TEST REPORT

KCTL Inc.
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Suwon-si, Gyeonggi-do, 16677, Korea
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1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
- Date of Receipt : 2020-04-03

2. Use of Report : Certification

3. Name of Product and Model : Smart Wearable / SM-R855U

4. Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / Vietnam

5. FCC ID : A3LSMR855

6. Date of Test : 2020-04-14 to 2020-05-20

7. Location of Test : ■ Permanent Testing Lab □ On Site Testing (Address: Address of testing location)

8. Test method used : FCC Part 2
FCC Part 90 subpart S

9. Test Results : Refer to the test result in the test report

Affirmation	Tested by Name : Kwonse Kim (Signature)	Technical Manager Name : Seungyong Kim (Signature)

2020-05-25

KCTL Inc.

REPORT REVISION HISTORY

Date	Revision	Page No
2020-05-24	Originally issued	-
2020-05-25	Updated	6

Note. The report No. KR20-SRF0137 is superseded by the report No. KR20-SRF0137-A.

General remarks for test reports

Nothing significant to report.

CONTENTS

1. General information

Client	:	Samsung Electronics Co., Ltd.
Address	:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Manufacturer	:	Samsung Electronics Co., Ltd.
Address	:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Laboratory	:	KCTL Inc.
Address	:	65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations	:	FCC Site Designation No: KR0040, FCC Site Registration No: 687132
		VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
		Industry Canada Registration No. : 8035A
		KOLAS No.: KT231

2. Device information

Equipment under test	:	Smart Wearable
Model	:	SM-R855U
Derivative model	:	SM-R855F
Modulation technique	:	Bluetooth(BDR/EDR)_ GFSK, π/4DQPSK, 8DPSK
		Bluetooth(BLE)_GFSK
		WIFI(802.11b/g/n20)_DSSS, OFDM
		LTE_QPSK, 16QAM
Number of channels	:	Bluetooth(BDR/EDR)_79 ch
		Bluetooth(BLE)_40 ch
		WIFI(802.11b/g/n20)_13 ch
Power source	:	DC 3.85 V
Antenna specification	:	LTE/WCDMA_PIFA (Housing metal) Antenna
		WIFI/Bluetooth(BDR/EDR/BLE)_LDS Antenna
Antenna gain	:	WIFI/Bluetooth(BDR/EDR/BLE) : -6.34 dBi

Frequency range	:	Bluetooth(BDR/EDR/BLE)_2 402 ㎒ ~ 2 480 ㎒
		WIFI(802.11b/g/n20)_2 412 ㎒ ~ 2 472 ㎒
		LTE Band 2_1 850.7 ㎒ ~ 1 909.3 ㎒
		LTE Band 4_1 710.7 ㎒ ~ 1 754.3 ㎒
		LTE Band 5_824.7 ㎒ ~ 848.3 ㎒
		LTE Band 12_699.7 ㎒ ~ 715.3 ㎒
		LTE Band 13_779.5 ㎒ ~ 784.5 ㎒
		LTE Band 25_1 850.7 ㎒ ~ 1 914.3 ㎒
		LTE Band 26_824.7 ㎒ ~ 848.3 ㎒, 814.7 ㎒ ~ 823.3 ㎒
		LTE Band 66_1 710.7 ㎒ ~ 1 779.3 ㎒
		LTE Band 71_665.5 ㎒ ~ 688.0 ㎒
		WCDMA 850_826.4 ㎒ ~ 846.6 ㎒
		WCDMA 1700_1 712.4 ㎒ ~ 1 752.6 ㎒
		WCDMA 1900_1 852.4 ㎒ ~ 1 907.6 ㎒
Software version	:	SM-R855U_R855U.001, SM-R855F_R855F.001
Hardware version	:	REV1.0
Test device serial No.	:	Conducted(R3AN300BVFZ, R3AN300BXSV)
		Radiated(R3AN300B2AP, R3AN300AZXW, R3AN301WD1E)
Operation temperature	:	-30 ℃ ~ 50 ℃

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source	FCC ID & IC
Wireless charger	Samsung Electronics Co., Ltd.	EP-OR825	-	DC 5.0 V, 1.0 A	A3LEPOR825 / 649E-EPOR825

2.2. Model Information

The difference between basic model (SM-R855U) and derivative model (SM-R855F) is:

H/W is identical with the basic model and software is as follows.
a. RF Supported Band is Different.
(R855U: 3G (B2, B4, B5), 4G (B2, B4, B5, B12, B13, B25, B26, B66, B71))
(R855F: 3G (B1, B2, B4, B5, B8), 4G (B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B28, B66))
- In EUR R855F : 3G (B1, B5, B8), 4G(B1, B3, B5, B7, B8, B20, B28)
b. All other protocol part is same.
c. All other features of Volte, SUPL is same.
d. In USA & Canada, 4G (B7) disabled by MCC code.
Because device doesn't support B7 roaming in USA & Canada.

2.3. Frequency/channel operations

This device contains the following capabilities:
2.4㎓ WIFI(802.11b/g/n(HT20)), Bluetooth(BDR/EDR/BLE), LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 25, LTE Band 26, LTE Band 66, LTE Band 71, WCDMA 850, WCDMA 1700, WCDMA 1900

LTE Band 26

Ch.	Frequency (㎒)
26697	814.7
26783	823.3

Table 2.3.1. 1.4M BW

Ch.	Frequency (㎒)
26705	815.5
26775	822.5

Table 2.3.2. 3M BW

Ch.	Frequency (㎒)
26715	816.5
26765	821.5

Table 2.3.3. 5M BW

Ch.	Frequency (㎒)
26740	819.0

Table 2.3.4. 10M BW

Ch.	Frequency (㎒)
26765	821.5

Table 2.3.5. 15M BW

Notes:

1. As for 814 - 824 ㎒, the lower band (814 - 824 ㎒) of Band 26 is not supported in Canada.

3. Maximum ERP/EIRP power

LTE Band 26 (Part 90)

Mode	Tx frequency (㎒)	Emission designator	Conducted	
			Max. power (dBm)	Max. power (W)
LTE Band 26	814.7 ~ 823.3	1M10G7D	**22.73**	**0.187**
		1M09W7D	21.46	0.140
	815.5 ~ 822.5	2M70G7D	22.58	0.181
		2M71W7D	21.34	0.136
	816.5 ~ 821.5	4M55G7D	22.49	0.177
		4M54W7D	21.36	0.137
	819.0	8M99G7D	22.45	0.176
		9M02W7D	21.11	0.129
	821.5	13M5G7D	22.41	0.174
		13M5W7D	20.91	0.123
Straddle channel	824.0	1M09G7D	22.69	0.186
		1M09W7D	21.47	0.140
		2M70G7D	22.61	0.182
		2M70W7D	21.31	0.135
		4M52G7D	22.54	0.179
		4M53W7D	21.45	0.140
		9M04G7D	22.60	0.182
		9M02W7D	21.16	0.131
		13M4G7D	22.53	0.179
		13M5W7D	21.06	0.128

