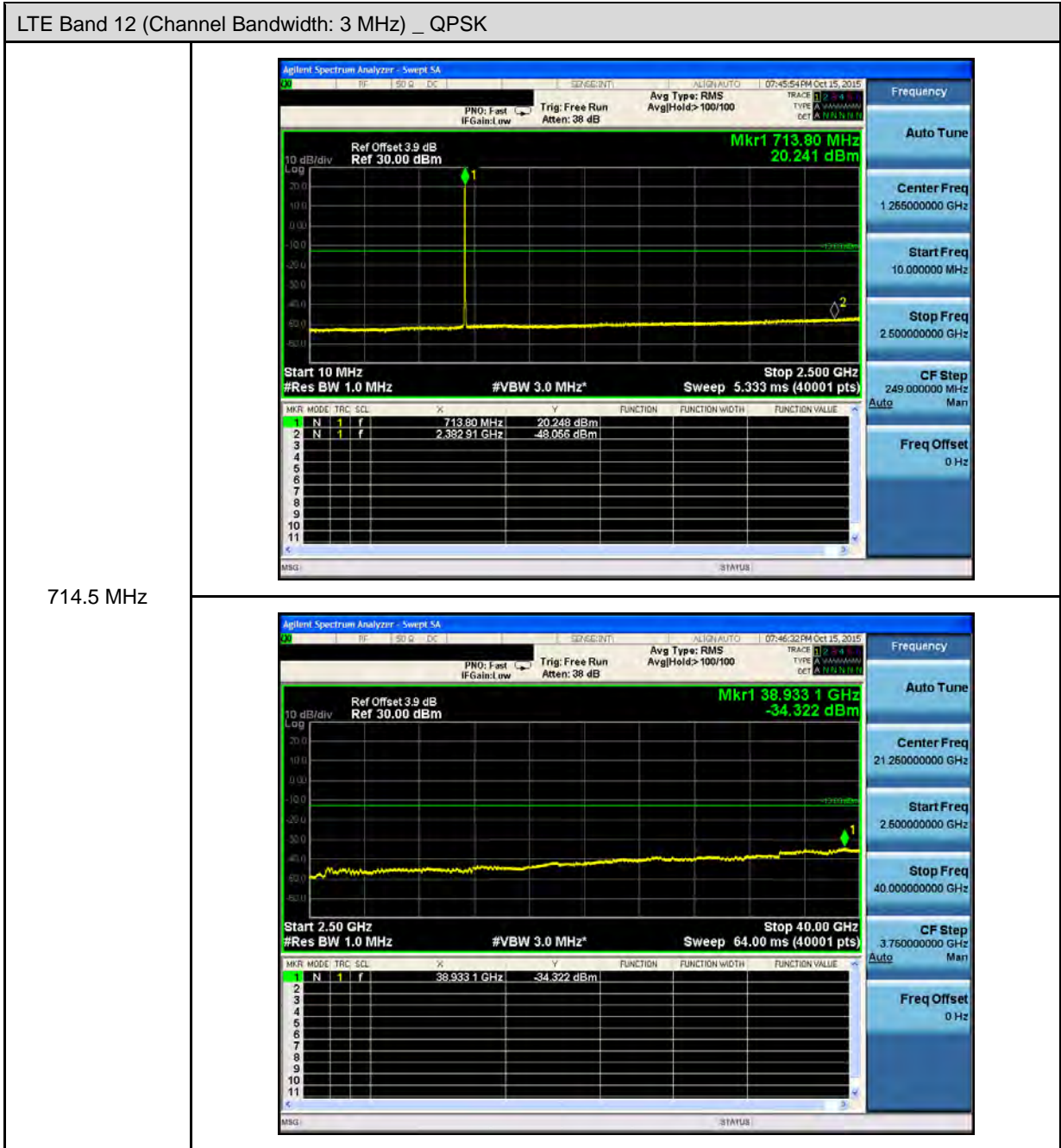


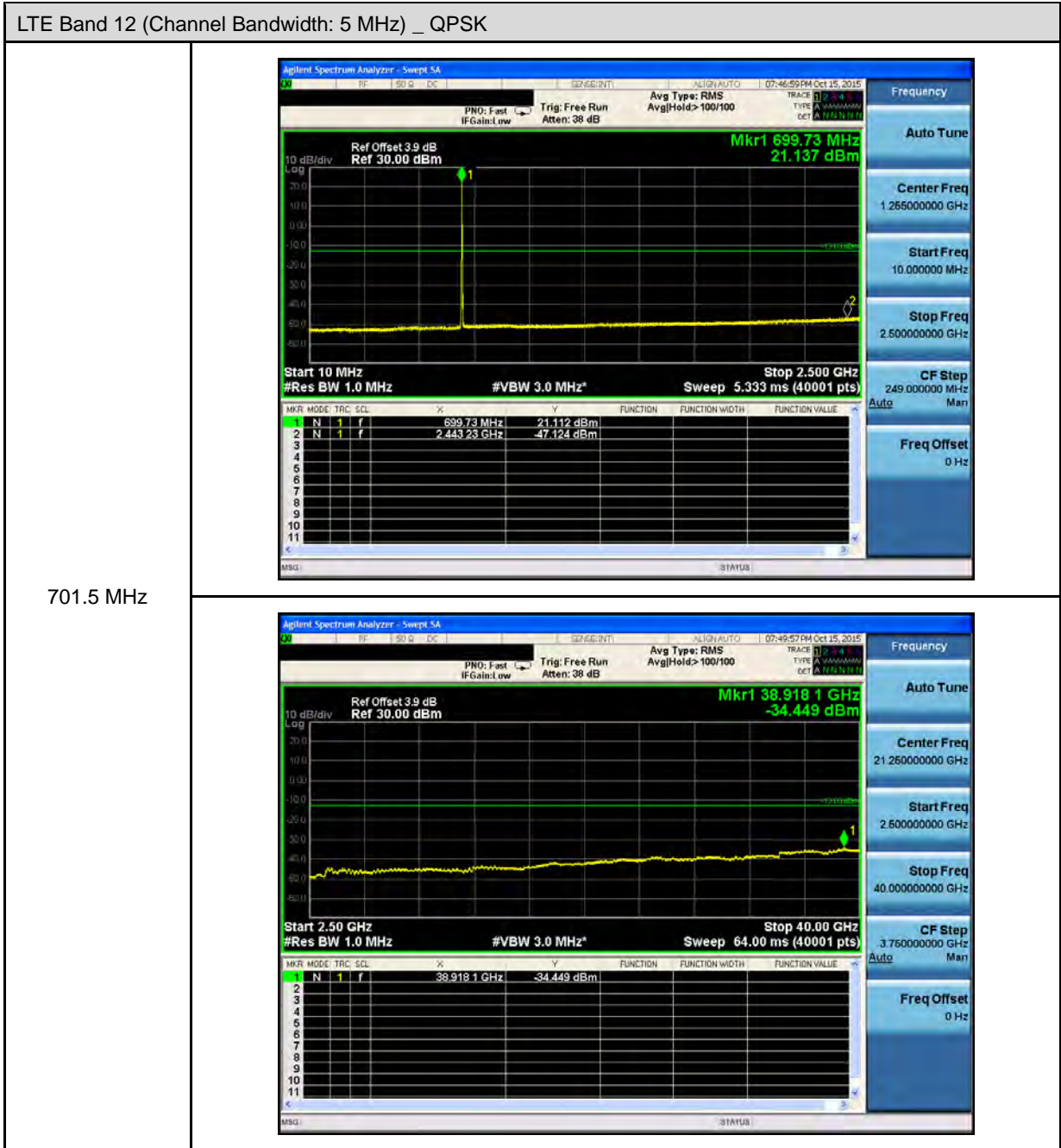


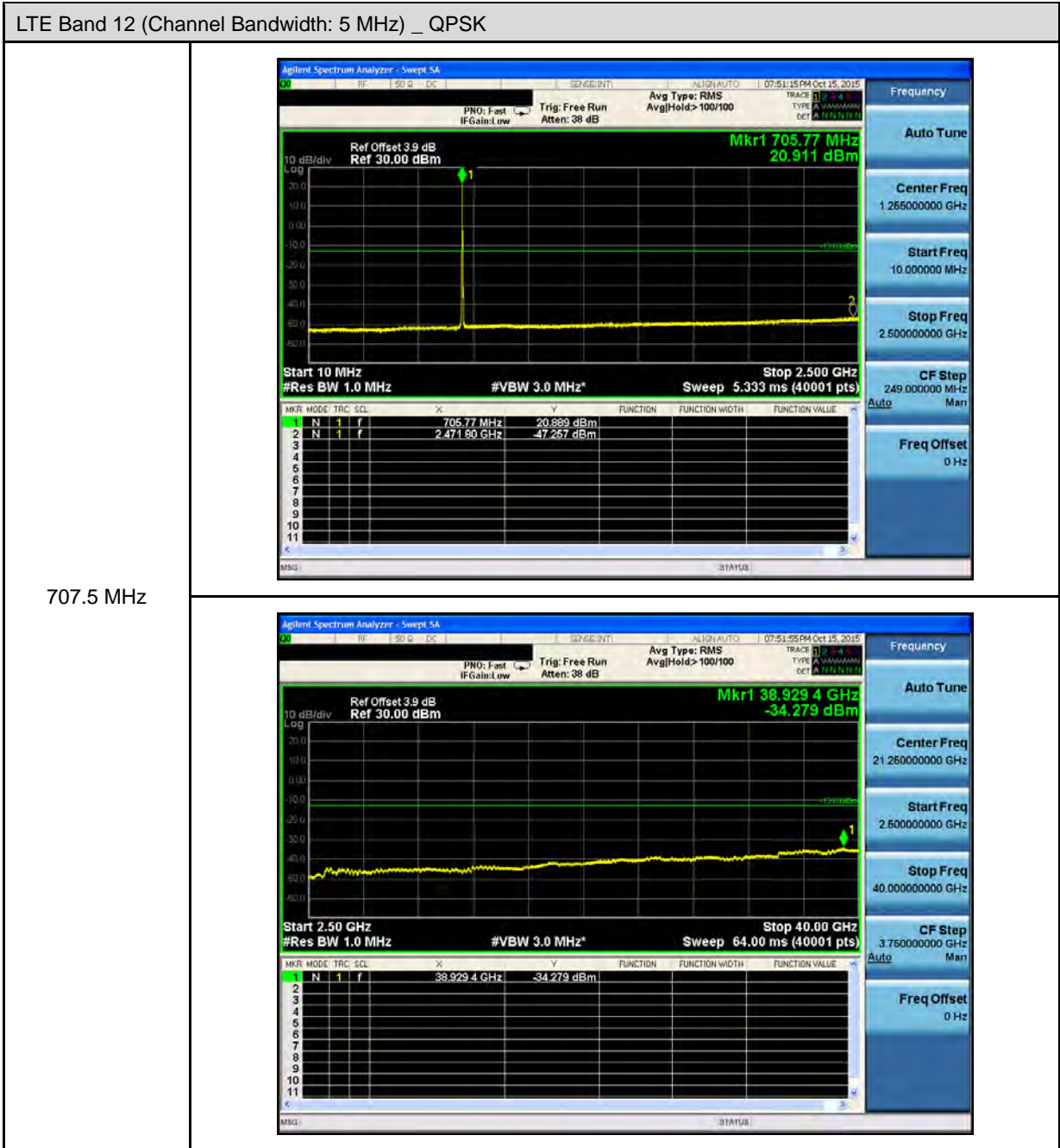


