

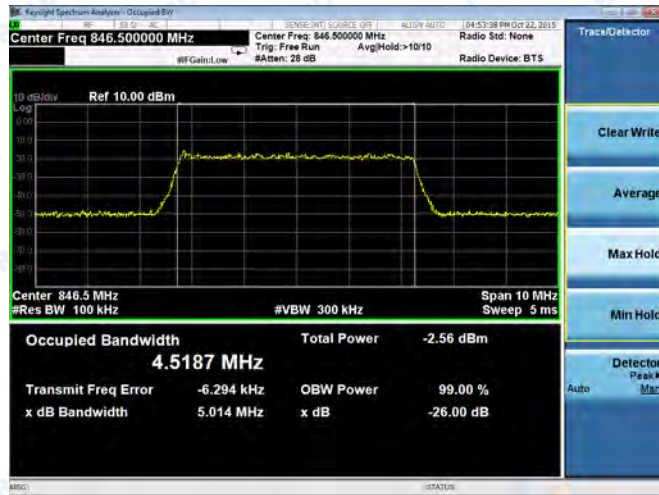


REPORT No.: SZ15100023W02

Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM





REPORT No.: SZ15100023W02

LTE Band 7**Low channel:**

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20775	2502.5	4.5288	4.5240	20800	2505.0	8.9851	8.9968
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20775	2502.5	5.115	5.017	20800	2505.0	9.929	9.917

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20825	2507.5	13.488	13.498	20850	2510.0	18.023	18.072
Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
20825	2507.5	14.92	14.81	20850	2510.0	19.64	19.77

Middle channel:

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21100	2535.0	4.5332	4.5253	21100	2535.0	9.0074	9.0073
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21100	2535.0	5.044	5.095	21100	2535.0	10.03	9.999



Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21100	2535.0	13.528	13.544	21100	2535.0	18.040	18.104
Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21100	2535.0	14.91	15.03	21100	2535.0	19.60	19.88

High channel:

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21425	2567.5	4.5186	4.5184	21400	2565.0	9.0057	8.9940
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21425	2567.5	5.050	5.065	21400	2565.0	10.05	9.945

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21375	2562.5	13.514	13.528	21350	2560.0	18.033	18.037
Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
21375	2562.5	15.02	14.94	21350	2560.0	19.79	19.66



REPORT No.: SZ15100023W02

Low channel:

Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM

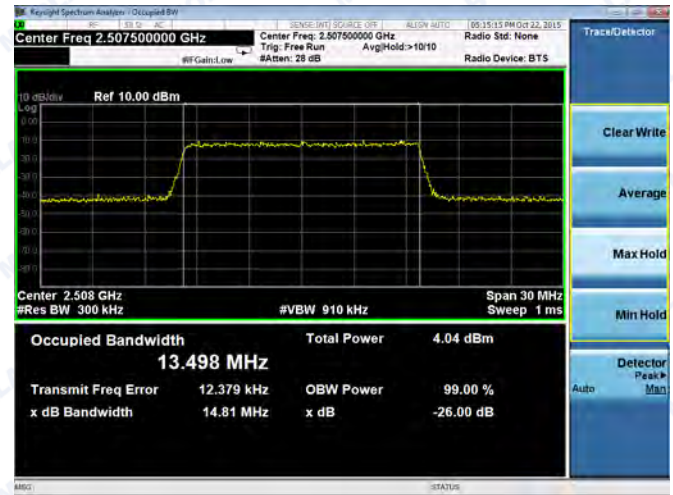
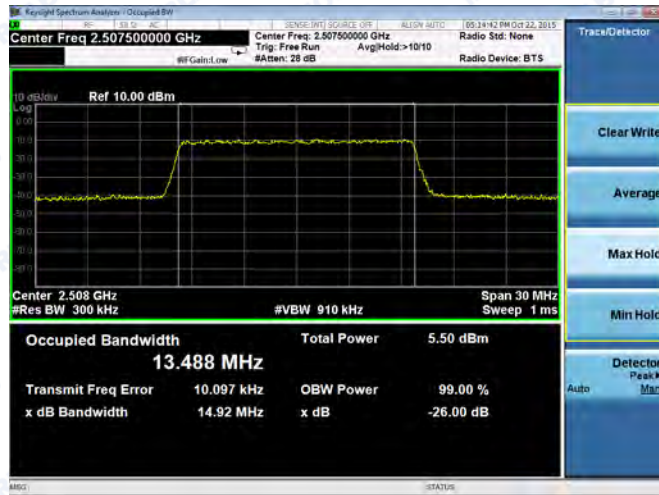




Spectrum Plot of Worst Value

15MHz/QPSK

15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM





REPORT No.: SZ15100023W02

Middle channel:

Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM

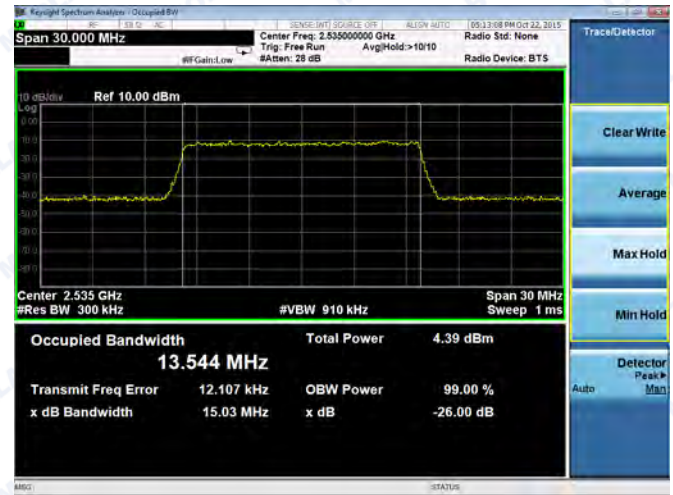




Spectrum Plot of Worst Value

15MHz/QPSK

15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM





REPORT No.: SZ15100023W02

High channel:

Spectrum Plot of Worst Value

5MHz/QPSK

5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK

10MHz/16QAM

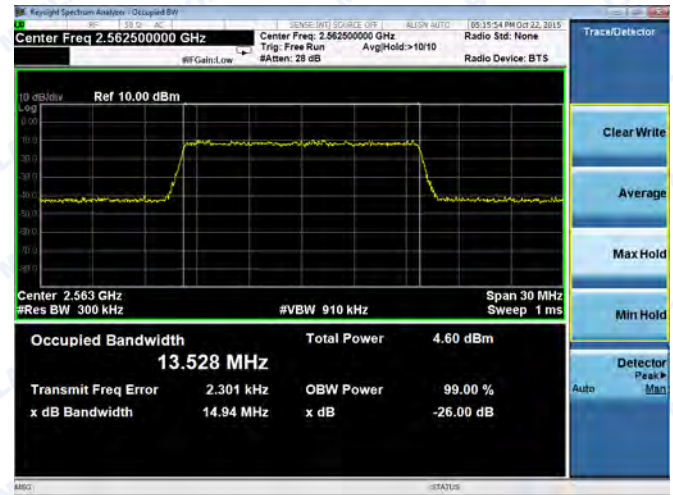
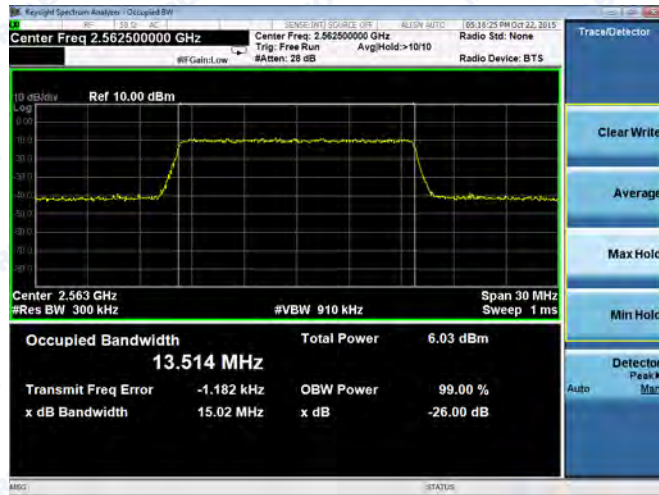




Spectrum Plot of Worst Value

15MHz/QPSK

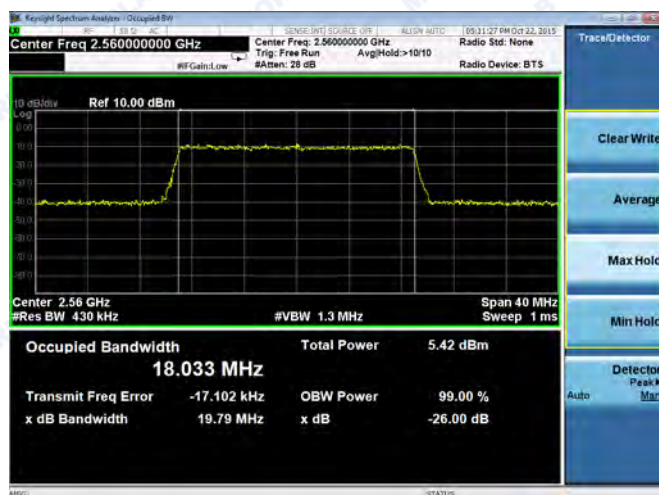
15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK

20MHz/16QAM





REPORT No.: SZ15100023W02

LTE Band 17**Low channel:**

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23755	706.5	4.5382	4.5395	23780	709.0	8.9785	8.9754
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23755	706.5	5.114	5.055	23780	709.0	9.887	9.937

Middle channel:

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23790	710	4.5188	4.5110	23790	710	8.9680	8.9721
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23790	710	5.011	5.030	23790	710	9.900	9.838

High channel:

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Bandwidth (MHz)		Channel	Frequency (MHz)	99% Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23825	713.5	4.5265	4.5290	23800	711	8.9445	8.9531
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
		QPSK	16QAM			QPSK	16QAM
23825	713.5	5.007	5.074	23800	711	9.901	9.877



REPORT No.: SZ15100023W02

Low channel:

Spectrum Plot of Worst Value

5MHz/QPSK



5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK



10MHz/16QAM





REPORT No.: SZ15100023W02

Middle channel:

Spectrum Plot of Worst Value

5MHz/QPSK



5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK



10MHz/16QAM





REPORT No.: SZ15100023W02

High channel:

Spectrum Plot of Worst Value

5MHz/QPSK



5MHz/16QAM



Spectrum Plot of Worst Value

10MHz/QPSK



10MHz/16QAM



2.3 Frequency Stability

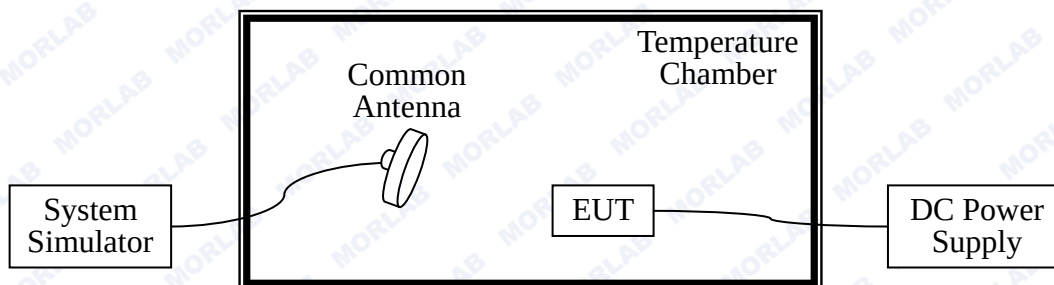
2.3.1 Requirement

According to FCC section 2.1055 and FCC section 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.3.2 Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k5 0/124534/wk	2015.02.26	2016.02.25
DC Power Supply	Good Will	GPS-3030DD	EF920938	2015.02.26	2016.02.25
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2015.02.26	2016.02.25



2.3.3 Test Verdict

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.45VDC, which are specified by the applicant; the normal temperature here used is 20°C. The frequency deviation limit is $\pm 2.5\text{ppm}$.

The testing was performed using one RB and Bandwidth setting for each band.

LTE Band 2 – QPSK - Channel 18900 – Frequency 1880.0MHz – RB 6/0				
Limit: 1880.0MHz*1ppm=1880.0Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	8.51	PASS
100		-20	15.78	
100		-10	9.47	
100		0	8.30	
100		+10	9.16	
100		+20	5.10	
100		+30	-15.77	
100		+40	6.96	
100		+50	7.35	
115	4.2	+20	4.81	PASS
85	3.45	+20	6.03	

LTE Band 4 – QPSK - Channel 20175 – Frequency 1732.5MHz – RB 6/0				
Limit: 1732.5MHz*2.5ppm=4331.25Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	12.96	PASS
100		-20	-9.26	
100		-10	10.23	
100		0	12.14	
100		+10	10.96	
100		+20	9.88	
100		+30	-10.49	
100		+40	11.23	
100		+50	10.18	
115	4.2	+20	11.96	PASS
85	3.45	+20	13.31	



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LTE Band 5 – QPSK - Channel 20525 – Frequency 836.5MHz – RB 6/0				
Limit: 836.5 MHz*2.5ppm=2091.25Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	6.64	PASS
100		-20	-4.41	
100		-10	-4.45	
100		0	5.01	
100		+10	-1.08	
100		+20	6.88	
100		+30	3.74	
100		+40	5.93	
100		+50	-4.85	
115	4.2	+20	-2.14	
85	3.45	+20	-4.26	

TE Band 7 – QPSK - Channel 21100 – Frequency 2535MHz – RB 25/0				
Limit: 2535MHz*2.5ppm=6337.5Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	13.65	<u>PASS</u>
100		-20	-8.57	
100		-10	10.92	
100		0	12.83	
100		+10	11.65	
100		+20	10.57	
100		+30	-9.8	
100		+40	11.92	
100		+50	10.87	
115	4.2	+20	12.65	
85	3.45	+20	14	



TE Band 17 – QPSK - Channel 23790 – Frequency 710MHz – RB 25/0				
Limit: 710MHz*2.5ppm=1775Hz				
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Result
100	3.8	-30	8.2	<u>PASS</u>
100		-20	13.55	
100		-10	-9.24	
100		0	7.01	
100		+10	8.86	
100		+20	7.77	
100		+30	-11.42	
100		+40	8.26	
100		+50	10.15	
115	4.2	+20	11.44	
85	3.45	+20	11.51	

2.4 Peak to Average Ratio

2.4.1 Requirement

According to FCC section 27.50(d) (5), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2 Test Description

See section 2.1.2 of this report.