4. Summary of tests

FCC Part section(s)	Parameter	Test Limit	Test Condition	Test results
2.1046 90.635	Conducted Output Power	< 100 Watts	Conducted	Pass
2.1049	Occupied Bandwidth & 26 dB Bandwidth	N/A		Pass
2.1051 90.691(a)	Band Edge Emissions at Antenna Terminal	<43 + 10Log$_{10}$(P) dB, <50 10Log$_{10}$(P) dB at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge		Pass
	Spurious Emissions at Antenna Terminal			Pass
2.1055 90.213	Frequency stability	< 2.5 ppm		Pass
22.913(a)(5)	Effective Radiated Power	< 7 Watts max. ERP	Radiated	Pass
2.1053 90.691(a)	Radiated Spurious Emissions	<43 + 10Log$_{10}$(P) dB		Pass

Notes:

1. The test procedure(s) in this report were performed in accordance as following.
   - ANSI C63.26-2015
   - ANSI/TIA-603-E-2016
   - KDB 971168 D01 v03r01

4.1. Worst case orientation

1. All modes of operation were investigated and the worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations in the test data.
2. All final radiated testing was performed with the EUT in worst case orientation.
3. All the radiated tests have been performed two modes (with charger and without charger) and the with charger is the worst case mode.
4. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation.

Test condition	LTE Band	Modulation	Bandwidth (MHz)	RB size	RB offset
Radiated	B26 (Part90)	QPSK	15	1	0, 38, 74
Conducted		QPSK, 16QAM	1.4, 3, 5, 10, 15	1	0, 5, 14, 24, 49, 74
				Full	0

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014.

All measurement uncertainty values are shown with a coverage factor of k=2 to indicated a 95 % level of confidence. The measurement data shown herein meets of exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (±)	
Conducted RF power	1.3 dB	
Conducted spurious emissions	1.3 dB	
Radiated spurious emissions	30 MHz ~ 1 GHz	3.7 dB
	Above 1 GHz	5.7 dB

6. Measurement results explanation example

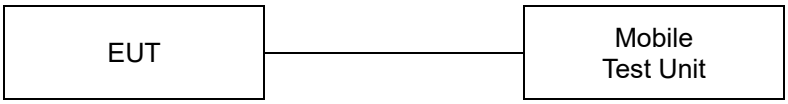
Frequency (㎒)	Factor(㏈)	Frequency (㎒)	Factor(㏈)
30	4.90	11 000	7.37
50	5.31	12 000	7.38
100	6.04	13 000	7.41
200	6.16	14 000	7.57
300	6.21	15 000	7.61
400	6.23	16 000	7.63
500	6.33	17 000	7.70
600	6.45	18 000	7.77
700	6.51	19 000	7.90
800	6.52	20 000	8.03
900	6.56	21 000	8.05
1 000	6.59	22 000	8.11
2 000	6.65	23 000	8.25
3 000	6.75	24 000	8.30
4 000	6.96	25 000	8.31
5 000	7.04	26 000	8.42
6 000	7.11	26 500	8.51
7 000	7.15	27 000	9.28
8 000	7.21	28 000	9.43
9 000	7.30	29 000	9.47
10 000	7.32	30 000	9.48

Note.
Offset(㏈) = RF cable loss(㏈) + Divider (㏈)

7. Test results

7.1. Conducted output power

Test setup



Test procedure

971168 D01 v03r01 – Section 5.2
ANSI C63.26-2015 – Section 5.2.4.2
CFR 47, - Section §2.1046

Test settings

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurement be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.

If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:

a) A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.
b) A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to ± 2%) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to [10log (1/duty cycle)]. See 5.2.4.3.4 for guidance with respect to measuring the transmitter duty cycle.

See item r) of 4.1 for more information regarding power meter functional requirements and limitations, and consult the instrumentation-specific application literature for proper set-up and use.

Notes:

Offset(㏈) = RF cable loss(㏈)

Test results

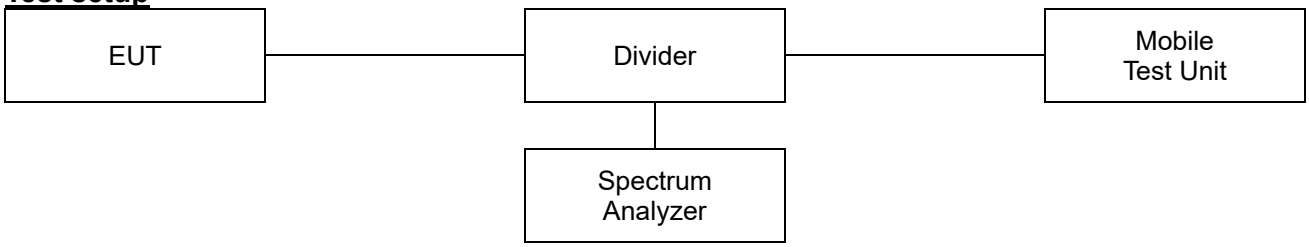
Test Band	Bandwidth (㎒)	Test mode	RB size	RB offset	MPR	Maximum power Frequency (㎒) Low	Middle	High	Limit (W)
LTE Band 26	1.4	QPSK	1	0	0	22.60	-	22.68	100
			1	3	0	22.61	-	**22.73**	
			1	5	0	22.61	-	22.70	
			3	0	0	22.61	-	22.72	
			3	1	0	22.58	-	22.68	
			3	3	0	22.60	-	22.68	
			6	0	1	21.41	-	21.70	
		16QAM	1	0	1	21.37	-	21.42	
			1	3	1	21.28	-	21.38	
			1	5	1	21.28	-	21.34	
			3	0	1	21.28	-	21.43	
			3	1	1	21.25	-	21.31	
			3	3	1	21.32	-	21.46	
			6	0	2	20.47	-	20.54	
	3	QPSK	1	0	0	22.47	-	22.58	
			1	8	0	22.47	-	22.52	
			1	14	0	22.58	-	22.53	
			8	0	1	21.23	-	21.57	
			8	4	1	21.26	-	21.57	
			8	7	1	21.24	-	21.55	
			15	0	1	21.31	-	21.58	
		16QAM	1	0	1	21.20	-	21.34	
			1	8	1	21.19	-	21.33	
			1	14	1	20.96	-	21.09	
			8	0	2	20.21	-	20.36	
			8	4	2	20.19	-	20.27	
			8	7	2	20.22	-	20.30	
			15	0	2	20.37	-	20.47	
	5	QPSK	1	0	0	22.40	-	22.53	
			1	12	0	22.42	-	22.45	
			1	24	0	22.49	-	22.45	
			12	0	1	21.23	-	21.50	
			12	7	1	21.21	-	21.45	
			12	13	1	21.21	-	21.52	
			25	0	1	21.25	-	21.47	
		16QAM	1	0	1	21.31	-	21.36	
			1	12	1	21.21	-	21.34	
			1	24	1	20.79	-	20.86	
			12	0	2	20.18	-	20.25	
			12	7	2	20.15	-	20.22	
			12	13	2	20.16	-	20.26	
			25	0	2	20.27	-	20.39	
	10	QPSK	1	0	0	-	22.45	-	
			1	25	0	-	22.39	-	
			1	49	0	-	22.38	-	
			25	0	1	-	21.26	-	
			25	12	1	-	21.25	-	
			25	25	1	-	21.23	-	
			50	0	1	-	21.28	-	
		16QAM	1	0	1	-	21.08	-	
			1	25	1	-	21.11	-	
			1	49	1	-	20.99	-	
			25	0	2	-	20.23	-	
			25	12	2	-	20.19	-	
			25	25	2	-	20.21	-	
			50	0	2	-	20.28	-	
	15	QPSK	1	0	0	-	22.38	-	
			1	36	0	-	22.41	-	
			1	74	0	-	22.33	-	
			36	0	1	-	21.33	-	
			36	18	1	-	21.28	-	
			36	37	1	-	21.28	-	
			75	0	1	-	21.33	-	
		16QAM	1	0	1	-	20.91	-	
			1	36	1	-	20.88	-	
			1	74	1	-	20.86	-	
			36	0	2	-	20.30	-	
			36	18	2	-	20.34	-	
			36	37	2	-	20.28	-	
			75	0	2	-	20.34	-	

