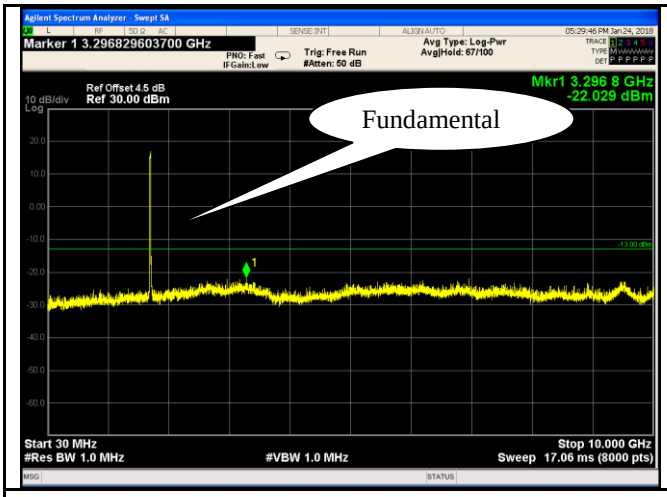
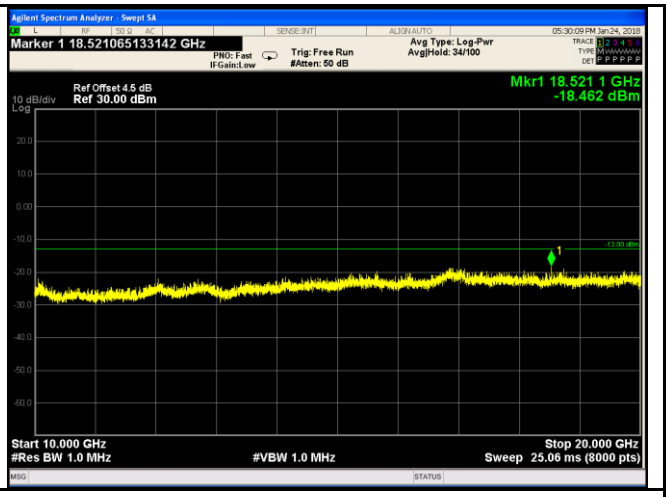
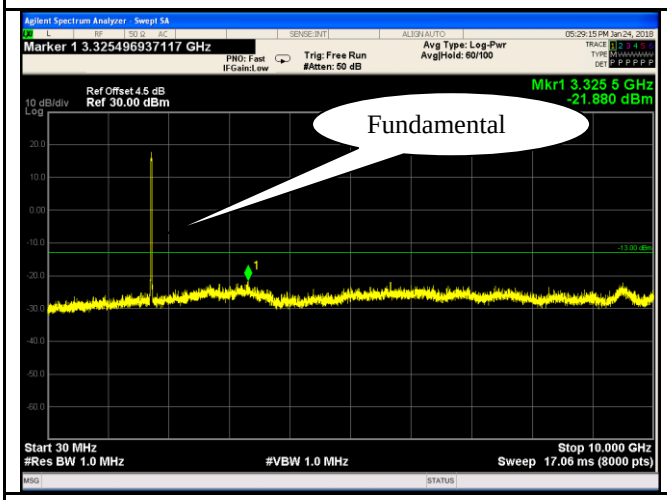
LTE Band IV (Part27) result



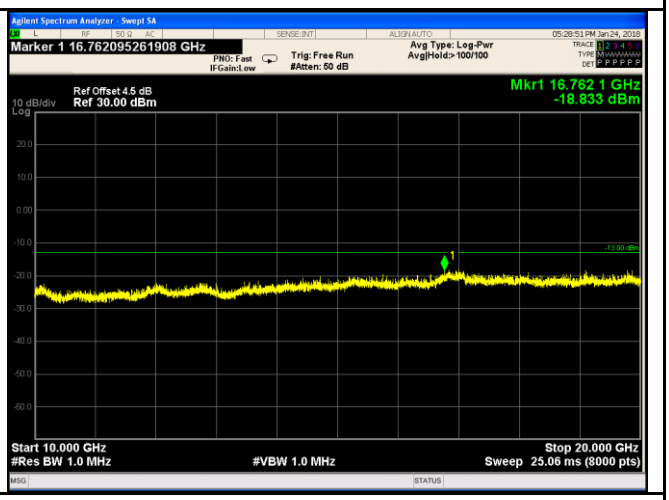
LTE Band IV - Low Channel-1



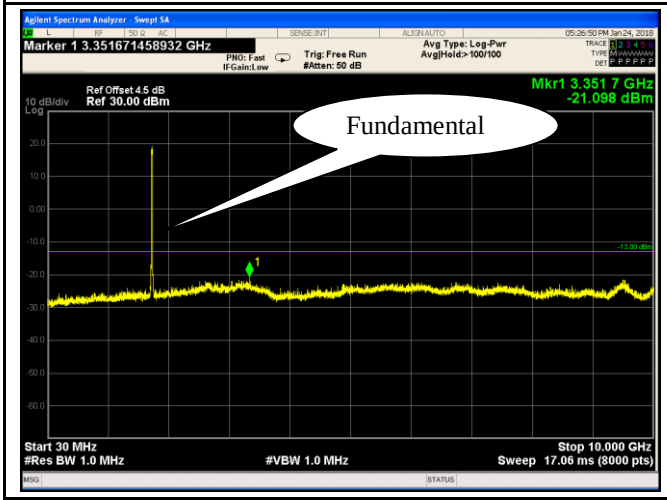
LTE Band IV - Low Channel-2



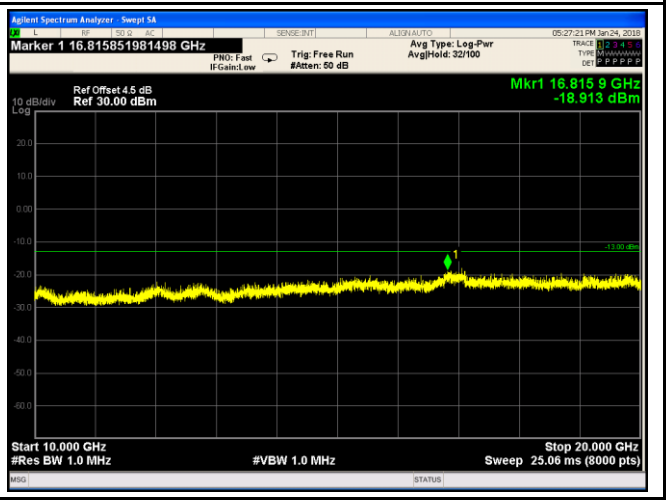
LTE Band IV - Middle Channel-1



LTE Band IV - Middle Channel-2

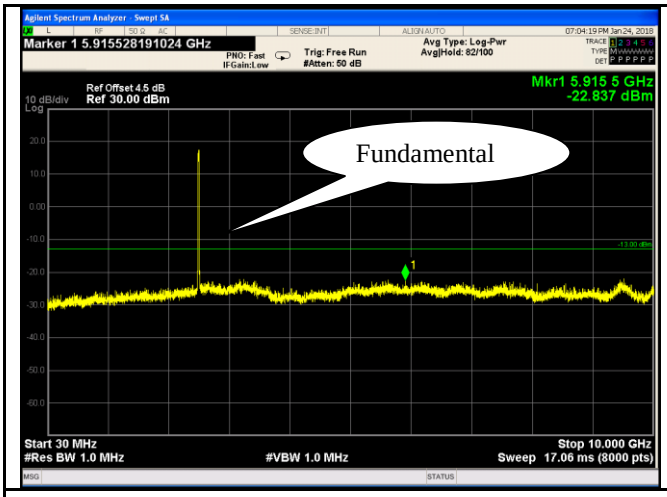


LTE Band IV - High Channel-1

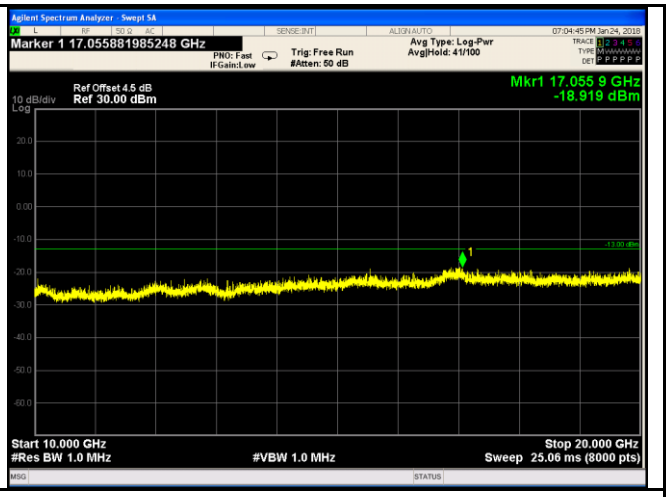


LTE Band IV - High Channel-2

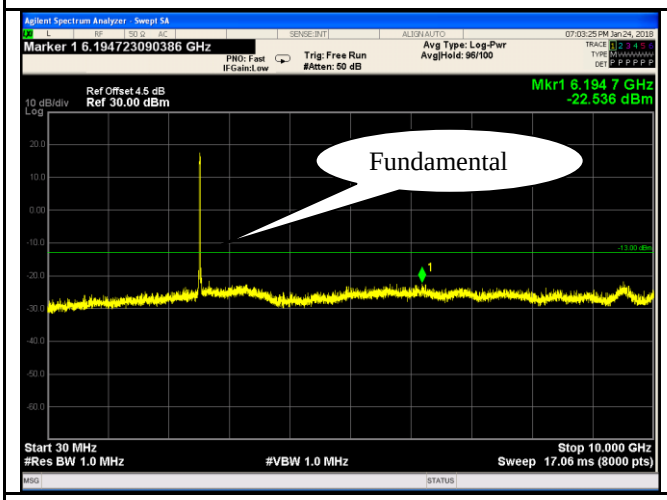
LTE Band VII (Part 27)



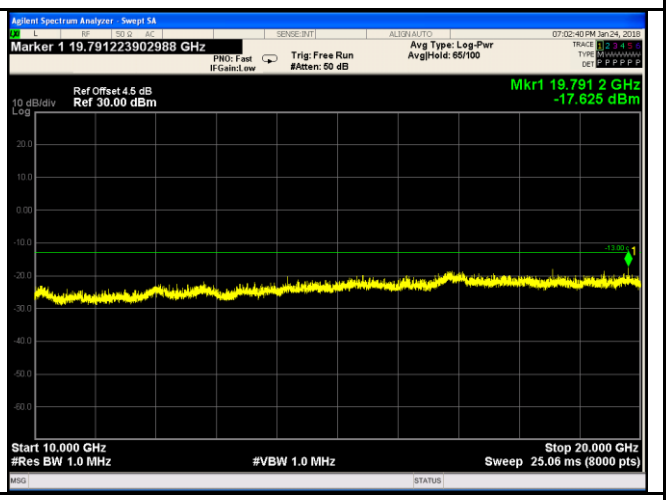
LTE Band VII - Low Channel-1



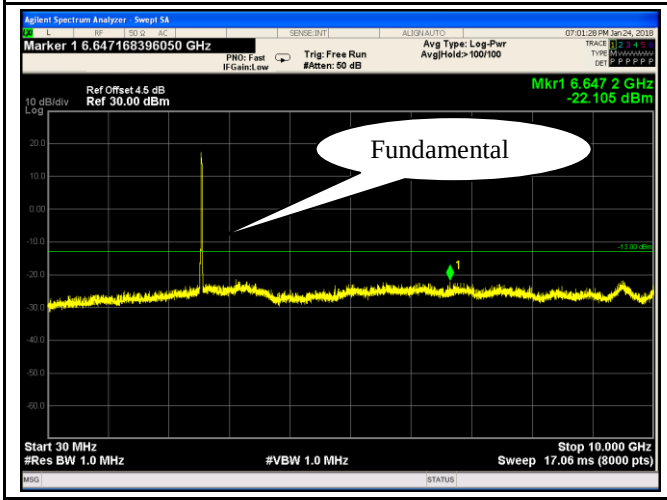
LTE Band VII - Low Channel-2



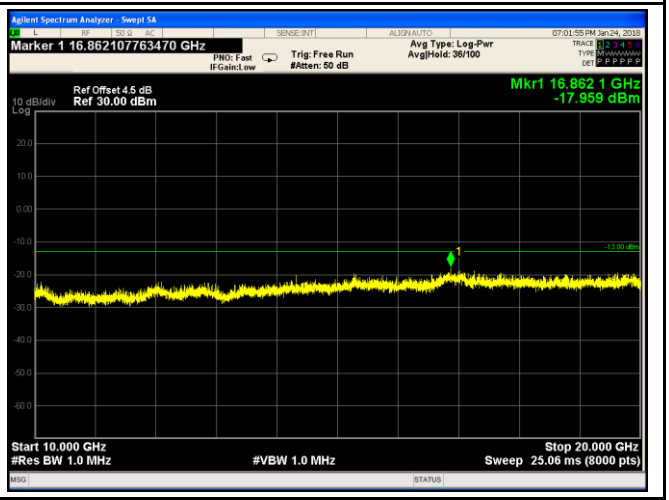
LTE Band VII- Middle Channel-1



LTE Band VII - Middle Channel-2

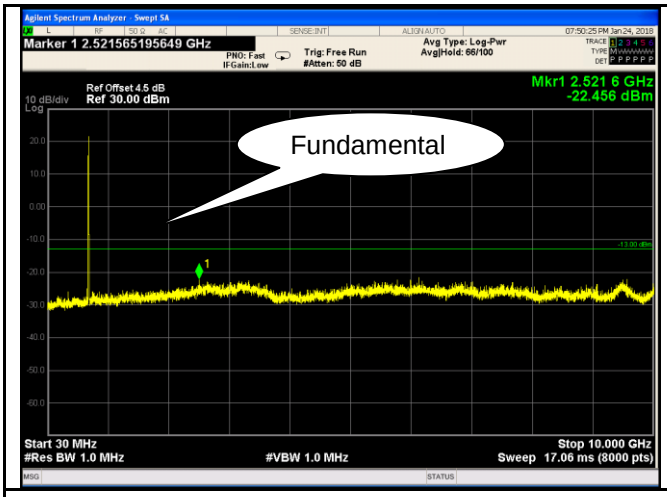


LTE Band VII - High Channel-1

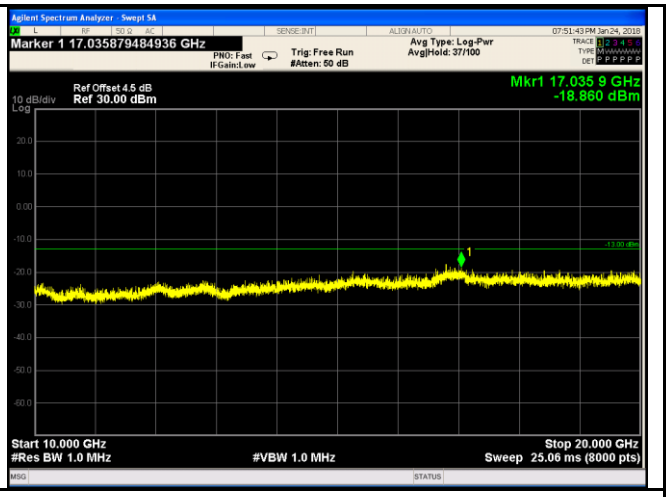


LTE Band VII - High Channel-2

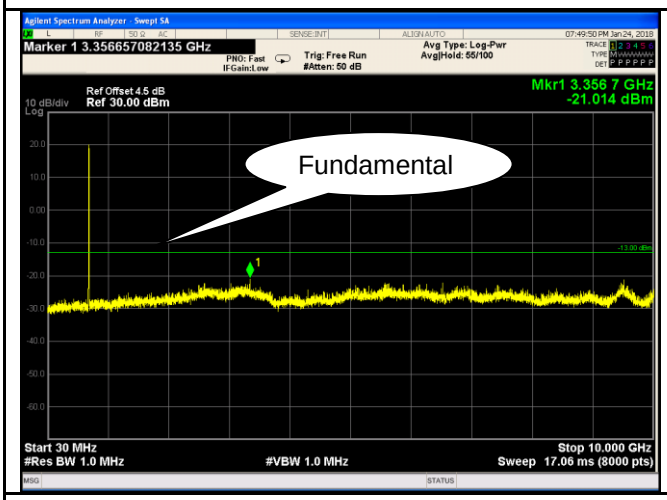
LTE Band XII (Part 27)



