



TEST REPORT

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<p>1. Client</p> <ul style="list-style-type: none"> ◦ Name : Samsung Electronics Co., Ltd. ◦ Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea ◦ Date of Receipt : 2020-04-24 <p>2. Use of Report : Certification</p> <p>3. Name of Product / Model : Tablet PC / SM-T976B</p> <p>4. Manufacturer / Country of Origin : Samsung Electronics Co., Ltd. / Vietnam</p> <p>5. FCC ID : A3LSMT976B</p> <p>6. Date of Test : 2020-05-09 to 2020-06-22</p> <p>7. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address: Address of testing location)</p> <p>8. Test method used : FCC Part 2 FCC Part 22 subpart H FCC Part 24 subpart E FCC Part 27 subpart C</p> <p>9. Test Results : Refer to the test result in the test report</p>		
Affirmation	<p>Tested by</p> <p>Name : Taeyoung Kim </p>	<p>Technical Manager</p> <p>Name : Seungyong Kim </p>
<p style="text-align: right;">2020-07-02</p> <p style="text-align: center;">KCTL Inc.</p> <p>As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.</p>		

REPORT REVISION HISTORY

Date	Revision	Page No
2020-06-24	Originally issued	-
2020-07-02	Updated	4,5

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Note. The report No. KR20-SRF0154 is superseded by the report No. KR20-SRF0154-A.

General remarks for test reports

Nothing significant to report.



CONTENTS

1.	General information	4
2.	Device information	4
2.1.	Accessory information	6
2.2.	Frequency/channel operations.....	6
3.	Maximum ERP/EIRP power.....	10
4.	Summary of tests	13
4.1.	Worst case orientation	14
5.	Measurement uncertainty	15
6.	Measurement results explanation example	16
7.	Test results	17
7.1.	Conducted output power.....	17
7.2.	99% Occupied Bandwidth & 26 dB Bandwidth.....	40
7.3.	Spurious Emissions at Antenna Terminal.....	101
7.4.	Band Edge Emissions at Antenna Terminal	129
7.5.	Peak to Average Power Ratio (PAPR)	170
7.6.	Frequency stability	187
7.7.	Radiated Power (ERP/EIRP)	195
7.8.	Radiated Spurious Emissions	203
8.	Measurement equipment	212

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.
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Rep. of Korea
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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 : Tablet PC
Model : SM-T976B
Modulation technique : Bluetooth(BDR/EDR)_GFSK, $\pi/4$ DQPSK, 8DPSK
Bluetooth(BLE)_GFSK
WIFI(802.11a/b/g/n/ac/ax)_DSSS, OFDM, OFDMA
WPT_AM
LTE_QPSK, 16QAM, 64QAM, 256QAM
WCDMA_QPSK
GSM_GMSK, 8-PSK
Number of channels : Bluetooth(BDR/EDR)_79 ch / Bluetooth(BLE)_40 ch
802.11b/g/n/ac/ax_HT20/VHT20/HE20 : 13 ch
UNII-1: 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
UNII-2A: 4 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
UNII-2C: 12 ch (20 MHz), 6 ch (40 MHz), 3 ch (80 MHz)
UNII-3: 5 ch (20 MHz), 2 ch (40 MHz), 1 ch (80 MHz)
WPT_1 ch
Power source : DC 3.86 V
Antenna specification : LTE/WCDMA_Metal Antenna
WIFI/Bluetooth(BDR/EDR/BLE)_ Metal Antenna
Loop Coil Antenna_Flat type (WPT)
Antenna gain : WIFI/Bluetooth(BDR/EDR/BLE)_ ANT 1 : -5.71 dBi, ANT 2 : -6.52 dBi
UNII-1 ANT 1 : -8.45 dBi, ANT 2 : -8.84 dBi
UNII-2A ANT 1 : -6.15 dBi, ANT 2 : -8.46 dBi

Frequency range	: UNII-2C ANT 1 : -6.05 dBi, ANT 2 : -8.57 dBi UNII-3 ANT 1 : -8.65 dBi, ANT 2 : -7.70 dBi Bluetooth(BDR/EDR/BLE)_2 402 MHz ~ 2 480 MHz 2 412 MHz ~ 2 472 MHz (802.11b/g/n/ac/ax_HT20/VHT20/HE20) UNII-1: 5 180 MHz ~ 5 240 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-1: 5 190 MHz ~ 5 230 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-1: 5 210 MHz (802.11ac/ax_VHT80/HE80) UNII-2A: 5 260 MHz ~ 5 320 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-2A: 5 270 MHz ~ 5 310 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-2A: 5 290 MHz (802.11ac/ax_VHT80/HE80) UNII-2C: 5 500 MHz ~ 5 720 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-2C: 5 510 MHz ~ 5 710 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-2C: 5 530 MHz ~ 5 690 MHz (802.11ac/ax_VHT80/HE80) UNII-3: 5 745 MHz ~ 5 825 MHz (802.11a/n/ac/ax_HT20/VHT20/HE20) UNII-3: 5 755 MHz ~ 5 795 MHz (802.11n/ac/ax_HT40/VHT40/HE40) UNII-3: 5 775 MHz (802.11ac/ax_VHT80/HE80) LTE Band 2_1 850.7 MHz ~ 1909.3 MHz LTE Band 4_1 710.7 MHz ~ 1754.3 MHz LTE Band 5_824.7 MHz ~ 848.3 MHz LTE Band 12_699.7 MHz ~ 715.3 MHz LTE Band 13_779.5 MHz ~ 784.5 MHz LTE Band 25_1850.7 MHz ~ 1914.3 MHz LTE Band 26_824.7 MHz ~ 848.3 MHz, 814.7 MHz ~ 824.0 MHz LTE Band 41_2 498.5 MHz ~ 2 687.5 MHz LTE Band 66_1 710.7 MHz ~ 1779.3 MHz GSM 850_824.2 MHz ~ 848.8 MHz GSM 1900_1 850.2 MHz ~ 1 909.8 MHz WCDMA 850_826.4 MHz ~ 846.6 MHz WCDMA 1700_1 712.4 MHz ~ 1752.6 MHz WCDMA 1900_1 852.4 MHz ~ 1907.6 MHz WPT_530 kHz ~ 600 kHz
Software version	: T976B.001
Hardware version	: REV0.4
Test device serial No.	: Conducted(4264ec94771d7ece), Radiated(R32N500LKZT)
Operation temperature	: -30 °C ~ 50 °C

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source	FCC ID
Travel Adapter	Samsung Electronics Co., Ltd	EP-TA800	-	Input : 100-240V, 50-60Hz Output : (PDO) 5.0V, 3A or 9.0V, 2.77A (PPS) 3.3-5.9V, 3A or 3.3-11.0V, 2.25A	-
Data Cable	Samsung Electronics Co., Ltd	EP-DT725BBE	-	-	-
Stylus Pen	Samsung Electronics Co., Ltd	EJ-PT870	-	DC 2.75 V	A3LEJPT870
Earphone	Samsung Electronics Co., Ltd	EHS64	-	-	-
External Keyboard	Samsung Electronics Co., Ltd	EF-DT970	-	DC 3.30 V	-

2.2. Frequency/channel operations

This device contains the following capabilities:

WIFI(802.11a/b/g/n/ac/ax), Bluetooth(BDR/EDR/BLE), WPT,
 LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 25, LTE Band 26,
 LTE Band 41, LTE Band 66, GSM 850, GSM 1900, WCDMA 850, WCDMA 1700, WCDMA 1900

LTE Band 2

Ch.	Frequency (MHz)
18607	1 850.7
18900	1 880.0
19193	1 909.3

Table 2.2.1. 1.4M BW

Ch.	Frequency (MHz)
18615	1 851.5
18900	1 880.0
19185	1 908.5

Table 2.2.2. 3M BW

Ch.	Frequency (MHz)
18625	1 852.5
18900	1 880.0
19175	1 907.5

Table 2.2.3. 5M BW

Ch.	Frequency (MHz)
18650	1 855.0
18900	1 880.0
19150	1 905.0

Table 2.2.4. 10M BW

Ch.	Frequency (MHz)
18675	1 857.5
18900	1 880.0
19125	1 902.5

Table 2.2.5. 15M BW

Ch.	Frequency (MHz)
18700	1 860.0
18900	1 880.0
19100	1 900.0

Table 2.2.6. 20M BW

LTE Band 4

Ch.	Frequency (MHz)
19957	1 710.7
20175	1 732.5
20393	1 754.3

Table 2.2.7. 1.4M BW

Ch.	Frequency (MHz)
19965	1 711.5
20175	1 732.5
20385	1 753.5

Table 2.2.8. 3M BW

Ch.	Frequency (MHz)
19975	1 712.5
20175	1 732.5
20375	1 752.5

Table 2.2.9. 5M BW

Ch.	Frequency (MHz)
20000	1 715.0
20175	1 732.5
20350	1 750.0

Table 2.2.10. 10M BW

Ch.	Frequency (MHz)
20025	1 717.5
20175	1 732.5
20325	1 747.5

Table 2.2.11. 15M BW

Ch.	Frequency (MHz)
20050	1 720.0
20175	1 732.5
20300	1 745.0

Table 2.2.12. 20M BW

LTE Band 5

Ch.	Frequency (MHz)
20407	824.7
20525	836.5
20643	848.3

Table 2.2.13. 1.4M BW

Ch.	Frequency (MHz)
20415	825.5
20525	836.5
20635	847.5

Table 2.2.14. 3M BW

Ch.	Frequency (MHz)
20425	826.5
20525	836.5
20625	846.5

Table 2.2.15. 5M BW

Ch.	Frequency (MHz)
20450	829.0
20525	836.5
20600	844.0

Table 2.2.16. 10M BW

LTE Band 12

Ch.	Frequency (MHz)
23017	699.7
23095	707.5
23173	715.3

Table 2.2.17. 1.4M BW

Ch.	Frequency (MHz)
23025	700.5
23095	707.5
23165	714.5

Table 2.2.18. 3M BW

Ch.	Frequency (MHz)
23035	701.5
23095	707.5
23155	713.5

Table 2.2.19. 5M BW

Ch.	Frequency (MHz)
23060	704.0
23095	707.5
23130	711.0

Table 2.2.20. 10M BW

LTE Band 13

Ch.	Frequency (MHz)
23205	779.5
23230	782.0
23255	784.5

Table 2.2.21. 5M BW

Ch.	Frequency (MHz)
-	-
23230	782.0
-	-

Table 2.2.22. 10M BW

LTE Band 25

Ch.	Frequency (MHz)
26047	1 850.7
26365	1 882.5
26683	1 914.3

Table 2.2.23. 1.4M BW

Ch.	Frequency (MHz)
26055	1 851.5
26365	1 882.5
26675	1 913.5

Table 2.2.24. 3M BW

Ch.	Frequency (MHz)
26065	1 852.5
26365	1 882.5
26665	1 912.5

Table 2.2.25. 5M BW

Ch.	Frequency (MHz)
26090	1 855.0
26365	1 882.5
26640	1 910.0

Table 2.2.26. 10M BW

Ch.	Frequency (MHz)
26115	1 857.5
26365	1 882.5
26615	1 907.5

Table 2.2.27. 15M BW

Ch.	Frequency (MHz)
26140	1 860.0
26365	1 882.5
26590	1 905.0

Table 2.2.28. 20M BW

LTE Band 26

Ch.	Frequency (MHz)
26797	824.7
26915	836.5
27033	848.3

Table 2.2.29. 1.4M BW

Ch.	Frequency (MHz)
26805	825.5
26915	836.5
27025	847.5

Table 2.2.30. 3M BW

Ch.	Frequency (MHz)
26815	826.5
26915	836.5
27015	846.5

Table 2.2.31. 5M BW

Ch.	Frequency (MHz)
26840	829.0
26915	836.5
26990	844.0

Table 2.2.32. 10M BW

Ch.	Frequency (MHz)
26865	831.5
26915	836.5
26965	841.5

Table 2.2.33. 15M BW

LTE Band 66

Ch.	Frequency (MHz)
131979	1 710.7
132322	1 745.0
132665	1 779.3

Table 2.2.34. 1.4M BW

Ch.	Frequency (MHz)
131987	1 711.5
132322	1 745.0
132657	1 778.5

Table 2.2.35. 3M BW

Ch.	Frequency (MHz)
131997	1 712.5
132322	1 745.0
132647	1 777.5

Table 2.2.36. 5M BW

Ch.	Frequency (MHz)
132022	1 715.0
132322	1 745.0
132622	1 775.0

Table 2.2.37. 10M BW

Ch.	Frequency (MHz)
132047	1 717.5
132322	1 745.0
132597	1 772.5

Table 2.2.38. 15M BW

Ch.	Frequency (MHz)
132072	1 720.0
132322	1 745.0
132572	1 770.0

Table 2.2.39. 20M BW

LTE Band 41

Ch.	Frequency (MHz)
39675	2 498.5
40620	2 593.0
41565	2 687.5

Table 2.2.40. 5M BW

Ch.	Frequency (MHz)
39700	2 501.0
40620	2 593.0
41540	2 685.0

Table 2.2.41. 10M BW

Ch.	Frequency (MHz)
39725	2 503.5
40620	2 593.0
41515	2 682.5

Table 2.2.42. 15M BW

Ch.	Frequency (MHz)
39750	2 506.0
40620	2 593.0
41490	2 680.0

Table 2.2.43. 20M BW

Notes:

- Higher band (824 - 849 MHz) of Band 26 to cover LTE Band 5(824 - 849 MHz) and they have same maximum tune-up power. Therefore, test data provided in this report covers Band 5 as well as Band 26 subpart to Part22.
- LTE Band 66(1 710 - 1 780 MHz) overlaps the entire frequency range of LTE Band 4(1 710 - 1 755 MHz) and they have same maximum tune-up power. Therefore, test data provided in this report covers Band 4 as well as Band 66 subpart to Part27.
- LTE Band 25(1 850 - 1 915 MHz) overlaps the entire frequency range of LTE Band 2(1 850 - 1 910 MHz) and they have same maximum tune-up power. Therefore, test data provided in this report covers Band 2 as well as Band 25 subpart to Part24.

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3. Maximum ERP/EIRP power**LTE Band 12**

Mode	Tx frequency (MHz)	Emission designator	ERP	
			Max. power (dBm)	Max. power (W)
LTE Band 12	699.7 ~ 715.3	1M10G7D	21.56	0.143
		1M09W7D	20.64	0.116
	700.5 ~ 714.5	2M70G7D	21.73	0.149
		2M70W7D	20.58	0.114
	701.5 ~ 713.5	4M52G7D	21.75	0.150
		4M52W7D	20.98	0.125
	704.0 ~ 711.0	9M02G7D	21.53	0.142
		8M99W7D	20.87	0.122

LTE Band 13

Mode	Tx frequency (MHz)	Emission designator	ERP	
			Max. power (dBm)	Max. power (W)
LTE Band 13	779.5 ~ 784.5	4M52G7D	23.32	0.215
		4M52W7D	22.61	0.182
	782.0	8M94G7D	22.98	0.199
		8M97W7D	22.08	0.161

LTE Band 25/2

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 25/2	1 850.7 ~ 1 914.3	1M10G7D	23.63	0.231
		1M09W7D	22.76	0.189
	1 851.5 ~ 1 913.5	2M70G7D	23.77	0.238
		2M70W7D	23.05	0.202
	1 852.5 ~ 1 912.5	4M51G7D	23.82	0.241
		4M52W7D	23.07	0.203
	1 855.0 ~ 1 910.0	8M99G7D	23.47	0.222
		8M99W7D	22.53	0.179
	1 857.5 ~ 1 907.5	13M5G7D	23.45	0.221
		13M5W7D	22.75	0.188
	1 860.0 ~ 1 905.0	18M0G7D	23.58	0.228
		18M0W7D	22.96	0.198

LTE Band 26/5

Mode	Tx frequency (MHz)	Emission designator	ERP	
			Max. power (dBm)	Max. power (W)
LTE Band 26/5	824.7 ~ 848.3	1M10G7D	24.94	0.312
		1M09W7D	24.00	0.251
	825.5 ~ 847.5	2M70G7D	24.67	0.293
		2M70W7D	24.02	0.252
	826.5 ~ 846.5	4M52G7D	24.97	0.314
		4M52W7D	24.13	0.259
	829.0 ~ 844.0	8M97G7D	25.05	0.320
		8M99W7D	23.89	0.245
	831.5 ~ 841.5	13M5G7D	24.70	0.295
		13M5W7D	24.16	0.261

LTE Band 41

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 41	2 498.5 ~ 2 687.5	4M51G7D	26.33	0.430
		4M52W7D	25.45	0.351
	2 501.0 ~ 2 685.0	8M99G7D	27.44	0.555
		8M99W7D	26.22	0.419
	2 503.5 ~ 2 682.5	13M5G7D	25.56	0.360
		13M5W7D	22.40	0.174
	2 506.0 ~ 2 680.0	18M0G7D	26.73	0.471
		18M1W7D	25.90	0.389

LTE Band 66/4

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
LTE Band 66/4	1 710.7 ~ 1 779.3	1M10G7D	22.25	0.168
		1M09W7D	21.31	0.135
	1 711.5 ~ 1 778.5	2M70G7D	22.77	0.189
		2M70W7D	21.69	0.148
	1 712.5 ~ 1 777.5	4M52G7D	22.72	0.187
		4M51W7D	21.44	0.139
	1 715.0 ~ 1 775.0	8M99G7D	22.59	0.182
		8M97W7D	21.73	0.149
	1 717.5 ~ 1 772.5	13M5G7D	22.53	0.179
		13M5W7D	21.88	0.154
	1 720.0 ~ 1 770.0	18M0G7D	22.61	0.182
		18M1W7D	21.86	0.153

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4. Summary of tests

FCC Part section(s)	Parameter	Test Limit	Test Condition	Test results
2.1046	Conducted Output Power	N/A	Conducted	Pass
2.1049	Occupied Bandwidth & 26 dB Bandwidth	N/A		Pass
2.1051 22.917(a) 24.238(a) 27.53(c), (g),(h),(m)	Band Edge Emissions at Antenna Terminal	<43 + 10Log ₁₀ (P) dB for all out of band emissions,		Pass
	Spurious Emissions at Antenna Terminal	<65 + 10Log ₁₀ (P) dB, Undesirable emissions must Meet the limits detailed in 27.53(m).		Pass
24.232(d) 27.50(d)(5)	Peak to Average Power Ratio	< 13 dB		Pass
2.1055 22.355	Frequency stability	< 2.5 ppm		Pass
24.235		Emission must remain in band		
27.54				
22.913(a)(5)	Effective Radiated Power	< 7 Watts max. ERP	Pass	
27.50(b)(10) 27.50(c)(10)		< 3 Watts max. ERP	Pass	
24.232(c) 27.50(h)(2)	Equivalent Isotropic Radiated Power	< 2 Watts max. EIRP	Pass	
27.50(d)(4)		< 1 Watts max. EIRP	Pass	
2.1053 22.917(a) 24.238(a) 27.53(c),(f), (g),(h),(m)	Radiated Spurious Emissions	<43 + 10Log ₁₀ (P) dB for all out of band emissions, <-70 dBW/MHz EIRP - Wideband <-80 dBW/MHz EIRP- Narrowband, Undesirable emissions must Meet the limits detailed in 27.53(m).	Radiated	Pass

Notes:

- 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

- 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.
- Output power measurements were measured on QPSK, 16QAM, 64QAM and 256QAM Modulation. All tests except output power was performed with QPSK and 16QAM modulation.
- All final radiated testing was performed with the EUT in worst case orientation.
- For LTE Band 25/2 and 41, 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.
- For LTE Band 66/4, the fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **Y** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **Y** orientation.
- For LTE Band 12, 13 and 26/5, the fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **Z** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **Z** orientation.
- All the radiated tests have been performed several case.
(Stand-alone, with accessories (keyboard, earphone, etc.))
Worst case : Stand-alone

Test condition	LTE Band	Modulation	Bandwidth (MHz)	RB size	RB offset
Radiated	B12	QPSK	5	1	0, 13, 24
	B13		5	1	0, 13, 24
	B25/2		5	1	0, 13, 24
	B26/5		10	1	0, 25, 49
	B66/4		3	1	0, 8, 14
	B41		10	1	0, 25, 49
Conducted	B12	QPSK 16QAM	1.4, 3, 5, 10	1	0, 5, 14, 24, 49
				Full	0
	B13		5, 10	1	0, 24, 49
				Full	0
	B25/2		1.4, 3, 5, 10, 15, 20	1	0, 5, 14, 24, 49, 74, 99
				Full	0
	B26/5		1.4, 3, 5, 10, 15	1	0, 5, 14, 24, 49, 74
				Full	0
	B66/4		1.4, 3, 5, 10, 15, 20	1	0, 5, 14, 24, 49, 74, 99
				Full	0
	B41		5, 10, 15, 20	1	0, 24, 49, 74, 99
				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 indicate a 95 % level of confidence. The measurement data shown herein meets or 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 (\pm)	
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

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6. Measurement results explanation example

Frequency (MHz)	Factor(dB)	Frequency (MHz)	Factor(dB)
30	5.77	11 000	7.10
50	5.78	12 000	7.22
100	5.76	13 000	7.52
200	5.76	14 000	7.57
300	5.82	15 000	8.17
400	5.84	16 000	8.48
500	5.88	17 000	8.50
600	5.87	18 000	8.52
700	5.74	19 000	8.57
800	5.77	20 000	8.57
900	6.03	21 000	8.80
1 000	6.15	22 000	8.82
2 000	6.37	23 000	8.79
3 000	6.47	24 000	8.95
4 000	6.49	25 000	9.10
5 000	6.50	26 000	9.13
6 000	6.38	26 500	9.12
7 000	6.49	27 000	9.23
8 000	6.60	28 000	9.25
9 000	6.70	29 000	9.30
10 000	7.31	30 000	9.31

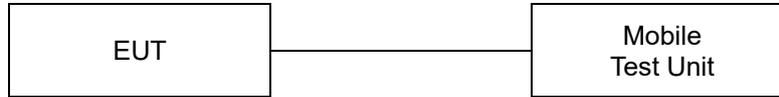
Note.

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

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 $\pm 2\%$) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to $[10\log(1/\text{duty cycle})]$. 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.