Straddle channel

Test Band	Bandwidth (㎒)	Test mode	RB size	RB offset	MPR	Maximum power Frequency (㎒)	Limit (W)
LTE Band 26	1.4	QPSK	1	0	0	**22.69**	100
			1	3	0	22.67	
			1	5	0	22.68	
			3	0	0	22.65	
			3	1	0	22.67	
			3	3	0	22.69	
			6	0	1	21.72	
		16QAM	1	0	1	21.47	
			1	3	1	21.37	
			1	5	1	21.33	
			3	0	1	21.34	
			3	1	1	21.40	
			3	3	1	21.44	
			6	0	2	20.54	
	3	QPSK	1	0	0	22.61	
			1	8	0	22.52	
			1	14	0	22.56	
			8	0	1	21.58	
			8	4	1	21.52	
			8	7	1	21.56	
			15	0	1	21.60	
		16QAM	1	0	1	21.32	
			1	8	1	21.31	
			1	14	1	21.09	
			8	0	2	20.26	
			8	4	2	20.25	
			8	7	2	20.34	
			15	0	2	20.42	
	5	QPSK	1	0	0	22.49	
			1	12	0	22.54	
			1	24	0	22.46	
			12	0	1	21.46	
			12	7	1	21.47	
			12	13	1	21.45	
			25	0	1	21.50	
		16QAM	1	0	1	21.45	
			1	12	1	21.31	
			1	24	1	20.90	
			12	0	2	20.30	
			12	7	2	20.29	
			12	13	2	20.29	
			25	0	2	20.36	
	10	QPSK	1	0	0	22.54	
			1	25	0	22.60	
			1	49	0	22.59	
			25	0	1	21.51	
			25	12	1	21.57	
			25	25	1	21.53	
			50	0	1	21.60	
		16QAM	1	0	1	21.13	
			1	25	1	21.16	
			1	49	1	21.05	
			25	0	2	20.34	
			25	12	2	20.33	
			25	25	2	20.33	
			50	0	2	20.36	
	15	QPSK	1	0	0	22.51	
			1	36	0	22.53	
			1	74	0	22.52	
			36	0	1	21.49	
			36	18	1	21.47	
			36	37	1	21.48	
			75	0	1	21.53	
		16QAM	1	0	1	21.06	
			1	36	1	20.93	
			1	74	1	20.99	
			36	0	2	20.37	
			36	18	2	20.46	
			36	37	2	20.39	
			75	0	2	20.45	

7.2. 99% Occupied Bandwidth & 26 dB Bandwidth

Test setup



Limit

According to §2.1049 ,the occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

Test procedure

971168 D01 v03r01 – Section 4.2 and 4.3
ANSI C63.26-2015 – Section 5.4.3 and 5.4.4

Test settings

◆ 26dB Bandwidth

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.

b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
See guidance provided in 4.2.3.

d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target "−X dB" requirement, i.e., if the requirement calls for measuring the −26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.

e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

f) Determine the reference value by either of the following:
   1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize.
   Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
   2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.

g) Determine the "−X dB amplitude" as equal to (Reference Value − X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.

h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used

for step i).

i) Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "−X dB amplitude" determined in step f). If a marker is below this "−X dB amplitude" value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers.

j) The spectral envelope can cross the "−X dB amplitude" at multiple points. The lowest or highest frequency shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the "−X dB amplitude."

j) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

◆ 99% Occupied Bandwidth

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of 1.5 × OBW is sufficient).

b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.

d) Set the detection mode to peak, and the trace mode to max-hold.

e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.

f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Notes:

1. The EUT was setup to maximum output power as its lowest and highest channel with all bandwidth, Modulation.

Test results

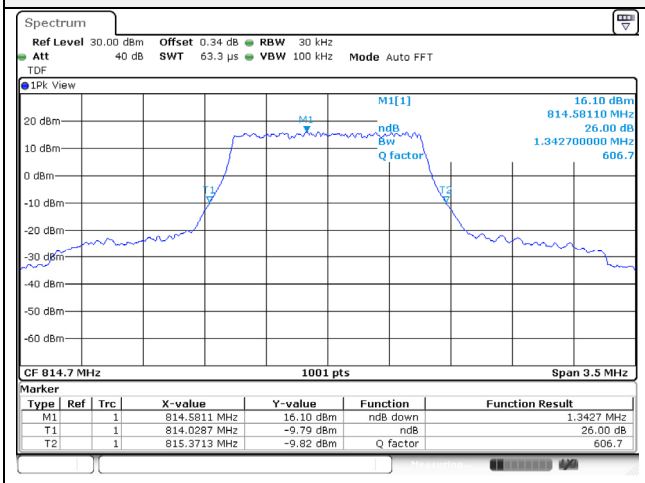
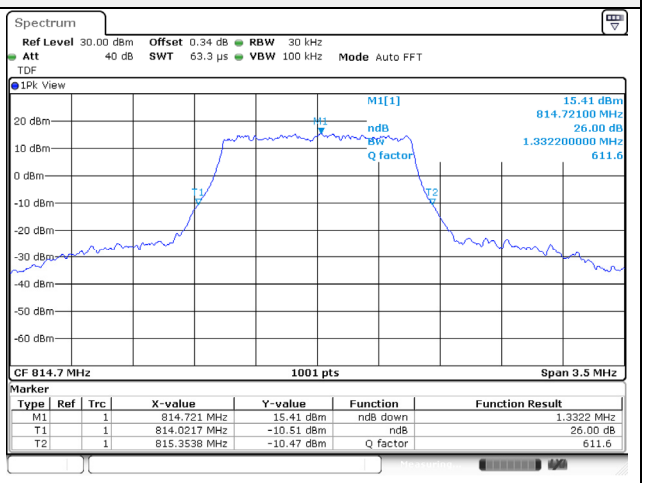
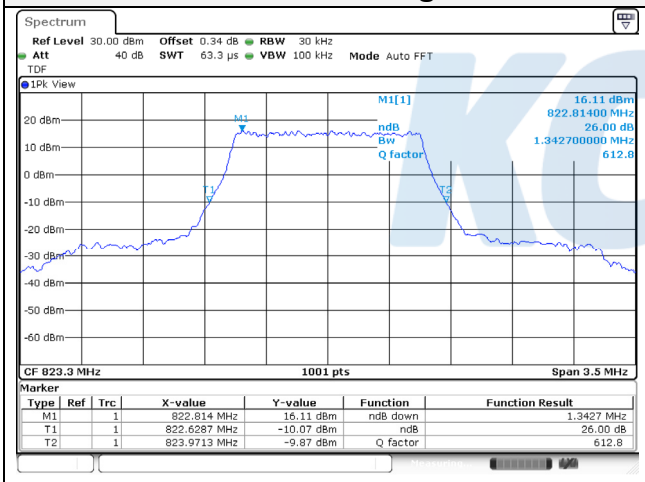
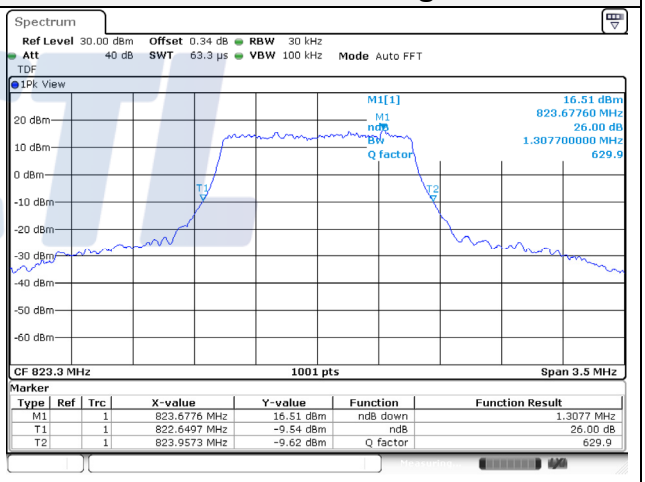
Test Band	Bandwidth (㎒)	Frequency (㎒)	Test mode	26㏈ bandwidth (㎒)	99 % bandwidth (㎒)
LTE Band 26	1.4	814.7	QPSK	1.34	1.09
			16QAM	1.33	1.09
		823.3	QPSK	1.34	1.10
			16QAM	1.31	1.09
	3	815.5	QPSK	3.11	2.70
			16QAM	3.10	2.71
		822.5	QPSK	3.09	2.70
			16QAM	3.10	2.70
	5	816.5	QPSK	5.32	4.55
			16QAM	5.37	4.54
		821.5	QPSK	5.37	4.52
			16QAM	5.35	4.53
	10	819.0	QPSK	10.54	8.99
			16QAM	10.37	9.02
	15	821.5	QPSK	15.29	13.49
			16QAM	15.55	13.49