2.4.3 Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



REPORT No.: SZ15100023W02

LTE Band 2 Low channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	5.11	5.63	18615	1851.5	5.16	5.54

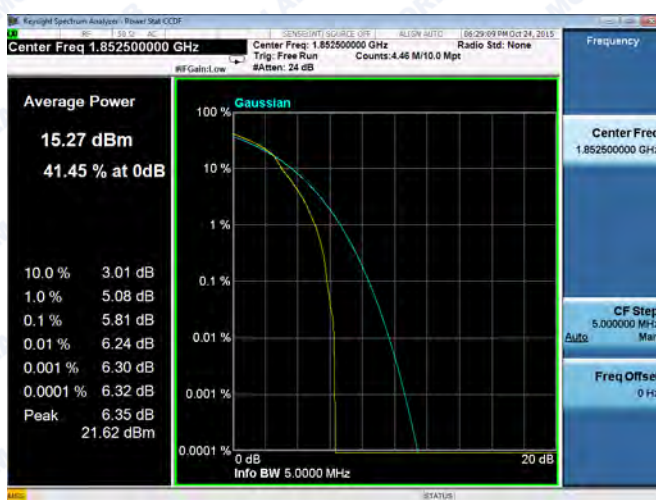
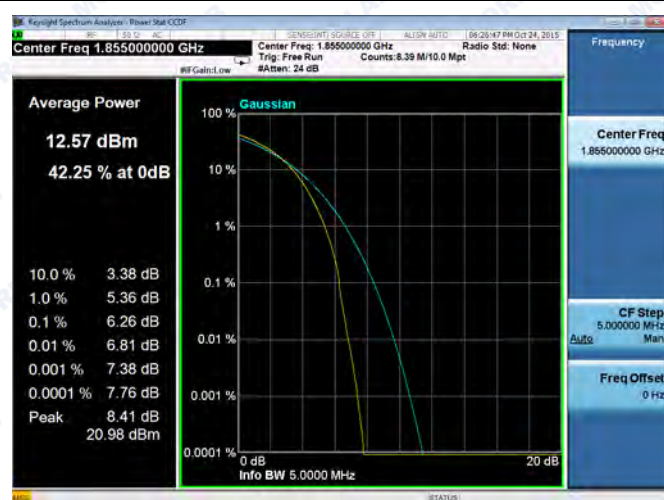
Spectrum Plot of Worst Value (Low channel)**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 Low channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	5.06	5.81	18650	1855.0	6.26	6.75

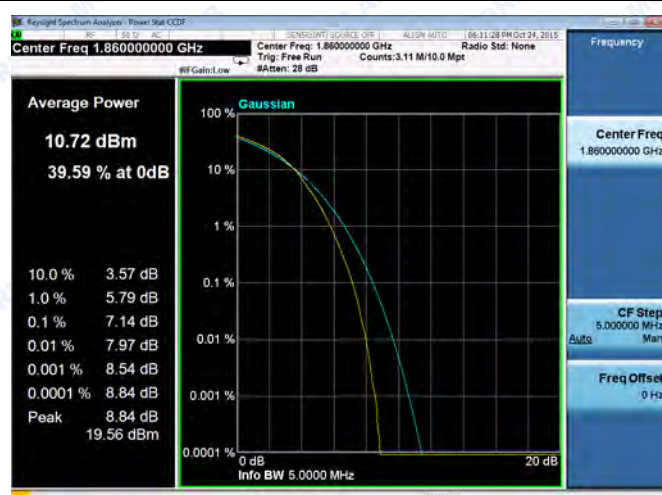
Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 Low channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	6.64	7.14	18700	1860.0	7.14	7.52

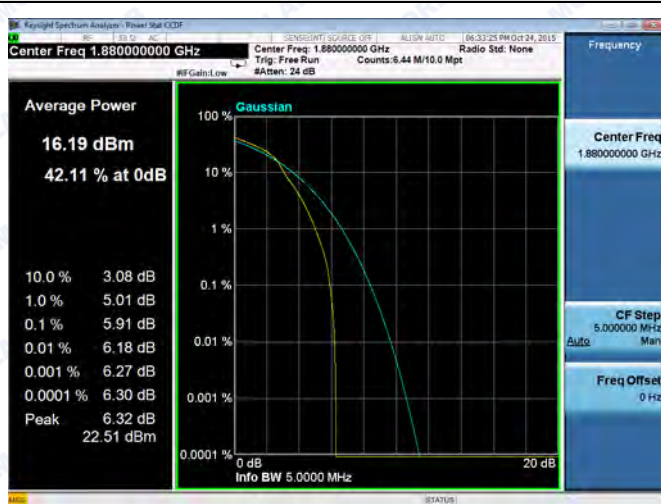
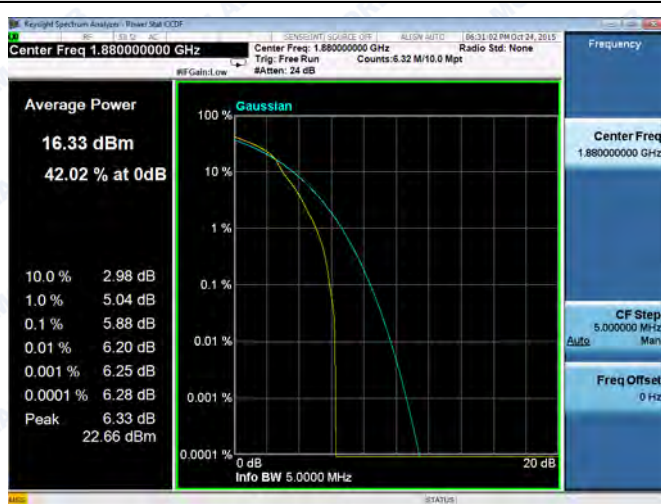
Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 Middle channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	5.13	5.91	18900	1880.0	5.05	5.88

Spectrum Plot of Worst Value**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 Middle channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	4.89	5.56	18900	1880.0	6.00	6.95

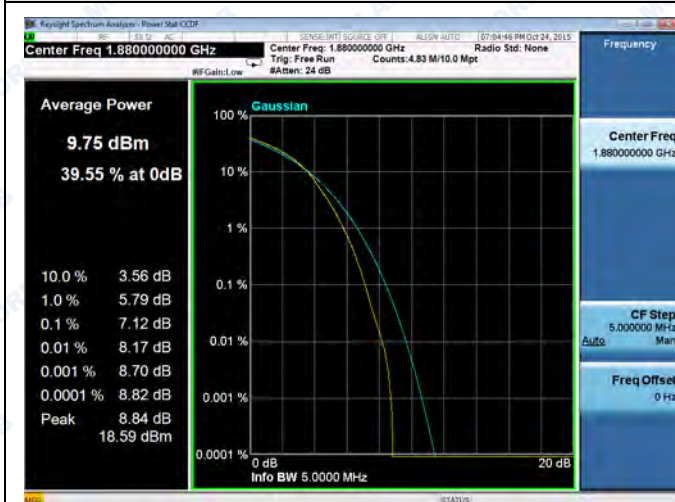
Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 Middle channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18900	1880.0	6.87	7.43	18900	1880.0	7.12	7.63

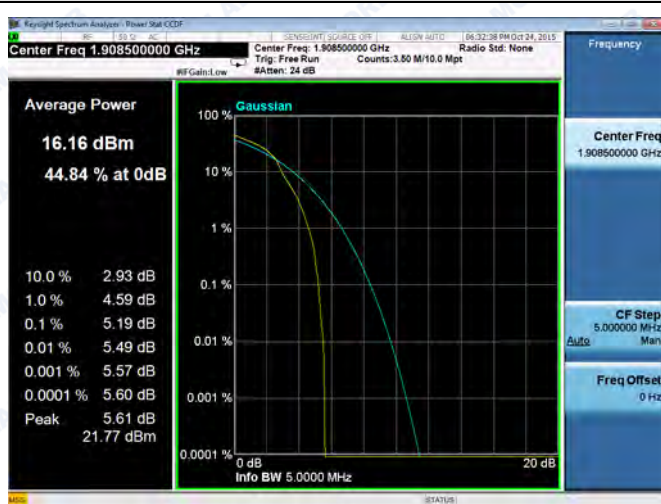
Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 High channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19193	1909.3	4.76	5.19	19185	1908.5	4.71	5.19

Spectrum Plot of Worst Value**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 High channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19175	1907.5	4.53	5.26	19150	1905.0	6.03	6.71

Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 2 High channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19125	1902.5	6.72	7.36	19100	1900.0	7.02	7.50

Spectrum Plot of Worst Value

15MHz/QPSK



15MHz/16QAM



Spectrum Plot of Worst Value

20MHz/QPSK



20MHz/16QAM





REPORT No.: SZ15100023W02

LTE Band 4 Low channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19957	1710.7	4.72	5.67	19965	1711.5	4.74	5.66

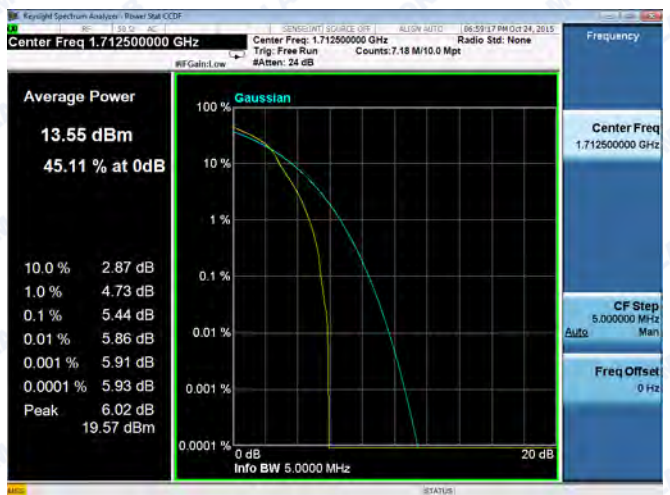
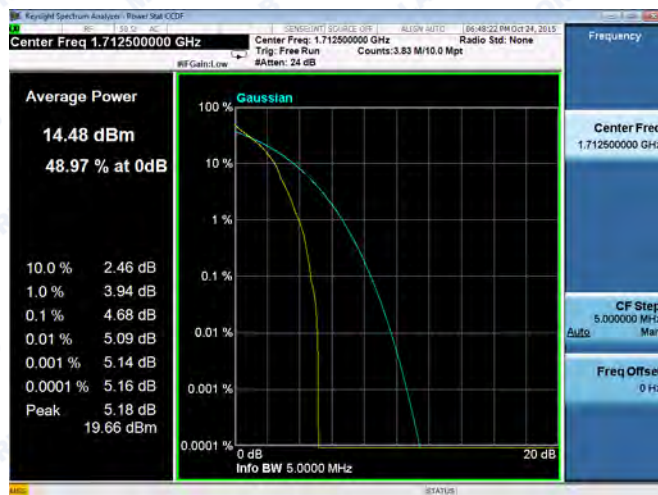
Spectrum Plot of Worst Value (Low channel)**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 4 Low channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	4.68	5.44	20000	1715.0	6.02	6.71

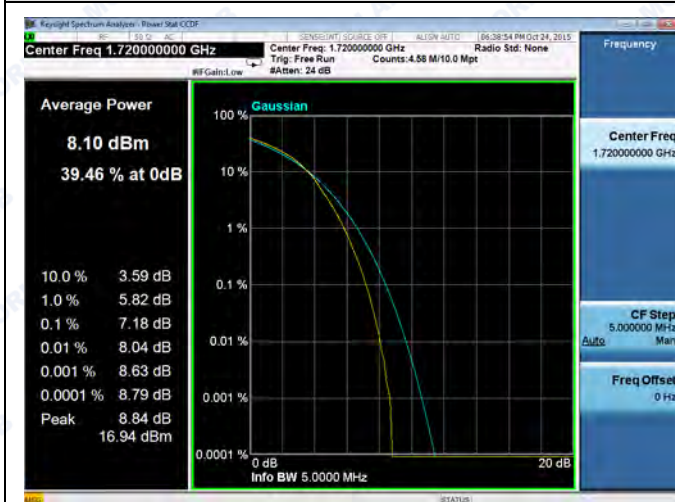
Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 4 Low channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	6.70	7.30	20050	1720.0	7.18	7.55

Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 4 Middle channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	4.39	5.20	20175	1732.5	4.40	5.26

Spectrum Plot of Worst Value**1.4MHz/QPSK****1.4MHz/16QAM****Spectrum Plot of Worst Value****3MHz/QPSK****3MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 4 Middle channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	4.37	5.02	20175	1732.5	6.10	6.78

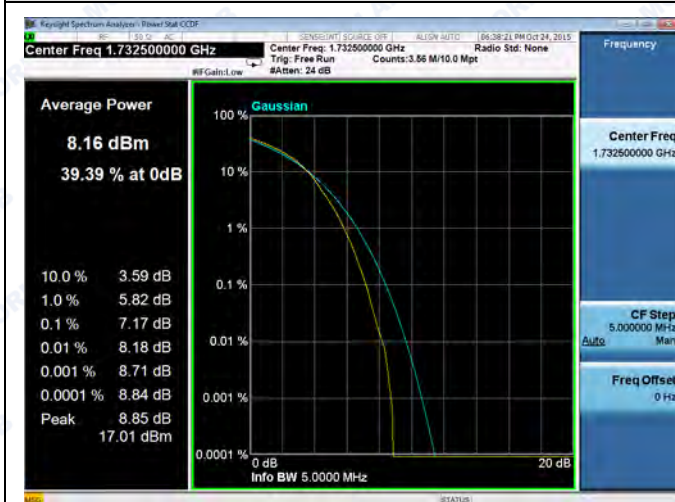
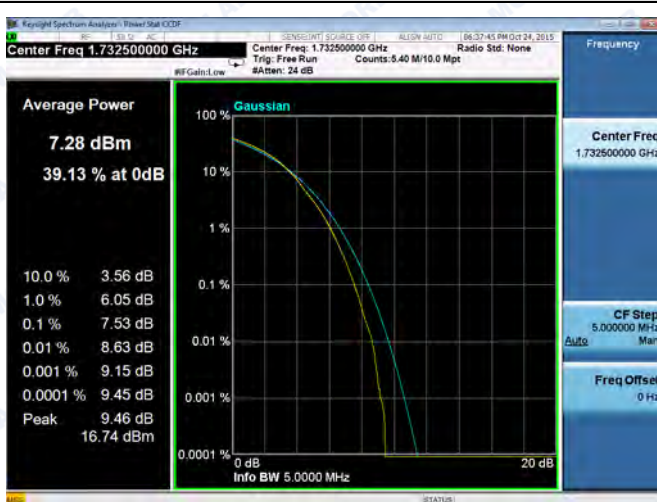
Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 4 Middle channel

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	6.76	7.19	20175	1732.5	7.17	7.53

Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



REPORT No.: SZ15100023W02

LTE Band 4 High channel

Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20393	1754.3	4.54	5.25	20385	1753.5	4.57	5.24