Test results

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power				
						Frequency (MHz)				
						Low	Middle	High		
LTE Band 2	1.4	QPSK	1	0	0	22.95	23.20	22.97		
			1	3	0	23.01	23.25	23.03		
			1	5	0	22.92	23.16	22.90		
			3	0	0	22.91	23.14	22.99		
			3	1	0	22.99	23.20	23.03		
			3	3	0	22.89	23.10	22.99		
		6	0	1	22.02	22.18	22.03			
		16QAM	1	0	1	22.10	22.23	22.14		
			1	3	1	22.10	22.30	22.25		
			1	5	1	22.03	22.20	22.09		
			3	0	1	22.15	22.42	22.01		
			3	1	1	22.19	22.49	22.05		
			3	3	1	22.10	22.44	21.99		
		64QAM	6	0	2	20.96	21.25	21.05		
			1	0	2	20.55	21.38	20.63		
			1	3	2	20.81	21.57	20.76		
			1	5	2	20.69	21.35	20.55		
			3	0	2	20.56	21.30	20.63		
			3	1	2	20.52	21.40	20.78		
		256QAM	3	3	2	20.58	21.21	20.58		
			6	0	3	19.54	20.24	19.65		
			1	0	5	18.17	18.34	18.22		
			1	3	5	18.25	18.45	18.33		
			1	5	5	18.18	18.34	18.30		
			3	0	5	18.22	18.51	18.34		
		QPSK	3	QPSK	3	1	5	18.24	18.52	18.30
					3	3	5	18.18	18.33	18.24
					6	0	5	18.08	18.29	18.23
					1	0	0	23.08	23.24	23.06
					1	8	0	23.12	23.24	23.11
	1				14	0	22.96	23.10	22.95	
	16QAM	QPSK		8	0	1	22.12	22.33	22.09	
				8	4	1	22.13	22.29	22.14	
				8	7	1	22.06	22.25	22.05	
				15	0	1	22.12	22.27	22.12	
				1	0	1	22.28	22.29	22.70	
				1	8	1	22.29	22.34	22.69	
	64QAM	16QAM		1	14	1	22.19	22.26	22.54	
				8	0	2	21.13	21.38	21.29	
				8	4	2	21.15	21.38	21.35	
				8	7	2	21.09	21.35	21.25	
				15	0	2	21.17	21.28	21.09	
				1	0	2	20.48	21.38	20.90	
	256QAM	64QAM		1	8	2	20.94	21.58	20.90	
				1	14	2	20.84	21.21	20.72	
				8	0	3	19.58	20.28	19.77	
				8	4	3	19.80	20.36	19.82	
				8	7	3	19.69	20.25	19.65	
				15	0	3	19.70	20.28	19.78	
	QPSK	256QAM		1	0	5	18.26	18.38	18.40	
				1	8	5	18.25	18.43	18.37	
				1	14	5	18.17	18.28	18.24	
				8	0	5	18.26	18.40	18.36	
				8	4	5	18.25	18.46	18.37	
				8	7	5	18.15	18.39	18.27	
	15	0	5	18.18	18.48	18.28				