Straddle channel

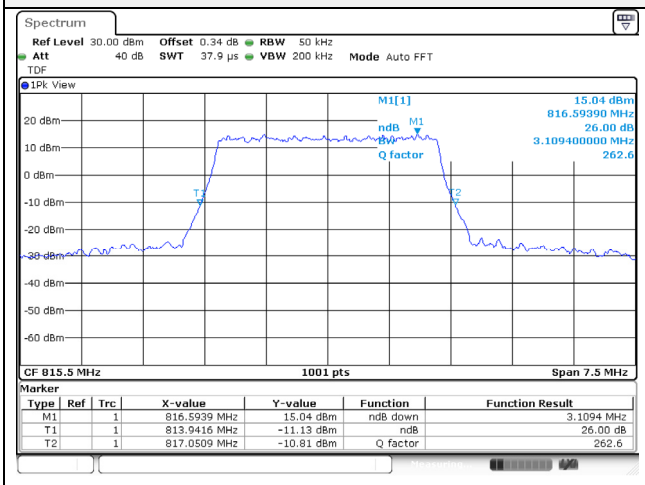
Test Band	Bandwidth (㎒)	Frequency (㎒)	Test mode	26㏈ bandwidth (㎒)	99 % bandwidth (㎒)
LTE Band 26	1.4	824	QPSK	1.34	1.09
			16QAM	1.32	1.09
	3	824	QPSK	3.10	2.70
			16QAM	3.08	2.70
	5	824	QPSK	5.37	4.52
			16QAM	5.37	4.53
	10	824	QPSK	10.29	9.04
			16QAM	10.22	9.02
	15	824	QPSK	15.06	13.45
			16QAM	15.25	13.52

26dB Bandwidth

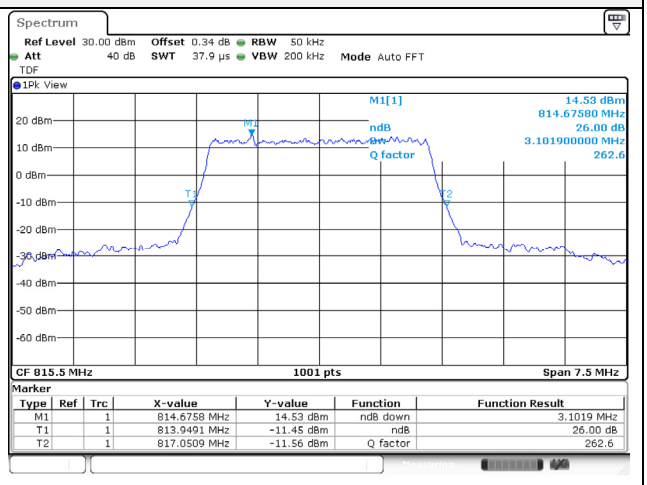
Test mode: LTE Band 26

1.4M BW QPSK Low ch.	1.4M BW 16QAM Low ch.
	
1.4M BW QPSK High ch.	**1.4M BW 16QAM High ch.**
	

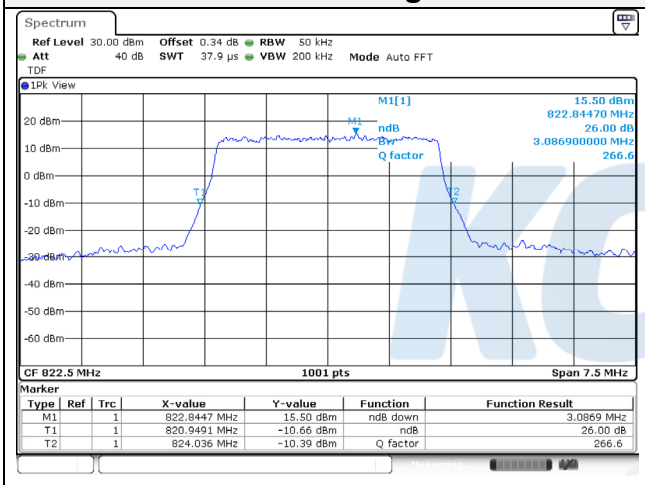
3M BW QPSK Low ch.