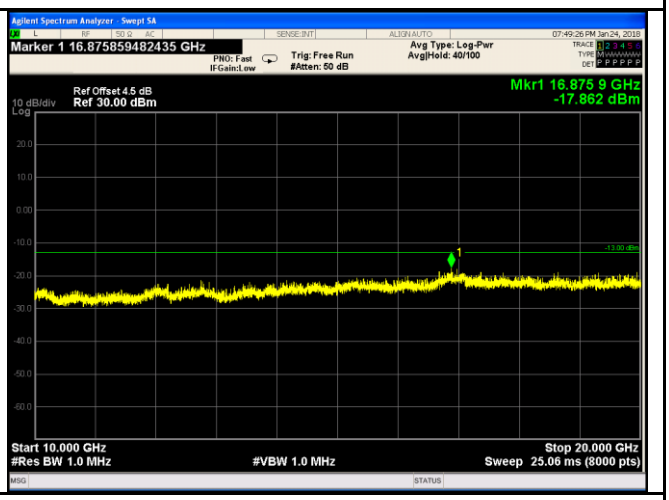
LTE Band XII - Low Channel-1



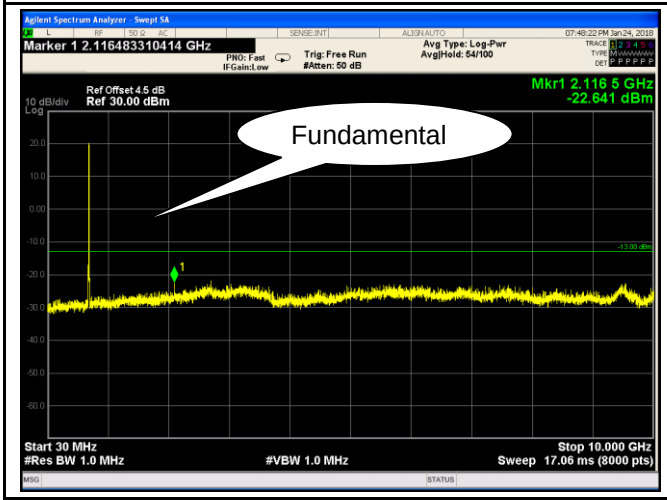
LTE Band XII - Low Channel-2



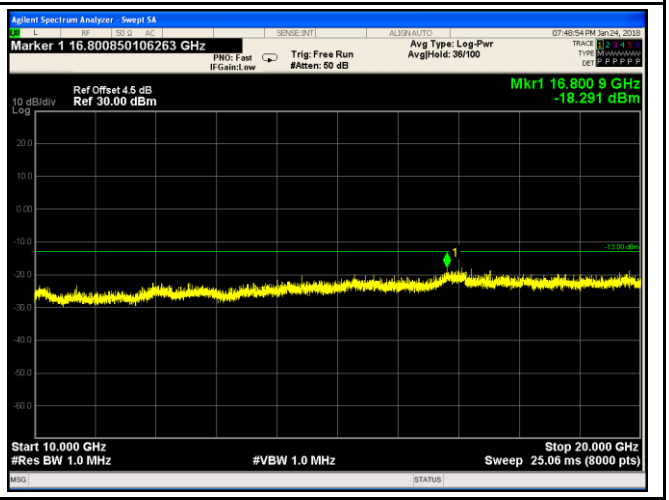
LTE Band XII- Middle Channel-1



LTE Band XII - Middle Channel-2



LTE Band XII - High Channel-1

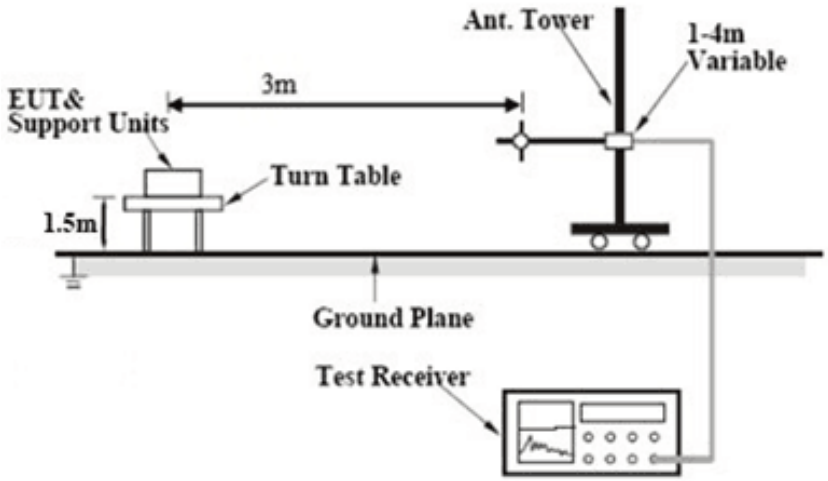


LTE Band XII - High Channel-2

6.6 Spurious Radiated Emissions

Temperature	25 °C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	January 16, 2018
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	☑
Test setup			
Test Procedure	1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. 3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. Sample Calculation: EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna		

	Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)
Remark	
Result	☑ Pass ☐ Fail

Test Data ☑ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☑ N/A

LTE Band II (Part 24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3720	-43.72	V	10.25	2.73	-36.2	-13	-23.2
3720	-44.83	H	10.25	2.73	-37.31	-13	-24.31
267.86	-51.97	V	3.74	0.17	-48.4	-13	-35.4
819.19	-53.11	H	6.06	0.35	-47.4	-13	-34.4

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-43.79	V	10.25	2.73	-36.27	-13	-23.27
3760	-44.8	H	10.25	2.73	-37.28	-13	-24.28
644.87	-51.76	V	5.97	0.3	-46.09	-13	-33.09
487.19	-52.01	H	6.15	0.38	-46.24	-13	-33.24

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3800	-42.73	V	10.36	2.73	-35.1	-13	-22.1
3800	-44.29	H	10.36	2.73	-36.66	-13	-23.66
380.9	-53.16	V	6.05	0.39	-47.5	-13	-34.5
836.3	-53.27	H	6.08	0.36	-47.55	-13	-34.55

Note:

*1, The testing has been conformed to 10*1907.5MHz=19,075MHz*
2, All other emissions more than 30 dB below the limit
3, X-Axis, Y-Axis and Z–Axis were investigated. The results above show only the worst case.
4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

LTE Band IV (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3440	-44.06	V	10.06	2.52	-36.52	-13	-23.52
3440	-43.98	H	10.06	2.52	-36.44	-13	-23.44
323.73	-52.25	V	3.71	0.18	-48.72	-13	-35.72
673.99	-52.68	H	6.09	0.38	-46.97	-13	-33.97

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3465	-43.54	V	10.09	2.52	-35.97	-13	-22.97
3465	-44.81	H	10.09	2.52	-37.24	-13	-24.24
605.91	-53.4	V	6.13	0.36	-47.63	-13	-34.63
473.17	-52.13	H	6.09	0.36	-46.4	-13	-33.4

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3490	-44.35	V	10.09	2.52	-36.78	-13	-23.78
3490	-43.36	H	10.09	2.52	-35.79	-13	-22.79
394.54	-51.74	V	6.15	0.35	-45.94	-13	-32.94
541.86	-52.18	H	6.1	0.34	-46.42	-13	-33.42

Note:

*1, The testing has been conformed to 10*1752.5MHz=17,525MHz*
2, All other emissions more than 30 dB below the limit
3, X-Axis, Y-Axis and Z–Axis were investigated. The results above show only the worst case.

LTE Band VII (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
5020	-42.98	V	10.29	0.98	-33.67	-13	-20.67
5020	-43.22	H	10.29	0.98	-33.91	-13	-20.91
729.1	-52.27	V	6.1	0.39	-46.56	-13	-33.56
354.22	-53.74	H	3.72	0.21	-50.23	-13	-37.23

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
5070	-43.29	V	10.3	0.99	-33.98	-13	-20.98
5070	-44.6	H	10.3	0.99	-35.29	-13	-22.29
399.95	-51.84	V	3.71	0.18	-48.31	-13	-35.31
223.58	-51.8	H	3.74	0.15	-48.21	-13	-35.21

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
5120	-44.04	V	10.32	1	-34.72	-13	-21.72
5120	-43.06	H	10.32	1	-33.74	-13	-20.74
791.02	-53.59	V	6.08	0.36	-47.87	-13	-34.87
631.78	-53.41	H	6.12	0.37	-47.66	-13	-34.66

Note:

*1, The testing has been conformed to 10*2567.5MHz=25,675MHz*
2, All other emissions more than 30 dB below the limit
3, X-Axis, Y-Axis and Z –Axis were investigated. The results above show only the worst case.
4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.

LTE Band XII (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1408	-42.92	V	7.65	0.75	-36.02	-13	-23.02
1408	-43.66	H	7.65	0.75	-36.76	-13	-23.76
617.82	-51.67	V	5.99	0.26	-45.94	-13	-32.94
486.38	-53.09	H	5.99	0.26	-47.36	-13	-34.36

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1415	-43.29	V	7.65	0.75	-36.39	-13	-23.39
1415	-44.18	H	7.65	0.75	-37.28	-13	-24.28
245.64	-52.33	V	3.74	0.2	-48.79	-13	-35.79
689.79	-53.33	H	6.13	0.35	-47.55	-13	-34.55

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1422	-44.1	V	7.65	0.75	-37.2	-13	-24.2
1422	-43.92	H	7.65	0.75	-37.02	-13	-24.02
277.4	-51.75	V	3.65	0.2	-48.3	-13	-35.3
768.68	-52.41	H	6.05	0.39	-46.75	-13	-33.75

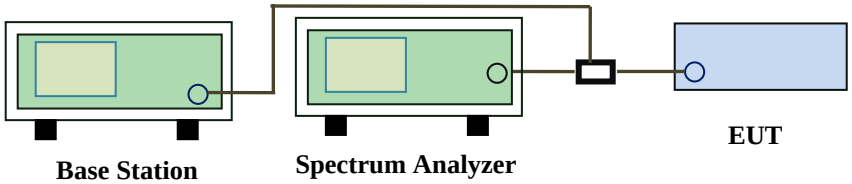
Note:

*1, The testing has been conformed to 10*715.3MHz=7,153MHz*
2, All other emissions more than 30 dB below the limit
3, X-Axis, Y-Axis and Z–Axis were investigated. The results above show only the worst case.

6.7 Band Edge

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	January 24, 2018
Tested By :	Aaron Liang

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.	☑
Test setup			
Procedure	- The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.		
Remark			
Result	☑ Pass ☐ Fail		

Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

LTE Band II (Part 24E) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	18607	1850	16QAM	-22.574	-13
			QPSK	-20.421	-13
1.4	18900	1910	16QAM	-20.568	-13
			QPSK	-19.256	-13
3	18615	1850	16QAM	-22.058	-13
			QPSK	-21.285	-13
3	19185	1910	16QAM	-15.71	-13
			QPSK	-17.257	-13
5	18625	1850	16QAM	-19.33	-13
			QPSK	-18.564	-13
5	19175	1910	16QAM	-15.769	-13
			QPSK	16.556	-13
10	18650	1850	16QAM	-20.167	-13
			QPSK	-19.236	-13
10	19150	1910	16QAM	-20.192	-13
			QPSK	-20.927	-13
15	18675	1850	16QAM	-17.753	-13
			QPSK	-16.713	-13
15	19125	1910	16QAM	-18.844	-13
			QPSK	-16.822	-13
20	18700	1850	16QAM	-24.989	-13
			QPSK	-24.609	-13
20	19100	1910	16QAM	-24.097	-13
			QPSK	-24.126	-13

LTE Band IV (Part 27) result

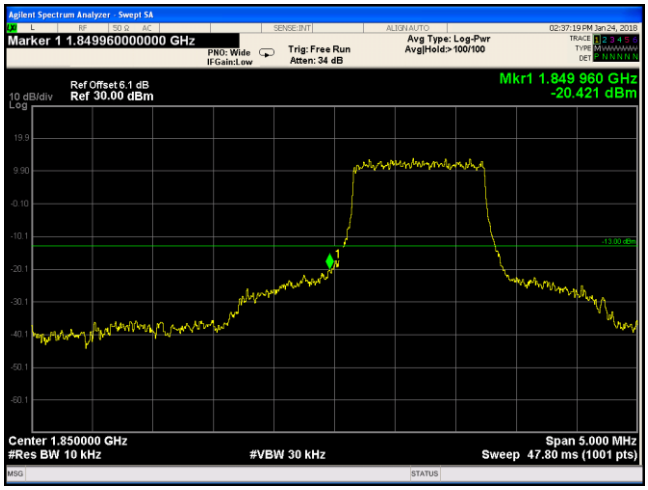
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	19957	1709.9	16QAM	-16.784	-13
			QPSK	-16.018	-13
1.4	20393	1755	16QAM	-17.574	-13
			QPSK	-16.985	-13
3	19965	1709.9	16QAM	-22.008	-13
			QPSK	-20.364	-13
3	20385	1755	16QAM	-20.052	-13
			QPSK	-20.024	-13
5	19975	1709.9	16QAM	-24.572	-13
			QPSK	-23.123	-13
5	20375	1755	16QAM	-23.502	-13
			QPSK	-23.181	-13
10	20000	1709.9	16QAM	-26.581	-13
			QPSK	-26.203	-13
10	20350	1755	16QAM	-25.807	-13
			QPSK	-22.721	-13
15	20025	1709.9	16QAM	-16.784	-13
			QPSK	-16.018	-13
15	20325	1755	16QAM	-17.574	-13
			QPSK	-16.985	-13
20	20050	1709.9	16QAM	-22.008	-13
			QPSK	-20.364	-13
20	20300	1755	16QAM	-20.052	-13
			QPSK	-20.024	-13