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 2	5	QPSK	1	0	0	23.09	23.15	23.11
			1	12	0	23.13	23.23	23.09
			1	24	0	23.02	23.08	23.03
			12	0	1	22.13	22.31	22.12
			12	7	1	22.13	22.32	22.10
			12	13	1	22.04	22.23	22.01
		25	0	1	22.12	22.29	22.09	
		16QAM	1	0	1	21.94	22.53	21.96
			1	12	1	22.02	22.65	22.07
			1	24	1	21.89	22.49	21.89
			12	0	2	21.07	21.33	21.10
			12	7	2	21.14	21.38	21.13
			12	13	2	21.05	21.24	21.05
		25	0	2	21.09	21.27	21.14	
		64QAM	1	0	2	20.39	21.53	21.07
			1	12	2	20.63	21.40	20.83
			1	24	2	20.86	21.21	20.68
			12	0	3	19.76	20.36	20.11
			12	7	3	19.95	20.46	20.14
			12	13	3	19.94	20.23	19.85
		25	0	3	19.64	20.20	19.79	
		256QAM	1	0	5	18.26	18.48	18.40
			1	12	5	18.32	18.51	18.41
			1	24	5	18.14	18.30	18.26
			12	0	5	18.19	18.37	18.33
	12		7	5	18.19	18.49	18.33	
	12		13	5	18.06	18.21	18.15	
	25	0	5	18.13	18.40	18.27		
	10	QPSK	1	0	0	22.82	22.97	23.05
			1	25	0	23.05	23.37	23.06
			1	49	0	22.75	22.96	23.02
			25	0	1	22.05	22.23	22.08
			25	12	1	22.10	22.32	22.16
			25	25	1	21.99	22.13	22.05
		50	0	1	22.02	22.11	22.06	
		16QAM	1	0	1	22.24	22.12	22.17
			1	25	1	22.56	22.44	22.05
			1	49	1	22.33	22.12	22.08
			25	0	2	21.07	21.27	21.09
			25	12	2	21.16	21.35	21.23
			25	25	2	21.01	21.19	21.06
		50	0	2	21.04	21.16	21.09	
		64QAM	1	0	2	20.23	21.18	21.24
			1	25	2	20.73	21.34	20.94
			1	49	2	20.93	21.20	20.85
			25	0	3	19.73	20.26	20.06
			25	12	3	19.92	20.33	20.20
			25	25	3	19.83	20.01	19.82
		50	0	3	19.57	20.07	20.00	
		256QAM	1	0	5	18.03	18.20	18.16
1			25	5	18.16	18.32	18.24	
1			49	5	18.05	18.27	18.18	
25			0	5	18.12	18.41	18.22	
25	12		5	18.08	18.38	18.17		
25	25		5	18.15	18.40	18.27		
50	0	5	18.15	18.40	18.30			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 2	15	QPSK	1	0	0	22.82	23.15	23.00
			1	36	0	22.96	23.12	23.00
			1	74	0	22.89	23.15	23.05
			36	0	1	21.90	22.06	22.03
			36	18	1	22.10	22.23	22.07
			36	37	1	22.08	22.14	22.09
		75	0	1	22.03	22.06	22.05	
		16QAM	1	0	1	22.41	22.32	22.42
			1	36	1	22.53	22.38	22.49
			1	74	1	22.60	22.35	22.41
			36	0	2	20.92	21.13	21.01
			36	18	2	21.11	21.25	21.09
			36	37	2	21.10	21.14	21.05
		75	0	2	21.07	21.14	21.03	
		64QAM	1	0	2	20.30	21.18	21.25
			1	36	2	20.72	21.07	21.09
			1	74	2	20.88	21.08	20.47
			36	0	3	19.66	20.04	20.00
			36	18	3	19.91	20.29	20.12
			36	37	3	19.84	20.25	20.20
		75	0	3	19.72	20.17	20.11	
		256QAM	1	0	5	18.06	18.26	18.16
			1	36	5	18.17	18.39	18.32
			1	74	5	18.22	18.39	18.36
	36		0	5	18.01	18.21	18.16	
	36		18	5	18.17	18.38	18.27	
	36		37	5	18.10	18.23	18.25	
	75	0	5	18.13	18.25	18.23		
	20	QPSK	1	0	0	22.93	23.18	22.99
			1	49	0	23.00	23.15	22.99
			1	99	0	23.06	23.06	22.92
			50	0	1	21.87	22.07	22.00
			50	24	1	22.07	22.16	22.09
			50	50	1	22.11	22.17	22.02
		100	0	1	22.02	22.06	22.05	
		16QAM	1	0	1	22.30	22.42	22.76
			1	49	1	22.36	22.36	22.63
			1	99	1	22.44	22.36	22.55
			50	0	2	20.92	21.12	20.95
			50	24	2	21.07	21.17	21.15
			50	50	2	21.15	21.11	21.07
		100	0	2	21.04	21.11	21.07	
		64QAM	1	0	2	20.60	21.14	21.31
			1	49	2	20.74	21.18	21.02
			1	99	2	21.18	21.30	20.67
			50	0	3	19.79	20.02	19.88
			50	24	3	19.87	20.16	20.09
			50	50	3	19.79	20.07	19.98
100		0	3	19.68	20.05	20.02		
256QAM		1	0	5	18.04	18.15	18.10	
		1	49	5	18.23	18.33	18.36	
		1	99	5	18.21	18.33	18.26	
	50	0	5	17.94	18.04	18.00		
	50	24	5	18.15	18.33	18.26		
	50	50	5	18.23	18.39	18.31		
100	0	5	18.17	18.31	18.24			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power			
						Frequency (MHz)			
						Low	Middle	High	
LTE Band 4	1.4	QPSK	1	0	0	22.89	22.73	23.06	
			1	3	0	22.96	22.84	23.16	
			1	5	0	22.82	22.74	23.13	
			3	0	0	22.87	22.65	23.06	
			3	1	0	22.93	22.73	23.17	
			3	3	0	22.82	22.71	23.12	
		16QAM	6	0	1	21.93	21.72	22.18	
			1	0	1	22.04	21.77	22.25	
			1	3	1	22.08	21.82	22.42	
			1	5	1	21.97	21.81	22.29	
			3	0	1	22.09	21.90	22.12	
			3	1	1	22.15	21.98	22.20	
		64QAM	3	3	1	22.04	21.99	22.17	
			6	0	2	20.89	20.81	21.23	
			1	0	2	21.27	21.02	21.22	
			1	3	2	21.17	20.87	21.08	
			1	5	2	21.12	20.99	21.06	
			3	0	2	21.25	21.03	21.18	
		256QAM	3	1	2	21.31	20.95	21.09	
			3	3	2	21.15	21.04	21.04	
			6	0	3	20.08	19.79	19.85	
			1	0	5	18.09	17.96	18.07	
			1	3	5	18.18	18.08	18.26	
			1	5	5	18.19	18.05	18.18	
	3	QPSK	16QAM	3	0	5	18.09	17.99	18.11
				3	1	5	18.26	18.09	18.25
				3	3	5	18.26	18.12	18.22
				6	0	5	18.00	17.84	17.96
				1	0	0	23.01	22.74	23.06
				1	8	0	23.06	22.87	23.15
			64QAM	1	14	0	22.92	22.75	23.09
				8	0	1	22.06	21.80	22.23
				8	4	1	22.09	21.86	22.23
				8	7	1	21.96	21.85	22.24
				15	0	1	22.09	21.80	22.27
				1	0	1	22.61	21.97	22.22
		256QAM	1	8	1	22.66	22.04	22.27	
			1	14	1	22.48	21.97	22.18	
			8	0	2	21.24	20.81	21.28	
			8	4	2	21.27	20.86	21.30	
			8	7	2	21.11	20.80	21.33	
			15	0	2	21.09	20.84	21.30	
		QPSK	16QAM	1	0	2	21.32	21.09	21.38
				1	8	2	21.29	21.12	21.28
				1	14	2	21.27	21.04	21.10
				8	0	3	20.27	20.07	20.42
			64QAM	8	4	3	20.26	20.07	20.28
				8	7	3	20.24	20.14	20.25
	15			0	3	20.15	19.84	20.02	
	1			0	5	18.25	18.05	18.23	
	256QAM		1	8	5	18.37	18.22	18.38	
			1	14	5	18.22	18.12	18.26	
			8	0	5	18.09	17.97	18.11	
			8	4	5	18.23	18.06	18.17	
QPSK	8	7	5	18.20	18.04	18.22			
	15	0	5	18.17	17.98	18.08			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 4	5	QPSK	1	0	0	23.11	22.68	23.08
			1	12	0	23.09	22.74	23.15
			1	24	0	22.88	22.66	23.10
			12	0	1	22.10	21.80	22.20
			12	7	1	21.99	21.88	22.28
			12	13	1	21.88	21.80	22.21
		25	0	1	21.98	21.78	22.18	
		16QAM	1	0	1	21.95	22.11	22.19
			1	12	1	22.01	22.16	22.33
			1	24	1	21.79	22.11	22.17
			12	0	2	21.04	20.84	21.14
			12	7	2	21.01	20.87	21.22
			12	13	2	20.90	20.90	21.16
		25	0	2	20.99	20.76	21.24	
		64QAM	1	0	2	21.28	20.95	21.45
			1	12	2	21.10	20.92	21.26
			1	24	2	21.15	21.04	21.13
			12	0	3	20.31	20.04	20.37
			12	7	3	20.27	20.02	20.39
			12	13	3	20.16	20.08	20.35
		25	0	3	20.10	19.89	20.17	
		256QAM	1	0	5	18.15	18.02	18.22
			1	12	5	18.26	18.07	18.22
			1	24	5	18.20	18.05	18.21
			12	0	5	18.17	17.98	18.08
	12		7	5	18.23	18.03	18.19	
	12		13	5	18.20	18.00	18.19	
	25	0	5	18.06	17.92	18.11		
	10	QPSK	1	0	0	22.63	22.45	22.77
			1	25	0	22.83	22.76	23.15
			1	49	0	22.49	22.60	22.85
			25	0	1	21.95	21.71	22.04
			25	12	1	22.02	21.77	22.11
			25	25	1	21.81	21.74	22.08
		50	0	1	21.94	21.77	22.04	
		16QAM	1	0	1	21.72	22.06	21.87
			1	25	1	21.97	22.31	22.31
			1	49	1	21.64	22.10	22.02
			25	0	2	21.00	20.77	21.08
			25	12	2	21.12	20.81	21.17
			25	25	2	20.85	20.78	21.15
		50	0	2	20.94	20.81	21.08	
		64QAM	1	0	2	21.18	20.55	21.23
			1	25	2	21.25	21.30	21.39
			1	49	2	20.96	20.90	20.96
			25	0	3	20.21	20.02	20.16
			25	12	3	20.32	20.09	20.41
			25	25	3	20.05	20.02	20.31
		50	0	3	20.09	19.91	20.16	
		256QAM	1	0	5	18.22	18.03	18.20
1			25	5	18.34	18.20	18.32	
1			49	5	18.08	17.92	18.05	
25			0	5	18.04	17.88	18.06	
25	12		5	18.05	17.93	18.11		
25	25		5	18.10	17.90	18.04		
50	0	5	18.07	17.88	18.00			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 4	15	QPSK	1	0	0	22.77	22.63	22.71
			1	36	0	22.89	22.72	23.04
			1	74	0	22.70	22.68	22.94
			36	0	1	21.92	21.67	21.94
			36	18	1	21.85	21.83	22.02
			36	37	1	21.81	21.75	22.07
		75	0	1	21.84	21.78	22.04	
		16QAM	1	0	1	22.37	21.86	22.25
			1	36	1	22.46	21.97	22.45
			1	74	1	22.34	21.82	22.40
			36	0	2	20.93	20.69	20.93
			36	18	2	20.91	20.86	20.97
			36	37	2	20.83	20.78	21.01
		75	0	2	20.83	20.81	21.00	
		64QAM	1	0	2	21.20	20.96	21.12
			1	36	2	21.15	21.01	21.25
			1	74	2	20.91	21.14	21.19
			36	0	3	20.15	19.92	20.03
			36	18	3	19.93	19.83	20.25
			36	37	3	19.95	20.04	20.23
		75	0	3	20.05	20.02	20.08	
		256QAM	1	0	5	18.29	18.12	18.28
			1	36	5	18.09	17.97	18.10
			1	74	5	18.08	17.91	18.04
	36		0	5	17.88	17.78	17.92	
	36		18	5	18.17	18.06	18.18	
	36		37	5	18.04	17.94	18.05	
	75	0	5	18.11	17.93	18.04		
	20	QPSK	1	0	0	22.68	22.60	22.55
			1	49	0	22.83	22.74	22.92
			1	99	0	22.49	22.61	22.80
			50	0	1	21.84	21.65	21.75
			50	24	1	21.93	21.82	21.96
			50	50	1	21.74	21.85	22.03
			100	0	1	21.83	21.73	21.94
			1	0	1	22.06	21.97	22.19
			1	49	1	22.24	22.00	22.58
			1	99	1	21.91	21.93	22.51
		16QAM	50	0	2	20.86	20.69	20.81
			50	24	2	20.92	20.85	20.92
			50	50	2	20.74	20.79	21.02
			100	0	2	20.86	20.80	20.97
			1	0	2	21.02	20.89	20.72
			1	49	2	21.30	21.16	21.21
		64QAM	1	99	2	20.75	20.94	21.19
			50	0	3	20.11	19.84	20.03
			50	24	3	19.95	19.79	19.89
			50	50	3	19.92	20.06	20.28
100			0	3	20.00	19.93	19.92	
1			0	5	18.15	18.02	18.14	
256QAM		1	49	5	18.13	17.99	18.10	
		1	99	5	18.11	17.92	18.12	
	50	0	5	17.95	17.80	17.93		
	50	24	5	18.13	17.99	18.10		
	50	50	5	18.05	17.93	18.12		
	100	0	5	18.08	17.88	18.07		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 5	1.4	QPSK	1	0	0	23.32	23.66	23.75
			1	3	0	23.55	23.80	23.74
			1	5	0	23.44	23.75	23.70
			3	0	0	23.36	23.72	23.72
			3	1	0	23.45	23.81	23.76
			3	3	0	23.45	23.78	23.69
		16QAM	6	0	1	22.46	22.89	22.88
			1	0	1	22.82	23.05	23.01
			1	3	1	22.93	23.15	23.16
			1	5	1	22.71	23.05	23.07
			3	0	1	22.48	22.86	22.84
			3	1	1	22.53	22.94	22.80
		64QAM	3	3	1	22.50	22.89	22.84
			6	0	2	21.63	21.92	21.95
			1	0	2	21.64	21.93	21.81
			1	3	2	21.74	22.01	21.84
			1	5	2	21.62	21.99	21.80
			3	0	2	21.62	21.90	21.71
		256QAM	3	1	2	21.71	22.03	21.72
			3	3	2	21.62	21.88	21.87
			6	0	3	20.55	20.90	20.62
			1	0	5	18.89	19.08	19.01
			1	3	5	19.01	19.16	19.11
			1	5	5	18.87	19.07	18.97
	3	QPSK	3	0	5	18.96	19.11	19.06
			3	1	5	18.98	19.18	19.10
			3	3	5	18.86	19.11	19.05
			6	0	5	18.80	18.99	18.90
			1	0	0	23.38	23.70	23.79
			1	8	0	23.56	23.86	23.87
		16QAM	1	14	0	23.51	23.78	23.76
			8	0	1	22.51	22.87	22.89
			8	4	1	22.62	22.88	22.92
			8	7	1	22.61	22.94	22.97
			15	0	1	22.66	22.91	22.85
			1	0	1	22.79	23.04	23.15
		64QAM	1	8	1	22.93	23.23	23.22
			1	14	1	22.90	23.17	23.08
			8	0	2	21.66	21.95	21.93
	8		4	2	21.68	22.01	22.06	
	8		7	2	21.74	21.96	22.04	
	15		0	2	21.62	21.97	21.90	
	256QAM	1	0	2	21.69	21.83	21.89	
		1	8	2	21.78	21.83	21.81	
		1	14	2	21.72	21.85	21.74	
8		0	3	20.61	20.84	20.80		
8		4	3	20.69	20.85	20.80		
8		7	3	20.59	20.66	20.94		
QPSK	15	0	3	20.73	20.81	20.80		
	1	0	5	18.82	19.05	18.97		
	1	8	5	19.01	19.26	19.19		
	1	14	5	18.77	19.01	18.96		
	8	0	5	18.86	19.06	18.98		
	8	4	5	18.90	19.15	19.10		
QPSK	8	7	5	18.90	19.07	18.98		
	15	0	5	19.00	19.15	19.05		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 5	5	QPSK	1	0	0	23.45	23.69	23.69
			1	12	0	23.57	23.83	23.81
			1	24	0	23.55	23.78	23.79
			12	0	1	22.56	22.86	22.86
			12	7	1	22.67	22.96	22.96
			12	13	1	22.62	22.94	22.91
		25	0	1	22.61	22.94	22.94	
		16QAM	1	0	1	22.67	23.04	23.01
			1	12	1	22.76	23.11	23.13
			1	24	1	22.89	23.11	23.18
			12	0	2	21.62	21.89	21.89
			12	7	2	21.69	21.96	22.01
			12	13	2	21.72	21.96	21.92
		25	0	2	21.62	21.97	21.96	
		64QAM	1	0	2	21.59	21.90	21.94
			1	12	2	21.78	21.83	21.94
			1	24	2	21.73	21.87	21.60
			12	0	3	20.64	20.80	20.87
			12	7	3	20.68	20.87	20.75
			12	13	3	20.73	20.82	20.71
		25	0	3	20.64	20.75	20.73	
	256QAM	1	0	5	18.88	19.07	18.99	
		1	12	5	18.95	19.10	19.04	
		1	24	5	18.88	19.11	19.02	
		12	0	5	18.74	18.96	18.90	
		12	7	5	18.90	19.09	19.00	
		12	13	5	18.95	19.12	19.04	
	25	0	5	18.88	19.04	18.95		
	10	QPSK	1	0	0	23.42	23.71	23.75
			1	25	0	23.53	23.72	23.78
			1	49	0	23.66	23.91	23.87
			25	0	1	22.61	22.89	22.87
			25	12	1	22.70	22.95	22.83
			25	25	1	22.68	22.81	22.88
		50	0	1	22.62	22.80	22.79	
		16QAM	1	0	1	22.90	23.11	23.20
			1	25	1	22.90	23.20	23.20
			1	49	1	22.88	23.10	23.24
			25	0	2	21.64	21.84	21.94
			25	12	2	21.73	21.94	21.89
			25	25	2	21.72	21.82	21.87
		50	0	2	21.52	21.82	21.83	
		64QAM	1	0	2	21.71	22.05	21.96
			1	25	2	21.86	22.08	22.16
			1	49	2	21.65	21.76	21.74
25			0	3	20.63	20.91	20.90	
25			12	3	20.69	20.98	20.95	
25			25	3	20.70	20.80	20.86	
50		0	3	20.59	20.67	20.74		
256QAM	1	0	5	18.76	18.91	18.85		
	1	25	5	18.96	19.07	18.97		
	1	49	5	18.75	18.80	18.74		
	25	0	5	18.92	18.98	18.92		
	25	12	5	18.99	19.10	19.05		
	25	25	5	18.75	18.81	18.73		
50	0	5	18.72	18.91	18.82			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power			
						Frequency (MHz)			
						Low	Middle	High	
LTE Band 12	1.4	QPSK	1	0	0	23.50	23.79	23.78	
			1	3	0	23.65	23.90	23.91	
			1	5	0	23.63	23.86	23.92	
			3	0	0	23.55	23.79	23.85	
			3	1	0	23.67	23.77	23.90	
			3	3	0	23.62	23.82	23.86	
		6	0	1	22.72	22.96	22.94		
		16QAM	1	0	1	22.94	23.10	23.19	
			1	3	1	22.99	23.33	23.29	
			1	5	1	22.96	23.24	23.25	
			3	0	1	22.71	22.99	22.91	
			3	1	1	22.82	22.98	23.03	
			3	3	1	22.79	22.86	22.92	
		6	0	2	21.90	22.08	22.17		
		64QAM	1	0	2	21.80	22.01	22.11	
			1	3	2	21.98	22.27	22.22	
			1	5	2	21.92	22.12	22.18	
			3	0	2	21.78	22.02	21.98	
			3	1	2	21.84	22.03	22.13	
			3	3	2	21.82	22.09	22.06	
		6	0	3	20.77	21.02	20.99		
		256QAM	1	0	5	19.26	19.23	19.31	
			1	3	5	19.44	19.33	19.44	
			1	5	5	19.34	19.31	19.35	
	3		0	5	19.40	19.36	19.48		
	3		1	5	19.44	19.36	19.40		
	3		3	5	19.46	19.35	19.42		
	6	0	5	19.35	19.26	19.32			
	3	QPSK	1	0	0	0	23.64	23.84	23.82
				1	8	0	23.75	24.00	23.94
				1	14	0	23.74	23.95	23.85
				8	0	1	22.78	23.01	23.01
				8	4	1	22.88	23.03	23.08
				8	7	1	22.89	23.08	23.03
			15	0	1	22.84	23.01	23.02	
			16QAM	1	0	1	23.09	23.16	23.19
				1	8	1	23.15	23.22	23.36
				1	14	1	23.02	23.30	23.34
				8	0	2	21.90	22.02	22.01
				8	4	2	21.95	22.10	22.16
		8		7	2	21.92	22.07	22.13	
		15	0	2	21.93	22.07	22.06		
		64QAM	1	0	2	21.94	22.14	22.16	
			1	8	2	22.07	22.27	22.20	
			1	14	2	22.13	22.15	22.21	
			8	0	3	20.91	21.07	21.09	
			8	4	3	20.94	21.15	21.13	
			8	7	3	20.96	21.05	21.09	
		15	0	3	20.94	21.06	21.09		
		256QAM	1	0	5	19.50	19.44	19.53	
			1	8	5	19.58	19.51	19.60	
			1	14	5	19.57	19.46	19.55	
	8		0	5	19.36	19.33	19.44		
	8		4	5	19.48	19.39	19.46		
8	7		5	19.50	19.40	19.52			
15	0	5	19.46	19.40	19.47				