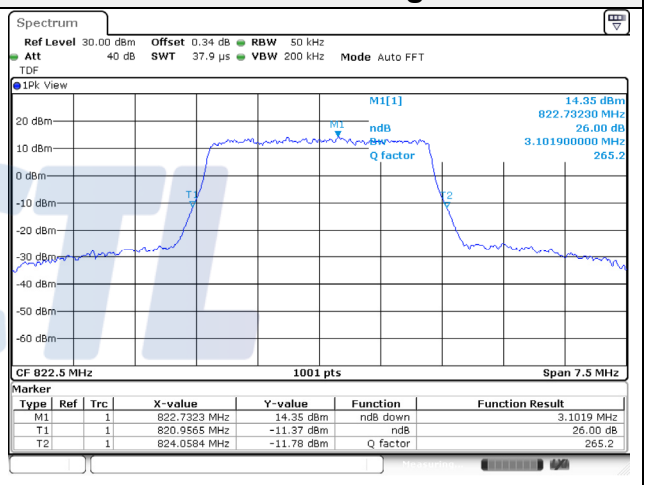
3M BW 16QAM Low ch.



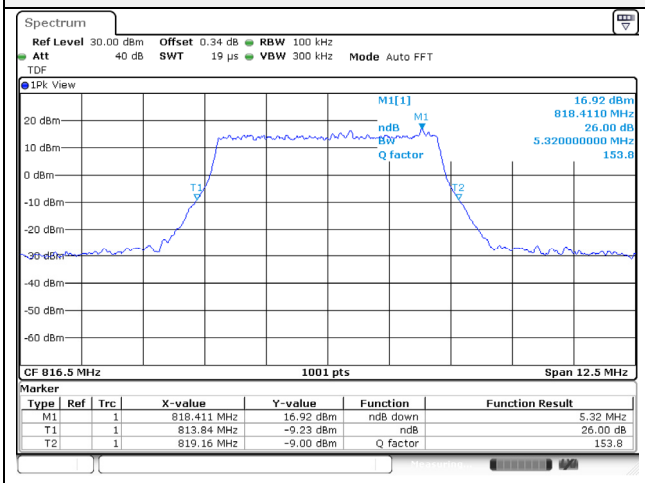
3M BW QPSK High ch.



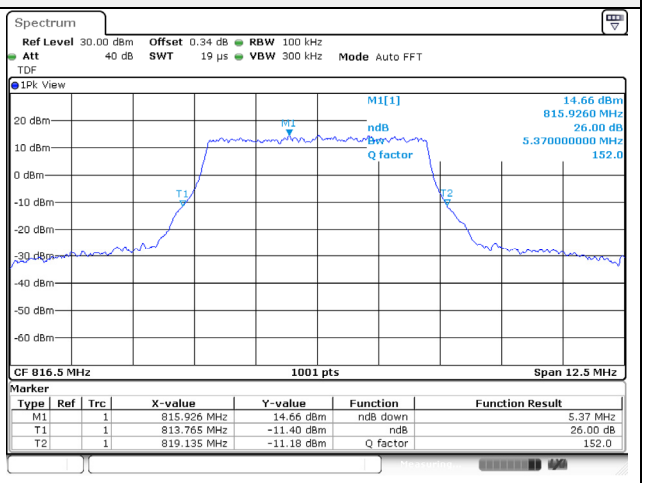
3M BW 16QAM High ch.



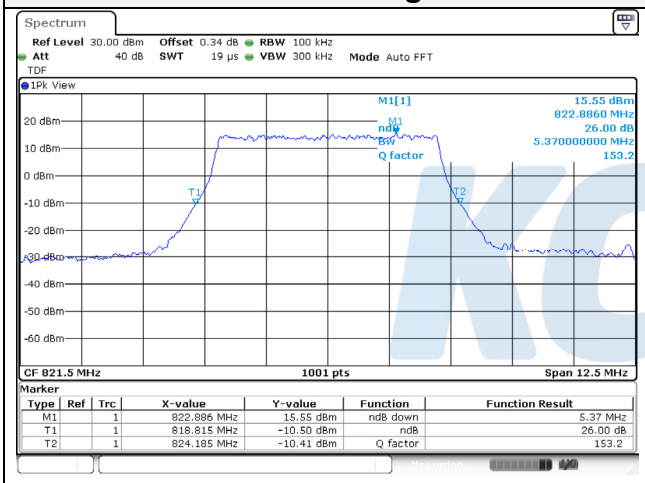
5M BW QPSK Low ch.



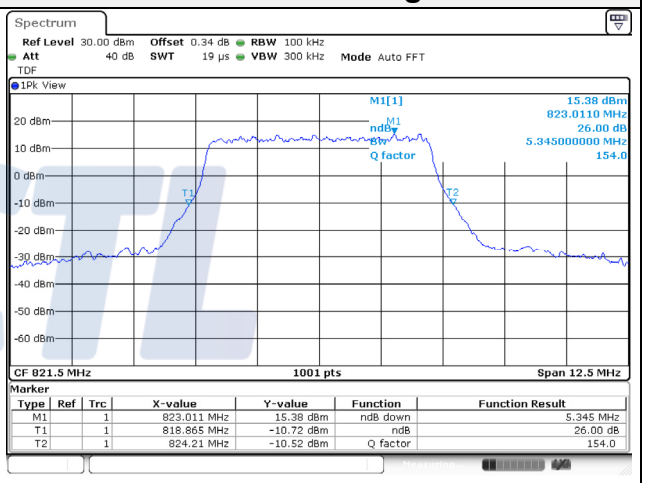
5M BW 16QAM Low ch.



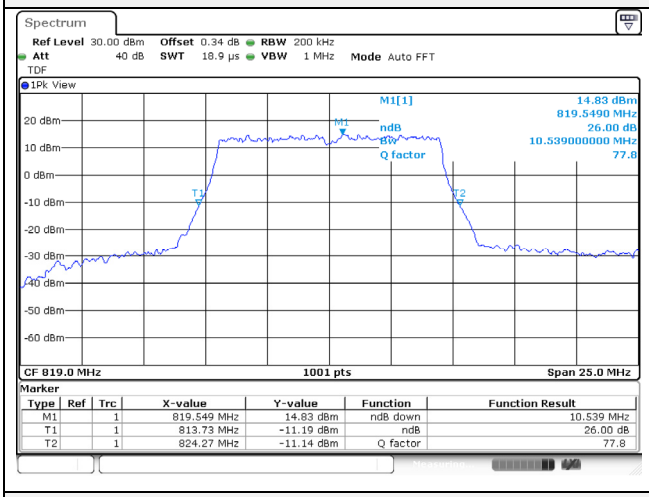
5M BW QPSK High ch.



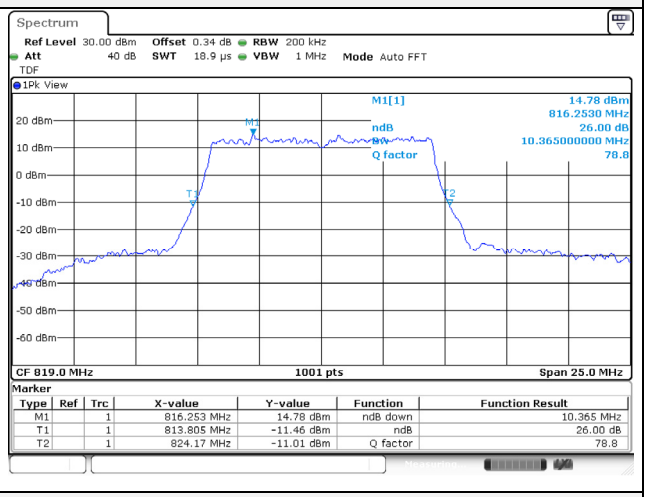
5M BW 16QAM High ch.