LTE Band XII (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	23017	699	16QAM	-23.146	-13
			QPSK	-23.349	-13
1.4	23173	716	16QAM	-23.918	-13
			QPSK	-24.174	-13
3	23025	699	16QAM	-23.07	-13
			QPSK	-24.237	-13
3	23165	716	16QAM	-25.404	-13
			QPSK	-24.294	-13
5	23035	699	16QAM	19.582	-13
			QPSK	-17.335	-13
5	23155	716	16QAM	-18.306	-13
			QPSK	-16.67	-13
10	23060	698	16QAM	-18.739	-13
			QPSK	-18.004	-13
10	23130	716	16QAM	-19.392	-13
			QPSK	-19.822	-13

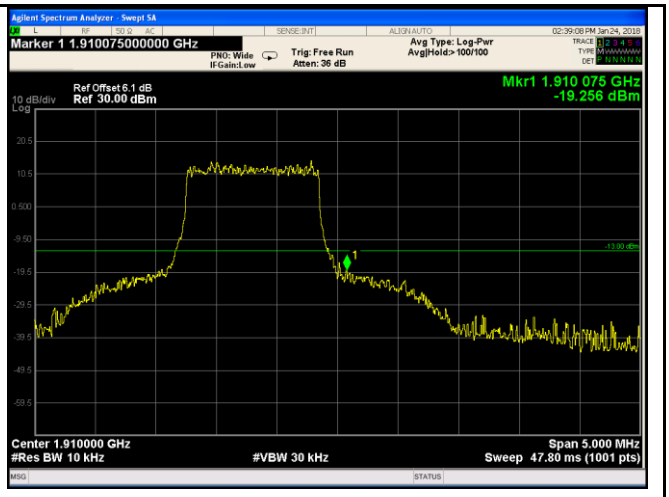
Test Plots

LTE Band II (Part 24E)



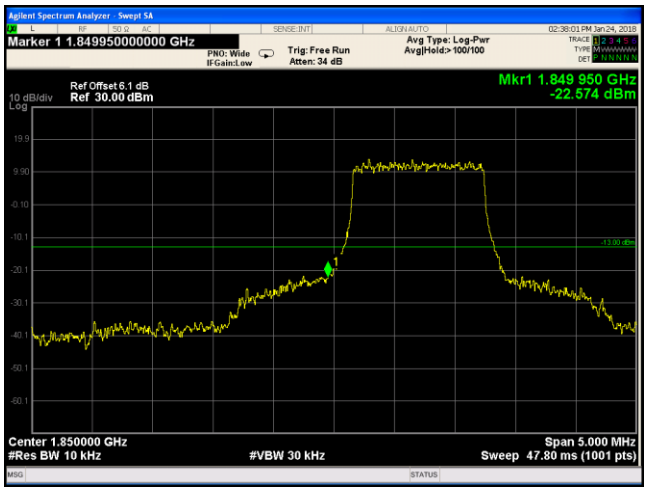
LTE Band II - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log (13.29)=4.5+1.6=6.1dB



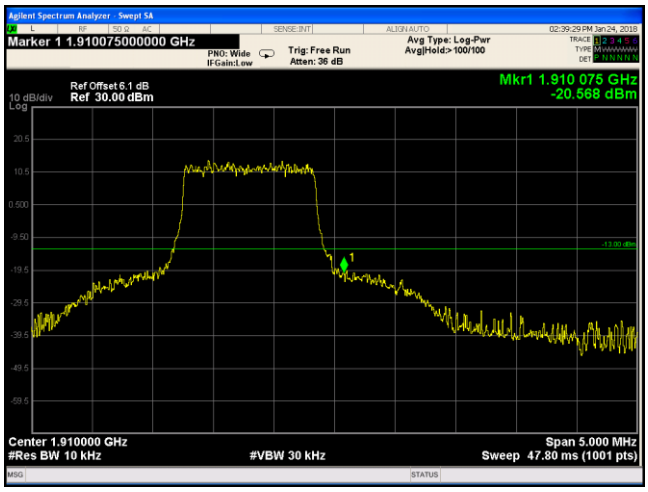
LTE Band II - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log (13.03)=4.5+1.6=6.1dB



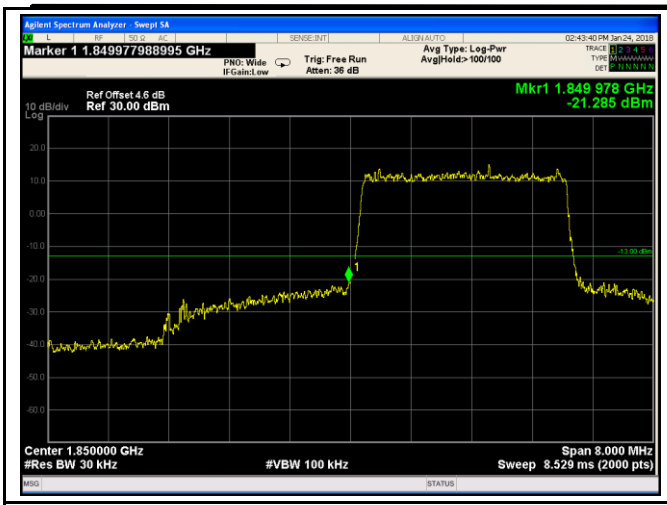
LTE Band II - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log (13.36/10)=4.5+1.6=6.1 dB



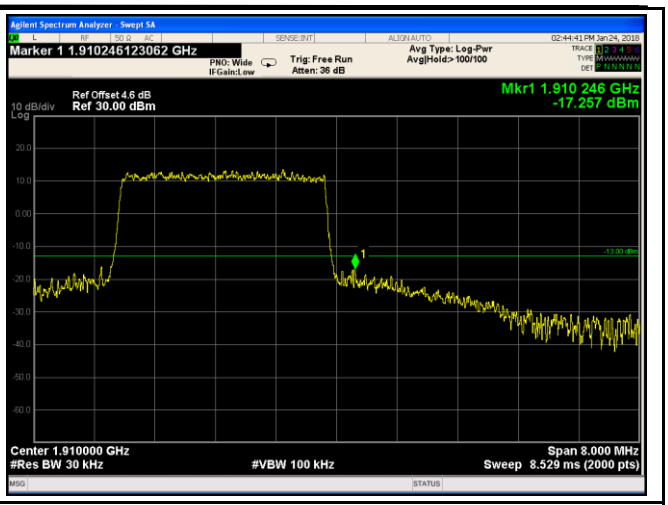
LTE Band II - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log (13.15/10)=4.5+1.6=6.1 dB



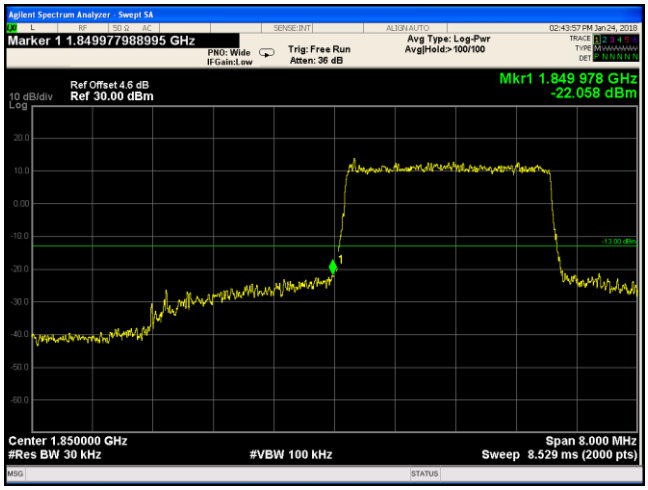
LTE Band II - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log (30.13/30)=4.5+0.1=4.6 dB



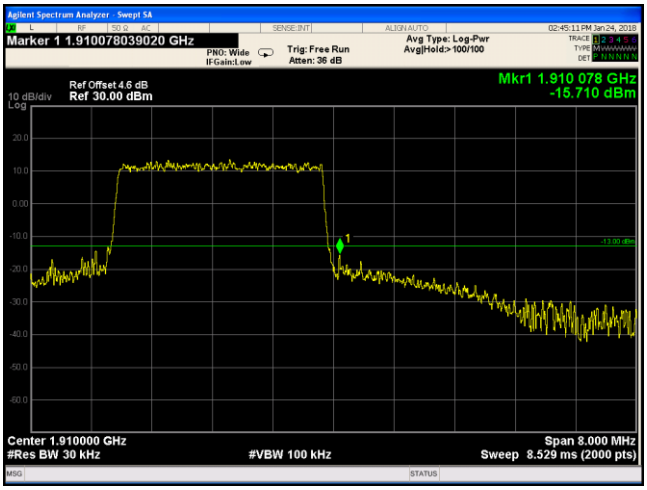
LTE Band II - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log (30.25/30)=4.5+0.1=4.6 dB



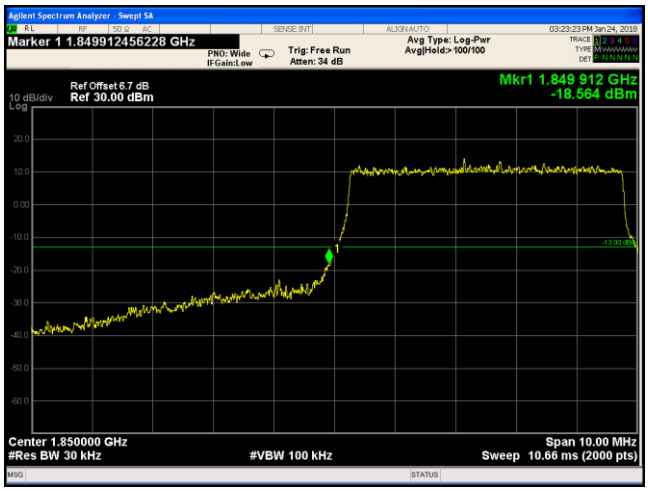
LTE Band II - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log (29.90/30)=4.5+0.1=4.6 dB



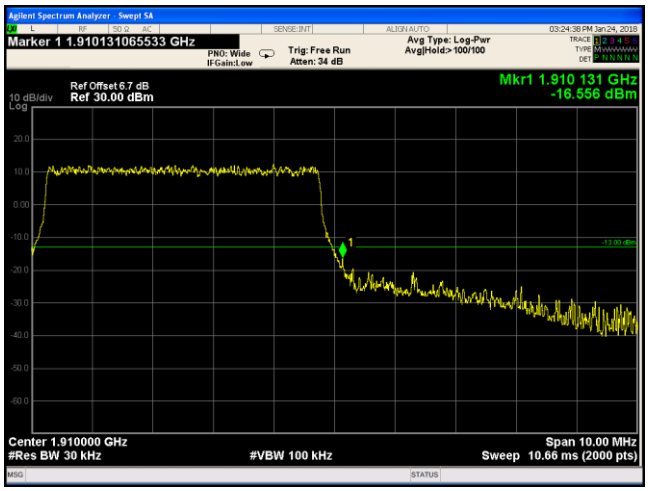
LTE Band II - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log (29.88/30)=4.5+0.1=4.6 dB



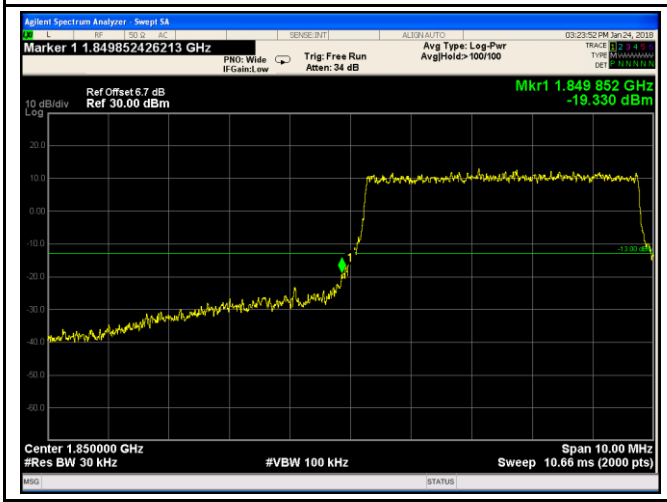
LTE Band II - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (52.17/30)=4.5+2.2=6.7 dB



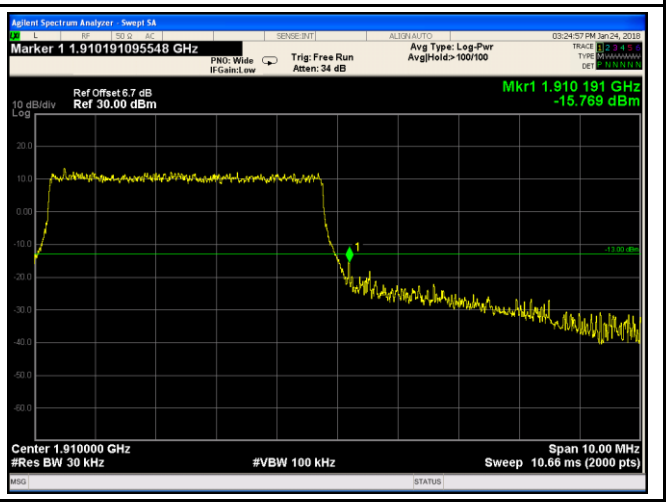
LTE Band II - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (52.80/30)=4.5+2.2=6.7 dB



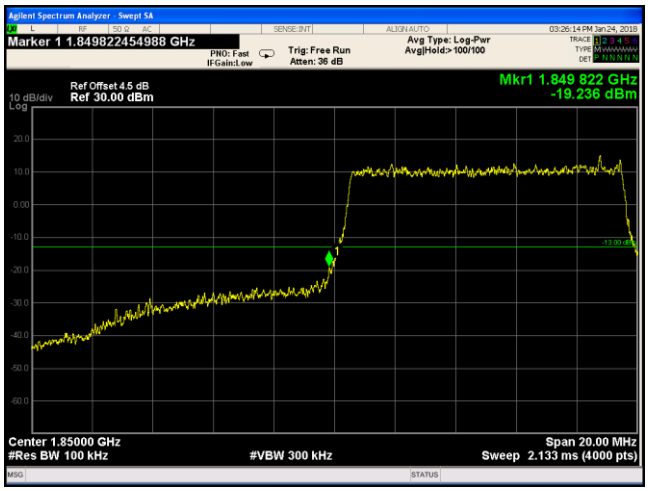
LTE Band II - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log (52.12/30)=4.5+2.2=6.7 dB