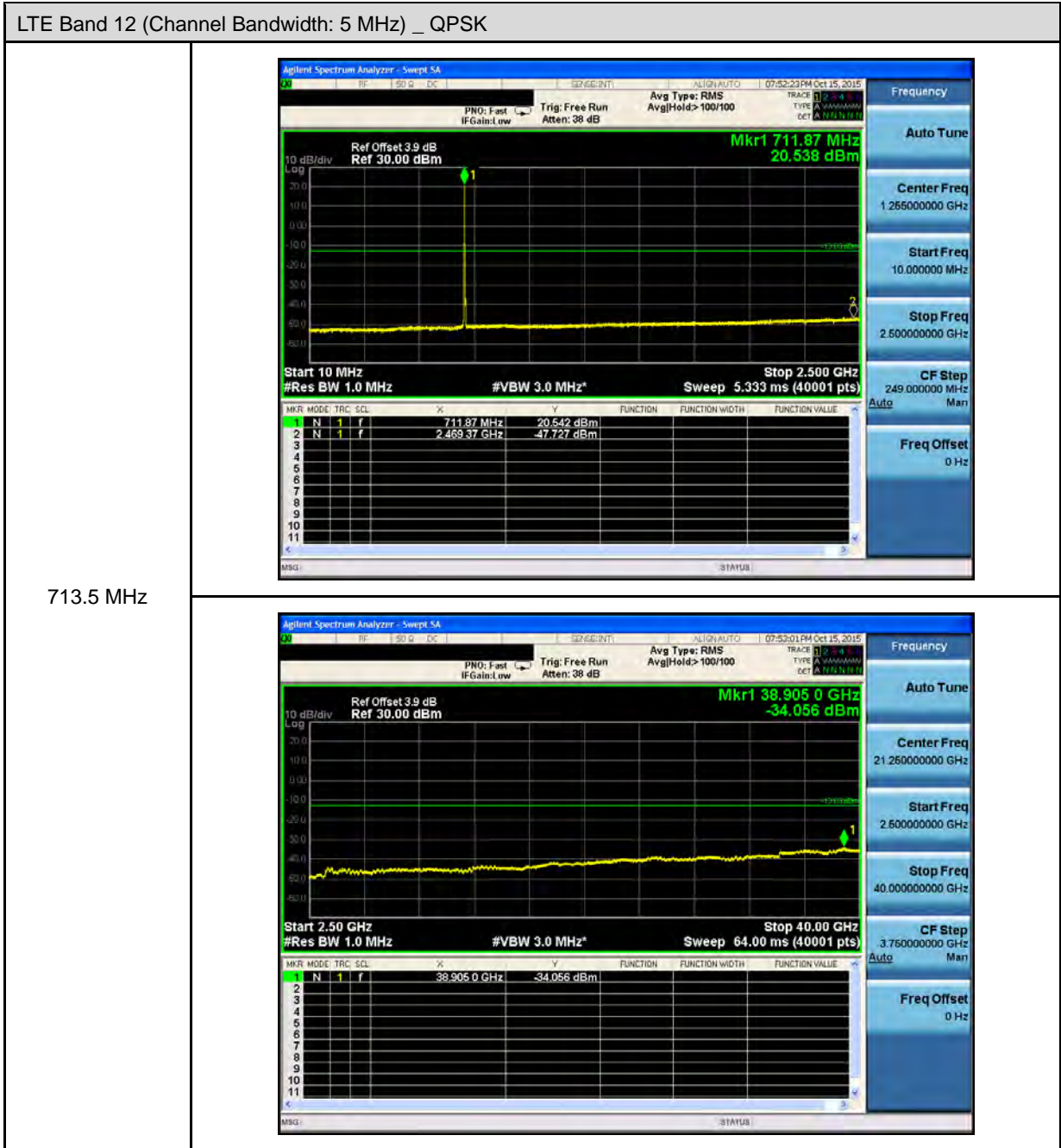


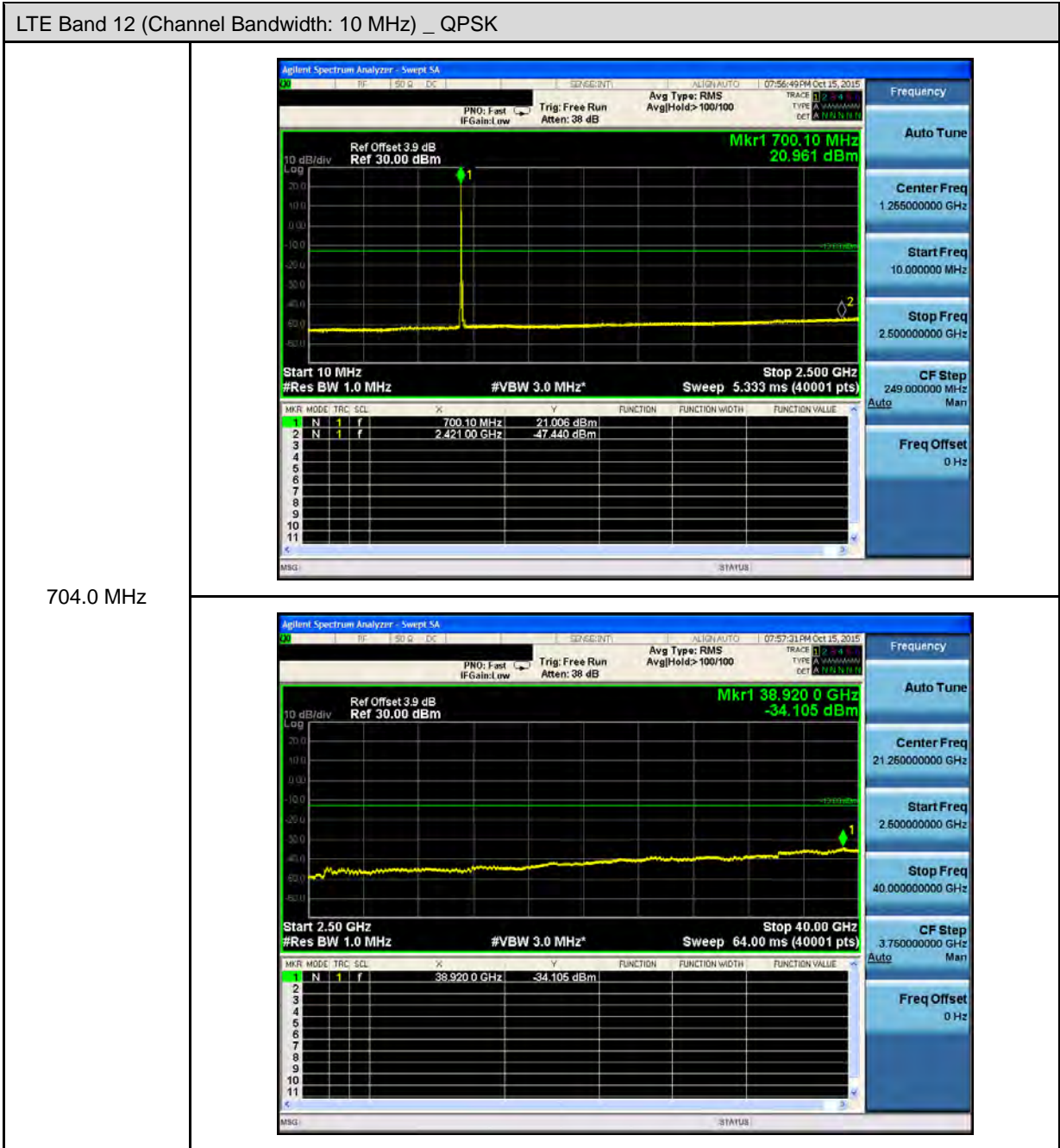


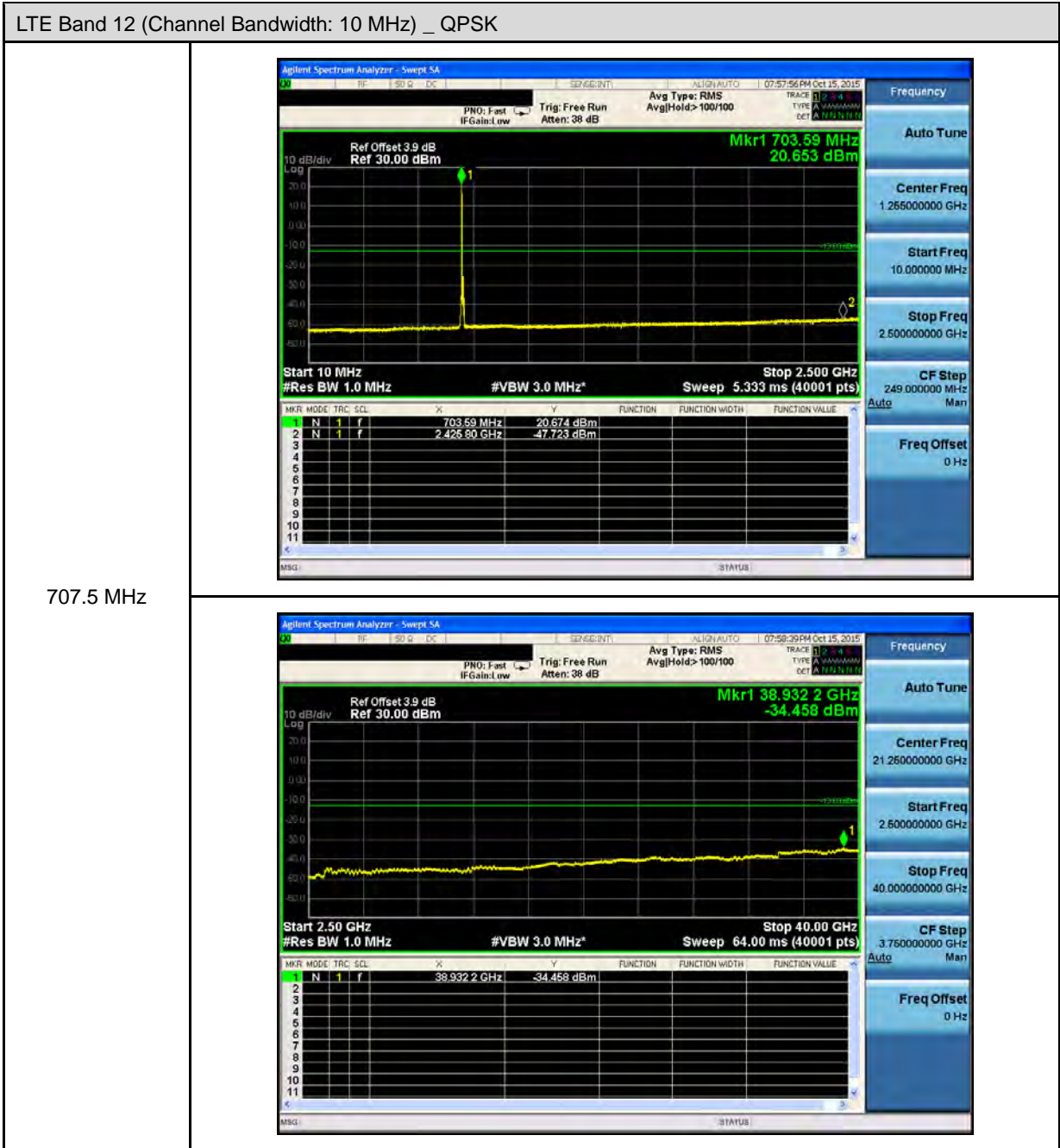