Spectrum Plot of Worst Value

1.4MHz/QPSK



1.4MHz/16QAM



Spectrum Plot of Worst Value

3MHz/QPSK



3MHz/16QAM

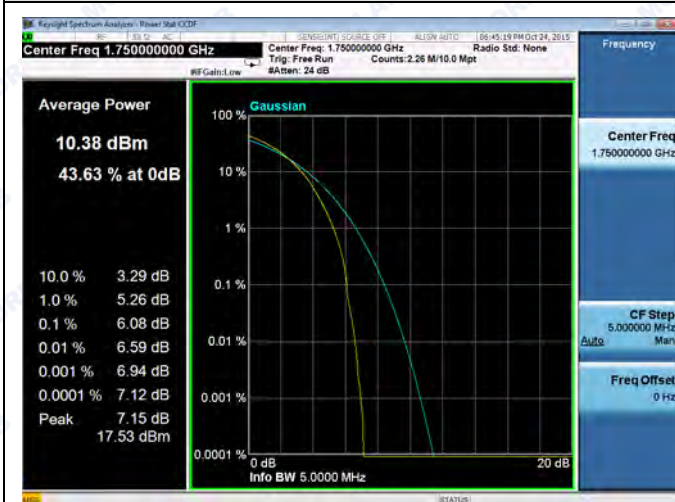




REPORT No.: SZ15100023W02

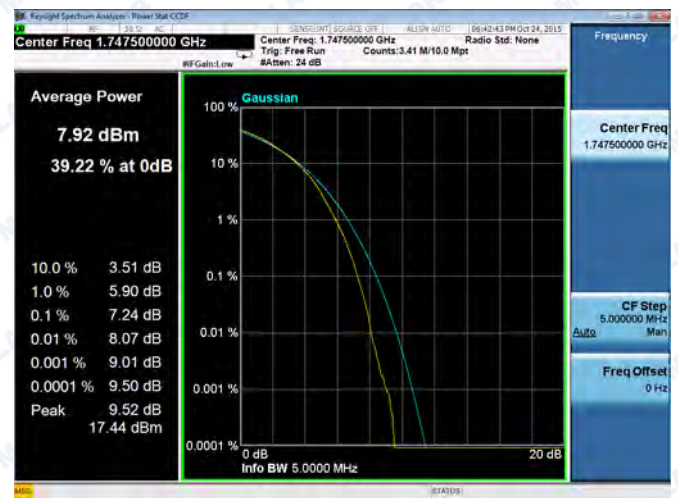
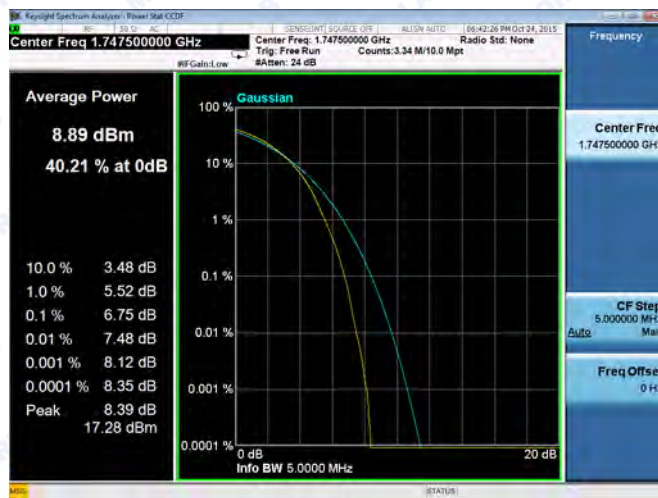
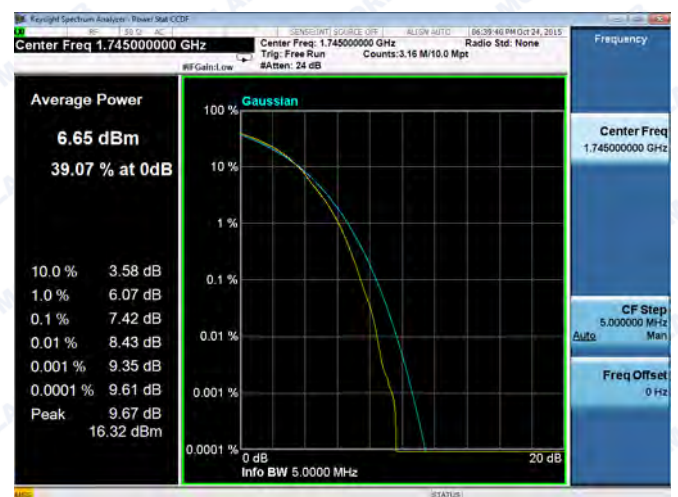
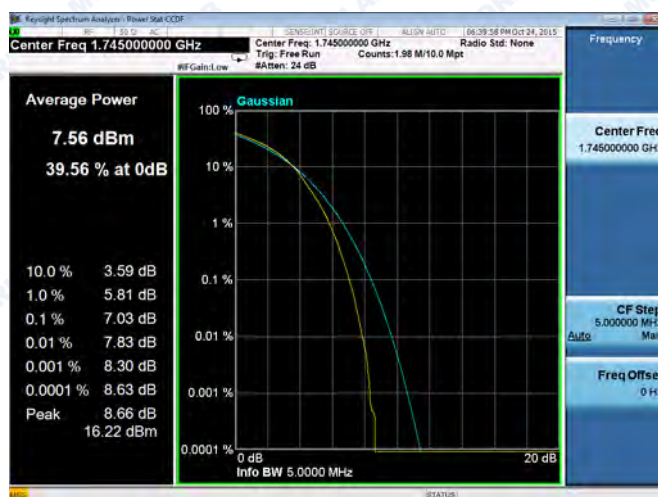
LTE Band 4 High channel

Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20375	1752.5	4.72	5.63	20350	1750.0	6.08	6.79

Spectrum Plot of Worst Value**5MHz/QPSK****5MHz/16QAM****Spectrum Plot of Worst Value****10MHz/QPSK****10MHz/16QAM**

**LTE Band 4 High channel**

Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20325	1747.5	6.75	7.24	20300	1745.0	7.03	7.42

Spectrum Plot of Worst Value**15MHz/QPSK****15MHz/16QAM****Spectrum Plot of Worst Value****20MHz/QPSK****20MHz/16QAM**



2.5 Conducted Spurious Emissions

2.5.1 Test Requirement

According to FCC section 2.1051 and 27.53(g), 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.

2.5.2 Test Procedure

See section 2.1.2 of this report.

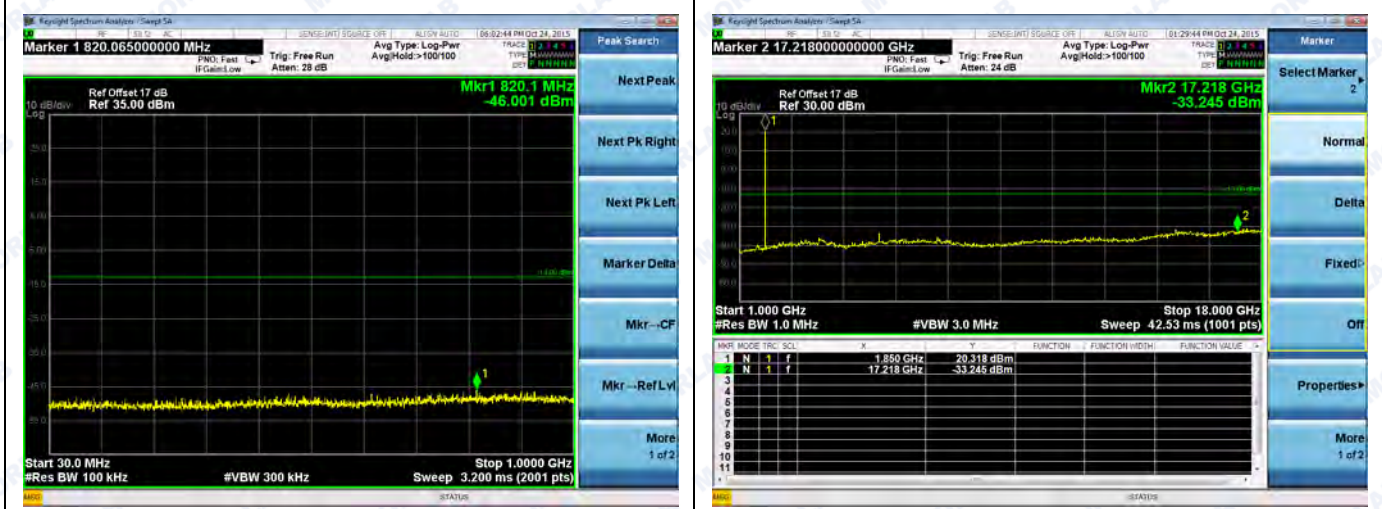
Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

2.5.3 Test Result

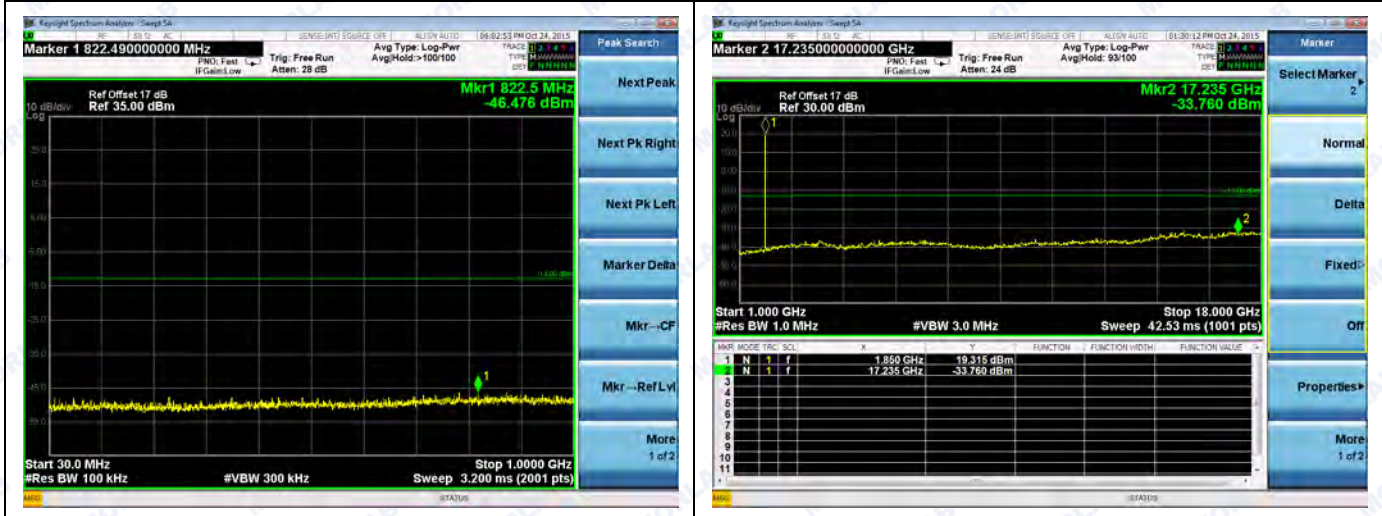
Compliant. See attached pots.

LTE Band 2 1.4MHz BW Low Channel

QPSK



16QAM

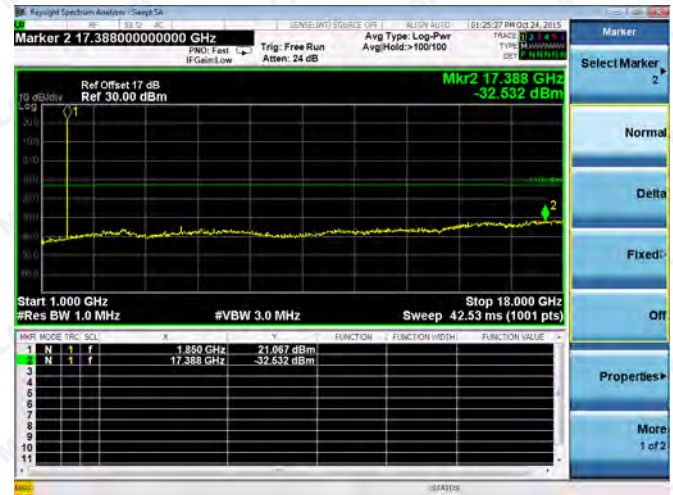




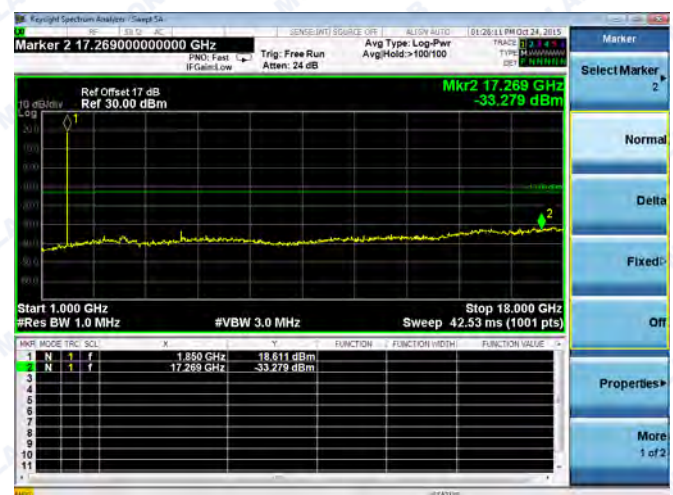
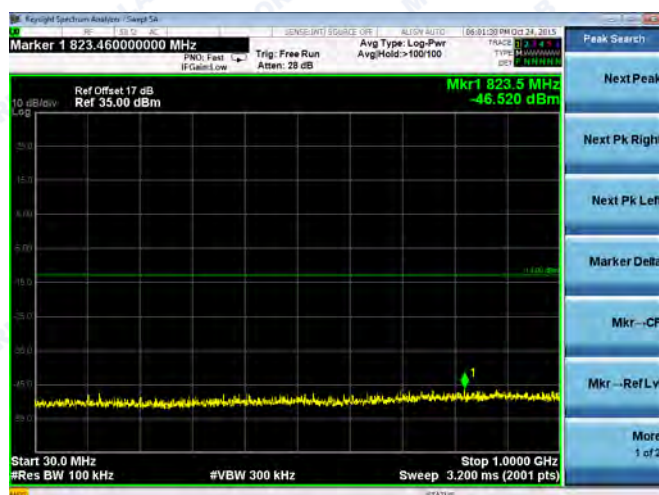
REPORT No.: SZ15100023W02