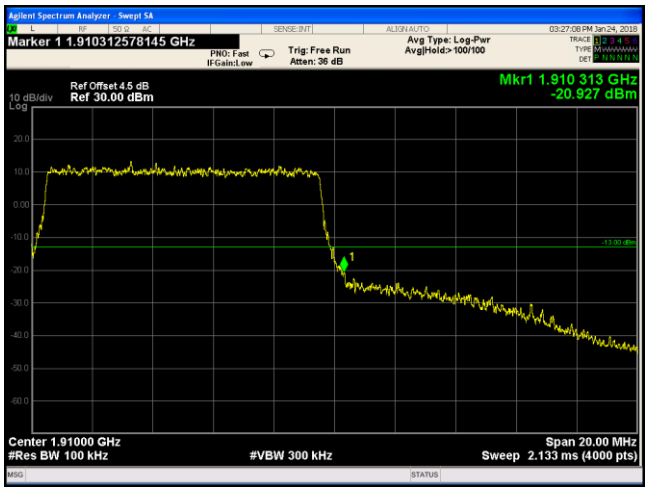


LTE Band II - High Channel 16QAM-5

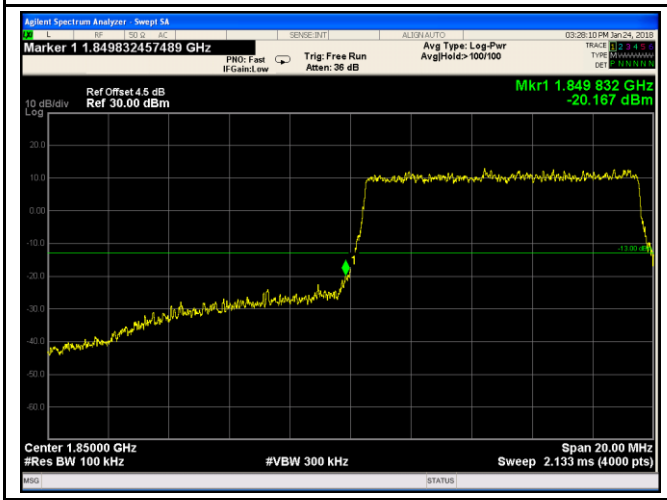
Note: Offset=Cable loss (4.5) + 10log (52.07/30)=4.5+2.2=6.7 dB



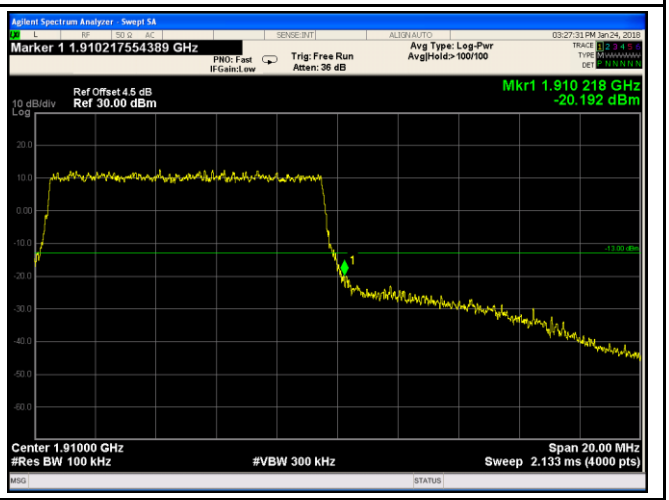
LTE Band II - Low Channel QPSK-10



LTE Band II - High Channel QPSK-10



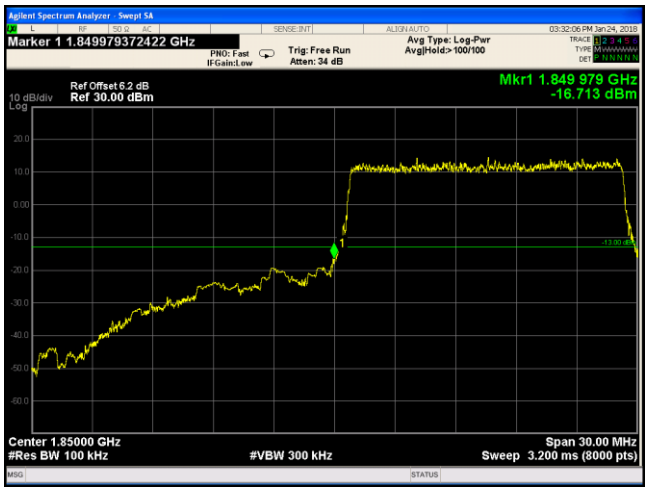
LTE Band II - Low Channel 16QAM-10



LTE Band II - High Channel 16QAM-10

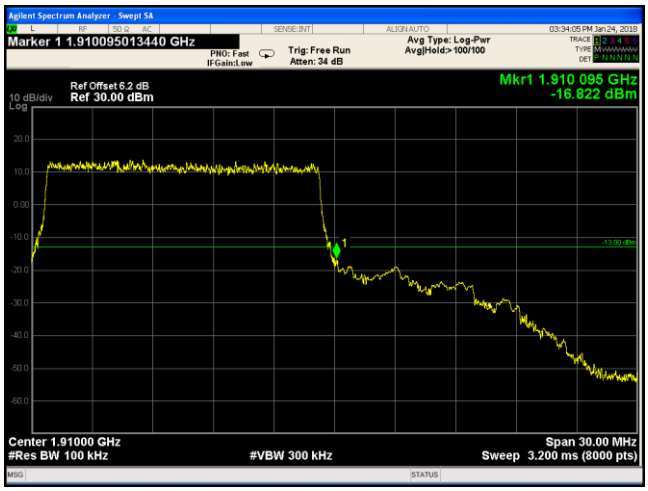
Note: Offset=Cable loss (4.5) + 10log (103.2100)=4.5+0.0=4.5 dB

Note: Offset=Cable loss (4.5) + 10log (103.7/100)=4.5+0.0=4.5 dB



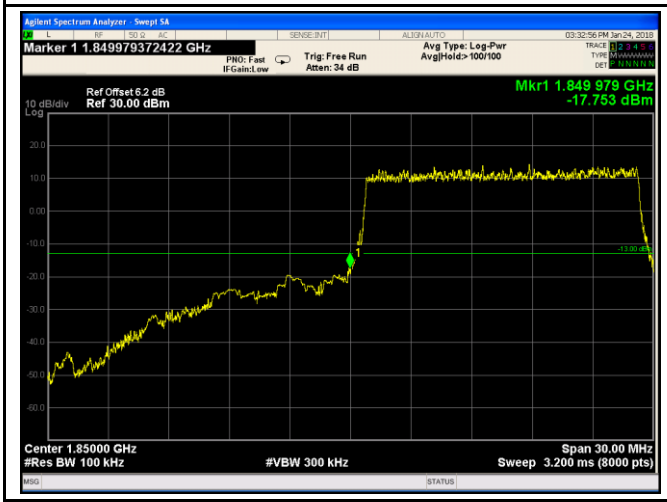
LTE Band II - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log (150.1/100)=4.5+1.8=6.2 dB



LTE Band II - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log (152.9/100)=4.5+1.8=6.2 dB

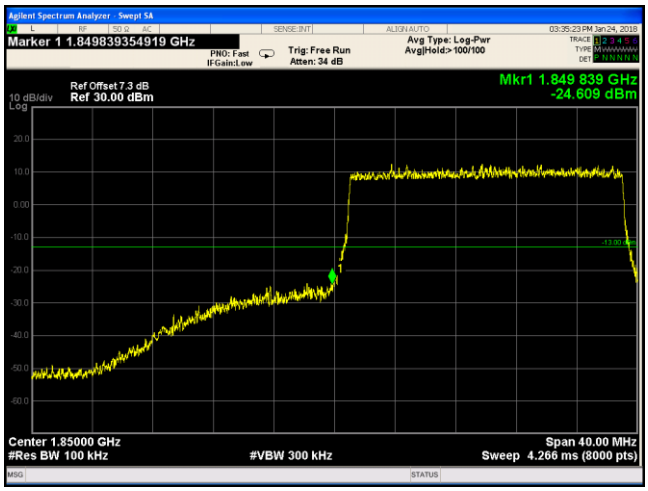


LTE Band II - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (148.7/100)=4.5+1.7=6.2 dB

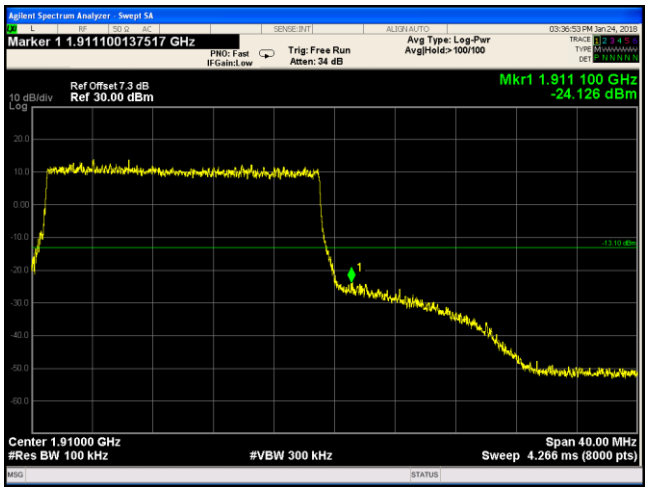
LTE Band II - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (149.1/100)=4.5+1.7=6.2 dB



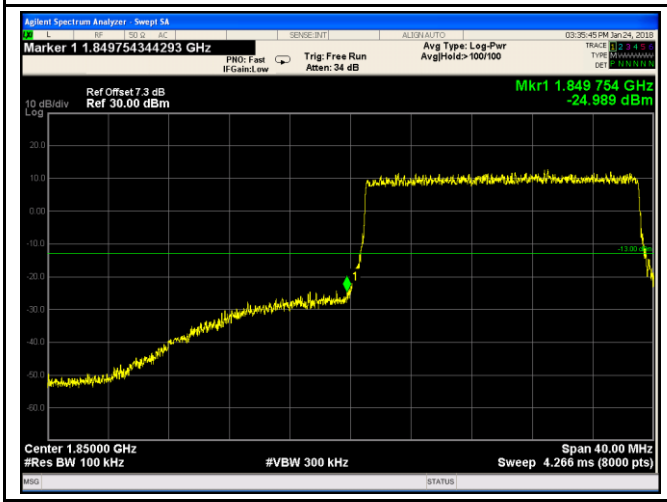
LTE Band II - Low Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log (193.9/100)=4.5+2.9=7.4 dB



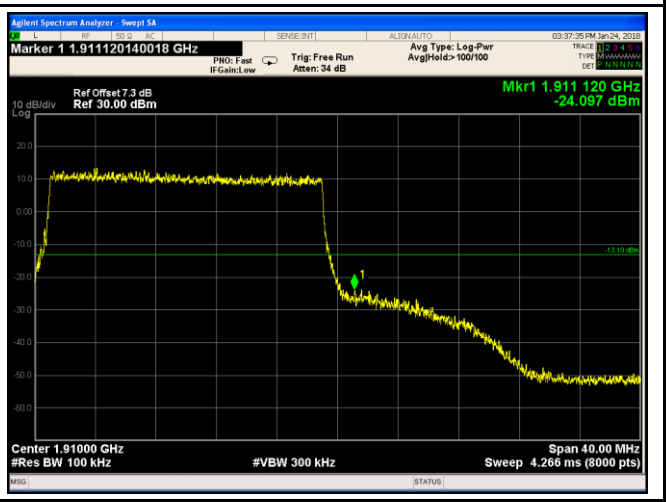
LTE Band II - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log (193.4/100)=4.5+2.9=7.4 dB



LTE Band II - Low Channel 16QAM-20

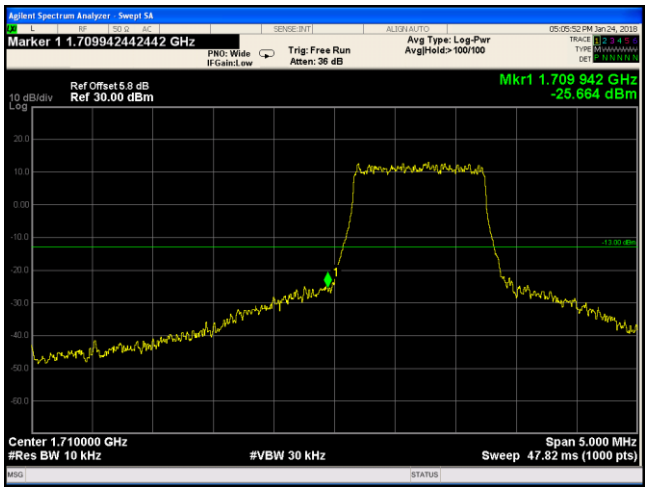
Note: Offset=Cable loss (4.5) + 10log (192.8/100)=4.5+2.9=7.4 dB



LTE Band II - High Channel 16QAM-20

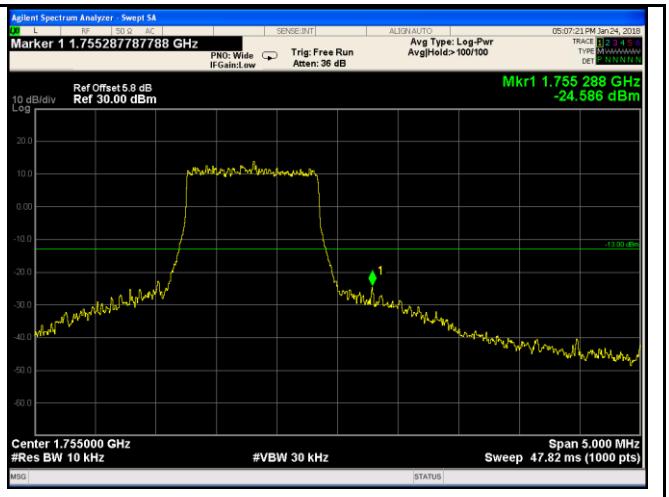
Note: Offset=Cable loss (4.5) + 10log (195.3/100)=4.5+2.9=7.4 dB

LTE Band IV (Part 27)



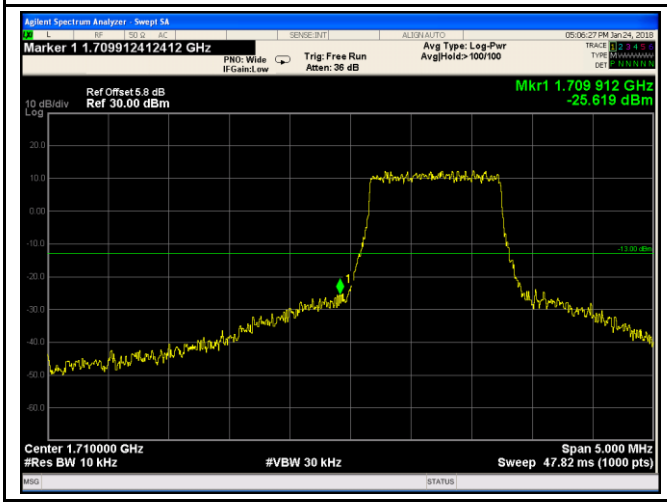
LTE Band IV - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log (13.07/10)=4.5+1.2=5.5 dB



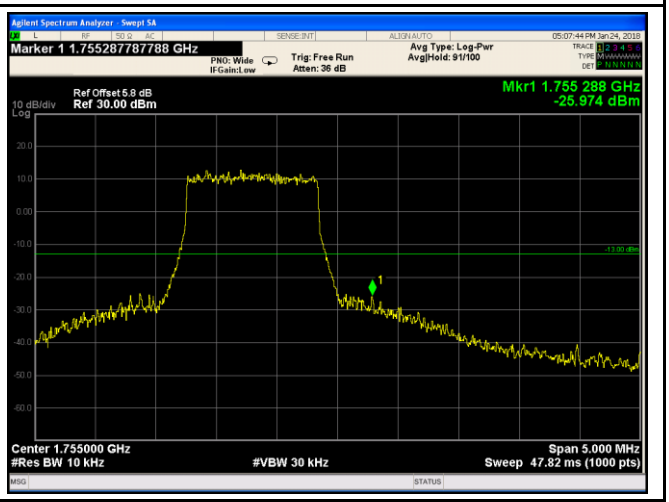
LTE Band IV - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log (12.94/10)=4.5+1.1=5.6 dB