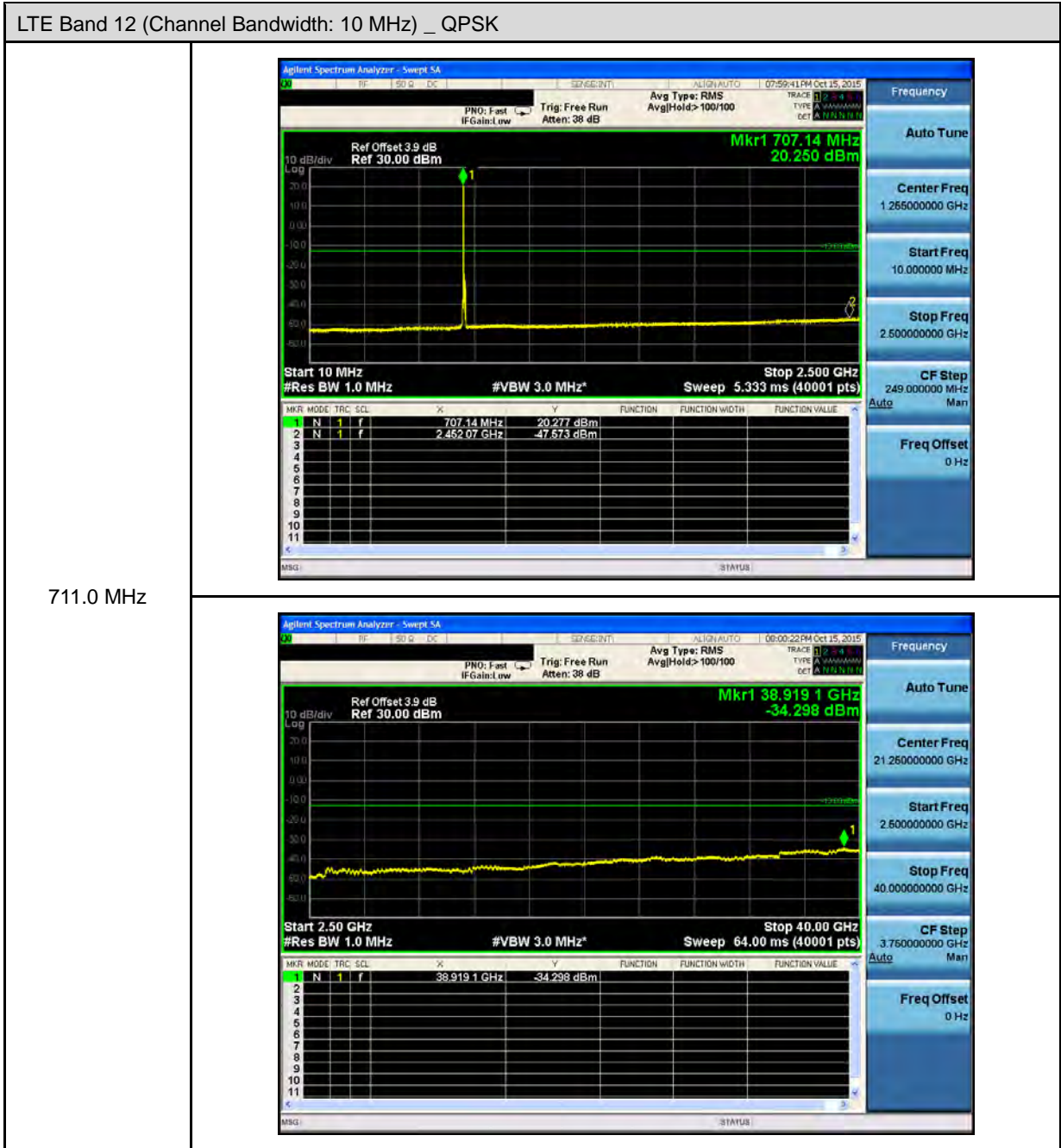


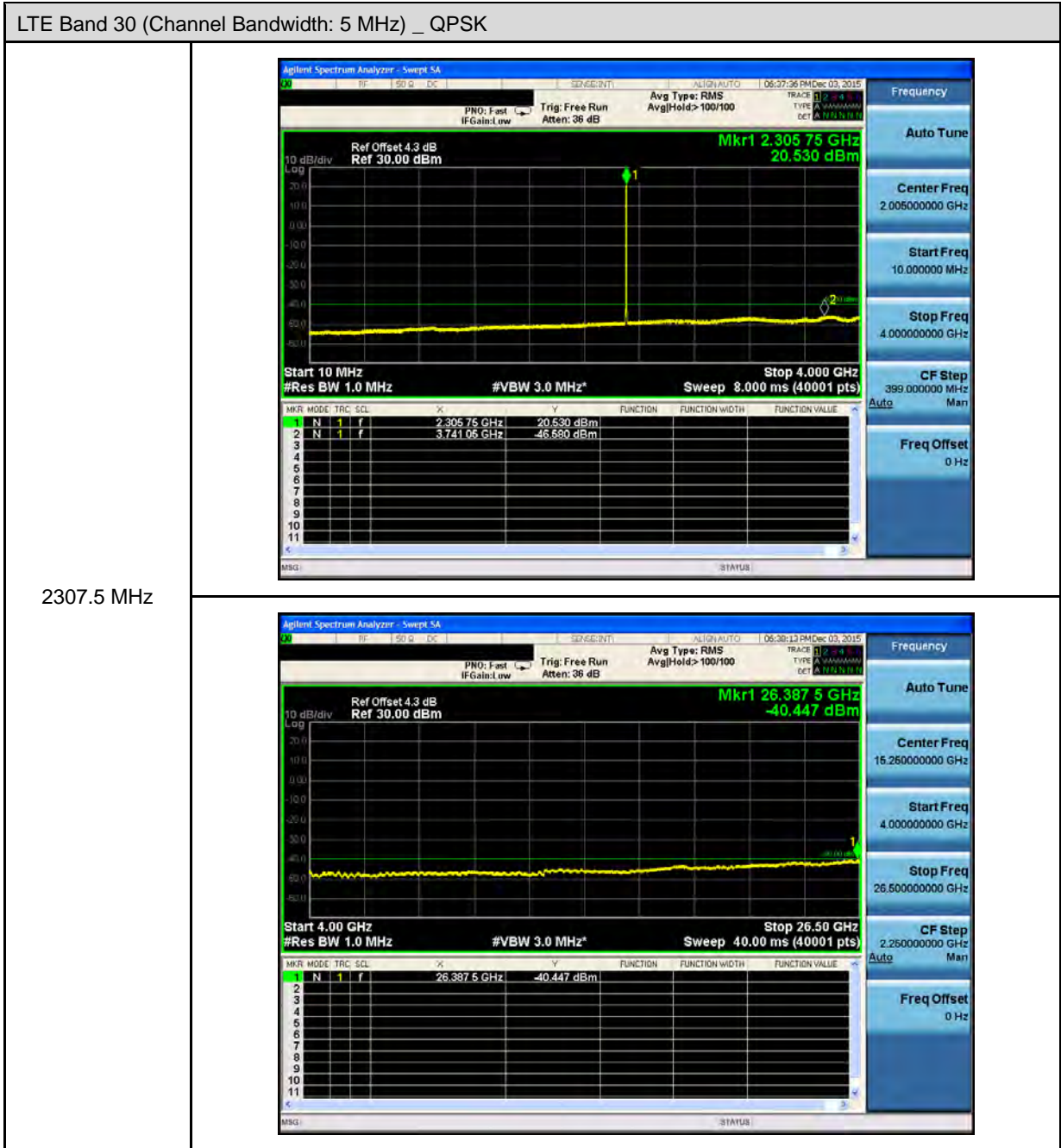