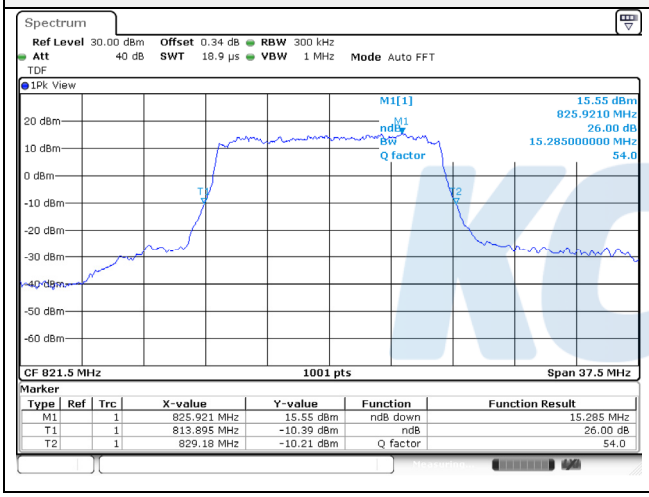
10M BW QPSK Mid ch.



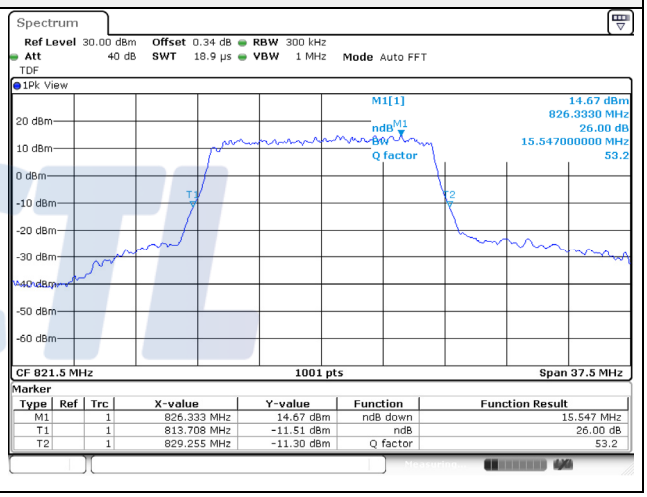
10M BW 16QAM Mid ch.



15M BW QPSK Mid ch.

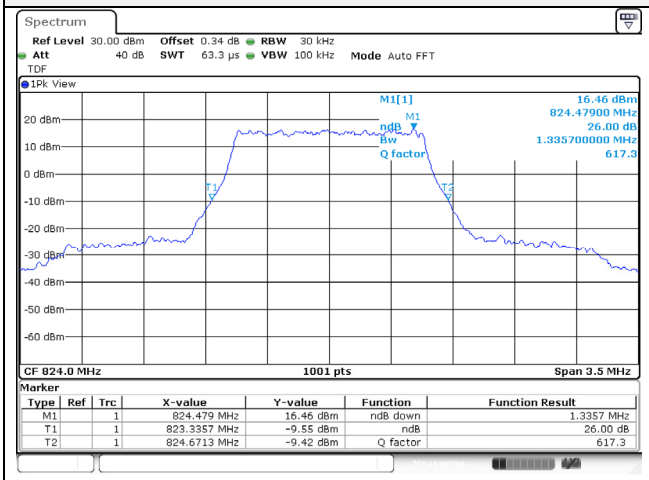


15M BW 16QAM Mid ch.