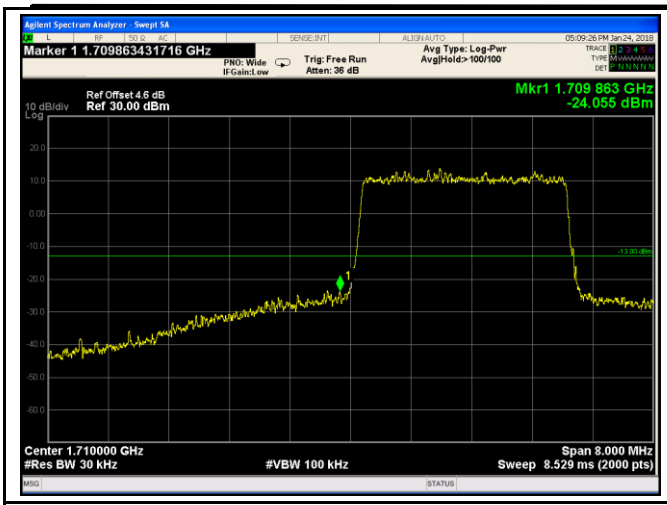
LTE Band IV - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log (13.07/10)=4.5+1.2=5.6 dB



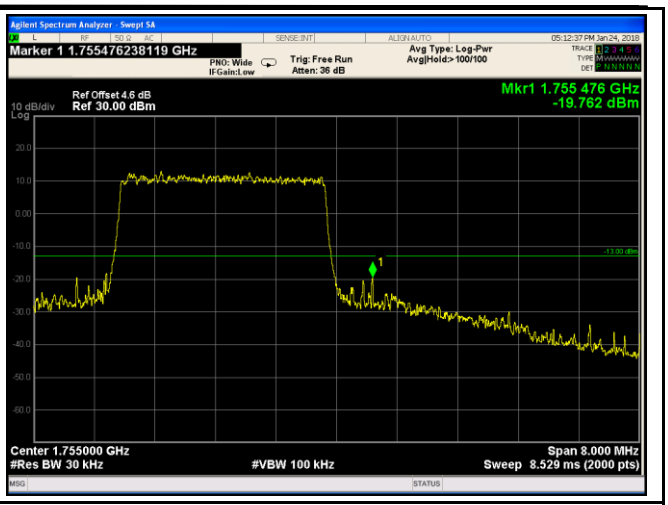
LTE Band IV - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log (12.99/10)=4.5+1.1=5.6 dB



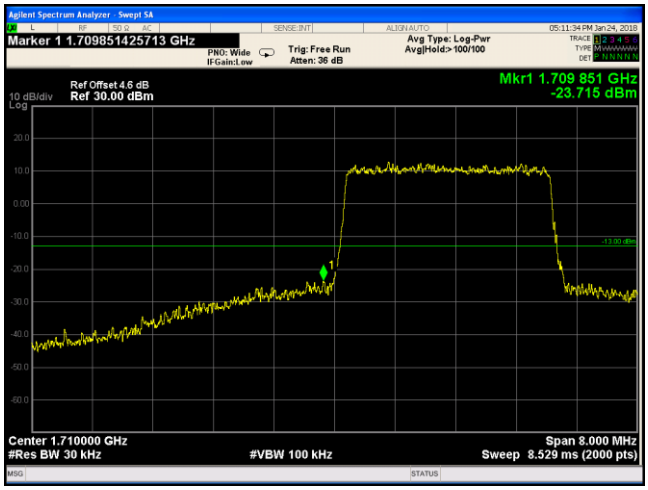
LTE Band IV - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log (30.22/30)=4.5+0.0=4.6 dB



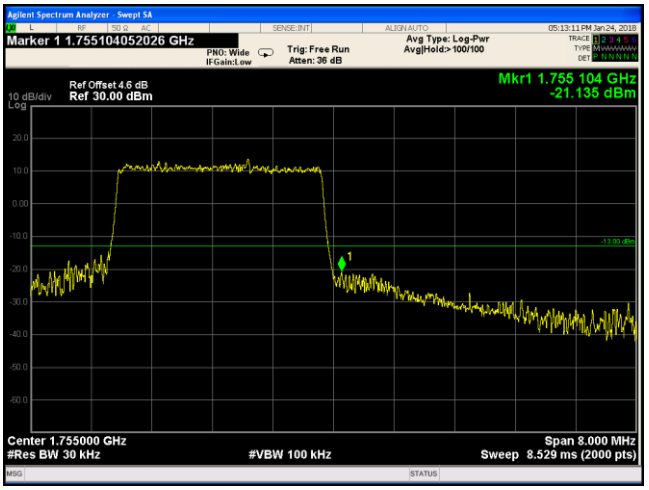
LTE Band IV - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log (33.83/30)=4.5+0.5=4.6 dB



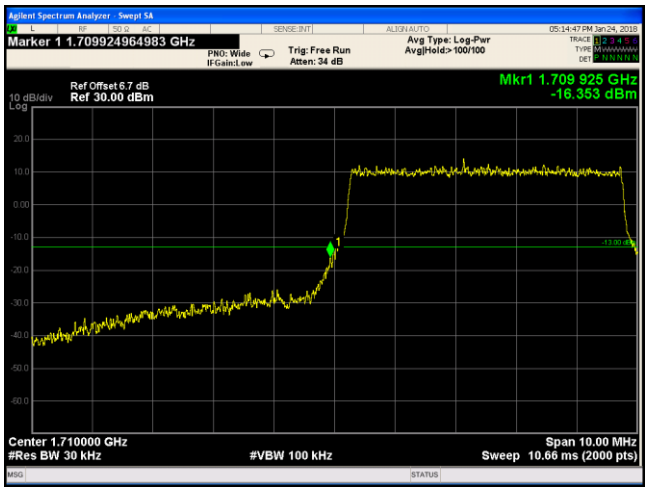
LTE Band IV - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log (29.90/30)=4.5+0.0=4.6 dB



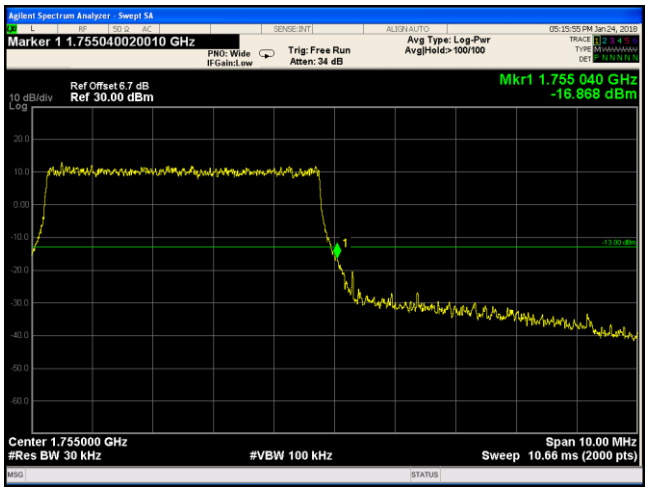
LTE Band IV - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log (30.43/30)=4.5+0.1=4.6 dB



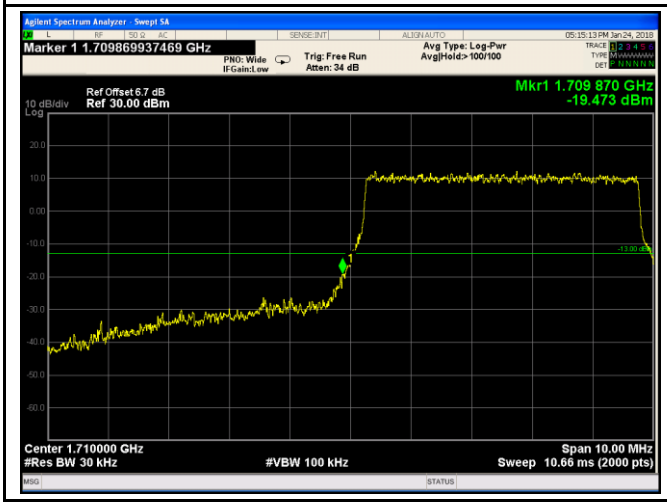
LTE Band IV - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (51.73/30)=4.5+2.2=6.7 dB



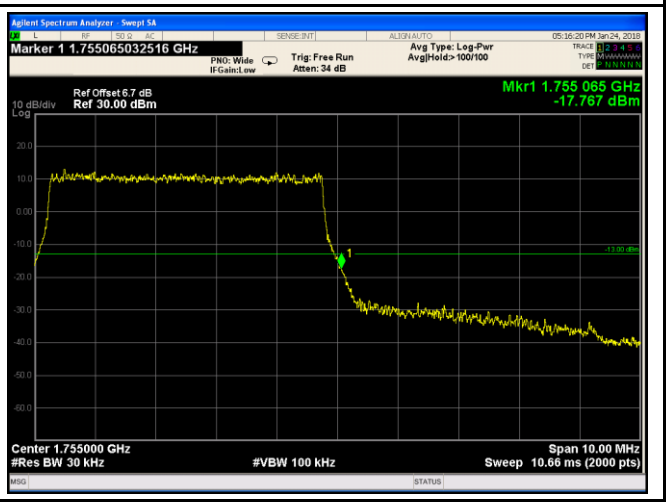
LTE Band IV - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (50.79/30)=4.5+2.2=6.7 dB



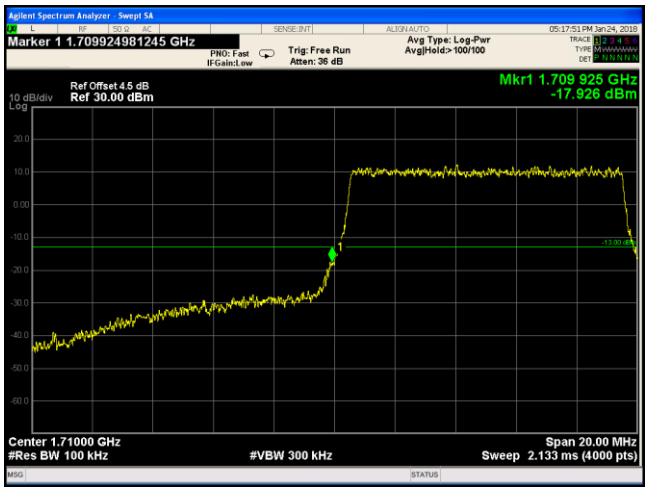
LTE Band IV - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log (51.73/30)=4.5+2.2=6.7 dB

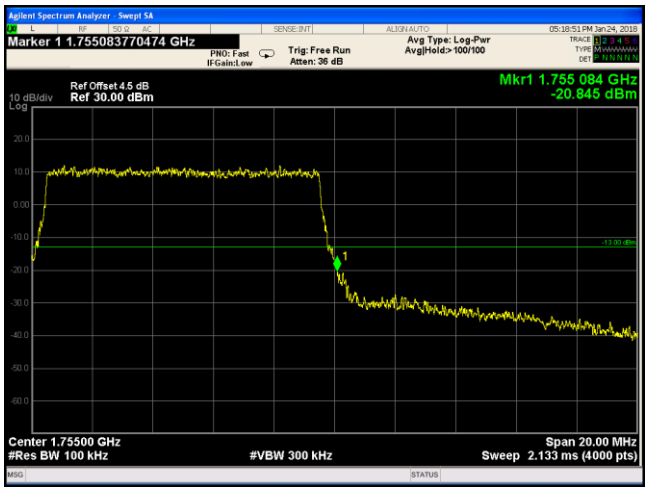


LTE Band IV - High Channel 16QAM-5

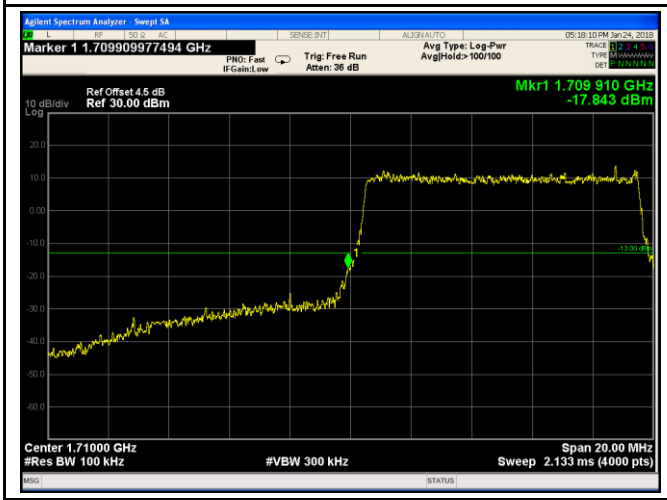
Note: Offset=Cable loss (4.5) + 10log (51.30/30)=4.5+2.2=6.7 dB