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 12	5	QPSK	1	0	0	23.67	23.84	23.87
			1	12	0	23.72	23.99	24.01
			1	24	0	23.75	23.89	23.90
			12	0	1	22.85	23.02	22.97
			12	7	1	22.96	23.04	23.10
			12	13	1	22.93	23.03	23.06
		25	0	1	22.87	23.00	22.96	
		16QAM	1	0	1	23.08	23.13	23.28
			1	12	1	23.13	23.21	23.35
			1	24	1	23.02	23.29	23.29
			12	0	2	21.88	21.97	22.04
			12	7	2	21.94	22.12	22.13
			12	13	2	21.92	22.01	22.10
		25	0	2	21.87	22.03	21.99	
		64QAM	1	0	2	21.89	22.18	22.16
			1	12	2	22.00	22.18	22.12
			1	24	2	22.06	22.19	22.21
			12	0	3	20.92	21.03	21.07
			12	7	3	20.95	21.17	21.17
			12	13	3	20.96	21.10	21.09
		25	0	3	20.93	21.05	21.04	
		256QAM	1	0	5	19.44	19.34	19.41
			1	12	5	19.59	19.47	19.59
			1	24	5	19.42	19.37	19.48
			12	0	5	19.43	19.32	19.41
	12		7	5	19.50	19.42	19.53	
	12		13	5	19.35	19.32	19.36	
	25	0	5	19.35	19.32	19.35		
	10	QPSK	1	0	0	23.59	23.85	23.95
			1	25	0	23.67	23.89	23.94
			1	49	0	23.80	23.98	23.87
			25	0	1	22.78	22.92	22.93
			25	12	1	22.96	22.95	22.94
			25	25	1	22.94	23.02	23.01
			50	0	1	22.87	22.88	22.80
			1	0	1	23.14	23.26	23.32
			1	25	1	23.14	23.31	23.33
			1	49	1	23.18	23.26	23.25
		16QAM	25	0	2	21.82	21.99	21.93
			25	12	2	22.01	21.99	21.98
			25	25	2	21.94	22.03	22.06
			50	0	2	21.92	21.95	21.92
			1	0	2	22.20	22.13	22.18
			1	25	2	22.11	22.12	22.39
		64QAM	1	49	2	22.16	22.26	22.11
			25	0	3	20.89	20.92	20.99
			25	12	3	21.04	21.10	21.06
			25	25	3	21.00	20.97	21.05
			50	0	3	20.96	20.96	21.02
			1	0	5	19.14	19.05	19.10
256QAM		1	25	5	19.47	19.42	19.46	
		1	49	5	19.17	19.07	19.10	
		25	0	5	19.18	19.15	19.25	
	25	12	5	19.30	19.24	19.33		
	25	25	5	19.37	19.33	19.40		
	50	0	5	19.35	19.24	19.34		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 13	5	QPSK	1	0	0	23.46	23.56	23.57
			1	12	0	23.52	23.74	23.59
			1	24	0	23.62	23.62	23.59
			12	0	1	22.44	22.66	22.67
			12	7	1	22.72	22.71	22.71
			12	13	1	22.74	22.72	22.78
		25	0	1	22.62	22.66	22.71	
		16QAM	1	0	1	22.77	22.81	22.96
			1	12	1	22.84	22.89	22.91
			1	24	1	22.86	22.98	22.91
			12	0	2	21.64	21.74	21.72
			12	7	2	21.68	21.70	21.78
			12	13	2	21.72	21.82	21.69
		25	0	2	21.72	21.70	21.78	
		64QAM	1	0	2	21.57	21.79	21.68
			1	12	2	21.86	21.74	21.89
			1	24	2	21.81	21.77	21.93
			12	0	3	20.59	20.74	20.74
			12	7	3	20.77	20.76	20.79
			12	13	3	20.81	20.89	20.77
		25	0	3	20.65	20.74	20.80	
		256QAM	1	0	5	18.64	18.83	18.75
			1	12	5	18.83	19.03	18.97
			1	24	5	18.81	18.99	18.92
			12	0	5	18.74	18.89	18.81
	12		7	5	18.94	19.04	18.94	
	12		13	5	18.82	18.97	18.92	
	25	0	5	18.71	18.87	18.82		
	10	QPSK	1	0	0	-	23.47	-
			1	25	0	-	23.61	-
			1	49	0	-	23.41	-
			25	0	1	-	22.67	-
			25	12	1	-	22.66	-
			25	25	1	-	22.64	-
		50	0	1	-	22.50	-	
		16QAM	1	0	1	-	22.75	-
			1	25	1	-	22.82	-
			1	49	1	-	22.84	-
			25	0	2	-	21.68	-
			25	12	2	-	21.70	-
			25	25	2	-	21.72	-
		50	0	2	-	21.61	-	
		64QAM	1	0	2	-	21.77	-
			1	25	2	-	21.81	-
			1	49	2	-	21.75	-
			25	0	3	-	20.74	-
			25	12	3	-	20.79	-
			25	25	3	-	20.73	-
		50	0	3	-	20.75	-	
		256QAM	1	0	5	-	18.76	-
1			25	5	-	18.79	-	
1			49	5	-	18.85	-	
25			0	5	-	18.78	-	
25	12		5	-	18.95	-		
25	25		5	-	18.83	-		
50	0	5	-	18.78	-			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 25	1.4	QPSK	1	0	0	22.49	23.13	22.20
			1	3	0	22.63	23.20	22.16
			1	5	0	22.60	23.15	22.04
			3	0	0	22.51	23.20	22.04
			3	1	0	22.54	23.24	22.08
			3	3	0	22.54	23.21	22.07
		16QAM	6	0	1	21.57	22.30	21.08
			1	0	1	21.55	22.29	21.13
			1	3	1	21.69	22.33	21.11
			1	5	1	21.67	22.33	21.01
			3	0	1	21.54	22.31	21.33
			3	1	1	21.64	22.37	21.39
		64QAM	3	3	1	21.62	22.34	21.31
			6	0	2	20.73	21.24	20.25
			1	0	2	20.81	21.17	20.88
			1	3	2	20.76	21.26	20.84
			1	5	2	20.56	21.01	20.65
			3	0	2	20.70	21.02	20.72
		256QAM	3	1	2	20.78	21.15	20.76
			3	3	2	20.67	20.99	20.72
			6	0	3	19.37	19.84	19.51
			1	0	5	18.38	18.44	18.35
			1	3	5	18.43	18.61	18.57
			1	5	5	18.43	18.45	18.43
	3	QPSK	3	0	5	18.41	18.69	18.51
			3	1	5	18.42	18.66	18.54
			3	3	5	18.43	18.53	18.44
			6	0	5	18.27	18.45	18.40
			1	0	0	22.57	23.23	22.32
			1	8	0	22.82	23.38	22.21
	3	QPSK	1	14	0	22.86	23.34	22.09
			8	0	1	21.73	22.40	21.33
			8	4	1	21.84	22.43	21.29
			8	7	1	21.86	22.38	21.19
			15	0	1	21.71	22.37	21.29
			1	0	1	22.02	22.47	21.44
		16QAM	1	8	1	22.27	22.55	21.32
			1	14	1	22.27	22.52	21.12
			8	0	2	20.97	21.32	20.51
			8	4	2	21.06	21.43	20.44
			8	7	2	21.05	21.38	20.35
			15	0	2	20.79	21.40	20.37
		64QAM	1	0	2	20.68	21.07	20.76
			1	8	2	20.68	21.21	20.77
			1	14	2	20.75	21.11	20.88
	8		0	3	19.80	20.08	19.82	
	8		4	3	19.65	20.10	19.73	
	8		7	3	19.61	20.07	19.73	
	256QAM	15	0	3	19.54	19.97	19.60	
		1	0	5	18.40	18.60	18.60	
		1	8	5	18.40	18.56	18.60	
		1	14	5	18.34	18.53	18.37	
		8	0	5	18.45	18.56	18.52	
		8	4	5	18.37	18.56	18.62	
3	256QAM	8	7	5	18.29	18.63	18.37	
		8	0	5	18.36	18.63	18.53	
		15	0	5	18.36	18.63	18.53	

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 25	5	QPSK	1	0	0	22.65	23.19	22.68
			1	12	0	22.88	23.26	22.39
			1	24	0	23.01	23.27	22.12
			12	0	1	21.77	22.38	21.52
			12	7	1	21.91	22.43	21.43
			12	13	1	21.93	22.42	21.27
		25	0	1	21.73	22.38	21.26	
		16QAM	1	0	1	21.39	22.66	21.61
			1	12	1	21.66	22.65	21.32
			1	24	1	21.80	22.70	21.07
			12	0	2	20.83	21.41	20.62
			12	7	2	20.98	21.43	20.53
			12	13	2	21.00	21.43	20.35
		64QAM	25	0	2	20.87	21.39	20.48
			1	0	2	20.88	21.29	20.95
			1	12	2	20.62	21.29	20.69
			1	24	2	20.75	21.21	20.88
			12	0	3	19.66	20.03	19.79
			12	7	3	19.53	19.98	19.68
		256QAM	12	13	3	19.77	20.01	19.70
			25	0	3	19.59	20.04	19.66
			1	0	5	18.46	18.65	18.58
			1	12	5	18.53	18.64	18.64
			1	24	5	18.25	18.53	18.37
			12	0	5	18.42	18.62	18.56
	10	QPSK	12	7	5	18.34	18.62	18.54
			12	13	5	18.22	18.37	18.31
			25	0	5	18.30	18.58	18.46
			1	0	0	22.33	23.10	23.09
			1	25	0	22.87	23.31	22.67
			1	49	0	22.86	23.02	22.15
		16QAM	25	0	1	21.84	22.33	21.99
			25	12	1	21.93	22.43	21.74
			25	25	1	21.96	22.37	21.40
			50	0	1	21.78	22.33	21.63
			1	0	1	21.71	22.31	22.08
			1	25	1	22.29	22.47	21.68
		64QAM	1	49	1	22.27	22.20	21.17
			25	0	2	20.94	21.34	21.14
			25	12	2	21.10	21.45	20.91
			25	25	2	21.11	21.41	20.54
			50	0	2	20.93	21.33	20.79
			1	0	2	20.84	20.98	21.13
		256QAM	1	25	2	20.68	21.23	20.90
			1	49	2	20.53	20.77	20.47
			25	0	3	19.56	20.01	19.78
			25	12	3	19.73	20.15	20.02
			25	25	3	19.59	19.88	19.75
			50	0	3	19.56	19.94	19.83
		QPSK	1	0	5	18.22	18.41	18.26
1	25		5	18.31	18.55	18.47		
1	49		5	18.20	18.49	18.31		
25	0		5	18.35	18.64	18.41		
25	12		5	18.26	18.57	18.39		
25	25		5	18.40	18.63	18.43		
16QAM	50	0	5	18.30	18.63	18.46		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 25	15	QPSK	1	0	0	22.46	23.36	23.15
			1	36	0	22.87	23.35	23.05
			1	74	0	23.03	23.33	22.23
			36	0	1	21.81	22.32	22.09
			36	18	1	21.94	22.36	22.12
			36	37	1	21.93	22.32	21.65
		75	0	1	21.77	22.29	21.87	
		16QAM	1	0	1	21.74	22.53	22.56
			1	36	1	22.22	22.52	22.31
			1	74	1	22.41	22.44	21.52
			36	0	2	21.01	21.29	21.16
			36	18	2	21.06	21.40	21.16
			36	37	2	21.05	21.36	20.73
		75	0	2	20.95	21.33	21.04	
		64QAM	1	0	2	20.82	20.93	20.94
			1	36	2	20.75	21.02	20.98
			1	74	2	20.76	20.87	20.67
			36	0	3	19.94	20.05	20.01
			36	18	3	19.76	19.97	19.87
			36	37	3	19.80	19.98	19.90
		75	0	3	19.39	19.70	19.68	
		256QAM	1	0	5	18.30	18.42	18.31
			1	36	5	18.28	18.63	18.56
			1	74	5	18.37	18.54	18.58
	36		0	5	18.24	18.31	18.26	
	36		18	5	18.37	18.55	18.38	
	36		37	5	18.20	18.38	18.45	
	75	0	5	18.30	18.40	18.46		
	20	QPSK	1	0	0	22.61	23.36	23.17
			1	49	0	22.90	23.35	23.12
			1	99	0	23.21	23.27	22.31
			50	0	1	21.85	22.32	22.20
			50	24	1	21.99	22.38	22.22
			50	50	1	21.99	22.30	21.79
			100	0	1	21.93	22.22	22.09
			1	0	1	21.91	22.48	22.89
			1	49	1	22.24	22.54	22.79
			1	99	1	22.57	22.51	21.77
		16QAM	50	0	2	20.95	21.27	21.23
			50	24	2	21.03	21.42	21.19
			50	50	2	21.05	21.28	20.90
			100	0	2	21.00	21.22	21.18
			1	0	2	20.92	21.01	21.05
			1	49	2	20.77	20.96	20.79
		64QAM	1	99	2	20.88	21.00	20.78
			50	0	3	19.65	19.90	19.70
			50	24	3	19.57	19.86	19.83
			50	50	3	19.55	19.85	19.73
100			0	3	19.42	19.75	19.65	
1			0	5	18.25	18.34	18.20	
256QAM		1	49	5	18.40	18.46	18.47	
		1	99	5	18.42	18.52	18.49	
	50	0	5	18.05	18.25	18.24		
	50	24	5	18.32	18.51	18.45		
	50	50	5	18.33	18.55	18.41		
	100	0	5	18.39	18.41	18.45		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power			
						Frequency (MHz)			
						Low	Middle	High	
LTE Band 26	1.4	QPSK	1	0	0	23.37	23.44	23.67	
			1	3	0	23.58	23.61	23.71	
			1	5	0	23.47	23.55	23.67	
			3	0	0	23.46	23.51	23.66	
			3	1	0	23.46	23.56	23.68	
			3	3	0	23.44	23.49	23.60	
		6	0	1	22.58	22.60	22.71		
		16QAM	1	0	1	22.65	22.73	22.95	
			1	3	1	22.88	22.92	23.19	
			1	5	1	22.90	22.92	22.92	
			3	0	1	22.58	22.66	22.77	
			3	1	1	22.74	22.81	22.76	
			3	3	1	22.50	22.52	22.77	
		6	0	2	21.55	21.63	21.84		
		64QAM	1	0	2	21.58	21.67	21.35	
			1	3	2	21.54	21.62	21.41	
			1	5	2	21.48	21.57	21.31	
			3	0	2	21.42	21.47	21.22	
			3	1	2	21.44	21.54	21.31	
			3	3	2	21.35	21.39	21.38	
		6	0	3	20.46	20.53	20.14		
		256QAM	1	0	5	19.03	19.00	18.71	
			1	3	5	19.11	19.05	19.00	
			1	5	5	19.04	19.00	18.90	
	3		0	5	19.09	19.02	18.89		
	3		1	5	19.06	19.08	18.94		
	3		3	5	19.04	19.03	18.99		
	6	0	5	18.92	18.92	18.83			
	3	QPSK	1	0	0	23.49	23.59	23.77	
			1	8	0	23.64	23.68	23.77	
			1	14	0	23.53	23.57	23.72	
			8	0	1	22.62	22.72	22.87	
			8	4	1	22.81	22.84	22.84	
			8	7	1	22.59	22.63	22.79	
			15	0	1	22.68	22.72	22.89	
			16QAM	1	0	1	22.74	22.79	23.05
				1	8	1	22.84	22.93	23.09
				1	14	1	22.97	23.05	23.07
				8	0	2	21.67	21.73	21.93
				8	4	2	21.88	21.92	21.89
		8		7	2	21.78	21.84	21.90	
		15	0	2	21.76	21.81	21.85		
		64QAM	1	0	2	21.25	21.34	21.47	
			1	8	2	21.32	21.40	21.35	
			1	14	2	21.27	21.37	21.25	
			8	0	3	20.37	20.39	20.36	
			8	4	3	20.31	20.36	20.32	
			8	7	3	20.14	20.19	20.46	
		15	0	3	20.29	20.36	20.31		
		256QAM	1	0	5	19.02	19.03	18.76	
			1	8	5	19.31	19.30	19.03	
			1	14	5	19.14	19.15	19.02	
	8		0	5	19.06	19.12	18.78		
	8		4	5	19.18	19.13	19.01		
8	7		5	19.07	19.05	19.00			
15	0	5	19.05	19.10	18.89				