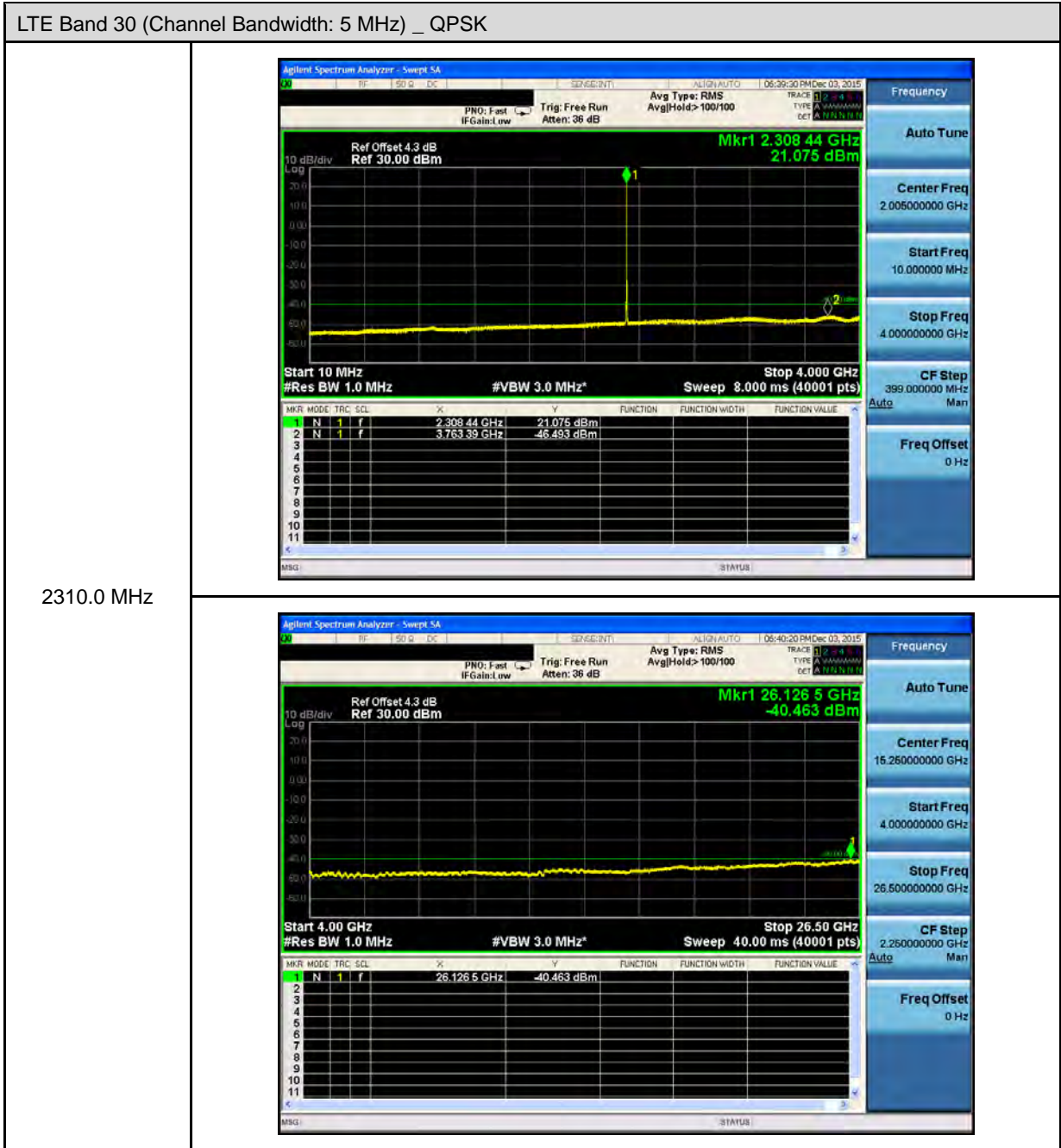


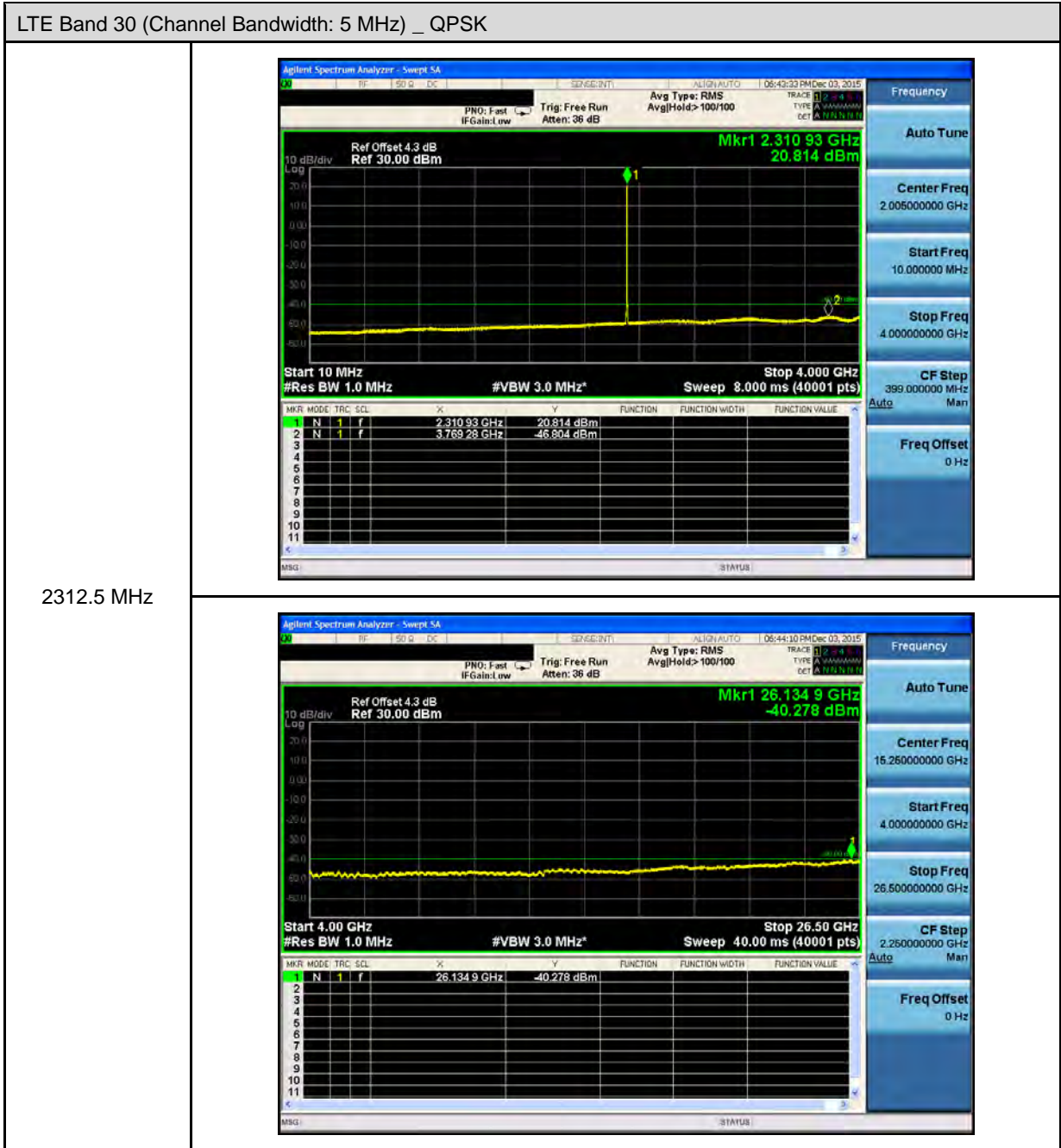


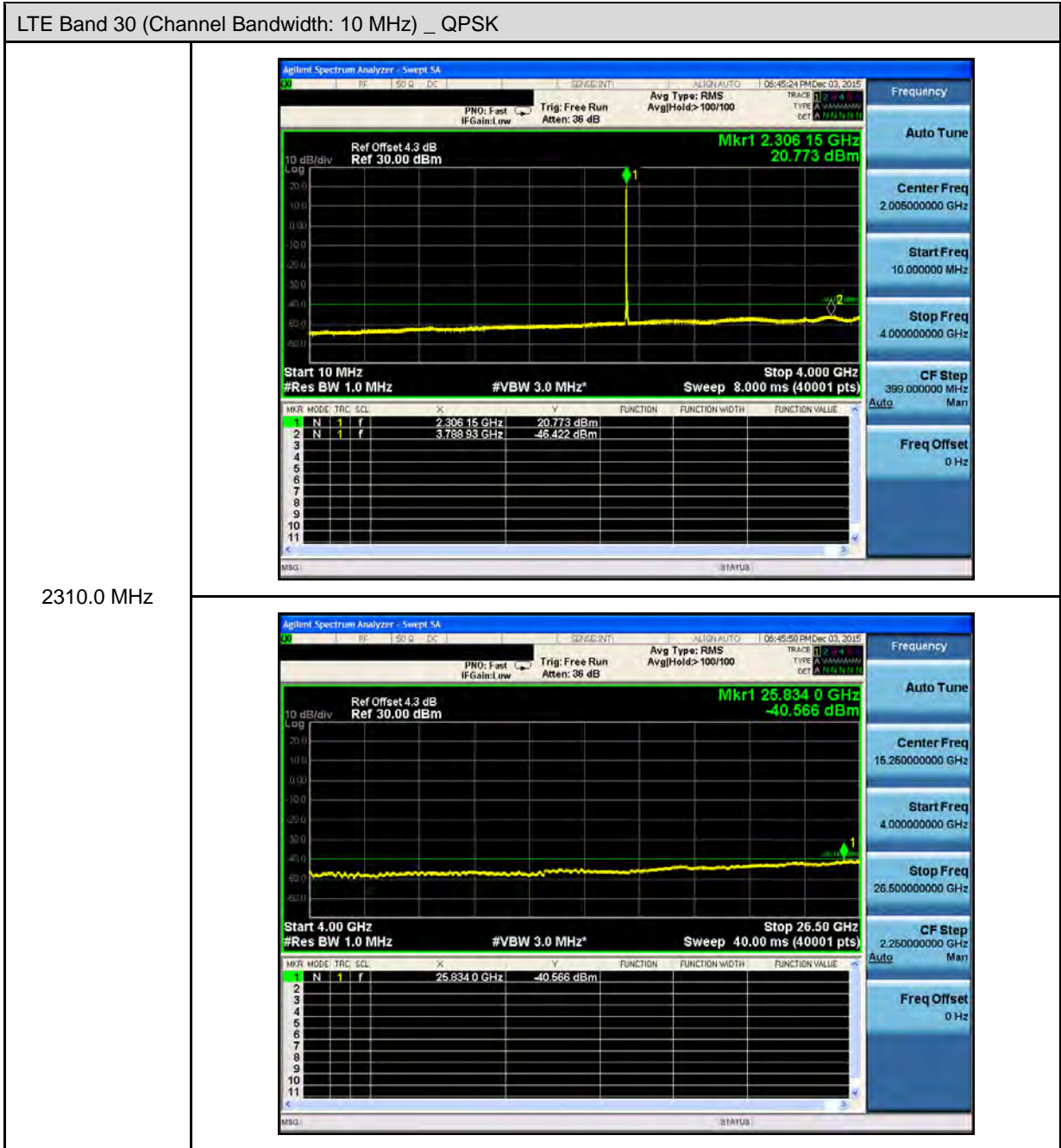












9 Radiated Emission Test

9.1. Limit

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

§27.53(a)(4)