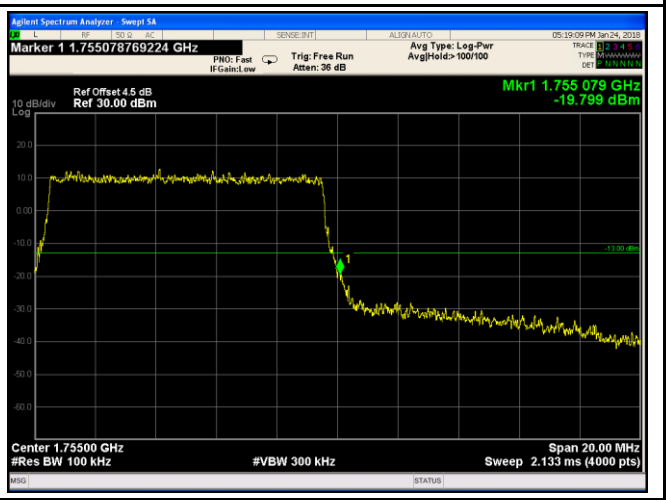
LTE Band IV - Low Channel QPSK-10



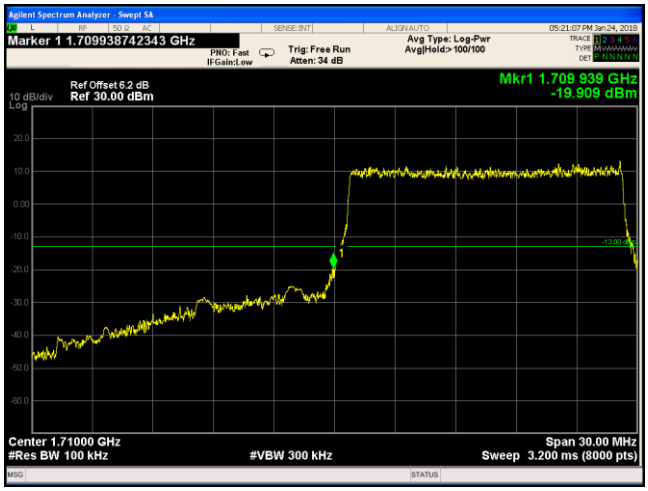
LTE Band IV - High Channel QPSK-10



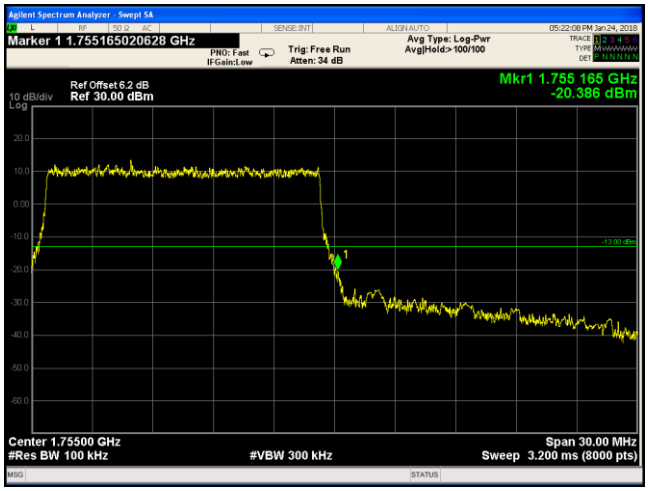
LTE Band IV - Low Channel 16QAM-10



LTE Band IV - High Channel 16QAM-10



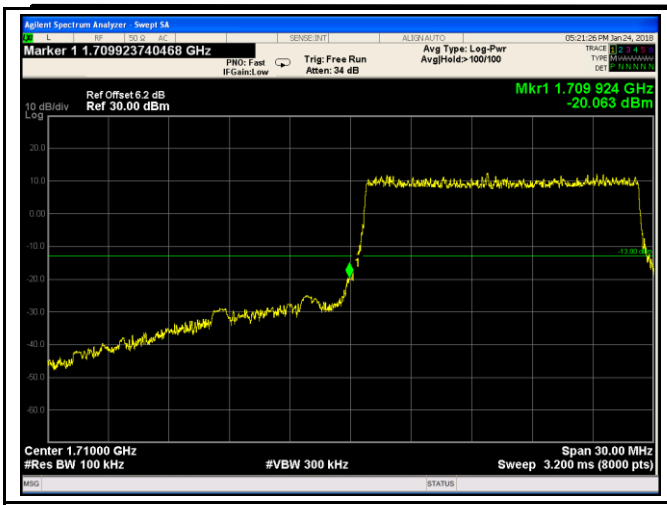
LTE Band IV - Low Channel QPSK-15



LTE Band IV - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log (150.7/100)=4.5+1.7=6.2 dB

Note: Offset=Cable loss (4.5) + 10log (151.2/100)=4.5+1.7=6.2 dB

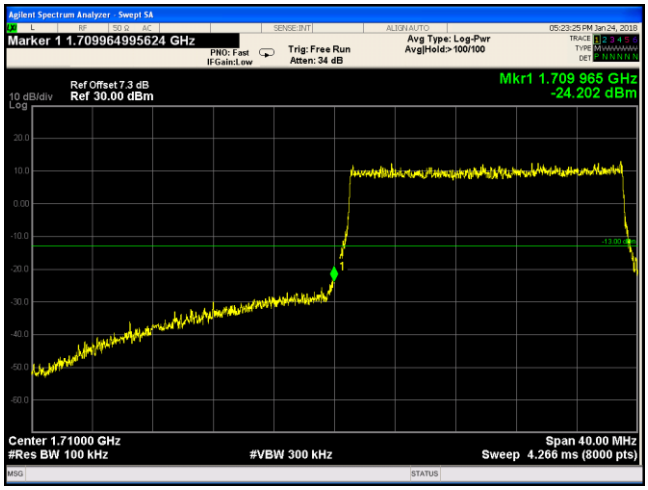


LTE Band IV - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (149.9/100)=4.5+1.7=6.2 dB

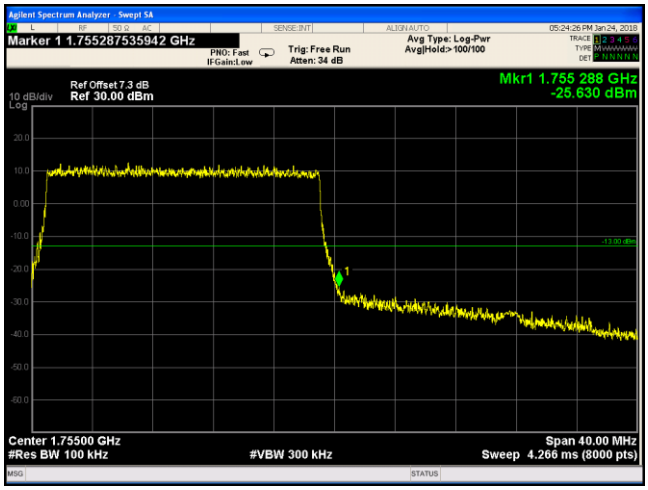
LTE Band IV - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (151.2/100)=4.5+1.7=6.2 dB



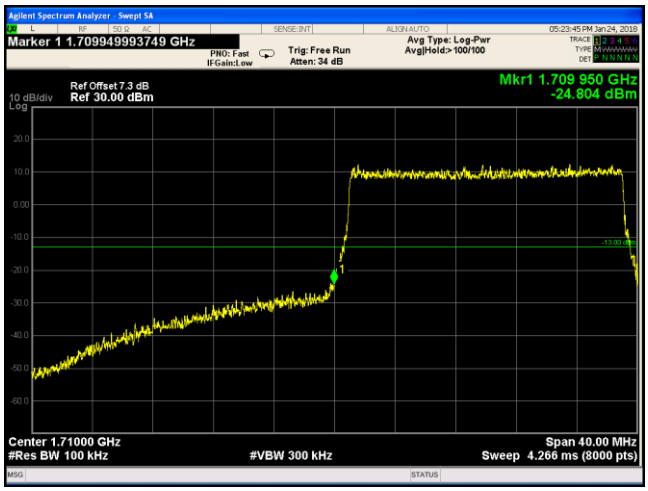
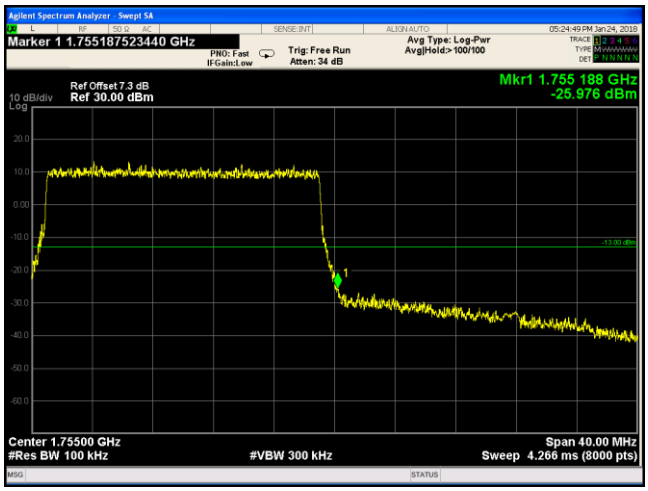
LTE Band IV - Low Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log (198.6/100)=4.5+2.8=7.3 dB

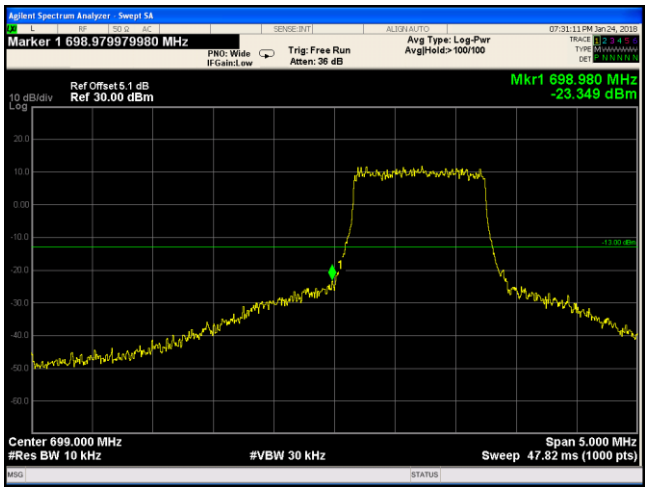


LTE Band IV - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log (194.8/100)=4.5+2.8=7.3 dB

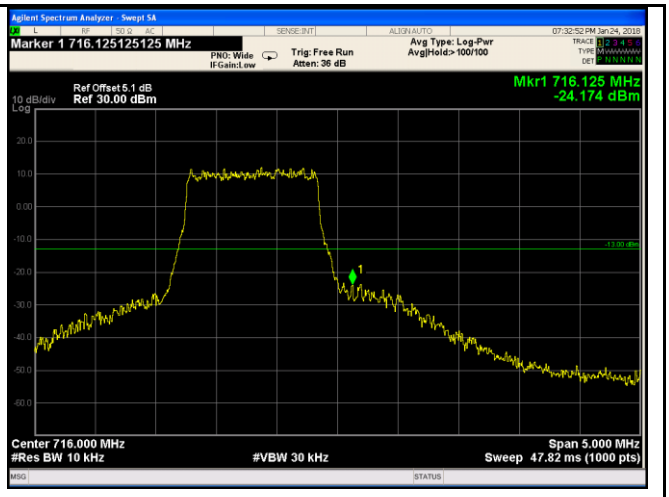
	
LTE Band IV - Low Channel 16QAM-20	LTE Band IV - High Channel 16QAM-20
Note: Offset=Cable loss (4.5) + 10log (195.4/100)=4.5+2.8=7.3dB	Note: Offset=Cable loss (4.5) + 10log (195/100)=4.5+2.8=7.3 dB

LTE Band XII (Part 27)



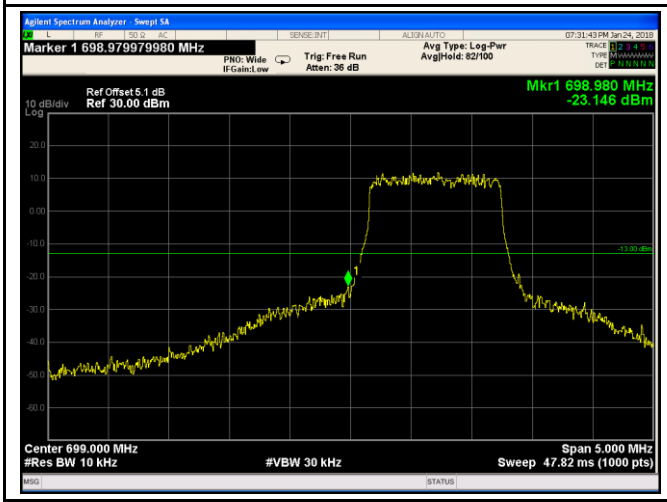
LTE Band XII - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log (13.12/10)=4.0+1.1=5.1 dB



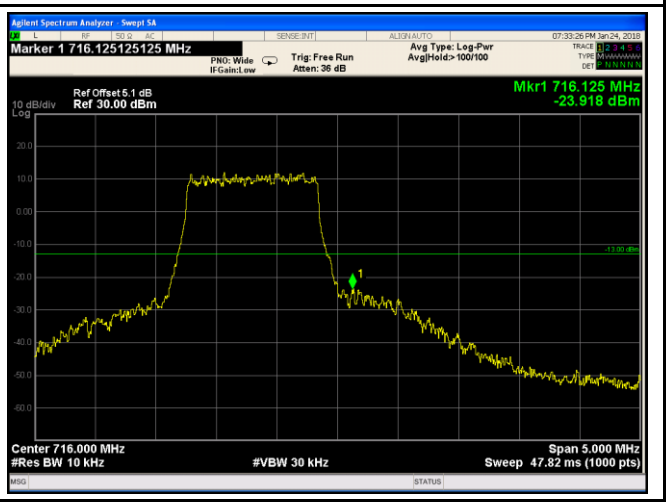
LTE Band XII - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log (12.94/10)=4.0+1.1=5.1 dB



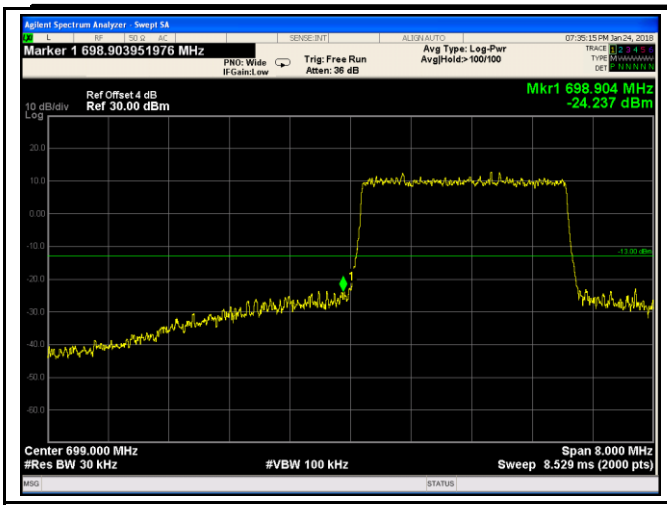
LTE Band XII - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log (13.19/10)=4.0+1.1=5.1 dB



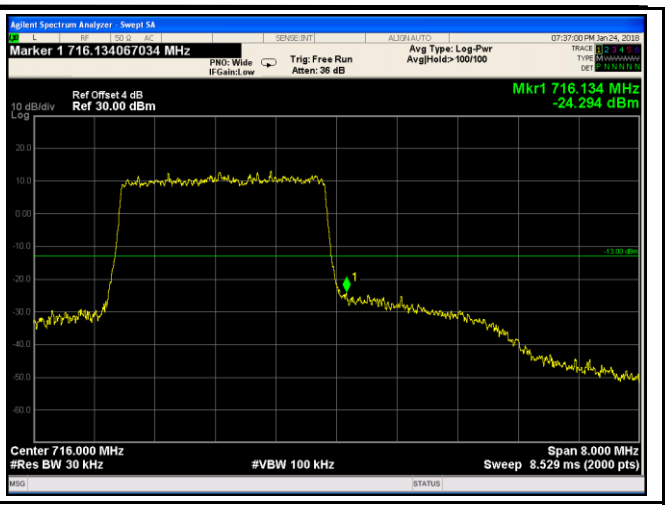
LTE Band XII - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log (13.12/10)=4.0+1.1=5.1 dB



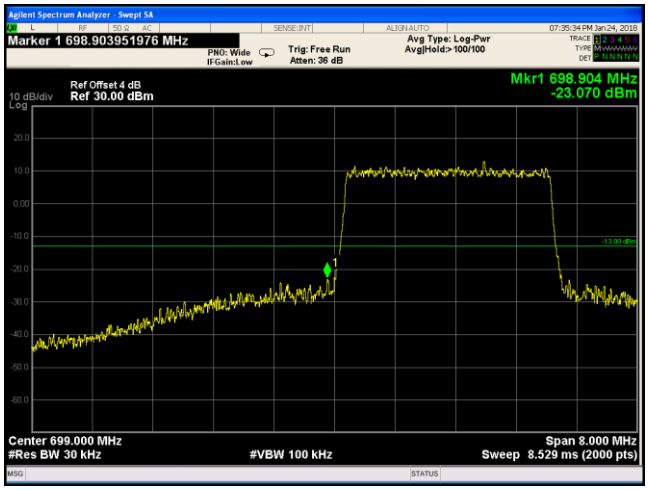
LTE Band XII - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log (29.89/30)=4.0+0.0=4.0dB