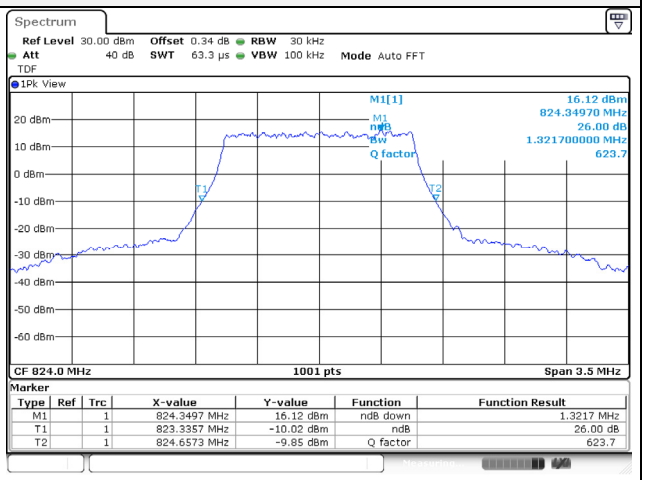


Straddle channel

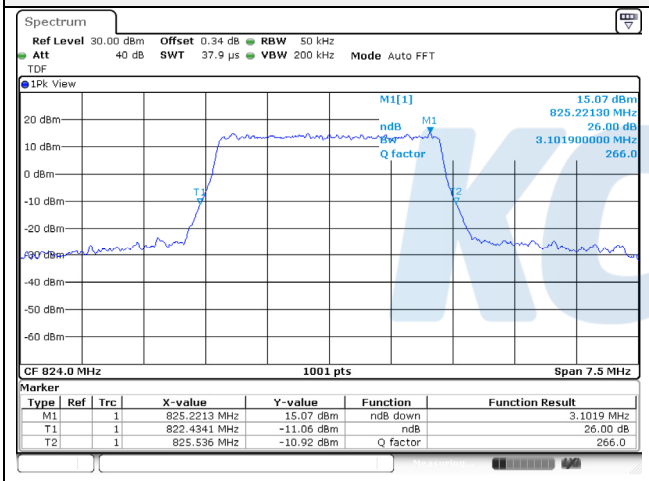
1.4M BW QPSK



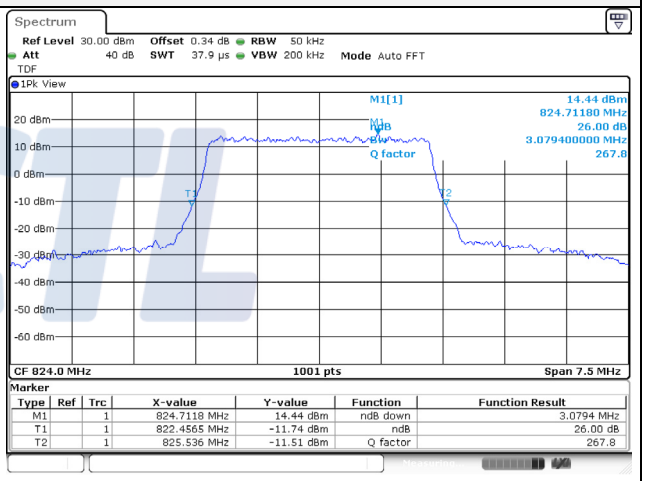
1.4M BW 16QAM



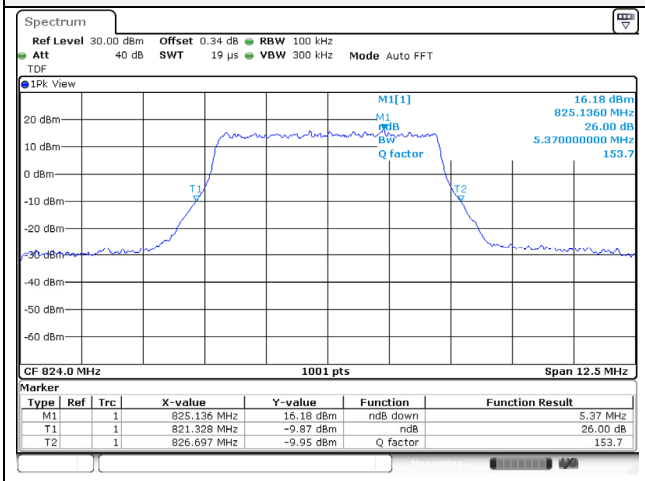
3M BW QPSK



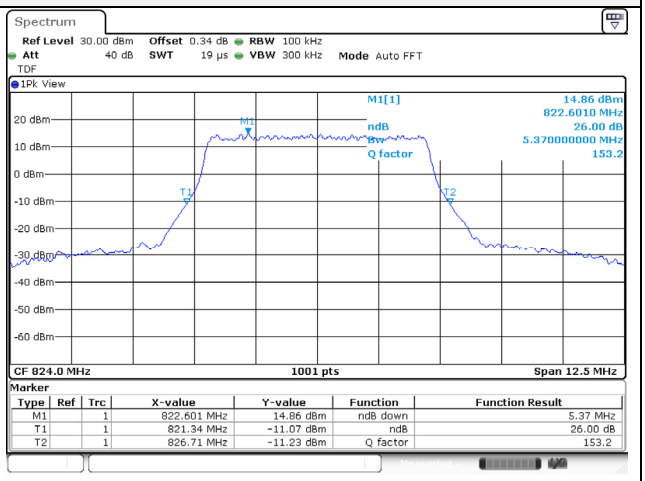
3M BW 16QAM



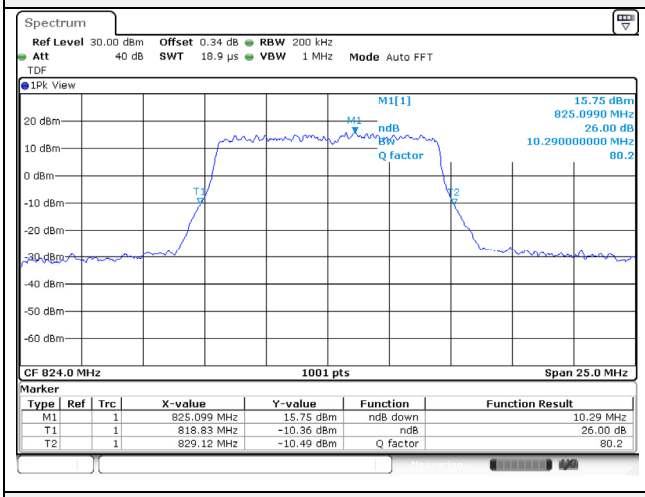
5M BW QPSK



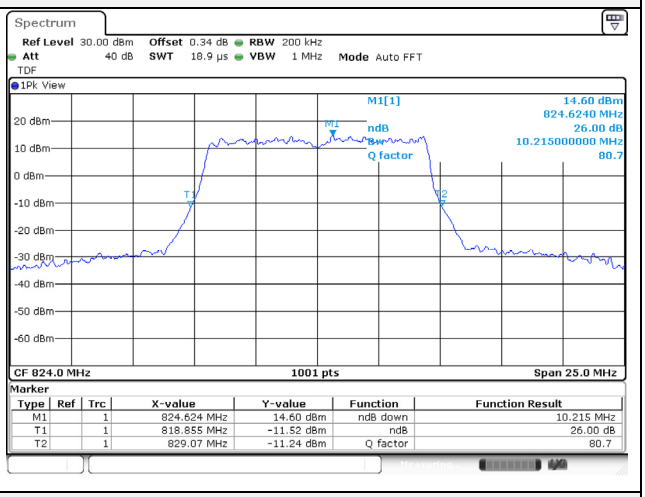
5M BW 16QAM



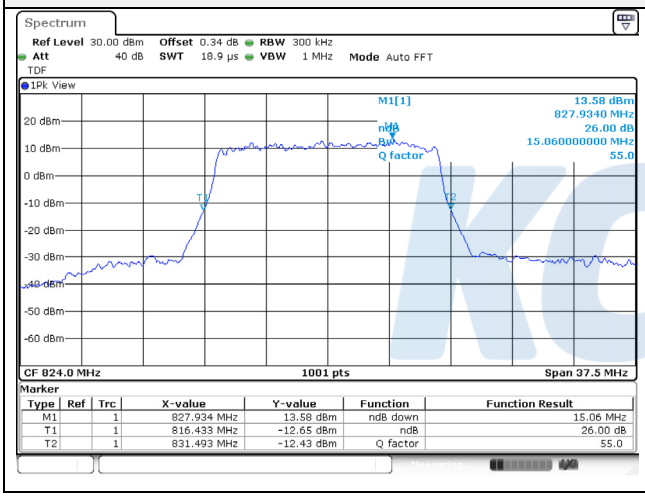
10M BW QPSK



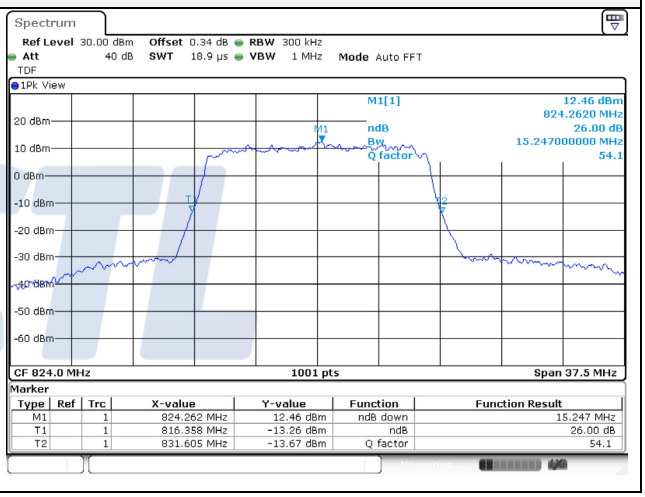
10M BW 16QAM



15M BW QPSK