$70 + 10 \log (P)$ dB above 2365 MHz. The limit of emission equal to -40dBm

$70 + 10 \log (P)$ dB below 2288 MHz. The limit of emission equal to -40dBm

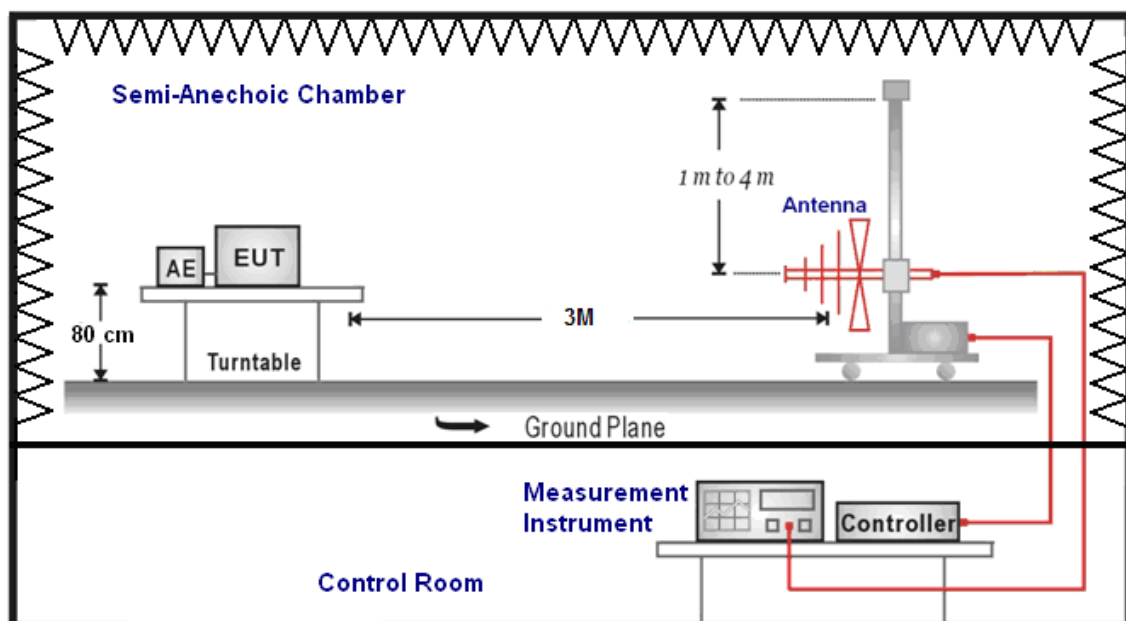
9.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	1 year
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	1 year
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	1 year
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	1 year
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/11/2015	1 year
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	1 year </td
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/06/2015	1 year
Test Site	ATL	TE01	888001	08/27/2015	1 year

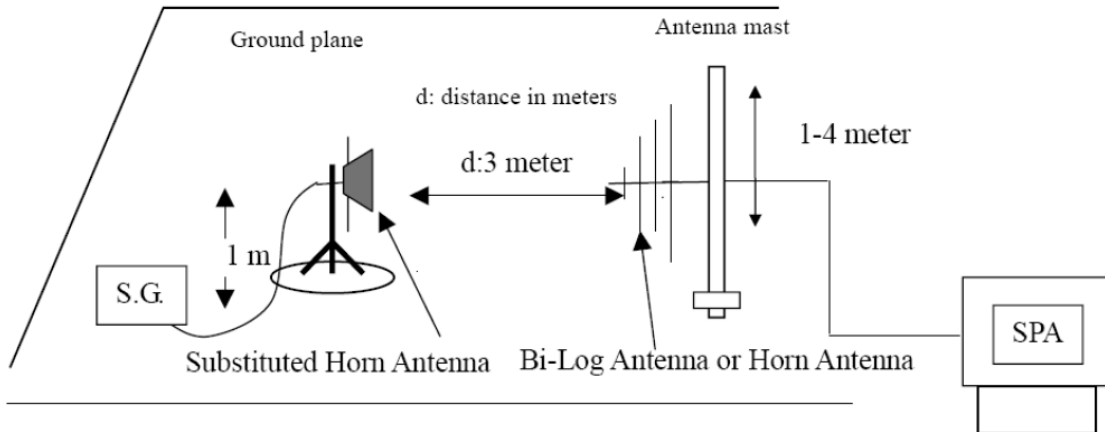
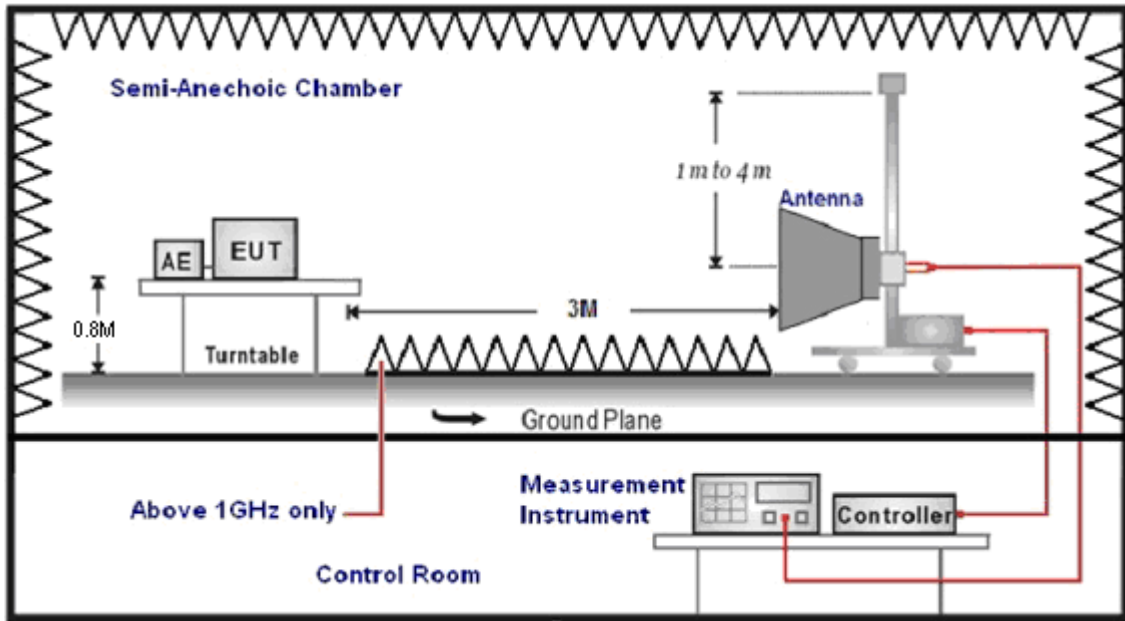
Note: N.C.R. = No Calibration Request.

9.3. Setup

Below 1GHz



Above 1GHz



9.4. Test Procedure

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 1MHz.
- b. Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d. E.I.R.P. = Output power level of S.G - TX cable loss + Antenna gain of substitution horn
- e. E.R.P. = E.I.R.P- 2.15 dB

9.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

9.6. Test Result

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1850.7 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7240.000	-77.64	30.90	-46.74	-13.00	-33.74	peak	H
1	6508.000	-79.65	28.69	-50.96	-13.00	-37.96	peak	V

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6208.000	-78.63	26.92	-51.71	-13.00	-38.71	peak	H
1	6328.000	-79.41	27.64	-51.77	-13.00	-38.77	peak	V

Frequency: 1909.3 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6328.000	-78.56	27.64	-50.92	-13.00	-37.92	peak	H
1	6628.000	-77.09	29.02	-48.07	-13.00	-35.07	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1851.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5524.000	-78.81	23.81	-55.00	-13.00	-42.00	peak	H
1	5020.000	-79.27	22.56	-56.71	-13.00	-43.71	peak	V

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4780.000	-78.53	21.10	-57.43	-13.00	-44.43	peak	H
1	6292.000	-77.85	27.43	-50.42	-13.00	-37.42	peak	V

Frequency: 1908.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6664.000	-78.19	29.13	-49.06	-13.00	-36.06	peak	H
1	6796.000	-77.54	29.50	-48.04	-13.00	-35.04	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1852.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6040.000	-79.86	25.92	-53.94	-13.00	-40.94	peak	H
1	6784.000	-77.38	29.47	-47.91	-13.00	-34.91	peak	V

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6940.000	-76.41	29.90	-46.51	-13.00	-33.51	peak	H
1	7240.000	-77.84	30.90	-46.94	-13.00	-33.94	peak	V

Frequency: 1907.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5536.000	-79.37	23.87	-55.50	-13.00	-42.50	peak	H
1	6340.000	-79.51	27.71	-51.80	-13.00	-38.80	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1855.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7168.000	-76.19	30.65	-45.54	-13.00	-32.54	peak	H
1	5428.000	-78.35	23.54	-54.81	-13.00	-41.81	peak	V

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6484.000	-77.58	28.57	-49.01	-13.00	-36.01	peak	H
1	7732.000	-77.25	32.09	-45.16	-13.00	-32.16	peak	V

Frequency: 1905.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	8500.000	-78.44	31.09	-47.35	-13.00	-34.35	peak	H
1	7144.000	-76.66	30.56	-46.10	-13.00	-33.10	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1857.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4780.000	-78.47	21.10	-57.37	-13.00	-44.37	peak	H
1	6304.000	-78.50	27.50	-51.00	-13.00	-38.00	peak	V