LTE Band 2 3MHz BW Low Channel

QPSK



16QAM

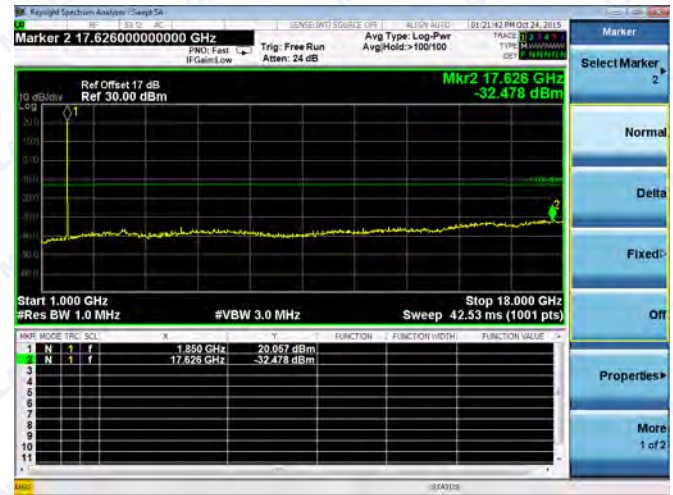




REPORT No.: SZ15100023W02

LTE Band 2 5MHz BW Low Channel

QPSK



16QAM

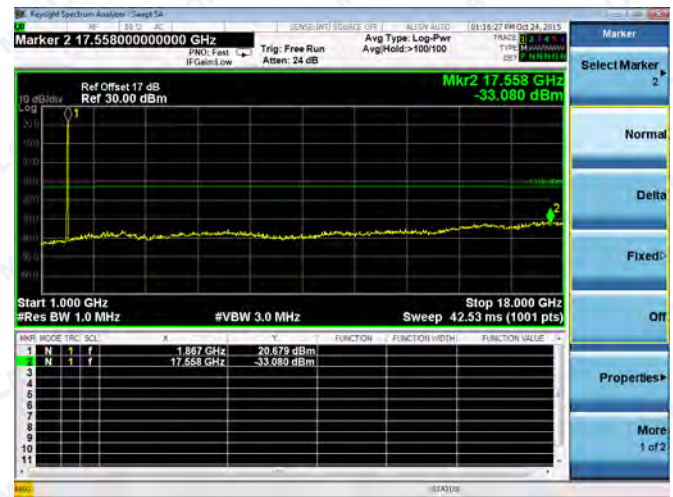
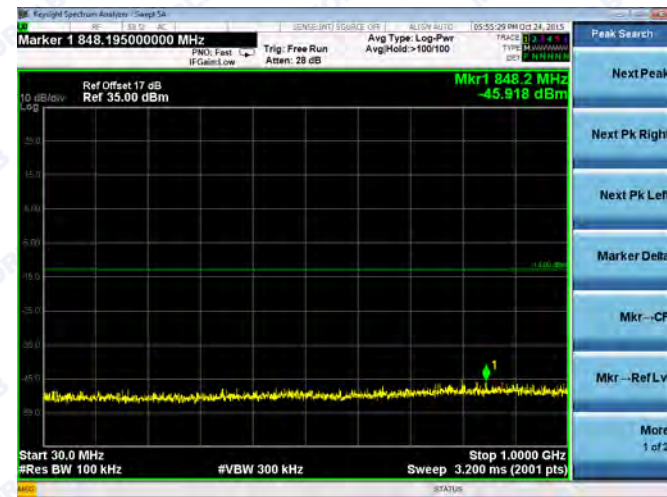




REPORT No.: SZ15100023W02

LTE Band 2 10MHz BW Low Channel

QPSK



16QAM

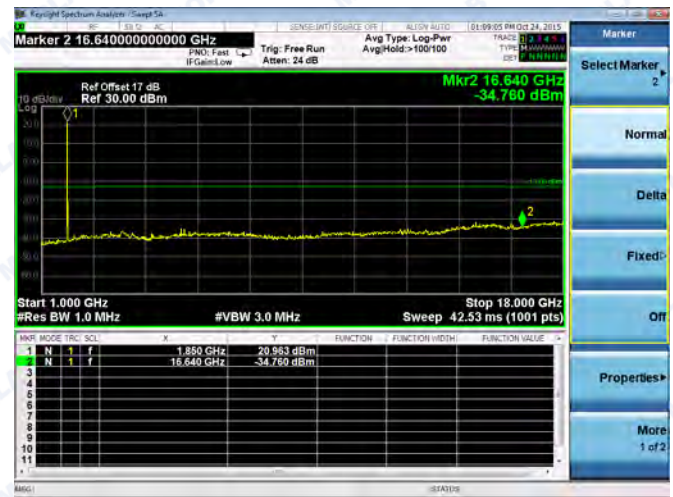
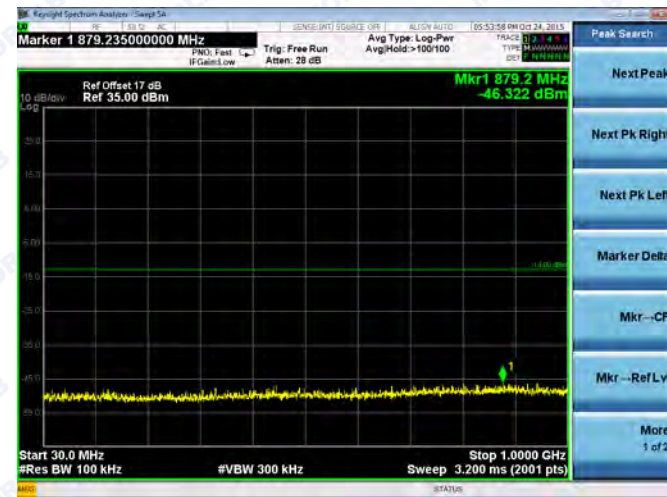




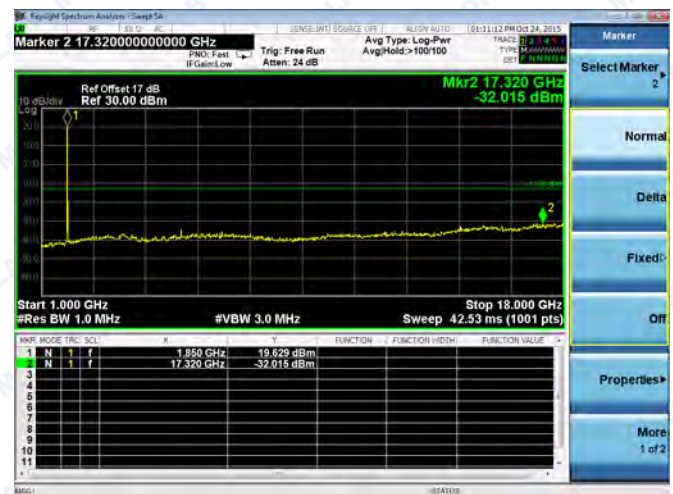
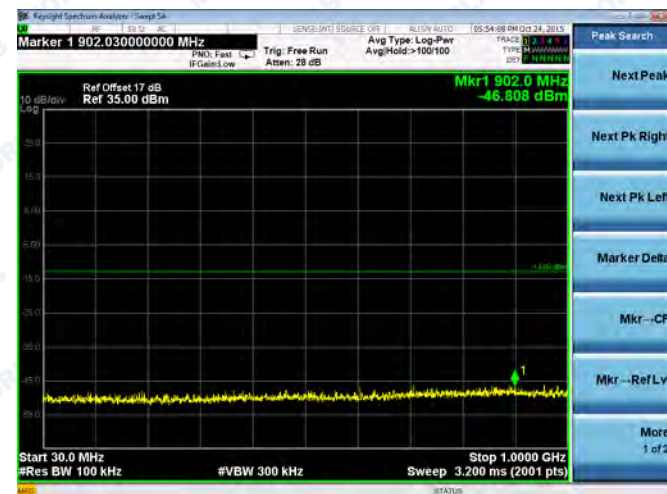
REPORT No.: SZ15100023W02

LTE Band 2 15MHz BW Low Channel

QPSK



16QAM

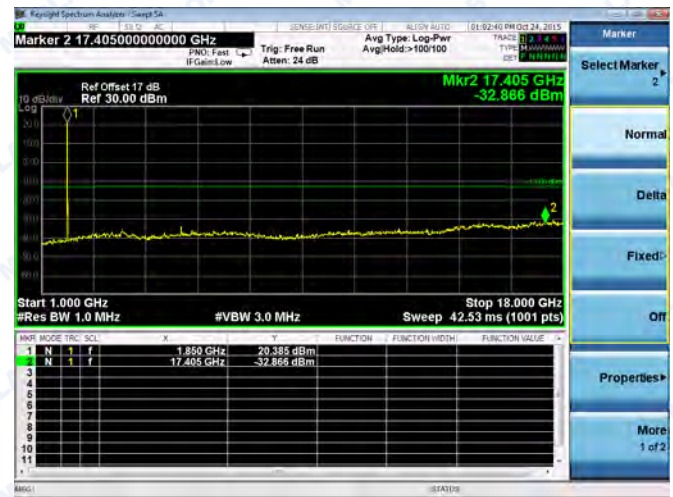




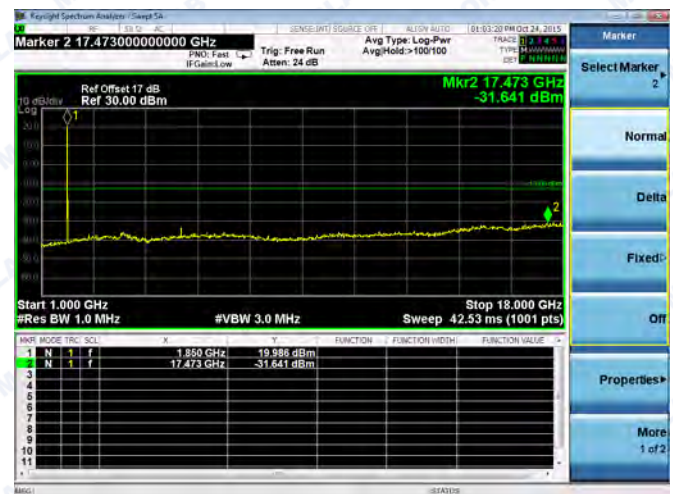
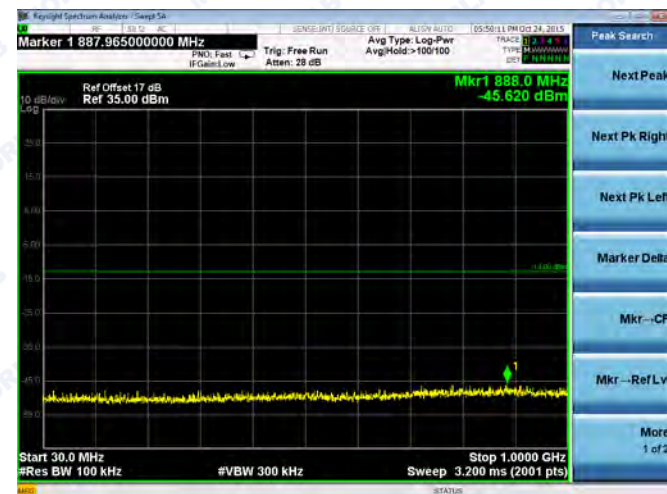
REPORT No.: SZ15100023W02

LTE Band 2 20MHz BW Low Channel

QPSK



16QAM



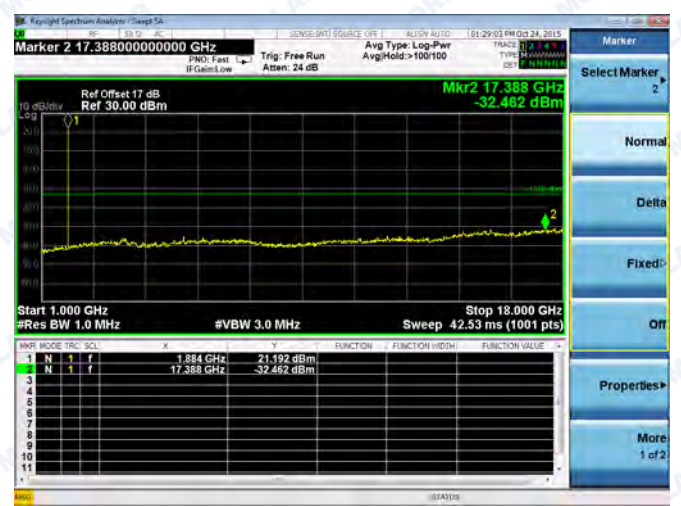
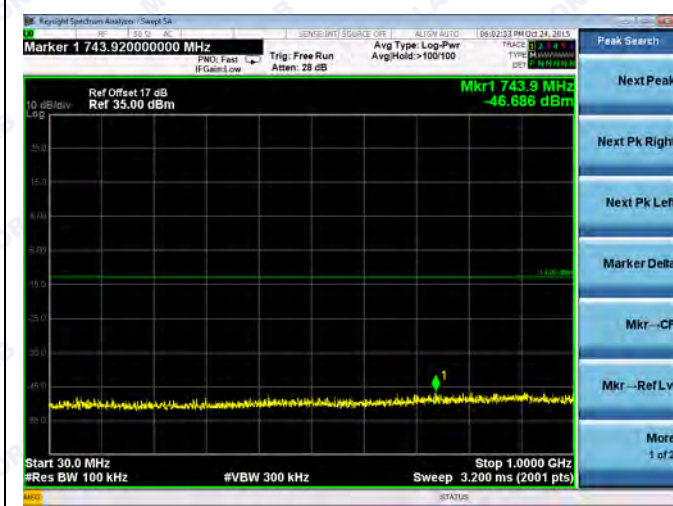


REPORT No.: SZ15100023W02

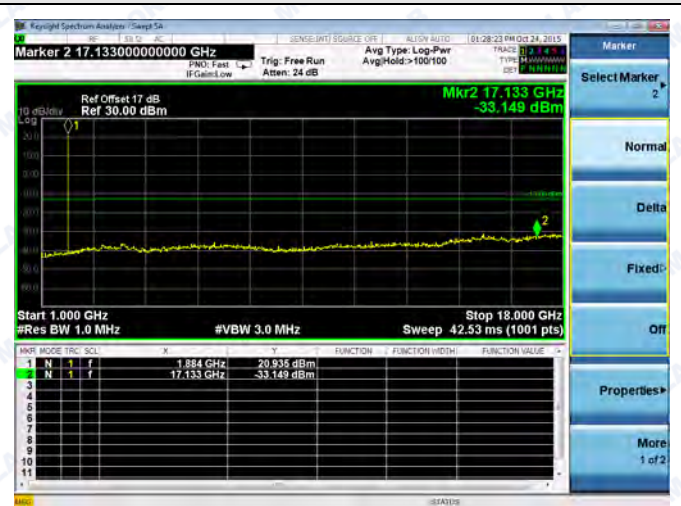
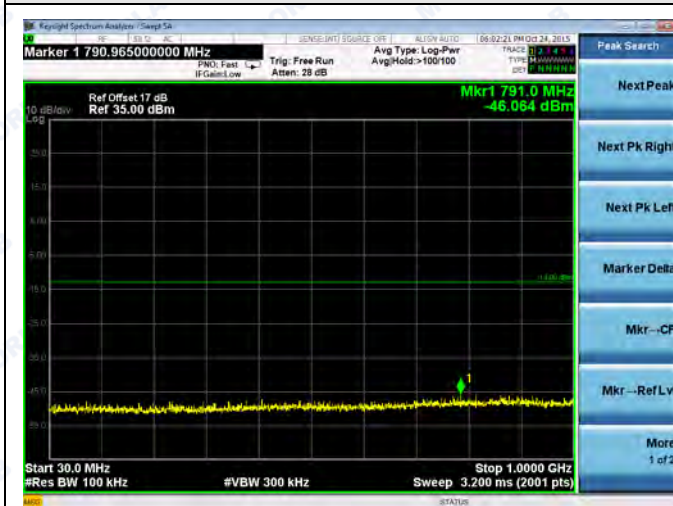
Middle channel:

LTE Band 2 1.4MHz BW Mid Channel

QPSK



16QAM

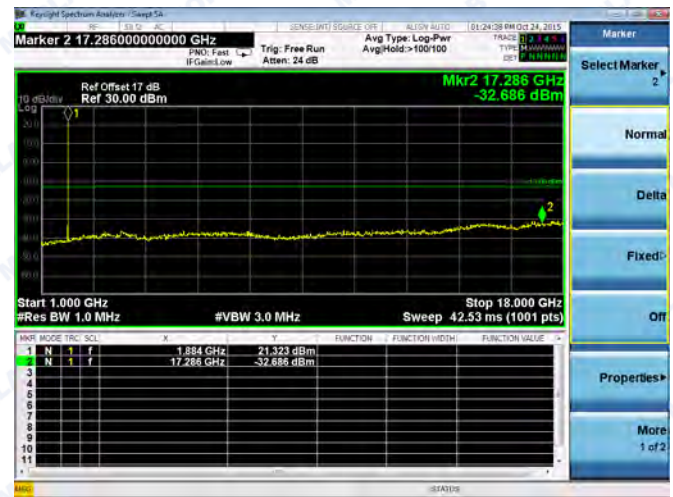
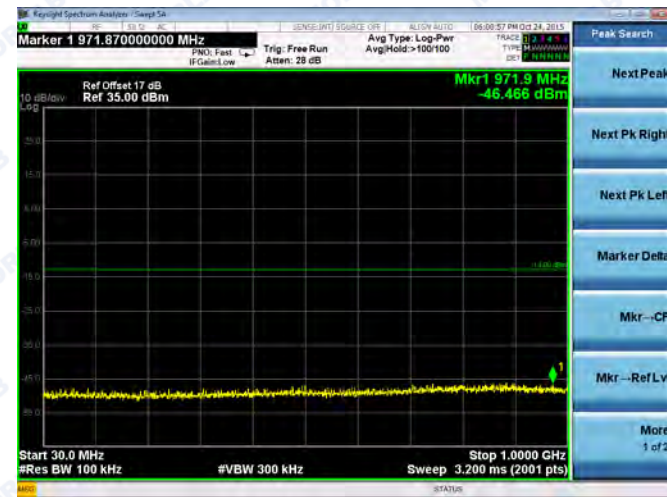




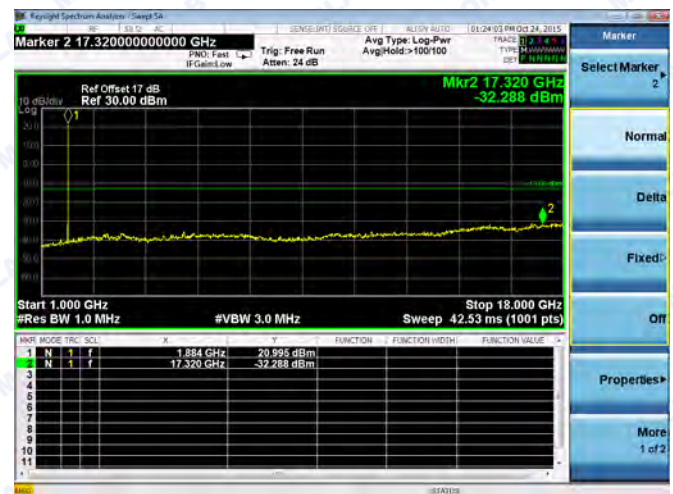
REPORT No.: SZ15100023W02

LTE Band 2 3MHz BW Mid Channel

QPSK



16QAM

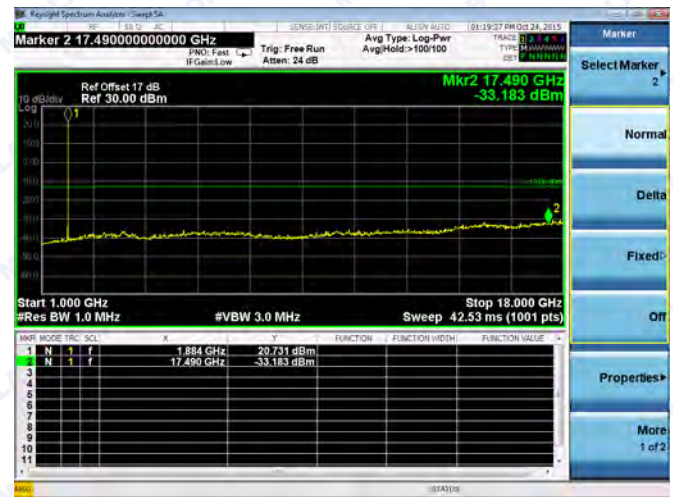




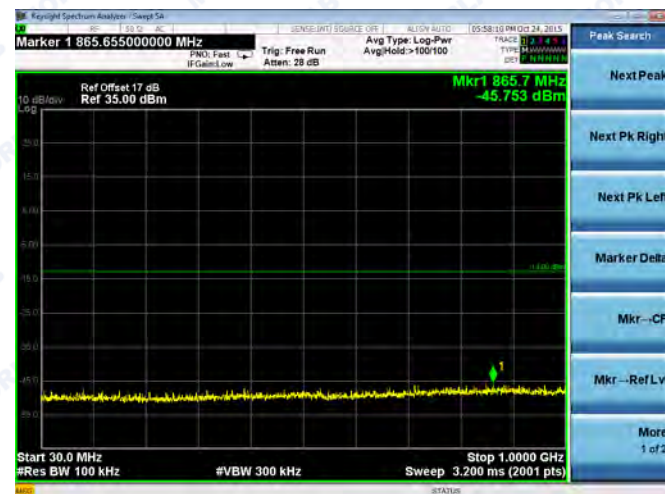
REPORT No.: SZ15100023W02

LTE Band 2 5MHz BW Mid Channel

QPSK



16QAM

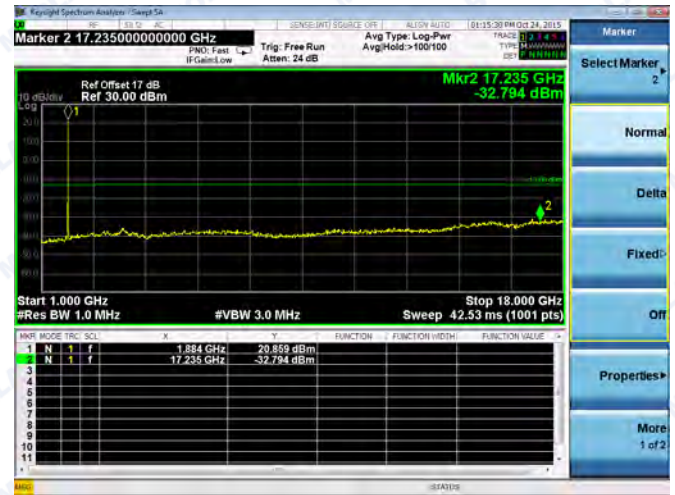




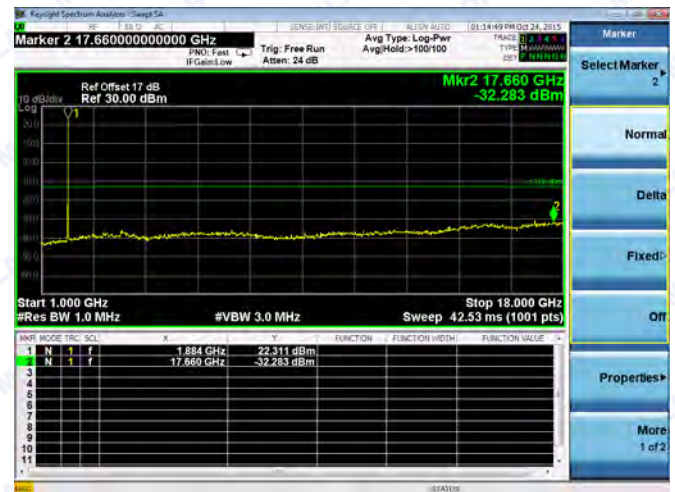
REPORT No.: SZ15100023W02

LTE Band 2 10MHz BW Mid Channel

QPSK



16QAM

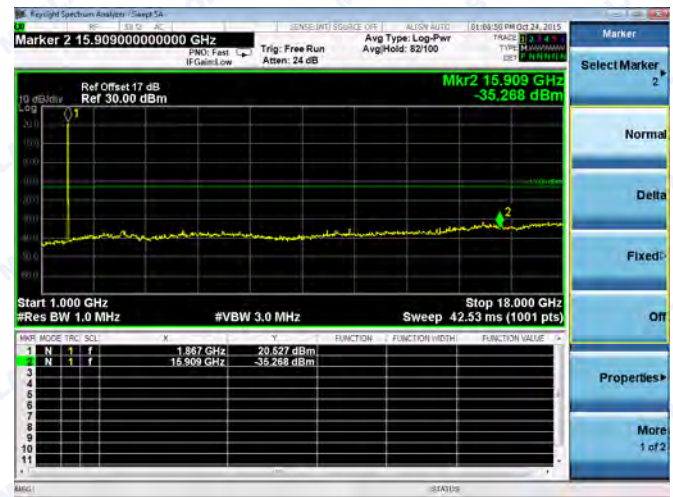
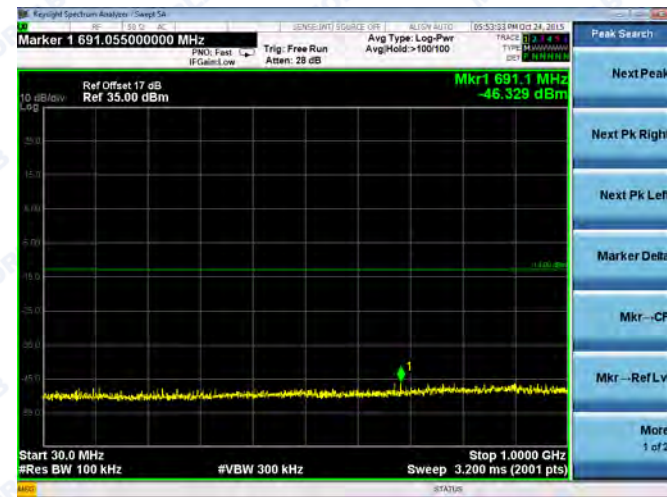




REPORT No.: SZ15100023W02

LTE Band 2 15MHz BW Mid Channel

QPSK



16QAM

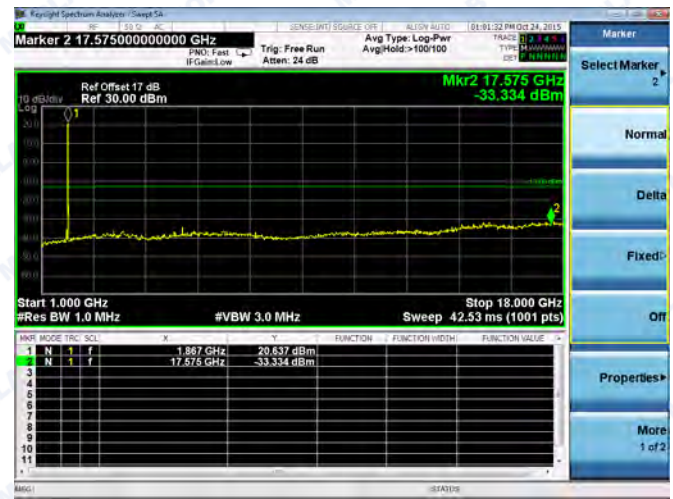




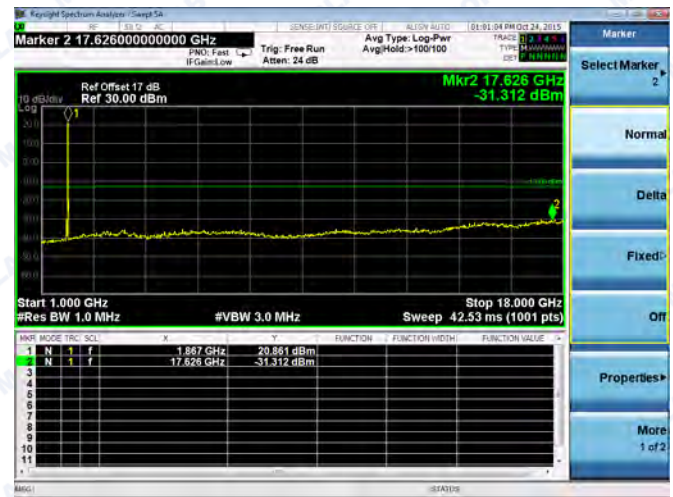
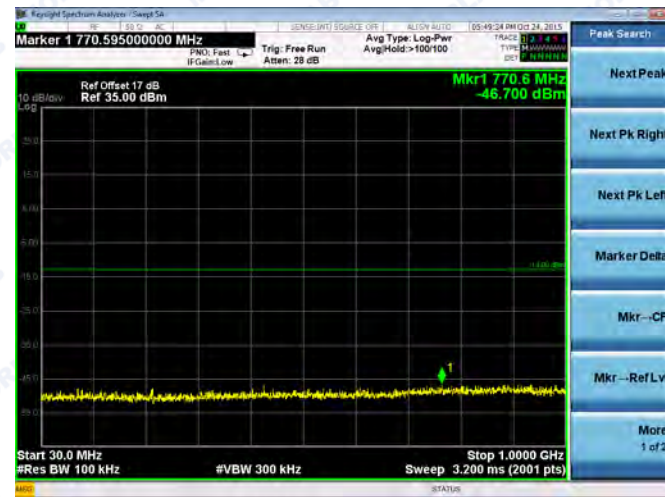
REPORT No.: SZ15100023W02