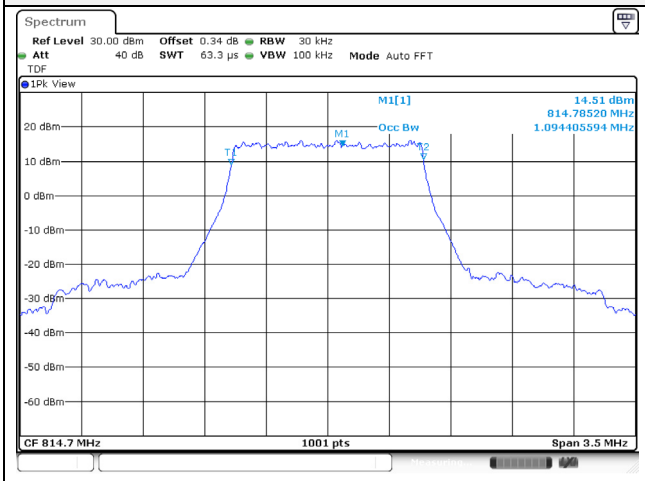
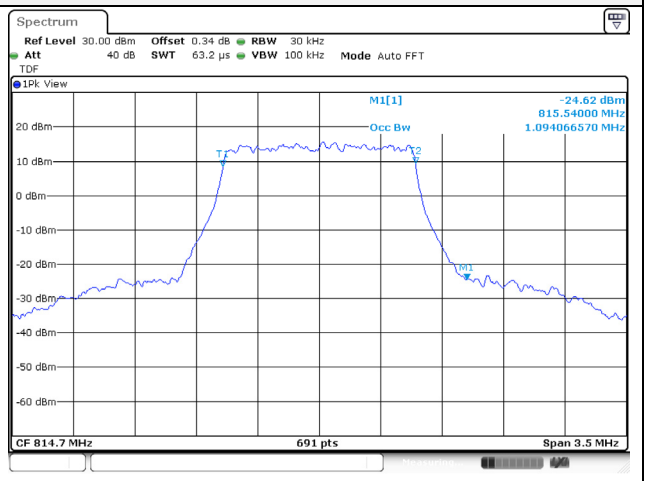
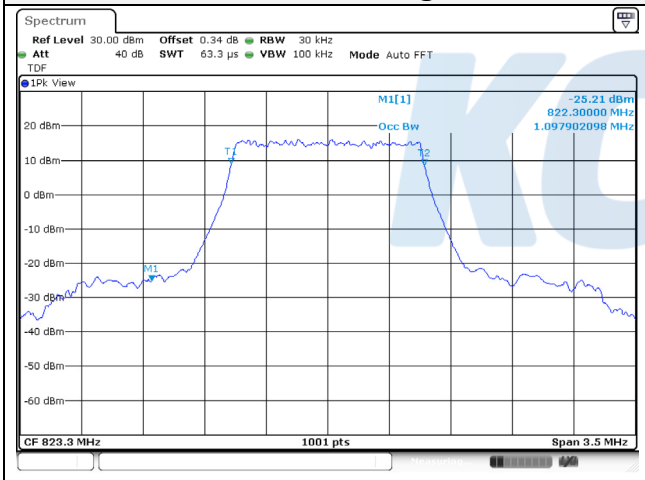
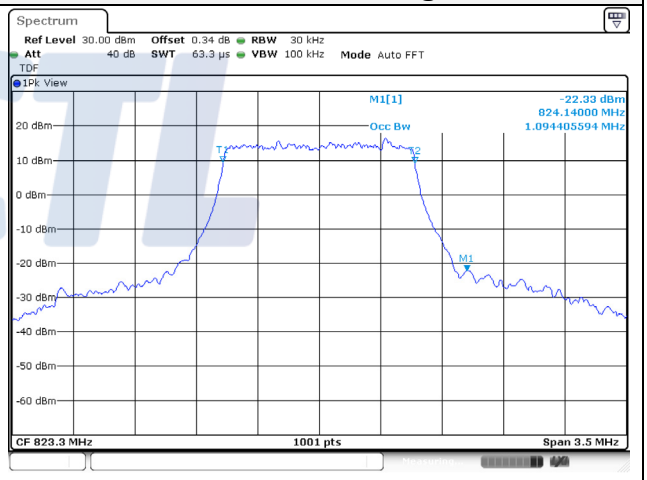


15M BW 16QAM

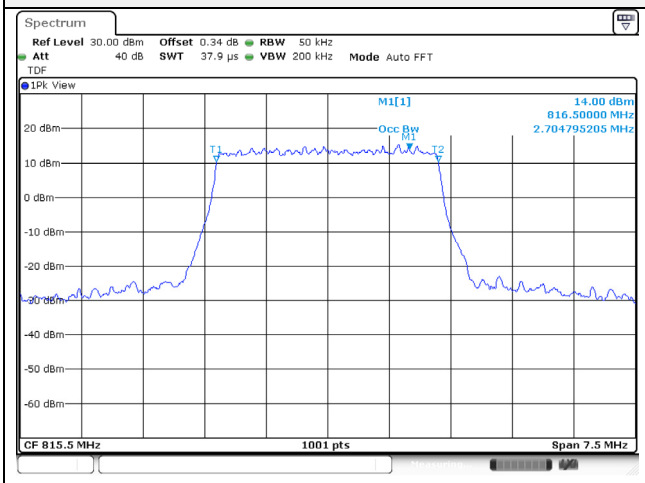


99% Occupied Bandwidth

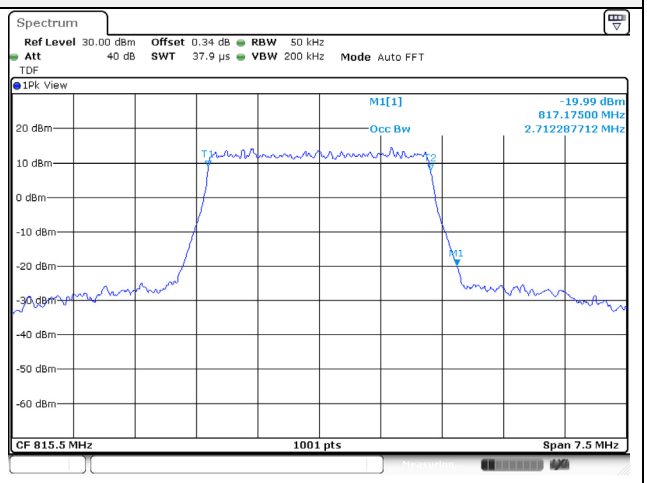
Test mode: LTE Band 26

1.4M BW QPSK Low ch.	1.4M BW 16QAM Low ch.
	
1.4M BW QPSK High ch.	**1.4M BW 16QAM High ch.**
	

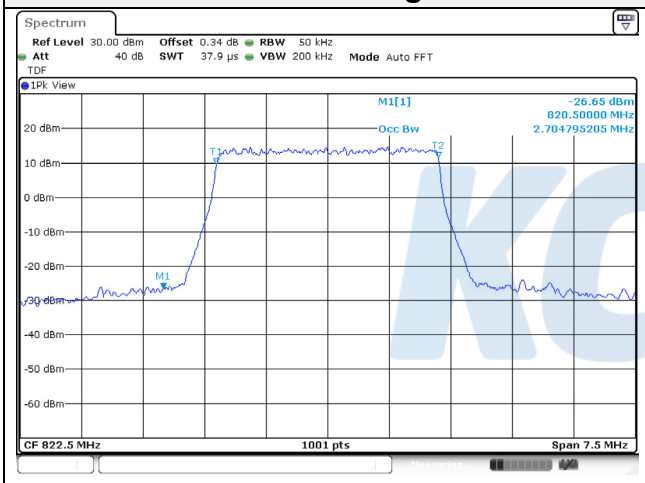
3M BW QPSK Low ch.



3M BW 16QAM Low ch.



3M BW QPSK High ch.



3M BW 16QAM High ch.