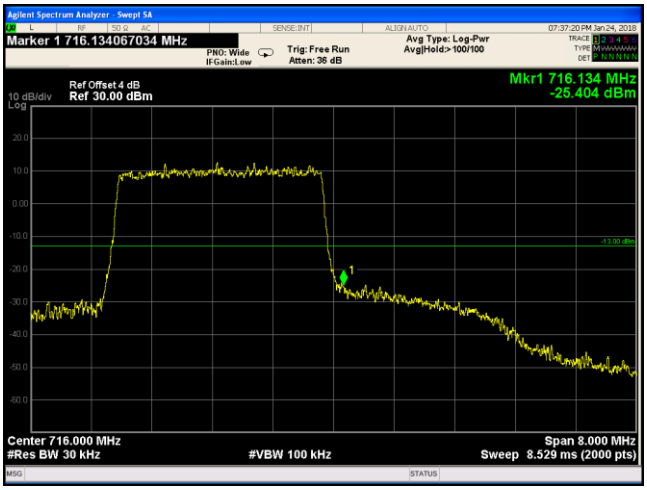
LTE Band XII - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log (30.09/30)=4.0+0.0=4.0 dB



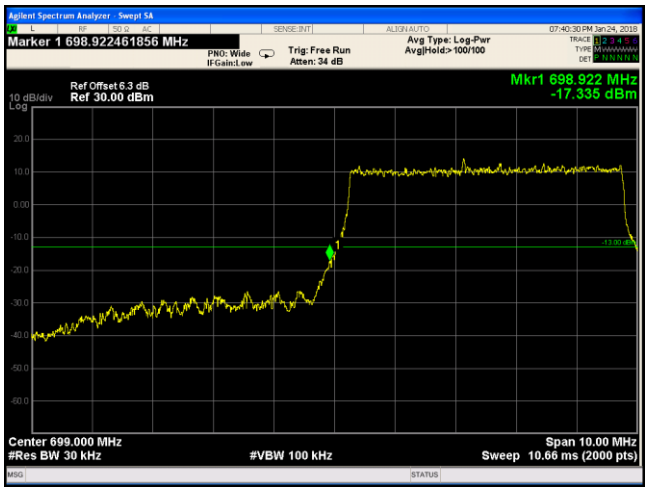
LTE Band XII - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log (30.39/30)=4.0+0.0=4.0 dB



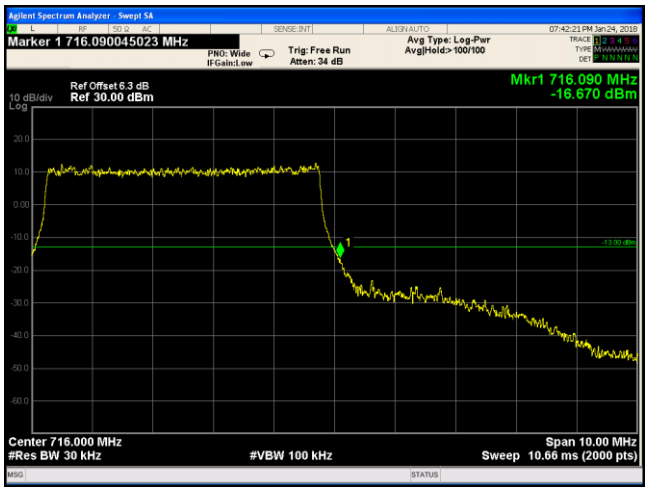
LTE Band XII - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log (30.21/30)=4.0+0.0=4.0dB



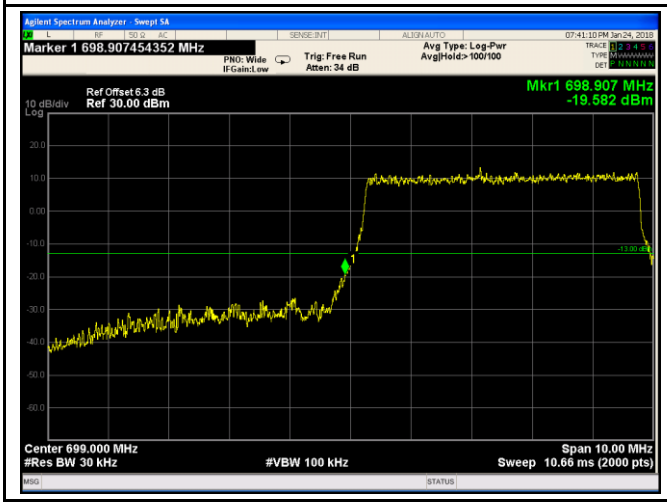
LTE Band XII - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (51.05/30)=4.0+2.3=6.3 dB



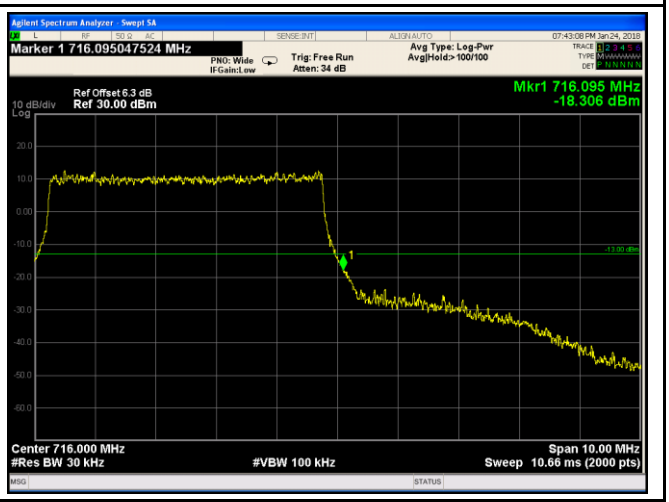
LTE Band XII - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (52.12/30)=4.0+2.3=6.3 dB



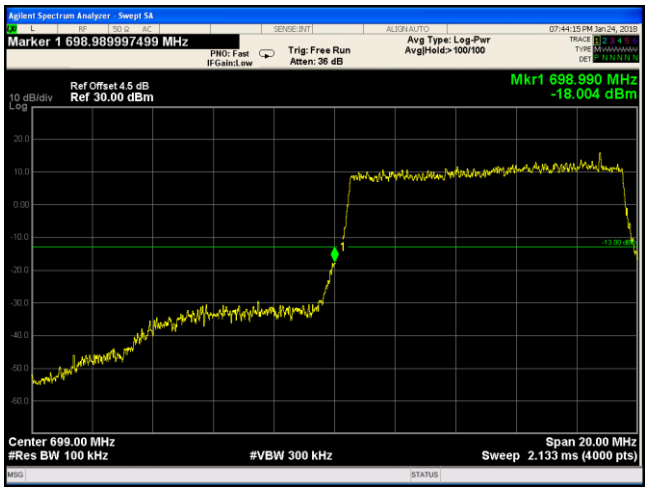
LTE Band XII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log (52.16/30)=4.0+2.3=6.3 dB

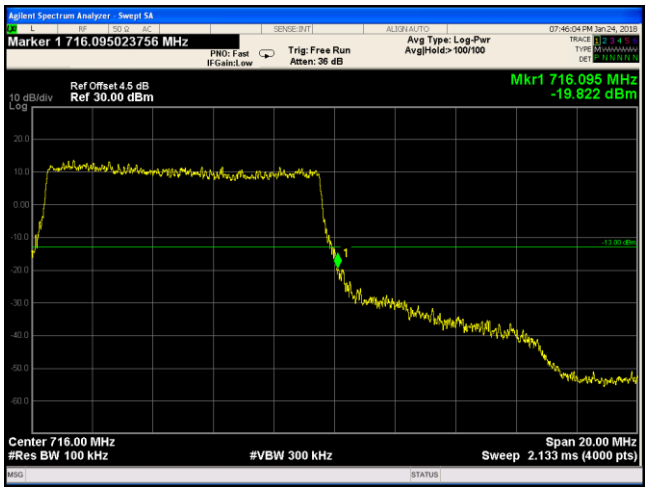


LTE Band XII - High Channel 16QAM-5

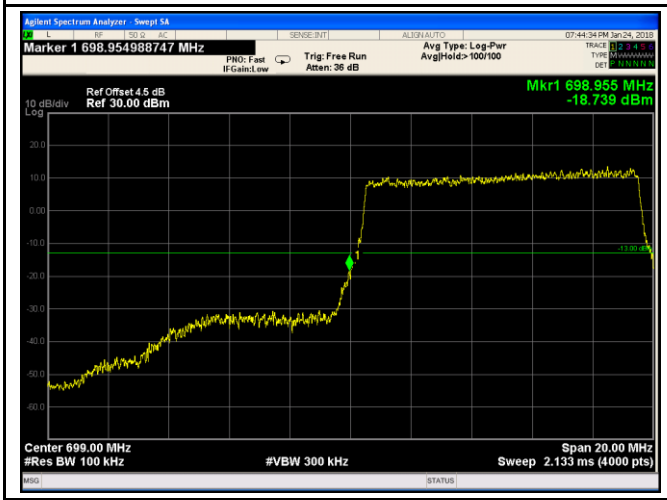
Note: Offset=Cable loss (4.5) + 10log (52.40/30)=4.0+2.3=6.3 dB



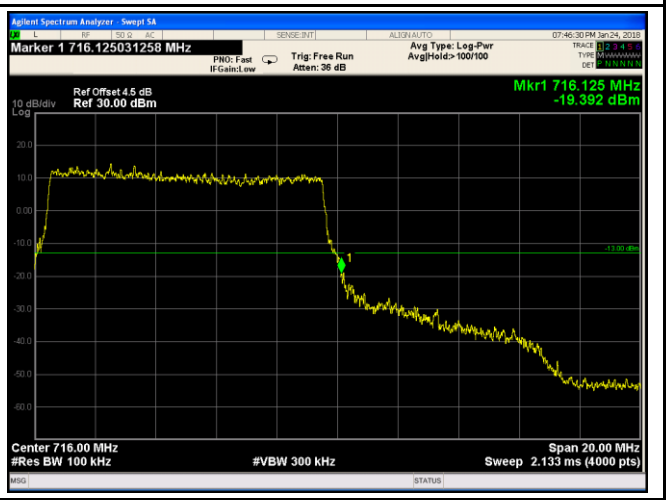
LTE Band XII - Low Channel QPSK-10



LTE Band XII - High Channel QPSK-10



LTE Band XII - Low Channel 16QAM-10

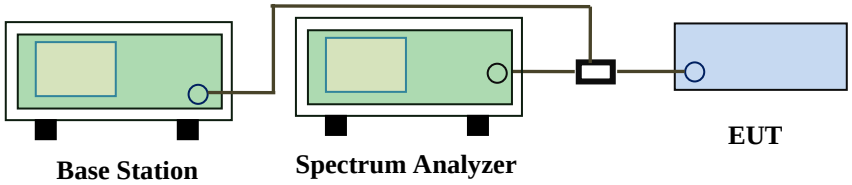


LTE Band XII - High Channel 16QAM-10

6.8 Band Edge 27.53(m)

Temperature	25 °C
Relative Humidity	57%
Atmospheric Pressure	1024mbar
Test date :	January 24, 2018
Tested By :	Aaron Liang

Requirement(s):

Spec	Requirement	Applicable
§27.53(m)	According to FCC 27.53(m)(4) specified that power of any emmission ouutside of the channel edge must be attenuated below the transmitting power(P) by a factor shall be not less than 43+10log (P)dB at the channel edge, the limit of emission equal to -13dBm. And 55+10log (P)dB at 5.5MHz from the channel edges, the limit of emission equal to -25dBm. In the 1MHz bands immediately outside and adjacent to the frenqency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.	☑
Test Setup		
Test Procedure	- The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.	
Remark		
Result	☑ Pass ☐ Fail	

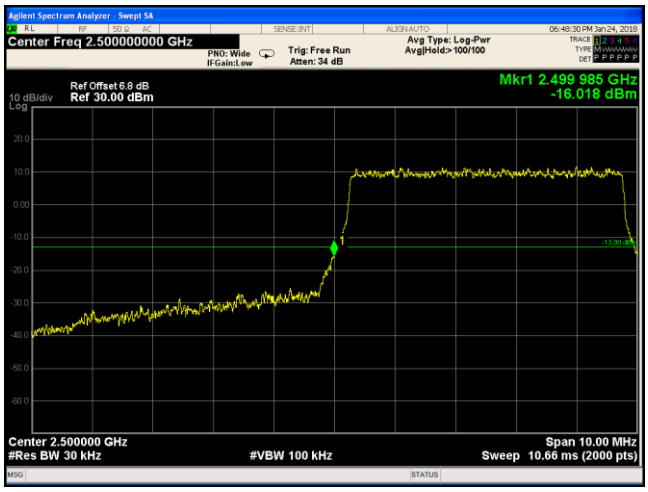
Test Data ☑ Yes ☐ N/A

Test Plot ☑ Yes (See below) ☐ N/A

LTE Band VII (Part 27) result

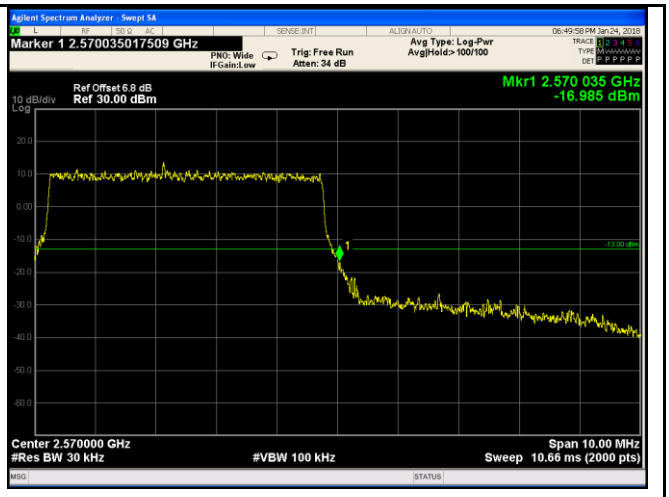
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
5	20775	2500	16QAM	-16.784	-13
			QPSK	-16.018	-13
5	21425	2570	16QAM	-17.574	-13
			QPSK	-16.985	-13
10	20800	2500	16QAM	-22.008	-13
			QPSK	-20.364	-13
10	21400	2570	16QAM	-20.052	-13
			QPSK	-20.024	-13
15	20825	2500	16QAM	-24.572	-13
			QPSK	-23.123	-13
15	21400	2570	16QAM	-23.502	-13
			QPSK	-23.181	-13
20	20850	2500	16QAM	-26.581	-13
			QPSK	-26.203	-13
20	21350	2571	16QAM	-25.807	-13
			QPSK	-22.721	-13

LTE Band VII (Part 27)