LTE Band 2 20MHz BW Mid Channel

QPSK



16QAM

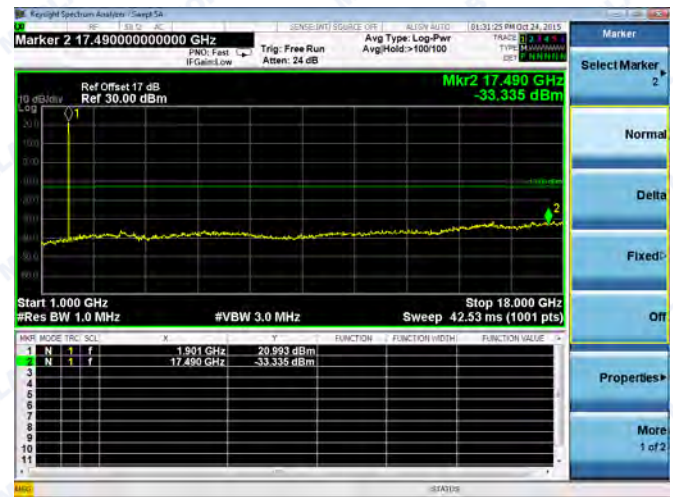
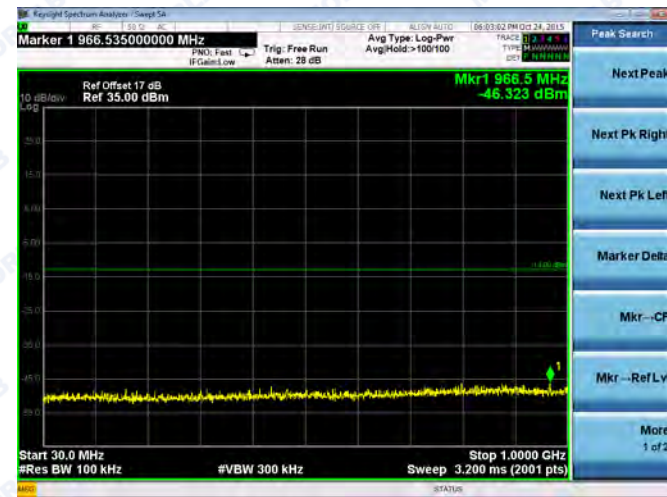




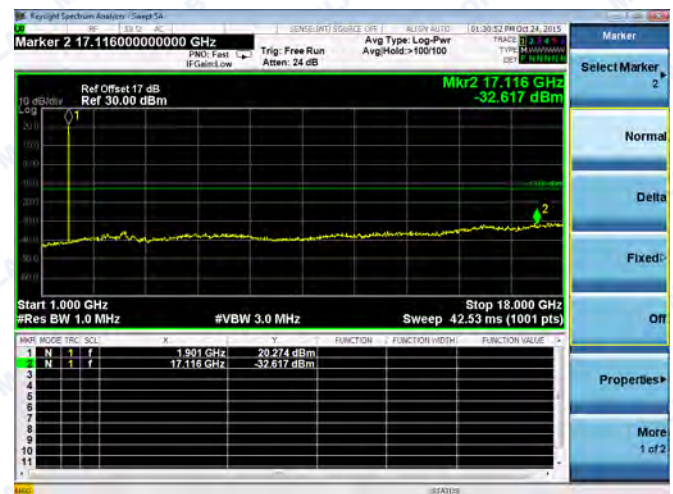
REPORT No.: SZ15100023W02

LTE Band 2 1.4MHz BW High Channel

QPSK



16QAM

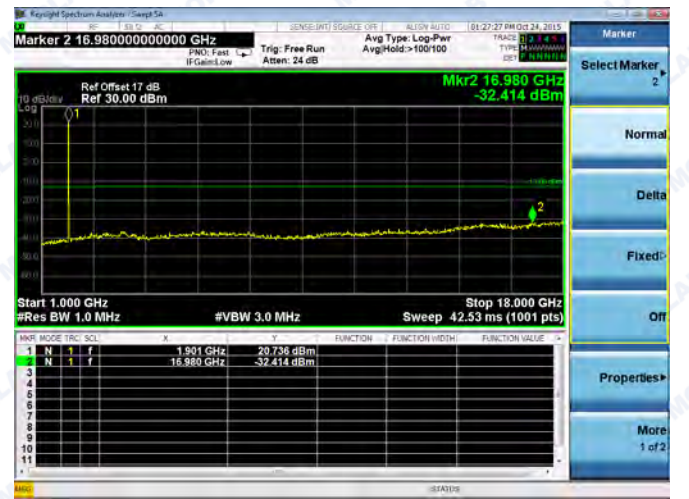
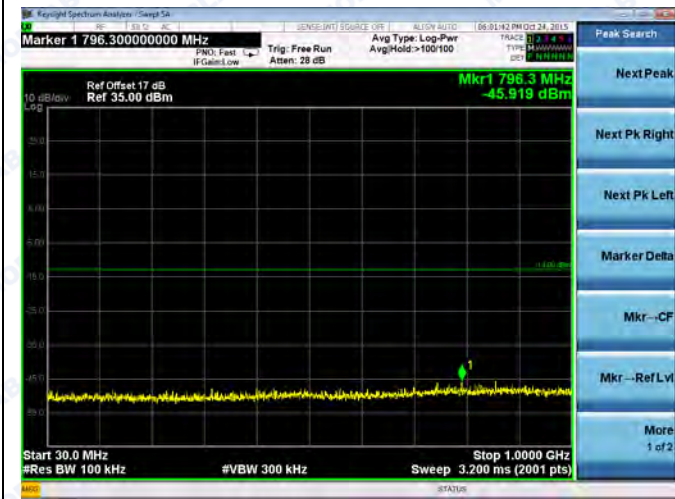




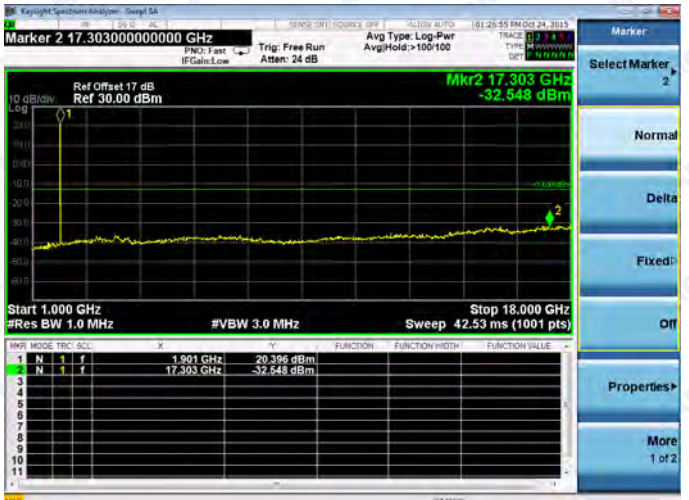
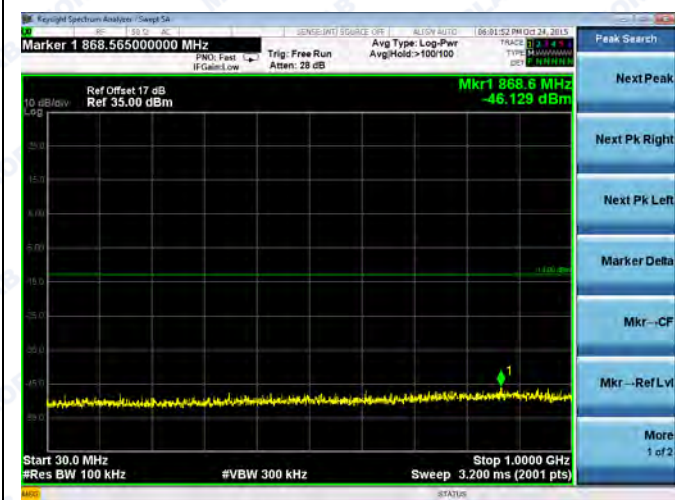
REPORT No.: SZ15100023W02

LTE Band 2 3MHz BW High Channel

QPSK



16QAM

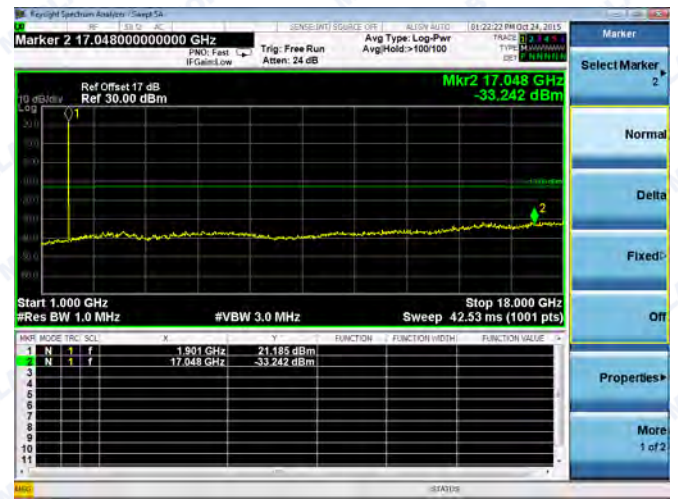




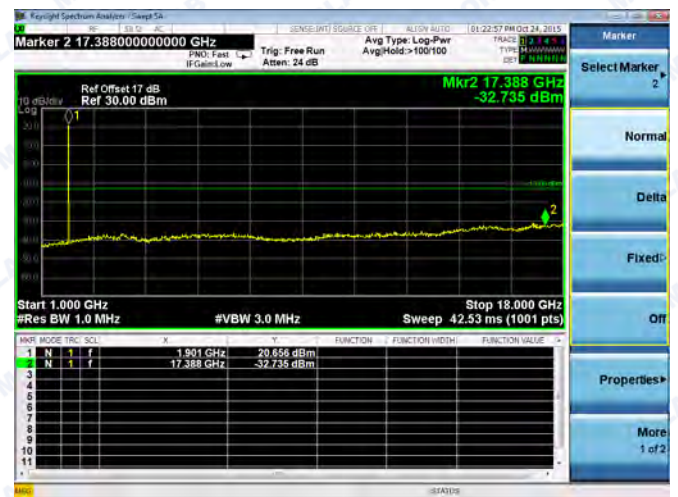
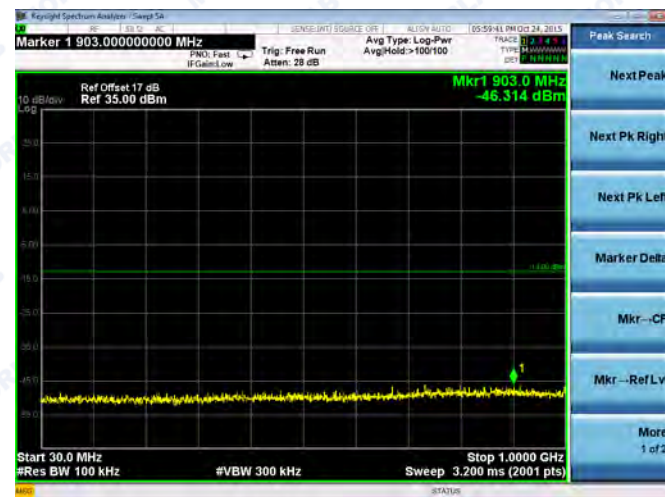
REPORT No.: SZ15100023W02

LTE Band 2 5MHz BW High Channel

QPSK



16QAM

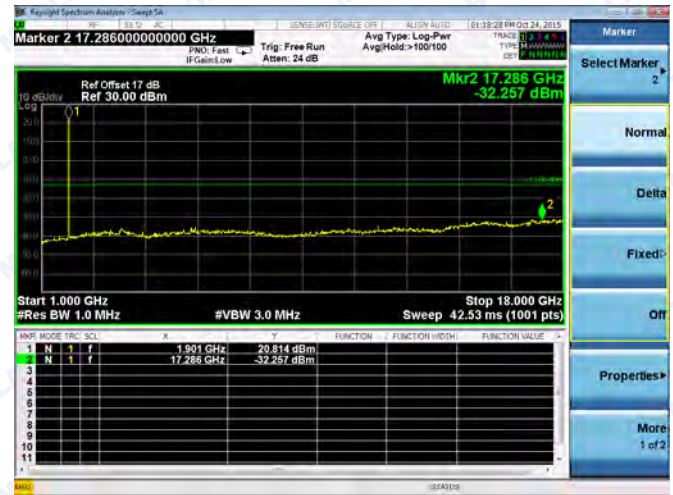
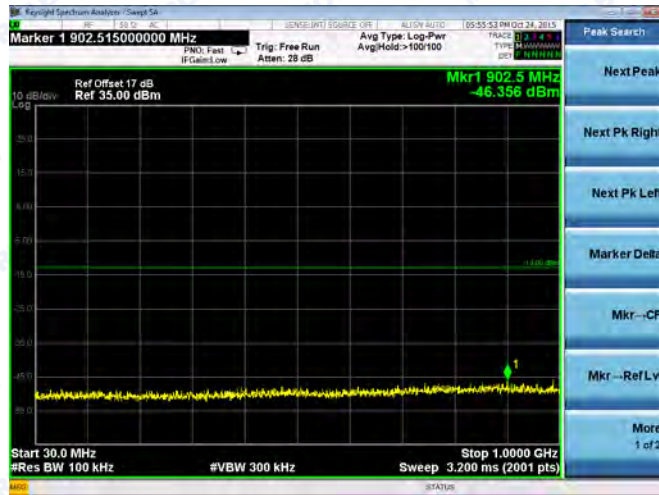