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6532.000	-79.58	28.76	-50.82	-13.00	-37.82	peak	H
1	6364.000	-78.19	27.85	-50.34	-13.00	-37.34	peak	V

Frequency: 1902.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5428.000	-78.33	23.54	-54.79	-13.00	-41.79	peak	H
1	6556.000	-79.46	28.82	-50.64	-13.00	-37.64	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1860.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7360.000	-77.20	31.31	-45.89	-13.00	-32.89	peak	H
1	6472.000	-78.42	28.50	-49.92	-13.00	-36.92	peak	V

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5200.000	-78.98	22.99	-55.99	-13.00	-42.99	peak	H
1	5452.000	-80.08	23.59	-56.49	-13.00	-43.49	peak	V

Frequency: 1900.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4936.000	-79.29	22.10	-57.19	-13.00	-44.19	peak	H
1	6940.000	-76.32	29.90	-46.42	-13.00	-33.42	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		1880.0 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5200.000	-80.35	22.99	-57.36	-13.00	-44.36	peak	H
1	6760.000	-78.49	29.40	-49.09	-13.00	-36.09	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		1880.0 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5356.000	-79.32	23.36	-55.96	-13.00	-42.96	peak	H
1	6772.000	-78.67	29.44	-49.23	-13.00	-36.23	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6424.000	-79.14	28.21	-50.93	-13.00	-37.93	peak	H
1	6160.000	-77.75	26.64	-51.11	-13.00	-38.11	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 1880.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5368.000	-78.97	23.40	-55.57	-13.00	-42.57	peak	H
1	6172.000	-78.93	26.70	-52.23	-13.00	-39.23	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		1880.0 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5812.000	-78.82	24.94	-53.88	-13.00	-40.88	peak	H
1	7084.000	-76.43	30.36	-46.07	-13.00	-33.07	peak	V

Standard:	FCC Part 24	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 2	Date:	11/08/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		1880.0 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6172.000	-78.88	26.70	-52.18	-13.00	-39.18	peak	H
1	5308.000	-77.78	23.26	-54.52	-13.00	-41.52	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1710.7 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6748.000	-77.00	29.36	-47.64	-13.00	-34.64	peak	H
1	6316.000	-78.89	27.56	-51.33	-13.00	-38.33	peak	V

Frequency: 1732.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5128.000	-78.53	22.82	-55.71	-13.00	-42.71	peak	H
1	6364.000	-80.15	27.85	-52.30	-13.00	-39.30	peak	V

Frequency: 1754.3 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5968.000	-80.67	25.55	-55.12	-13.00	-42.12	peak	H
1	7312.000	-76.15	31.14	-45.01	-13.00	-32.01	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1711.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7204.000	-77.88	30.78	-47.10	-13.00	-34.10	peak	H
1	5596.000	-79.00	24.09	-54.91	-13.00	-41.91	peak	V

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7060.000	-76.71	30.27	-46.44	-13.00	-33.44	peak	H
1	5716.000	-78.35	24.56	-53.79	-13.00	-40.79	peak	V

Frequency: 1753.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6844.000	-75.54	29.63	-45.91	-13.00	-32.91	peak	H
1	7144.000	-76.79	30.56	-46.23	-13.00	-33.23	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1712.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7600.000	-77.70	31.92	-45.78	-13.00	-32.78	peak	H
1	4996.000	-77.62	22.48	-55.14	-13.00	-42.14	peak	V

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6256.000	-80.64	27.21	-53.43	-13.00	-40.43	peak	H
1	6604.000	-76.36	28.95	-47.41	-13.00	-34.41	peak	V

Frequency: 1752.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6460.000	-78.79	28.42	-50.37	-13.00	-37.37	peak	H
1	5968.000	-80.18	25.55	-54.63	-13.00	-41.63	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1715.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5416.000	-78.99	23.51	-55.48	-13.00	-42.48	peak	H
1	6172.000	-79.69	26.70	-52.99	-13.00	-39.99	peak	V

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5476.000	-79.40	23.65	-55.75	-13.00	-42.75	peak	H
1	7384.000	-77.92	31.39	-46.53	-13.00	-33.53	peak	V

Frequency: 1750.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6280.000	-79.13	27.35	-51.78	-13.00	-38.78	peak	H
1	6112.000	-79.84	26.35	-53.49	-13.00	-40.49	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1717.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7228.000	-76.82	30.85	-45.97	-13.00	-32.97	peak	H
1	5800.000	-79.94	24.89	-55.05	-13.00	-42.05	peak	V

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6160.000	-79.12	26.64	-52.48	-13.00	-39.48	peak	H
1	5716.000	-78.88	24.56	-54.32	-13.00	-41.32	peak	V

Frequency: 1747.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5344.000	-78.65	23.35	-55.30	-13.00	-42.30	peak	H
1	6484.000	-78.86	28.57	-50.29	-13.00	-37.29	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 1720.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7504.000	-77.39	31.79	-45.60	-13.00	-32.60	peak	H
1	6004.000	-79.40	25.70	-53.70	-13.00	-40.70	peak	V

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7348.000	-78.06	31.27	-46.79	-13.00	-33.79	peak	H
1	7228.000	-77.06	30.85	-46.21	-13.00	-33.21	peak	V

Frequency: 1745.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7180.000	-77.51	30.69	-46.82	-13.00	-33.82	peak	H
1	6400.000	-80.07	28.08	-51.99	-13.00	-38.99	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		1732.5 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6664.000	-77.83	29.13	-48.70	-13.00	-35.70	peak	H
1	6388.000	-79.33	28.00	-51.33	-13.00	-38.33	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		1732.5 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6292.000	-80.85	27.43	-53.42	-13.00	-40.42	peak	H
1	5884.000	-78.74	25.22	-53.52	-13.00	-40.52	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6448.000	-80.02	28.37	-51.65	-13.00	-38.65	peak	H
1	6640.000	-78.86	29.06	-49.80	-13.00	-36.80	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6040.000	-78.64	25.92	-52.72	-13.00	-39.72	peak	H
1	6340.000	-79.74	27.71	-52.03	-13.00	-39.03	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6772.000	-77.94	29.44	-48.50	-13.00	-35.50	peak	H
1	6160.000	-77.93	26.64	-51.29	-13.00	-38.29	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 4	Date:	11/08/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 1732.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6316.000	-78.89	27.56	-51.33	-13.00	-38.33	peak	H
1	5512.000	-79.03	23.77	-55.26	-13.00	-42.26	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 824.7 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6640.000	-77.33	29.06	-48.27	-13.00	-35.27	peak	H
1	5884.000	-77.97	25.22	-52.75	-13.00	-39.75	peak	V

Frequency: 836.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6016.000	-79.42	25.78	-53.64	-13.00	-40.64	peak	H
1	6136.000	-79.33	26.49	-52.84	-13.00	-39.84	peak	V

Frequency: 848.3 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6136.000	-78.87	26.49	-52.38	-13.00	-39.38	peak	H
1	6652.000	-77.46	29.09	-48.37	-13.00	-35.37	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 825.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4720.000	-79.19	20.72	-58.47	-13.00	-45.47	peak	H
1	6712.000	-78.16	29.26	-48.90	-13.00	-35.90	peak	V

Frequency: 836.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6076.000	-80.16	26.13	-54.03	-13.00	-41.03	peak	H
1	5440.000	-79.61	23.57	-56.04	-13.00	-43.04	peak	V

Frequency: 847.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5884.000	-79.56	25.22	-54.34	-13.00	-41.34	peak	H
1	6868.000	-77.55	29.70	-47.85	-13.00	-34.85	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 826.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6160.000	-79.07	26.64	-52.43	-13.00	-39.43	peak	H
1	6832.000	-77.69	29.61	-48.08	-13.00	-35.08	peak	V

Frequency: 836.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5056.000	-78.61	22.64	-55.97	-13.00	-42.97	peak	H
1	6412.000	-80.04	28.13	-51.91	-13.00	-38.91	peak	V

Frequency: 846.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6088.000	-79.23	26.21	-53.02	-13.00	-40.02	peak	H
1	6544.000	-79.09	28.79	-50.30	-13.00	-37.30	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 829.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6388.000	-80.37	28.00	-52.37	-13.00	-39.37	peak	H
1	7324.000	-76.66	31.18	-45.48	-13.00	-32.48	peak	V

Frequency: 836.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7408.000	-76.09	31.47	-44.62	-13.00	-31.62	peak	H
1	6208.000	-79.26	26.92	-52.34	-13.00	-39.34	peak	V