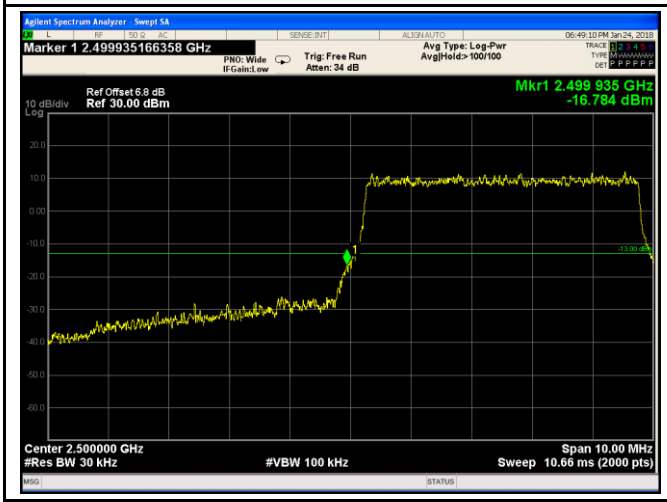
LTE Band VII - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (51.87/30)=4.5+2.3=6.8 dB



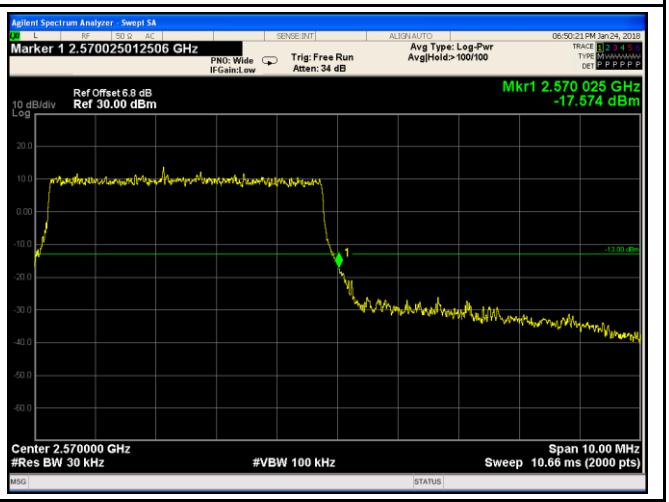
LTE Band VII - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log (51.62/30)=4.5+2.3=6.8 dB



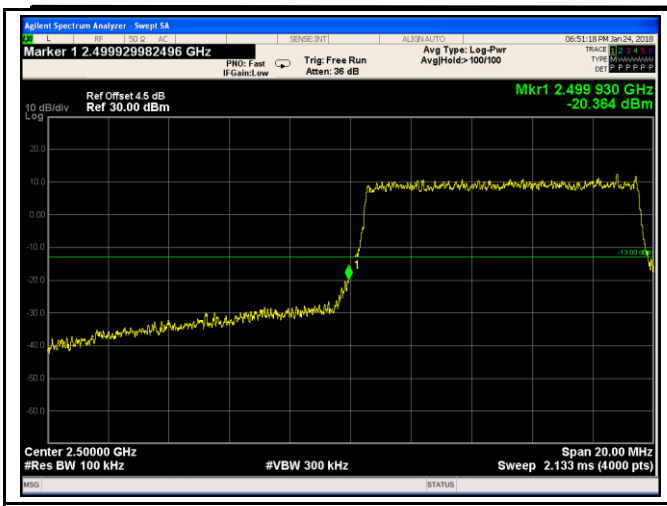
LTE Band VII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log (50.98/30)=4.5+2.3=6.8 dB

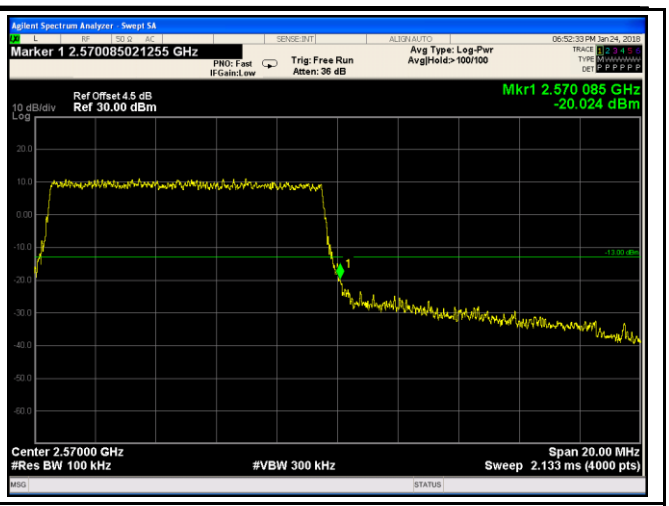


LTE Band VII - High Channel 16QAM-5

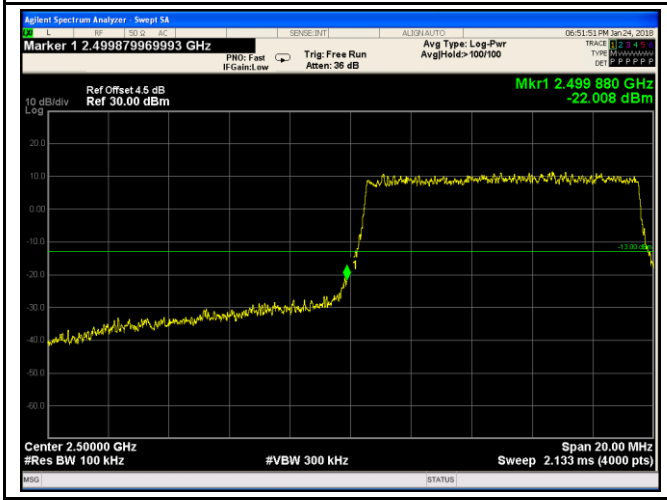
Note: Offset=Cable loss (4.5) + 10log (52.07/30)=4.5+2.3=6.8 dB



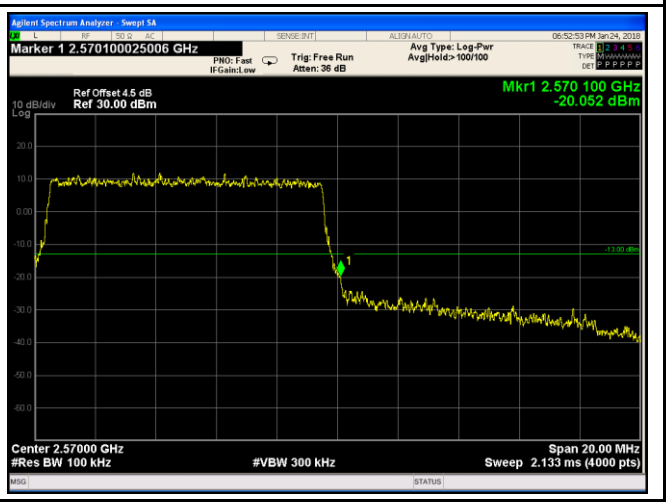
LTE Band VII - Low Channel QPSK-10



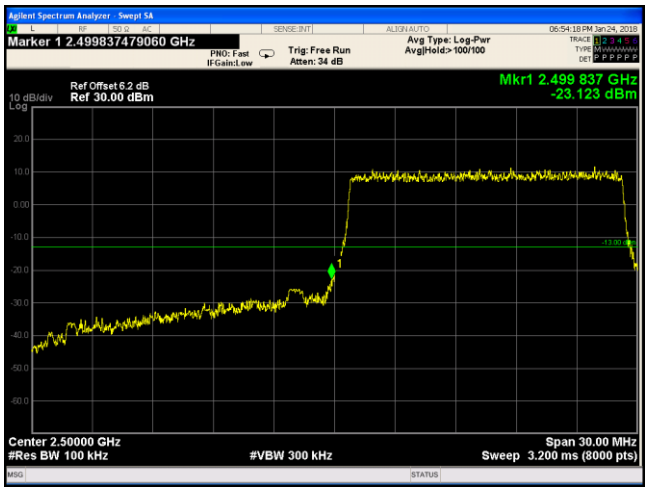
LTE Band VII - High Channel QPSK-10



LTE Band VII - Low Channel 16QAM-10



LTE Band VII - High Channel 16QAM-10

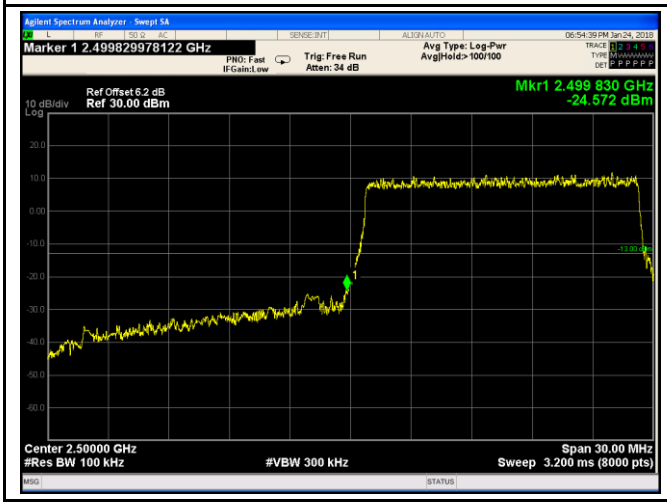


LTE Band VII - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log (149.2/100)=4.5+1.7=6.2 dB

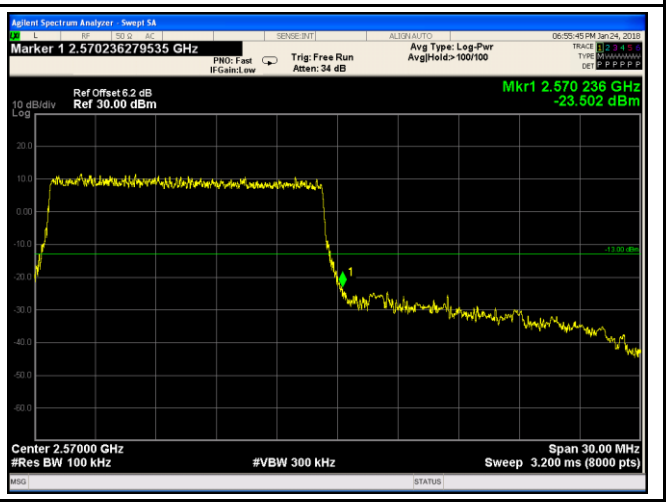
LTE Band VII - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log (149.9/100)=4.5+1.7=6.2 dB



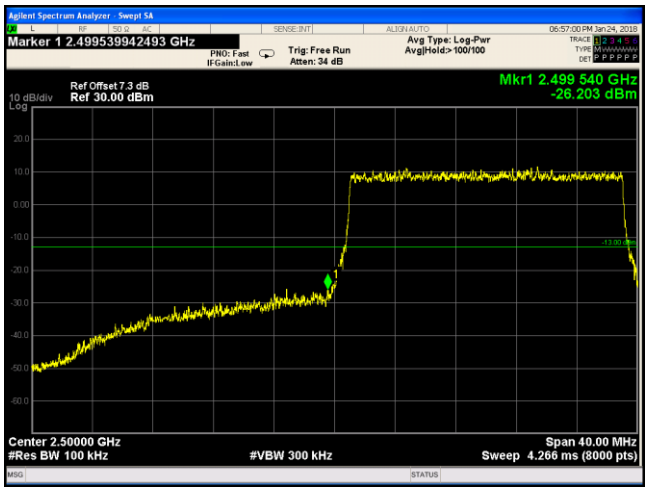
LTE Band VII - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (149.4/100)=4.5+1.7=6.2 dB



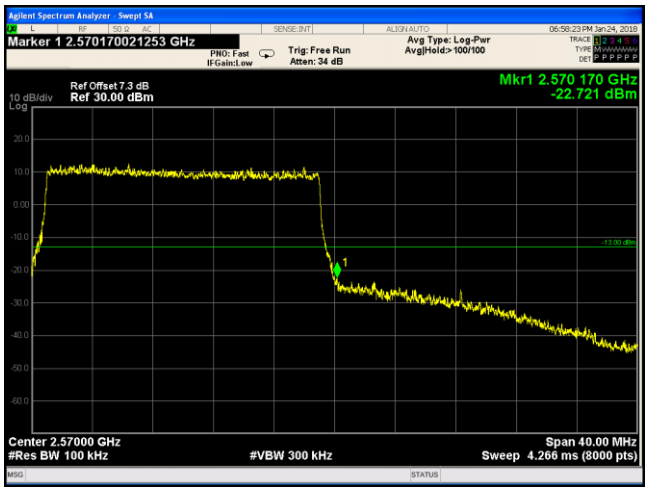
LTE Band VII - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log (150.2/100)=4.5+1.7=6.2 dB



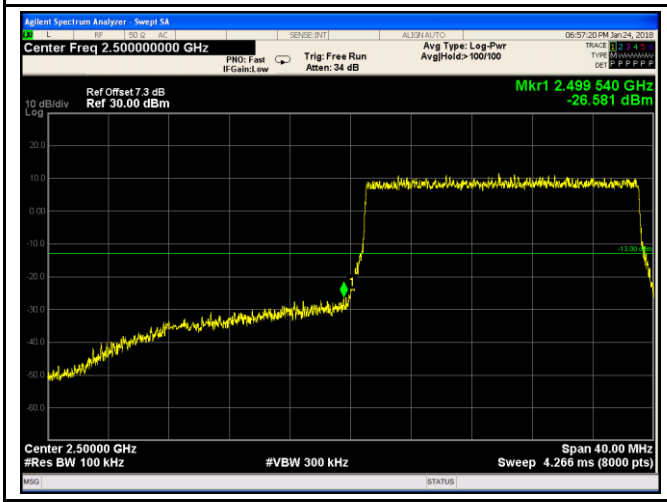
LTE Band VII - Low Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log (193.7/100)=4.5+2.8=7.3 dB



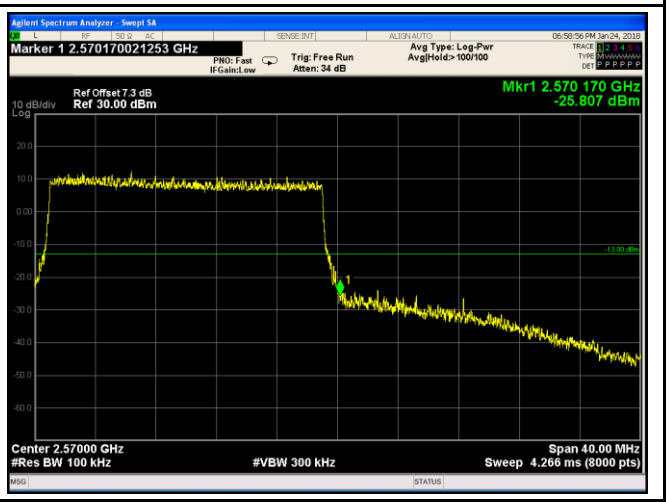
LTE Band VII - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log (193.3/100)=4.5+2.8=7.3dB



LTE Band VII - Low Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log (193.5/100)=4.5+2.8=7.3 dB



LTE Band VII - High Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log (194/100)=4.5+2.8=7.3 dB