REPORT No.: SZ15100023W02

LTE Band 2 10MHz BW High Channel

QPSK



16QAM

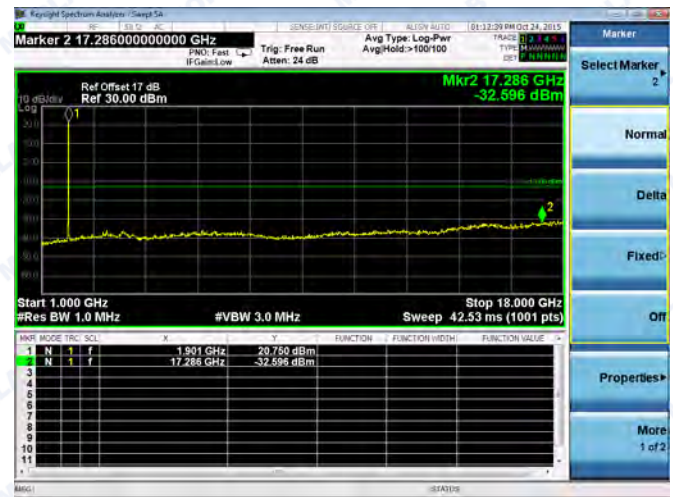




REPORT No.: SZ15100023W02

LTE Band 2 15MHz BW High Channel

QPSK



16QAM

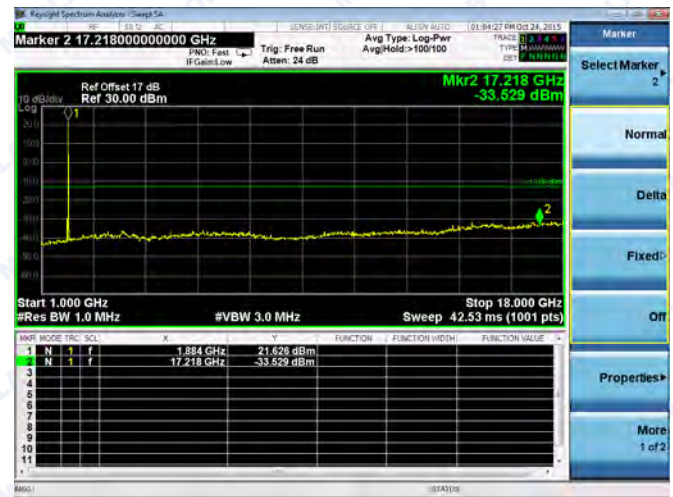
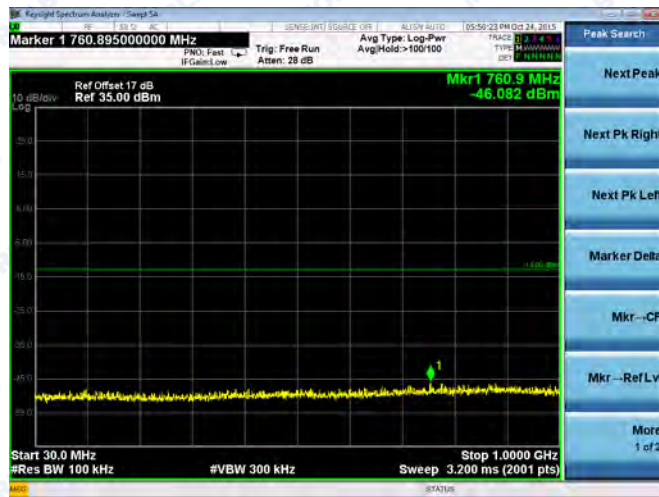




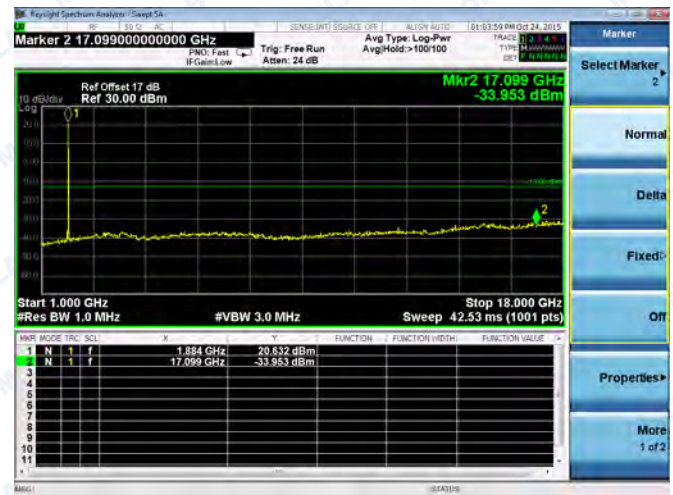
REPORT No.: SZ15100023W02

LTE Band 2 20MHz BW High Channel

QPSK



16QAM

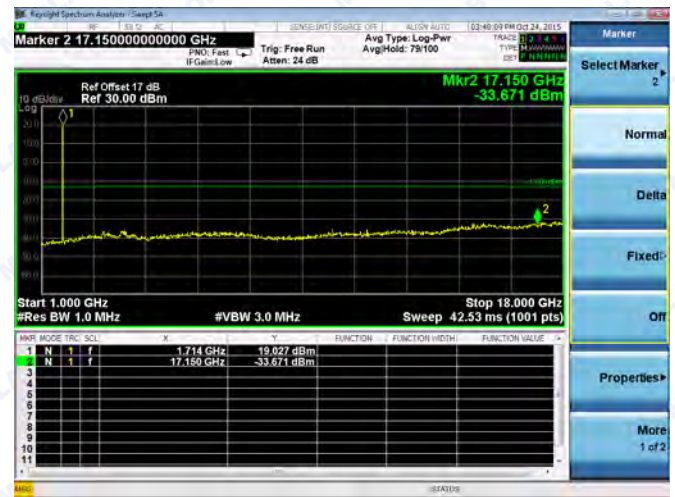




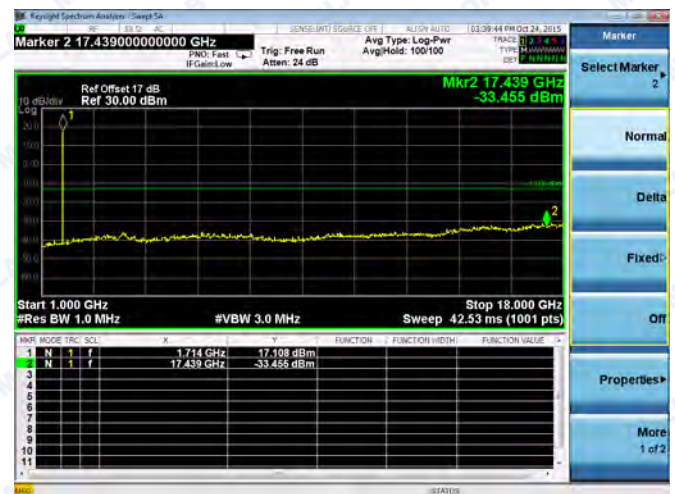
REPORT No.: SZ15100023W02

LTE Band 4 1.4MHz BW Low Channel

QPSK



16QAM

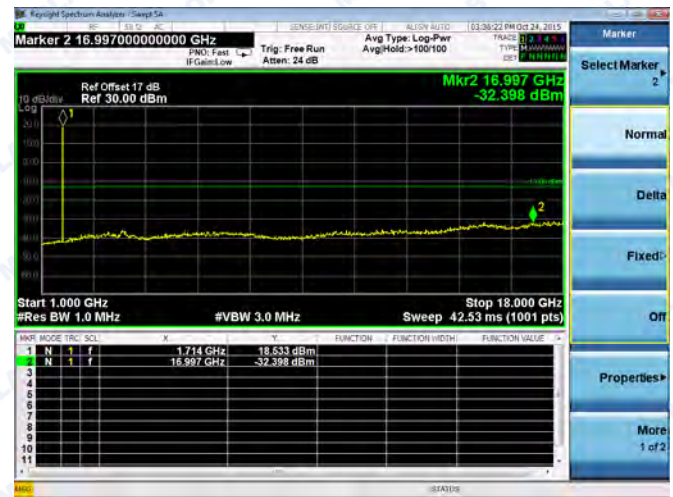
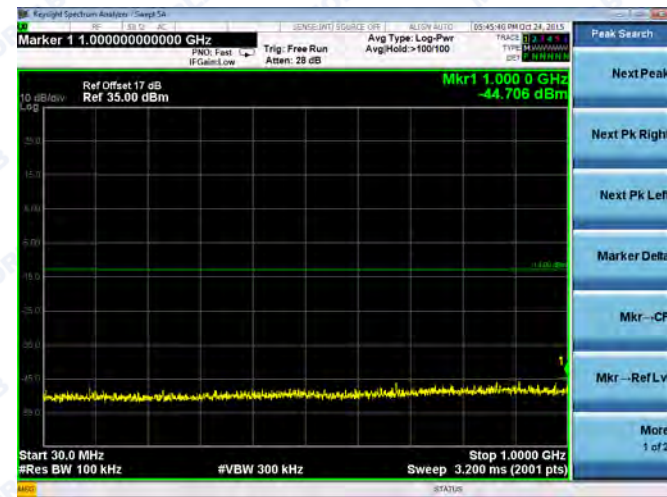




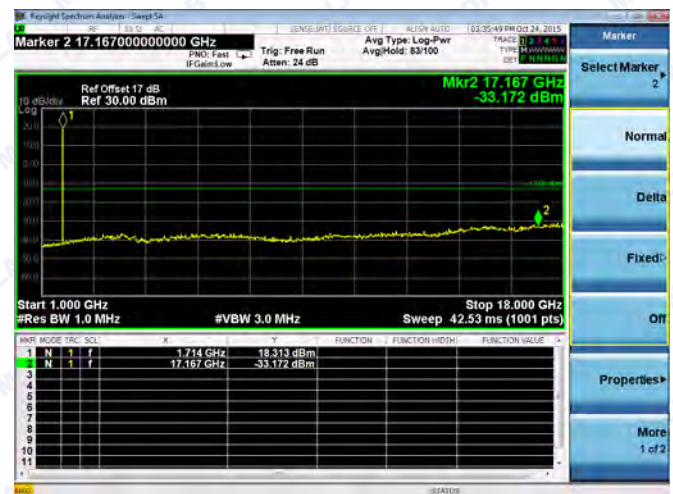
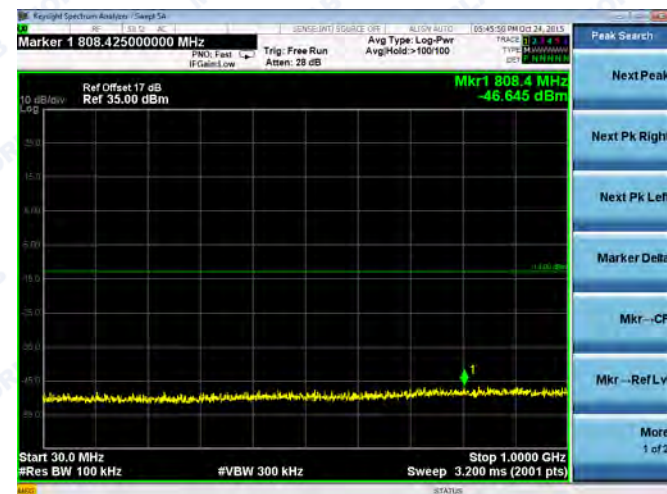
REPORT No.: SZ15100023W02

LTE Band 4 3MHz BW Low Channel

QPSK



16QAM

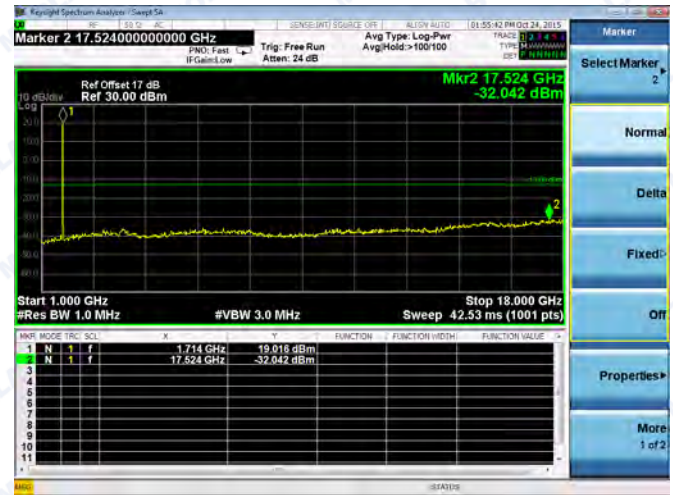




REPORT No.: SZ15100023W02

LTE Band 4 5MHz BW Low Channel

QPSK



16QAM

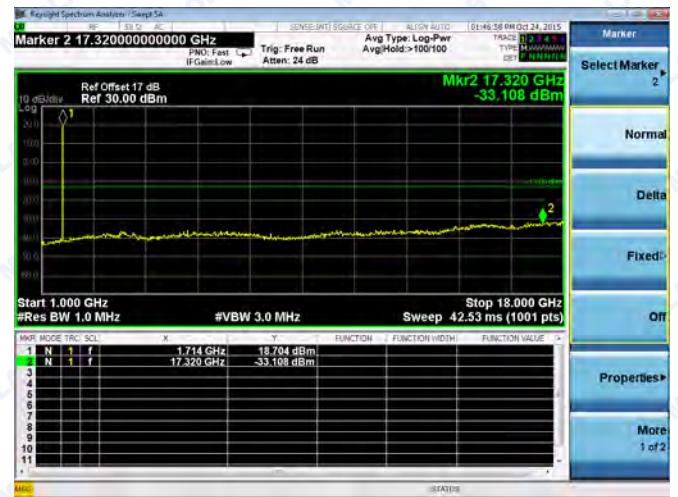
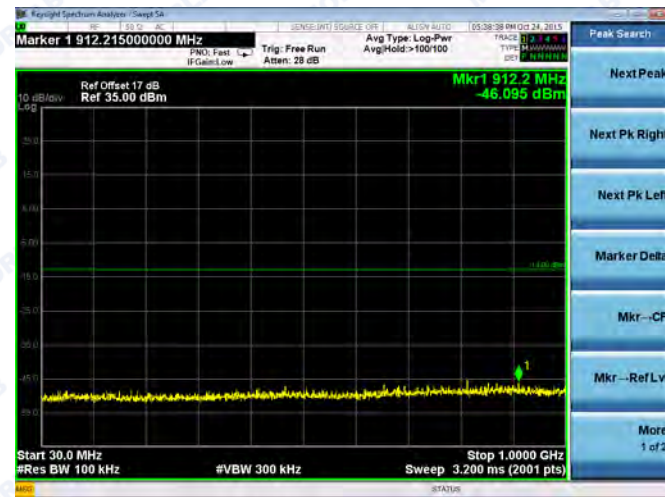




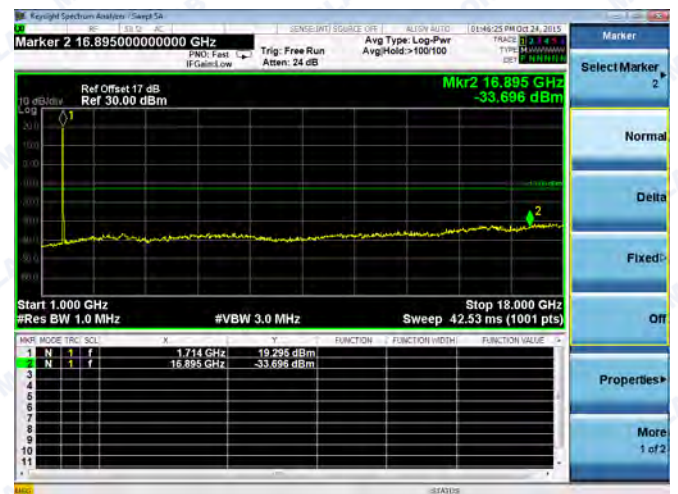
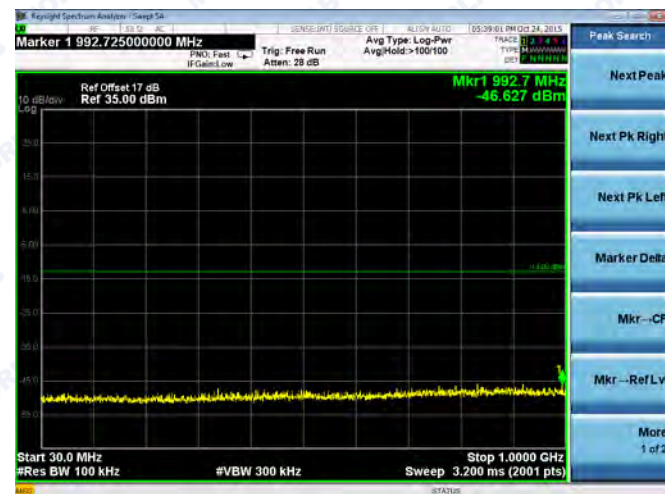
REPORT No.: SZ15100023W02