Frequency: 844.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6748.000	-77.75	29.36	-48.39	-13.00	-35.39	peak	H
1	6676.000	-77.88	29.16	-48.72	-13.00	-35.72	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		836.5 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7072.000	-75.76	30.31	-45.45	-13.00	-32.45	peak	H
1	6244.000	-79.36	27.14	-52.22	-13.00	-39.22	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		836.5 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6532.000	-78.17	28.76	-49.41	-13.00	-36.41	peak	H
1	4852.000	-78.76	21.56	-57.20	-13.00	-44.20	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		836.5 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5956.000	-79.42	25.51	-53.91	-13.00	-40.91	peak	H
1	6616.000	-78.61	28.99	-49.62	-13.00	-36.62	peak	V

Standard:	FCC Part 22	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 5	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		836.5 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6472.000	-80.08	28.50	-51.58	-13.00	-38.58	peak	H
1	4864.000	-78.20	21.64	-56.56	-13.00	-43.56	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/08/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 2502.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6388.000	-79.22	28.00	-51.22	-25.00	-26.22	peak	H
1	4396.000	-78.87	19.15	-59.72	-25.00	-34.72	peak	V

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7732.000	-77.37	32.09	-45.28	-25.00	-20.28	peak	H
1	6772.000	-77.81	29.44	-48.37	-25.00	-23.37	peak	V

Frequency: 2567.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6412.000	-79.62	28.13	-51.49	-25.00	-26.49	peak	H
1	6796.000	-77.45	29.50	-47.95	-25.00	-22.95	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/08/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 2505.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7660.000	-77.00	32.00	-45.00	-25.00	-20.00	peak	H
1	7816.000	-77.08	32.21	-44.87	-25.00	-19.87	peak	V

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7444.000	-77.98	31.60	-46.38	-25.00	-21.38	peak	H
1	6328.000	-79.58	27.64	-51.94	-25.00	-26.94	peak	V

Frequency: 2565.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6196.000	-79.14	26.85	-52.29	-25.00	-27.29	peak	H
1	5584.000	-78.76	24.05	-54.71	-25.00	-29.71	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/09/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 2507.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6604.000	-78.45	28.95	-49.50	-25.00	-24.50	peak	H
1	7252.000	-77.85	30.93	-46.92	-25.00	-21.92	peak	V

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6736.000	-77.52	29.33	-48.19	-25.00	-23.19	peak	H
1	5368.000	-79.79	23.40	-56.39	-25.00	-31.39	peak	V

Frequency: 2562.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6568.000	-77.60	28.85	-48.75	-25.00	-23.75	peak	H
1	7636.000	-76.87	31.97	-44.90	-25.00	-19.90	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/09/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 2510.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7576.000	-77.03	31.89	-45.14	-25.00	-20.14	peak	H
1	6328.000	-79.79	27.64	-52.15	-25.00	-27.15	peak	V

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6700.000	-77.84	29.22	-48.62	-25.00	-23.62	peak	H
1	6508.000	-78.81	28.69	-50.12	-25.00	-25.12	peak	V

Frequency: 2560.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7828.000	-77.71	32.21	-45.50	-25.00	-20.50	peak	H
1	6472.000	-79.28	28.50	-50.78	-25.00	-25.78	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/09/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6640.000	-77.34	29.06	-48.28	-25.00	-23.28	peak	H
1	7552.000	-77.85	31.86	-45.99	-25.00	-20.99	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/09/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6184.000	-78.72	26.78	-51.94	-25.00	-26.94	peak	H
1	6424.000	-79.21	28.21	-51.00	-25.00	-26.00	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/09/2015
Channel Bandwidth:	15 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7816.000	-78.24	32.21	-46.03	-25.00	-21.03	peak	H
1	6820.000	-77.60	29.57	-48.03	-25.00	-23.03	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 7	Date:	11/09/2015
Channel Bandwidth:	20 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 2535.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6388.000	-79.56	28.00	-51.56	-25.00	-26.56	peak	H
1	6496.000	-79.86	28.65	-51.21	-25.00	-26.21	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/04/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 699.7 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6124.000	-80.61	26.41	-54.20	-13.00	-41.20	peak	H
1	6340.000	-79.38	27.71	-51.67	-13.00	-38.67	peak	V

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6052.000	-78.98	25.98	-53.00	-13.00	-40.00	peak	H
1	6244.000	-78.35	27.14	-51.21	-13.00	-38.21	peak	V

Frequency: 715.3 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6400.000	-79.48	28.08	-51.40	-13.00	-38.40	peak	H
1	7372.000	-77.65	31.35	-46.30	-13.00	-33.30	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/06/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 700.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7324.000	-77.18	31.18	-46.00	-13.00	-33.00	peak	H
1	6352.000	-77.12	27.79	-49.33	-13.00	-36.33	peak	V

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6472.000	-79.23	28.50	-50.73	-13.00	-37.73	peak	H
1	7720.000	-77.20	32.08	-45.12	-13.00	-32.12	peak	V

Frequency: 714.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6736.000	-78.36	29.33	-49.03	-13.00	-36.03	peak	H
1	6760.000	-75.62	29.40	-46.22	-13.00	-33.22	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/06/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 701.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	5932.000	-78.95	25.42	-53.53	-13.00	-40.53	peak	H
1	6244.000	-79.17	27.14	-52.03	-13.00	-39.03	peak	V

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6148.000	-79.36	26.56	-52.80	-13.00	-39.80	peak	H
1	6808.000	-77.12	29.53	-47.59	-13.00	-34.59	peak	V

Frequency: 713.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7468.000	-77.91	31.68	-46.23	-13.00	-33.23	peak	H
1	7624.000	-77.55	31.96	-45.59	-13.00	-32.59	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/06/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 704.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7912.000	-77.83	32.34	-45.49	-13.00	-32.49	peak	H
1	6580.000	-78.71	28.89	-49.82	-13.00	-36.82	peak	V

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6580.000	-78.98	28.89	-50.09	-13.00	-37.09	peak	H
1	6256.000	-80.03	27.21	-52.82	-13.00	-39.82	peak	V

Frequency: 711.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6748.000	-78.62	29.36	-49.26	-13.00	-36.26	peak	H
1	5932.000	-78.46	25.42	-53.04	-13.00	-40.04	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/04/2015
Channel Bandwidth:	1.4 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	4804.000	-78.59	21.25	-57.34	-13.00	-44.34	peak	H
1	7276.000	-76.61	31.03	-45.58	-13.00	-32.58	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/06/2015
Channel Bandwidth:	3 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6148.000	-78.83	26.56	-52.27	-13.00	-39.27	peak	H
1	7852.000	-77.55	32.26	-45.29	-13.00	-32.29	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/04/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6556.000	-78.61	28.82	-49.79	-13.00	-36.79	peak	H
1	7228.000	-75.90	30.85	-45.05	-13.00	-32.05	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 12	Date:	10/06/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 707.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7300.000	-77.55	31.10	-46.45	-13.00	-33.45	peak	H
1	6988.000	-75.96	30.04	-45.92	-13.00	-32.92	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 30	Date:	12/04/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency: 2307.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7024.000	-75.18	25.66	-49.52	-40	-9.52	peak	H
1	7084.000	-75.85	25.83	-50.02	-40	-10.02	peak	V

Frequency: 2310.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7732.000	-76.04	27.13	-48.91	-40	-8.91	peak	H
1	6928.000	-76.83	25.44	-51.39	-40	-11.39	peak	V

Frequency: 2312.5 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7900.000	-77.61	27.27	-50.34	-40	-10.34	peak	H
1	7408.000	-77.32	26.70	-50.62	-40	-10.62	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 30	Date:	12/04/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	QPSK		

Frequency:		2310.0 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	6388.000	-80.51	23.86	-56.65	-40	-16.65	peak	H
1	7912.000	-77.57	27.29	-50.28	-40	-10.28	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 30	Date:	12/04/2015
Channel Bandwidth:	5 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency:		2310.0 MHz						
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7540.000	-78.45	26.98	-51.47	-40	-11.47	peak	H
1	6712.000	-77.40	24.92	-52.48	-40	-12.48	peak	V

Standard:	FCC Part 27	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	AC815S	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Operate Band:	LTE Band 30	Date:	12/04/2015
Channel Bandwidth:	10 MHz	Test By:	Eric Ou Yang
Modulation Technology:	16QAM		

Frequency: 2310.0 MHz								
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	Ant.Polar. H / V
1	7348.000	-77.32	26.55	-50.77	-13.00	-37.77	peak	H
1	6892.000	-78.22	25.34	-52.88	-13.00	-39.88	peak	V