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 26	5	QPSK	1	0	0	23.49	23.58	23.77
			1	12	0	23.66	23.76	23.81
			1	24	0	23.44	23.54	23.73
			12	0	1	22.62	22.64	22.78
			12	7	1	22.62	22.64	22.87
			12	13	1	22.52	22.58	22.87
		25	0	1	22.56	22.61	22.77	
		16QAM	1	0	1	22.73	22.81	23.10
			1	12	1	22.89	22.96	23.13
			1	24	1	22.63	22.73	22.94
			12	0	2	21.62	21.65	21.87
			12	7	2	21.81	21.84	21.90
			12	13	2	21.62	21.71	21.86
		64QAM	25	0	2	21.75	21.84	21.76
			1	0	2	21.49	21.54	21.75
			1	12	2	21.29	21.34	21.47
			1	24	2	21.28	21.38	21.17
			12	0	3	20.29	20.32	20.43
			12	7	3	20.34	20.41	20.26
		256QAM	12	13	3	20.24	20.33	20.23
			25	0	3	20.20	20.27	20.31
			1	0	5	18.94	18.96	18.79
			1	12	5	19.12	19.05	18.93
			1	24	5	19.21	19.23	18.96
			12	0	5	18.93	18.94	18.67
	10	QPSK	12	7	5	19.00	19.03	18.86
			12	13	5	19.07	19.04	18.79
			25	0	5	18.94	18.94	18.78
			1	0	0	23.59	23.58	23.67
			1	25	0	23.59	23.69	23.75
			1	49	0	23.76	23.69	23.71
		16QAM	25	0	1	22.54	22.63	22.75
			25	12	1	22.56	22.67	22.85
			25	25	1	22.54	22.59	22.82
			50	0	1	22.67	22.75	22.71
			1	0	1	22.83	22.79	23.08
			1	25	1	22.90	22.96	23.17
		64QAM	1	49	1	23.11	23.13	23.10
			25	0	2	21.50	21.53	21.73
			25	12	2	21.66	21.70	21.84
			25	25	2	21.68	21.68	21.85
			50	0	2	21.65	21.65	21.80
			1	0	2	21.68	21.70	21.54
		256QAM	1	25	2	21.56	21.58	21.71
			1	49	2	21.22	21.34	21.25
			25	0	3	20.53	20.63	20.61
			25	12	3	20.48	20.50	20.66
			25	25	3	20.30	20.48	20.43
			50	0	3	20.14	20.22	20.43
		QPSK	1	0	5	18.77	18.73	18.46
1	25		5	19.24	19.12	18.80		
1	49		5	19.09	19.01	18.73		
25	0		5	19.05	18.93	18.71		
25	12		5	19.10	19.01	18.69		
25	25		5	19.17	19.02	18.76		
16QAM	50	0	5	18.94	18.93	18.69		
	1	0	0	23.59	23.58	23.67		
	1	25	0	23.59	23.69	23.75		
	1	49	0	23.76	23.69	23.71		
	25	0	1	22.54	22.63	22.75		
	25	12	1	22.56	22.67	22.85		
64QAM	25	25	1	22.54	22.59	22.82		
	50	0	1	22.67	22.75	22.71		
	1	0	1	22.83	22.79	23.08		
	1	25	1	22.90	22.96	23.17		
	1	49	1	23.11	23.13	23.10		
	25	0	2	21.50	21.53	21.73		
256QAM	25	12	2	21.66	21.70	21.84		
	25	25	2	21.68	21.68	21.85		
	50	0	2	21.65	21.65	21.80		
	1	0	2	21.68	21.70	21.54		
	1	25	2	21.56	21.58	21.71		
	1	49	2	21.22	21.34	21.25		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 26	15	QPSK	1	0	0	23.37	23.44	23.55
			1	36	0	23.48	23.52	23.68
			1	74	0	23.42	23.44	23.62
			36	0	1	22.45	22.52	22.63
			36	18	1	22.55	22.64	22.68
			36	37	1	22.59	22.69	22.69
			75	0	1	22.51	22.53	22.59
		16QAM	1	0	1	22.79	22.81	23.11
			1	36	1	22.82	22.92	22.94
			1	74	1	22.74	22.84	22.94
			36	0	2	21.39	21.43	21.62
			36	18	2	21.62	21.64	21.72
			36	37	2	21.58	21.60	21.73
			75	0	2	21.52	21.58	21.68
		64QAM	1	0	2	21.64	21.72	21.34
			1	36	2	21.35	21.43	21.42
			1	74	2	21.06	21.13	21.04
			36	0	3	20.56	20.64	20.08
			36	18	3	20.46	20.50	20.55
			36	37	3	20.48	20.54	20.54
			75	0	3	20.21	20.28	20.11
		256QAM	1	0	5	18.70	18.82	18.47
			1	36	5	19.01	19.14	18.91
			1	74	5	18.82	18.98	18.61
			36	0	5	18.79	18.95	18.60
			36	18	5	18.95	19.09	18.74
			36	37	5	18.94	19.09	18.75
			75	0	5	18.91	19.05	18.70

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 41	5	QPSK	1	0	0	23.98	23.75	23.50
			1	12	0	23.95	23.75	23.52
			1	24	0	23.98	23.76	23.54
			12	0	1	23.28	22.98	22.78
			12	7	1	23.18	22.94	22.66
			12	13	1	23.20	22.92	22.66
		25	0	1	23.12	22.91	22.70	
		16QAM	1	0	1	23.31	23.09	22.86
			1	12	1	23.34	23.12	22.93
			1	24	1	23.34	23.05	22.85
			12	0	2	22.33	22.05	21.85
			12	7	2	22.37	22.04	21.84
			12	13	2	22.35	21.99	21.74
		25	0	2	22.25	22.01	21.80	
		64QAM	1	0	2	22.29	21.89	21.66
			1	12	2	22.28	21.92	21.68
			1	24	2	22.18	21.91	21.68
			12	0	3	21.41	21.07	20.90
			12	7	3	21.46	21.09	20.87
			12	13	3	21.26	21.04	20.80
		25	0	3	21.24	21.01	20.83	
		256QAM	1	0	5	19.26	19.01	18.92
			1	12	5	19.58	19.41	19.36
			1	24	5	19.43	19.21	19.18
			12	0	5	19.26	19.15	19.05
	12		7	5	19.31	19.11	19.06	
	12		13	5	19.52	19.23	19.15	
	25	0	5	19.44	19.21	19.13		
	10	QPSK	1	0	0	23.95	23.63	23.34
			1	25	0	23.98	23.77	23.55
			1	49	0	23.78	23.44	23.18
			25	0	1	23.13	22.84	22.65
			25	12	1	23.24	22.99	22.77
			25	25	1	23.09	22.86	22.60
		50	0	1	23.25	22.91	22.67	
		16QAM	1	0	1	23.27	22.97	22.74
			1	25	1	23.37	23.12	22.89
			1	49	1	23.06	22.85	22.63
			25	0	2	22.19	21.88	21.64
			25	12	2	22.32	22.05	21.85
			25	25	2	22.21	21.86	21.65
		50	0	2	22.35	21.98	21.76	
		64QAM	1	0	2	21.93	21.66	21.41
			1	25	2	22.24	21.95	21.73
			1	49	2	21.99	21.65	21.41
			25	0	3	21.29	20.98	20.80
			25	12	3	21.40	21.09	20.90
			25	25	3	21.30	21.00	20.76
		50	0	3	21.24	20.97	20.76	
		256QAM	1	0	5	19.33	19.11	19.02
1			25	5	19.55	19.25	19.15	
1			49	5	19.38	19.09	19.02	
25			0	5	19.40	19.27	19.24	
25	12		5	19.48	19.36	19.32		
25	25		5	19.61	19.33	19.30		
50	0	5	19.38	19.25	19.22			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 41	15	QPSK	1	0	0	23.91	23.63	23.44
			1	36	0	23.93	23.73	23.56
			1	74	0	23.85	23.55	23.30
			36	0	1	23.13	22.81	22.58
			36	18	1	23.22	22.87	22.70
			36	37	1	23.12	22.82	22.53
		75	0	1	23.10	22.84	22.63	
		16QAM	1	0	1	23.12	22.93	22.67
			1	36	1	23.31	23.11	22.88
			1	74	1	23.20	22.92	22.64
			36	0	2	22.01	21.76	21.57
			36	18	2	22.30	21.91	21.75
			36	37	2	22.03	21.84	21.62
		75	0	2	22.18	21.87	21.65	
		64QAM	1	0	2	21.99	21.66	21.42
			1	36	2	22.11	21.84	21.58
			1	74	2	21.92	21.69	21.41
			36	0	3	21.08	20.83	20.56
			36	18	3	21.21	20.92	20.74
			36	37	3	21.18	20.88	20.68
		75	0	3	21.24	20.89	20.73	
		256QAM	1	0	5	19.35	19.14	19.04
			1	36	5	19.55	19.34	19.26
			1	74	5	19.18	19.04	19.01
	36		0	5	19.59	19.31	19.25	
	36		18	5	19.75	19.47	19.37	
	36		37	5	19.68	19.46	19.42	
	75	0	5	19.51	19.39	19.30		
	20	QPSK	1	0	0	23.95	23.56	23.20
			1	49	0	23.88	23.78	23.53
			1	99	0	23.92	23.33	23.39
			50	0	1	23.02	22.77	22.50
			50	24	1	23.00	22.89	22.70
			50	50	1	22.98	22.75	22.63
			100	0	1	22.91	22.79	22.66
			1	0	1	23.22	22.92	22.50
			1	49	1	23.21	23.08	22.85
			1	99	1	23.22	22.74	22.64
		16QAM	50	0	2	22.06	21.85	21.60
			50	24	2	22.08	21.98	21.73
			50	50	2	22.04	21.83	21.74
			100	0	2	21.99	21.89	21.66
			1	0	2	21.99	21.46	21.24
			1	49	2	21.95	21.88	21.62
		64QAM	1	99	2	21.99	21.50	21.41
			50	0	3	21.06	20.84	20.59
			50	24	3	21.09	20.97	20.77
			50	50	3	21.04	20.83	20.71
100			0	3	20.97	20.87	20.68	
1			0	5	19.09	18.85	18.66	
256QAM		1	49	5	19.51	19.24	19.06	
		1	99	5	19.19	18.95	18.81	
	50	0	5	19.65	19.35	19.17		
	50	24	5	19.77	19.51	19.36		
	50	50	5	19.55	19.34	19.21		
	100	0	5	19.58	19.42	19.26		