LTE Band 4 10MHz BW Low Channel

QPSK



16QAM

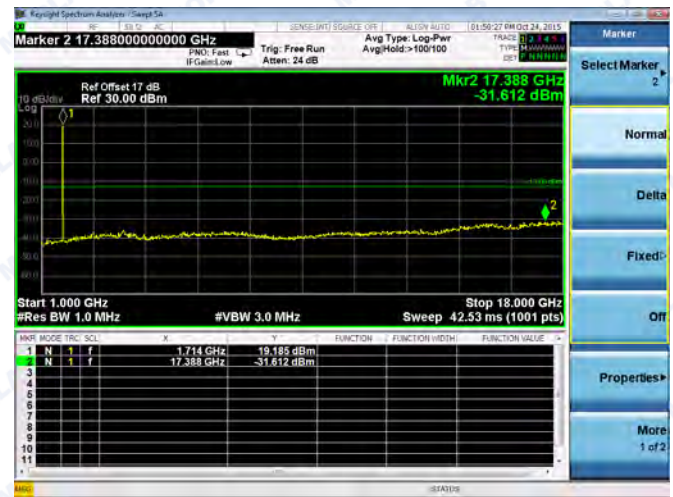




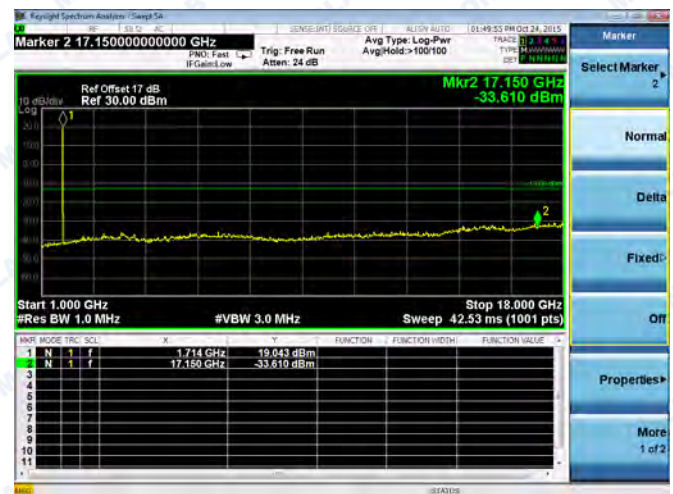
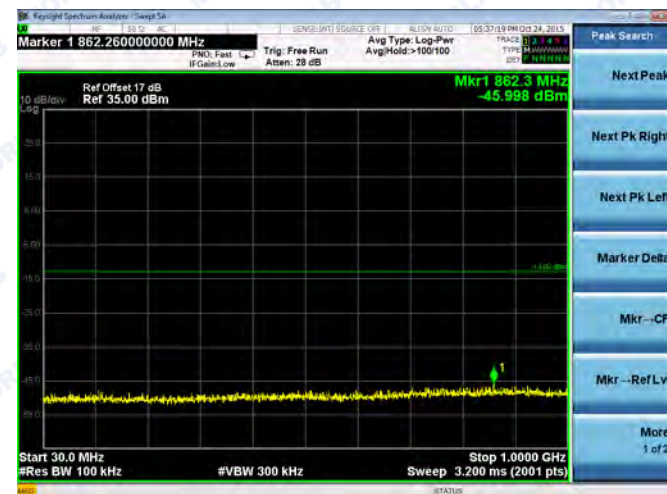
REPORT No.: SZ15100023W02

LTE Band 4 15MHz BW Low Channel

QPSK



16QAM

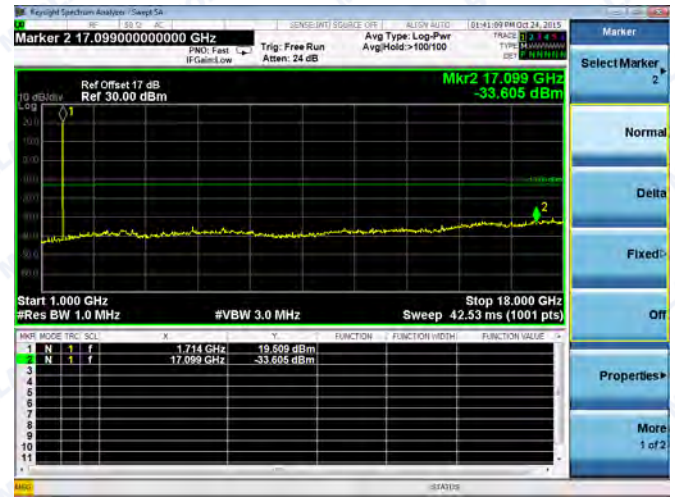
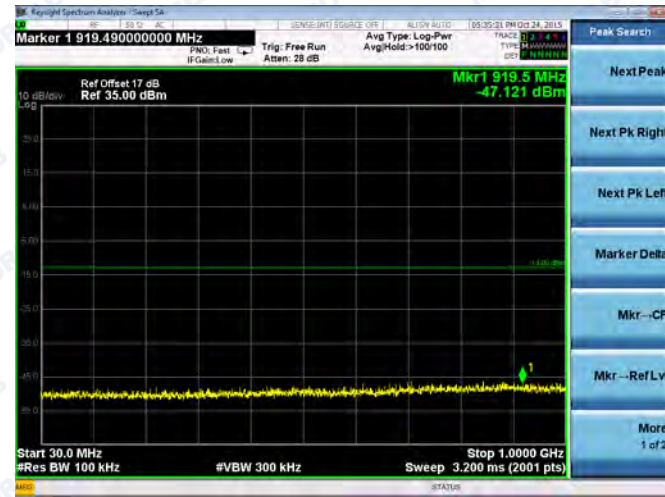




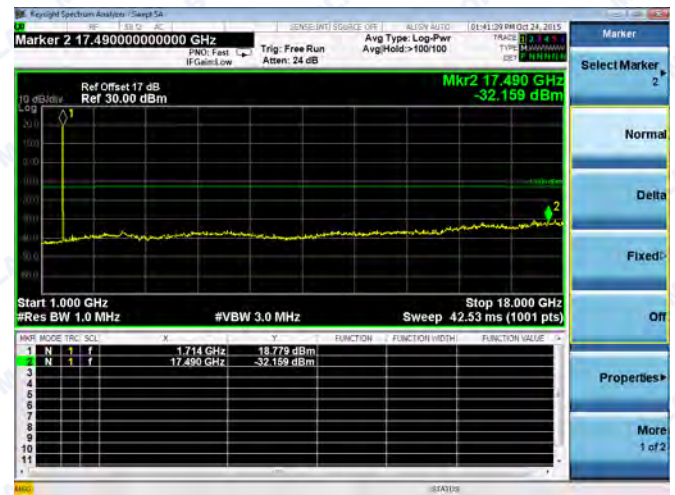
REPORT No.: SZ15100023W02

LTE Band 4 20MHz BW Low Channel

QPSK



16QAM



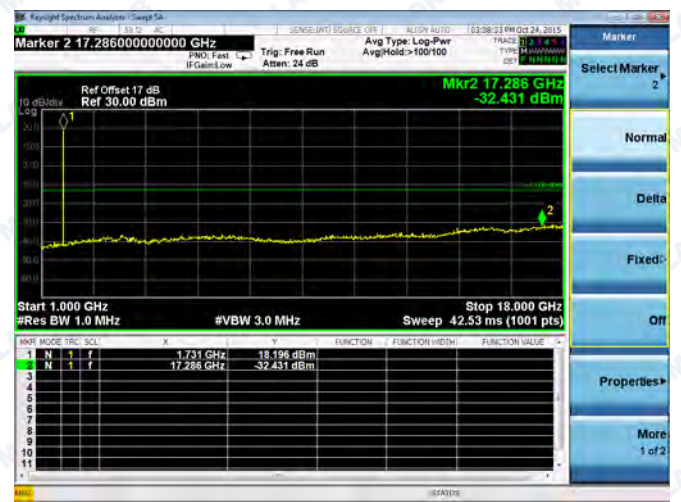


REPORT No.: SZ15100023W02

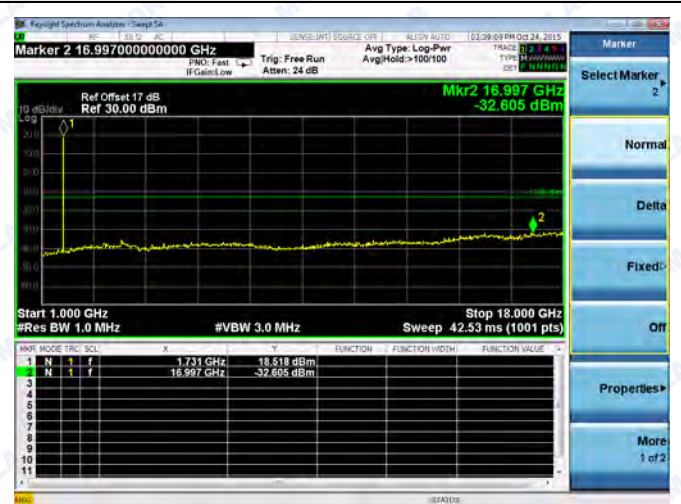
Middle channel:

LTE Band 4 1.4MHz BW Mid Channel

QPSK



16QAM

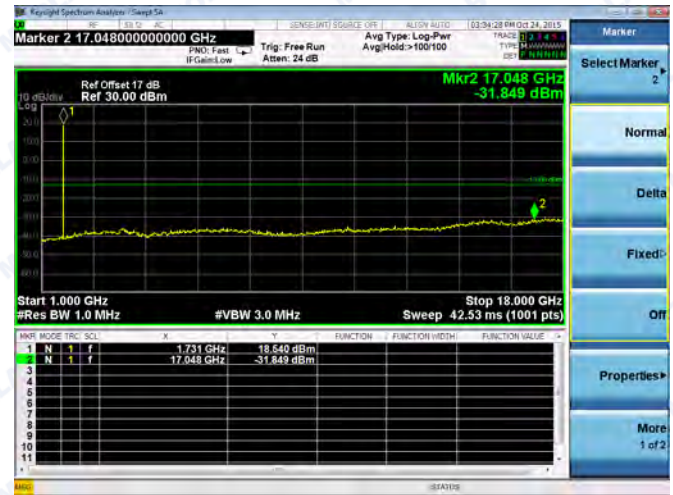
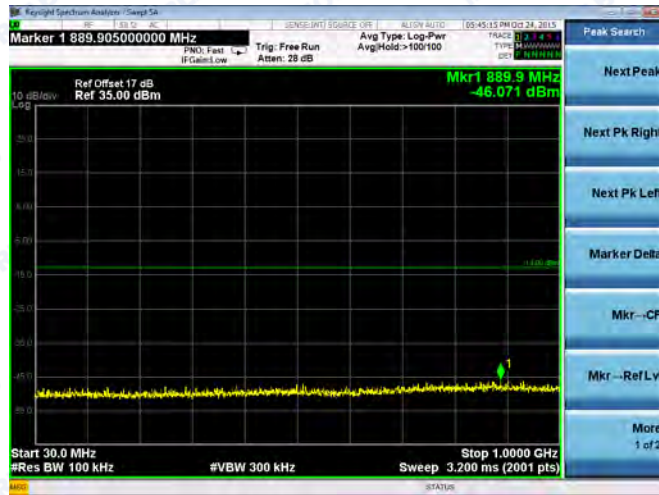




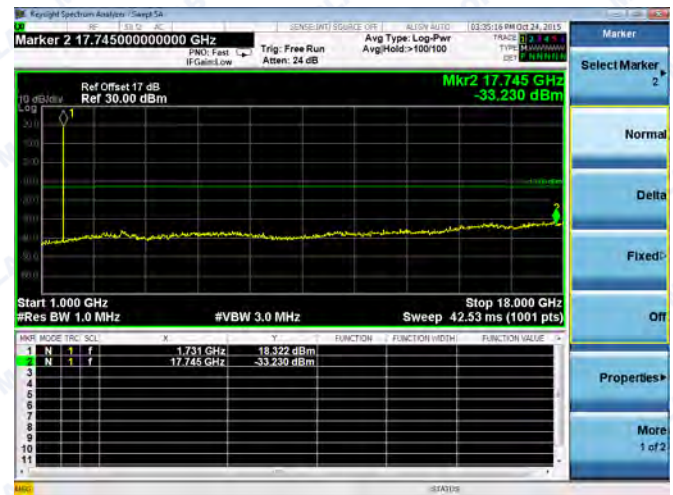
REPORT No.: SZ15100023W02

LTE Band 4 3MHz BW Mid Channel

QPSK



16QAM

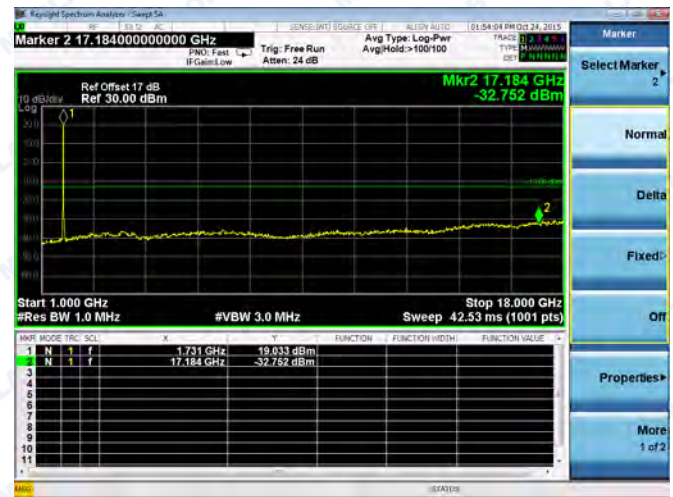




REPORT No.: SZ15100023W02

LTE Band 4 5MHz BW Mid Channel

QPSK



16QAM