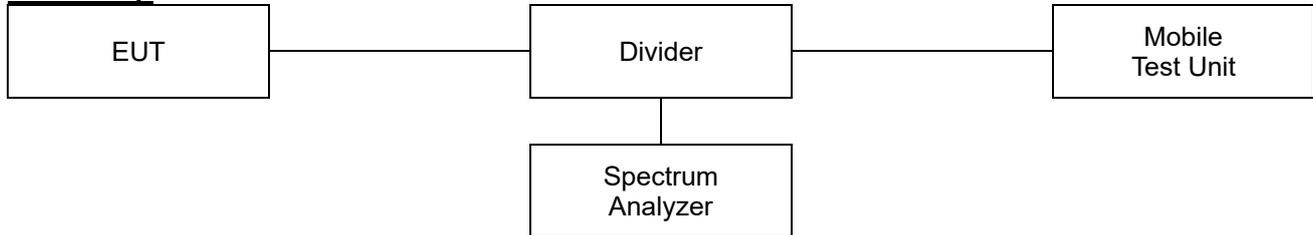
Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 66	1.4	QPSK	1	0	0	23.00	23.00	23.01
			1	3	0	23.06	23.09	23.04
			1	5	0	22.96	22.93	22.97
			3	0	0	22.92	23.02	23.00
			3	1	0	22.95	23.06	23.08
			3	3	0	22.94	23.02	23.01
		16QAM	6	0	1	22.07	22.08	22.09
			1	0	1	21.99	22.19	22.11
			1	3	1	22.05	22.25	22.17
			1	5	1	22.03	22.15	22.11
			3	0	1	22.20	22.09	22.18
			3	1	1	22.27	22.08	22.16
		64QAM	3	3	1	22.18	22.05	22.15
			6	0	2	21.10	21.12	21.09
			1	0	2	20.80	21.33	20.79
			1	3	2	20.80	21.27	20.62
			1	5	2	20.71	21.01	20.49
			3	0	2	20.66	21.12	20.54
		256QAM	3	1	2	20.71	21.25	20.52
			3	3	2	20.87	21.38	20.63
			6	0	3	19.47	19.94	19.33
			1	0	5	17.99	18.24	18.09
			1	3	5	18.09	18.41	18.21
			1	5	5	18.03	18.24	18.09
	3	QPSK	3	0	5	18.18	18.39	18.21
			3	1	5	18.21	18.43	18.28
			3	3	5	18.04	18.36	18.18
			6	0	5	17.82	18.12	17.96
			1	0	0	22.98	23.05	23.07
			1	8	0	23.03	23.18	23.08
		16QAM	1	14	0	22.98	23.03	23.04
			8	0	1	22.11	22.08	22.19
			8	4	1	22.14	22.14	22.10
			8	7	1	22.08	22.11	22.11
			15	0	1	22.14	22.18	22.14
			1	0	1	22.62	22.27	22.23
		64QAM	1	8	1	22.69	22.30	22.22
			1	14	1	22.55	22.22	22.12
			8	0	2	21.32	21.11	21.26
			8	4	2	21.34	21.19	21.21
			8	7	2	21.25	21.08	21.19
			15	0	2	21.15	21.19	21.17
		256QAM	1	0	2	20.59	21.06	20.65
			1	8	2	20.83	21.34	20.81
			1	14	2	20.95	21.18	20.63
			8	0	3	19.59	20.05	19.70
			8	4	3	19.78	20.22	19.78
			8	7	3	19.92	20.36	19.81
	QPSK	15	0	3	19.75	20.22	19.64	
		1	0	5	18.12	18.37	18.18	
		1	8	5	18.27	18.55	18.42	
		1	14	5	18.10	18.31	18.20	
		8	0	5	17.95	18.29	18.19	
		8	4	5	18.02	18.30	18.19	
16QAM	8	7	5	18.01	18.27	18.16		
	15	0	5	17.92	18.23	18.13		

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 66	5	QPSK	1	0	0	23.05	23.01	23.10
			1	12	0	23.10	23.06	23.15
			1	24	0	23.07	22.98	23.12
			12	0	1	22.15	22.16	22.15
			12	7	1	22.14	22.21	22.18
			12	13	1	22.02	22.13	22.09
		25	0	1	22.08	22.19	22.12	
		16QAM	1	0	1	21.95	22.34	22.19
			1	12	1	22.09	22.51	22.35
			1	24	1	21.94	22.34	22.15
			12	0	2	21.13	21.13	21.11
			12	7	2	21.16	21.18	21.14
			12	13	2	21.08	21.13	21.07
		25	0	2	21.15	21.13	21.18	
		64QAM	1	0	2	20.67	21.19	21.31
			1	12	2	20.82	21.22	20.89
			1	24	2	20.84	21.16	20.57
			12	0	3	19.72	20.13	19.94
			12	7	3	19.91	20.31	19.99
			12	13	3	19.80	20.10	19.72
		25	0	3	19.77	20.17	19.73	
		256QAM	1	0	5	18.14	18.43	18.23
			1	12	5	18.08	18.39	18.25
			1	24	5	18.12	18.34	18.24
			12	0	5	18.07	18.29	18.11
	12		7	5	18.05	18.33	18.21	
	12		13	5	18.01	18.28	18.15	
	25	0	5	18.00	18.29	18.14		
	10	QPSK	1	0	0	22.75	22.87	22.81
			1	25	0	23.00	23.16	23.04
			1	49	0	22.79	22.83	22.82
			25	0	1	22.04	22.07	22.07
			25	12	1	22.14	22.08	22.19
			25	25	1	22.04	22.05	22.06
		50	0	1	22.05	22.09	22.14	
		16QAM	1	0	1	22.30	21.99	21.86
			1	25	1	22.56	22.28	22.16
			1	49	1	22.33	21.99	21.92
			25	0	2	21.01	21.07	21.15
			25	12	2	21.15	21.15	21.27
			25	25	2	21.07	21.14	21.14
		50	0	2	21.06	21.13	21.15	
		64QAM	1	0	2	20.63	20.76	20.72
			1	25	2	21.00	21.35	21.40
			1	49	2	20.60	21.02	20.51
			25	0	3	19.78	20.13	19.86
			25	12	3	19.84	20.19	19.87
			25	25	3	19.74	20.02	19.71
		50	0	3	19.90	20.19	19.89	
		256QAM	1	0	5	17.86	18.17	18.03
1			25	5	18.19	18.41	18.23	
1			49	5	17.89	18.23	18.03	
25			0	5	17.97	18.22	18.07	
25	12		5	17.96	18.23	18.08		
25	25		5	17.86	18.19	18.06		
50	0	5	17.86	18.09	17.94			

Test Band	Bandwidth (MHz)	Test mode	RB size	RB offset	MPR	Maximum power		
						Frequency (MHz)		
						Low	Middle	High
LTE Band 66	15	QPSK	1	0	0	22.90	22.97	23.11
			1	36	0	22.99	23.03	23.08
			1	74	0	22.83	22.89	22.97
			36	0	1	21.98	22.07	22.11
			36	18	1	22.09	22.07	22.09
			36	37	1	22.06	22.08	22.12
		75	0	1	22.03	22.09	22.05	
		16QAM	1	0	1	22.58	22.09	22.50
			1	36	1	22.60	22.24	22.56
			1	74	1	22.47	22.08	22.46
			36	0	2	21.05	21.06	21.15
			36	18	2	21.14	21.09	21.10
			36	37	2	21.05	21.08	21.12
		75	0	2	21.06	21.10	21.10	
		64QAM	1	0	2	20.75	20.73	20.66
			1	36	2	20.70	21.14	21.05
			1	74	2	20.56	21.03	20.76
			36	0	3	19.81	19.96	19.45
			36	18	3	19.76	20.07	19.77
			36	37	3	19.61	20.12	19.77
		75	0	3	19.73	20.05	19.60	
		256QAM	1	0	5	17.88	18.17	18.01
			1	36	5	18.09	18.32	18.17
			1	74	5	17.83	18.12	17.94
	36		0	5	17.89	18.14	17.97	
	36		18	5	18.02	18.24	18.07	
	36		37	5	17.90	18.23	18.08	
	75	0	5	17.93	18.20	18.09		
	20	QPSK	1	0	0	22.70	22.81	23.07
			1	49	0	23.01	23.01	23.09
			1	99	0	22.73	22.76	22.96
			50	0	1	22.00	22.05	22.05
			50	24	1	22.12	22.09	22.20
			50	50	1	21.99	22.02	22.09
			100	0	1	22.02	22.09	22.12
			1	0	1	22.13	22.06	22.68
			1	49	1	22.33	22.34	22.73
			1	99	1	22.15	22.05	22.62
		16QAM	50	0	2	20.94	21.07	21.05
			50	24	2	21.07	21.11	21.13
			50	50	2	20.97	21.04	21.06
			100	0	2	21.00	21.06	21.13
			1	0	2	20.68	21.27	20.98
			1	49	2	20.87	21.33	21.04
		64QAM	1	99	2	20.39	20.67	20.90
			50	0	3	19.93	20.00	19.88
			50	24	3	19.88	20.28	19.68
			50	50	3	19.48	20.07	19.83
100			0	3	19.44	19.81	19.26	
1			0	5	17.75	18.02	17.85	
256QAM		1	49	5	18.03	18.28	18.08	
		1	99	5	17.76	18.02	17.89	
	50	0	5	18.00	18.20	18.09		
	50	24	5	17.89	18.22	18.07		
	50	50	5	17.82	18.11	17.96		
	100	0	5	17.88	18.21	18.05		

7.2. 99% Occupied Bandwidth & 26 dB Bandwidth

Test setup



Limit

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 $\geq 3 \times$ 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.”
- k) 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 $1.5 \times \text{OBW}$ 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 $\geq 3 \times \text{RBW}$.
- 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 (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 12	1.4	699.7	QPSK	1.23	1.09
			16QAM	1.24	1.09
		707.5	QPSK	1.23	1.10
			16QAM	1.25	1.09
		715.3	QPSK	1.24	1.09
			16QAM	1.23	1.09
	3	700.5	QPSK	2.98	2.70
			16QAM	3.00	2.70
		707.5	QPSK	2.99	2.70
			16QAM	2.99	2.70
		714.5	QPSK	3.00	2.70
			16QAM	3.00	2.69
	5	701.5	QPSK	4.98	4.52
			16QAM	4.95	4.48
		707.5	QPSK	4.98	4.50
			16QAM	4.98	4.52
		713.5	QPSK	4.97	4.50
			16QAM	5.00	4.52
	10	704.0	QPSK	9.89	9.02
			16QAM	9.77	8.99
		707.5	QPSK	9.79	8.94
			16QAM	9.69	8.97
		711.0	QPSK	9.82	8.97
			16QAM	9.74	8.97
LTE Band 13	5	779.5	QPSK	5.00	4.50
			16QAM	5.00	4.52
		782.0	QPSK	5.00	4.48
			16QAM	4.97	4.51
		784.5	QPSK	4.98	4.52
			16QAM	4.95	4.50
	10	782.0	QPSK	9.84	8.94
			16QAM	9.77	8.97

Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 25/2	1.4	1 850.7	QPSK	1.24	1.09
			16QAM	1.23	1.09
		1 882.5	QPSK	1.23	1.10
			16QAM	1.24	1.09
		1 914.3	QPSK	1.24	1.09
			16QAM	1.24	1.09
	3	1 851.5	QPSK	2.98	2.70
			16QAM	3.02	2.70
		1 882.5	QPSK	2.98	2.70
			16QAM	3.00	2.69
		1 913.5	QPSK	2.99	2.70
			16QAM	3.00	2.69
	5	1 852.5	QPSK	4.98	4.51
			16QAM	4.96	4.50
		1 882.5	QPSK	4.98	4.50
			16QAM	4.98	4.51
		1 912.5	QPSK	4.96	4.50
			16QAM	4.98	4.52
	10	1 855.0	QPSK	9.84	8.99
			16QAM	9.72	8.97
		1 882.5	QPSK	9.79	8.97
			16QAM	9.72	8.97
		1 910.0	QPSK	9.82	8.99
			16QAM	9.82	8.99
	15	1 857.5	QPSK	14.50	13.49
			16QAM	14.69	13.45
		1 882.5	QPSK	14.57	13.41
			16QAM	14.57	13.45
		1 907.5	QPSK	14.65	13.45
			16QAM	14.54	13.41
20	1 860.0	QPSK	19.68	17.98	
		16QAM	19.53	18.03	
	1 882.5	QPSK	19.53	17.93	
		16QAM	19.48	17.93	
	1 905.0	QPSK	19.48	17.98	
		16QAM	19.53	18.03	

Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 26/5	1.4	824.7	QPSK	1.24	1.09
			16QAM	1.25	1.09
		836.5	QPSK	1.24	1.09
			16QAM	1.23	1.09
		848.3	QPSK	1.23	1.10
			16QAM	1.24	1.09
	3	825.5	QPSK	2.98	2.70
			16QAM	3.00	2.70
		836.5	QPSK	2.97	2.70
			16QAM	2.99	2.69
		847.5	QPSK	3.00	2.70
			16QAM	3.00	2.69
	5	826.5	QPSK	4.98	4.52
			16QAM	4.96	4.50
		836.5	QPSK	4.98	4.51
			16QAM	4.98	4.52
		846.5	QPSK	4.96	4.50
			16QAM	5.00	4.51
	10	829.0	QPSK	9.94	8.97
			16QAM	9.82	8.99
		836.5	QPSK	9.87	8.94
			16QAM	9.77	8.97
		844.0	QPSK	9.87	8.97
			16QAM	9.82	8.97
15	831.5	QPSK	14.72	13.45	
		16QAM	14.57	13.45	
	836.5	QPSK	14.65	13.45	
		16QAM	14.65	13.45	
	841.5	QPSK	14.65	13.45	
		16QAM	14.61	13.45	

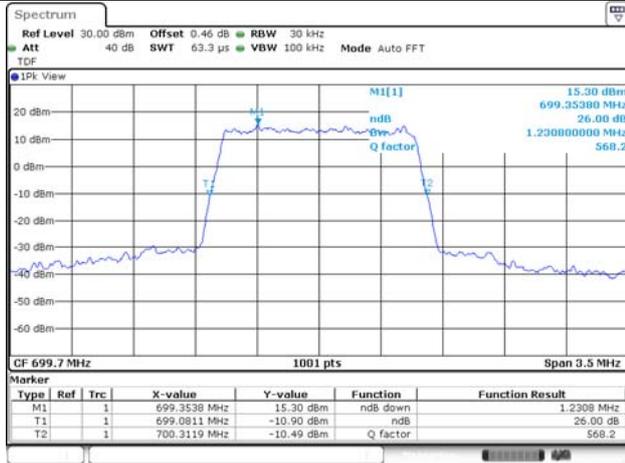
Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 41	5	2 498.5	QPSK	4.92	4.50
			16QAM	4.98	4.52
		2 593.0	QPSK	4.96	4.50
			16QAM	4.96	4.48
		2 687.5	QPSK	4.97	4.51
			16QAM	4.96	4.50
	10	2 501.0	QPSK	9.77	8.99
			16QAM	9.77	8.99
		2 593.0	QPSK	9.74	8.97
			16QAM	9.69	8.97
		2 685.0	QPSK	9.84	8.94
			16QAM	9.74	8.99
	15	2 503.5	QPSK	14.50	13.49
			16QAM	14.65	13.45
		2 593.0	QPSK	14.54	13.45
			16QAM	14.69	13.49
		2 682.5	QPSK	14.69	13.45
			16QAM	14.57	13.49
	20	2 506.0	QPSK	19.43	17.98
			16QAM	19.33	17.98
		2 593.0	QPSK	19.33	17.98
			16QAM	19.68	18.08
		2 680.0	QPSK	19.53	17.93
			16QAM	19.48	17.93

Test Band	Bandwidth (MHz)	Frequency (MHz)	Test mode	26dB bandwidth (MHz)	99 % bandwidth (MHz)
LTE Band 66/4	1.4	1 710.7	QPSK	1.24	1.09
			16QAM	1.23	1.09
		1 745.0	QPSK	1.23	1.10
			16QAM	1.24	1.09
		1 779.3	QPSK	1.24	1.09
			16QAM	1.24	1.09
	3	1 711.5	QPSK	2.98	2.70
			16QAM	3.01	2.70
		1 745.0	QPSK	2.98	2.70
			16QAM	2.99	2.69
		1 778.5	QPSK	3.00	2.70
			16QAM	2.99	2.70
	5	1 712.5	QPSK	4.97	4.52
			16QAM	4.95	4.50
		1 745.0	QPSK	4.97	4.50
			16QAM	4.98	4.51
		1 777.5	QPSK	4.97	4.48
			16QAM	4.98	4.51
	10	1 715.0	QPSK	9.77	8.94
			16QAM	9.77	8.97
		1 745.0	QPSK	9.89	8.94
			16QAM	9.72	8.97
		1 775.0	QPSK	9.84	8.99
			16QAM	9.84	8.97
	15	1 717.5	QPSK	14.69	13.52
			16QAM	14.65	13.49
		1 745.0	QPSK	14.69	13.41
			16QAM	14.61	13.45
		1 772.5	QPSK	14.69	13.45
			16QAM	14.72	13.45
20	1 720.0	QPSK	19.53	18.03	
		16QAM	19.38	18.08	
	1 745.0	QPSK	19.53	17.93	
		16QAM	19.43	17.98	
	1 770.0	QPSK	19.68	18.03	
		16QAM	19.38	17.98	

26 dB Bandwidth

Test mode: LTE Band 12

1.4M BW QPSK Low ch.



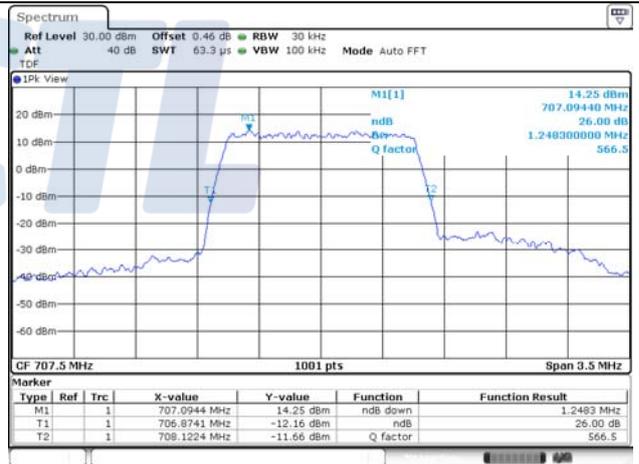
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1.4M BW QPSK Mid ch.



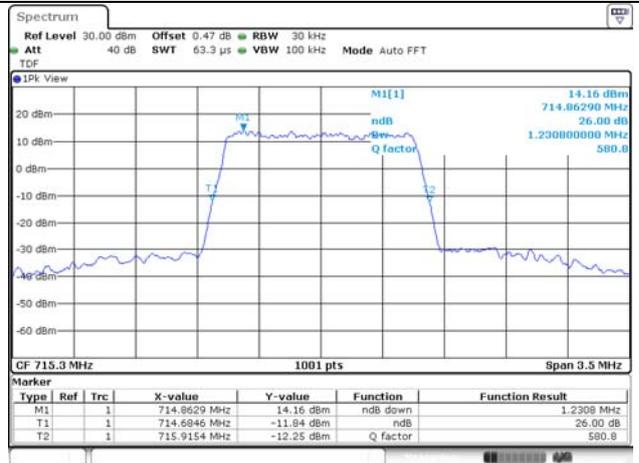
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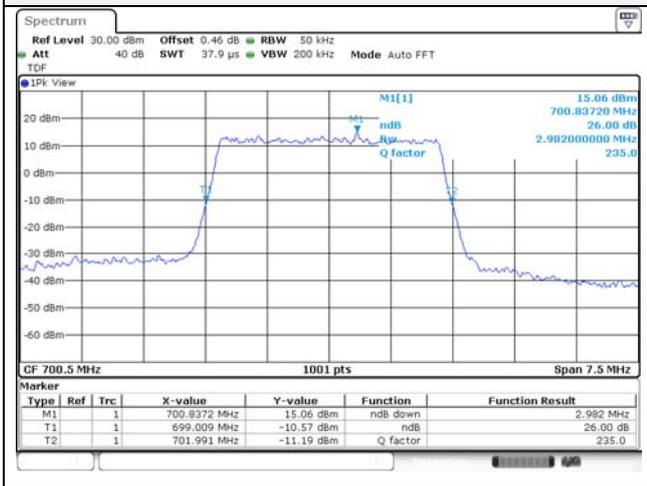
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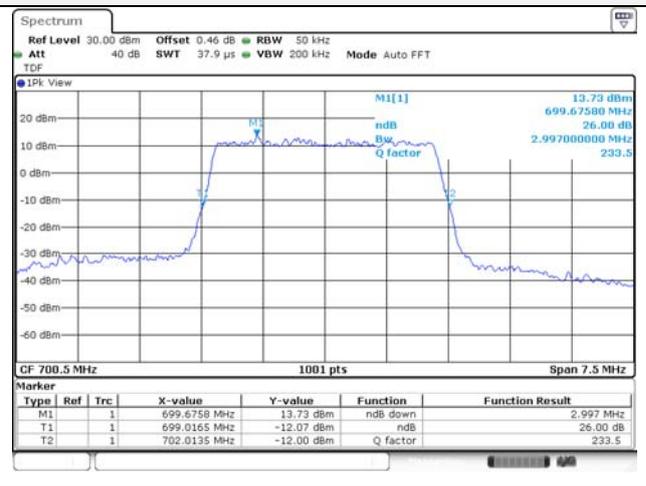
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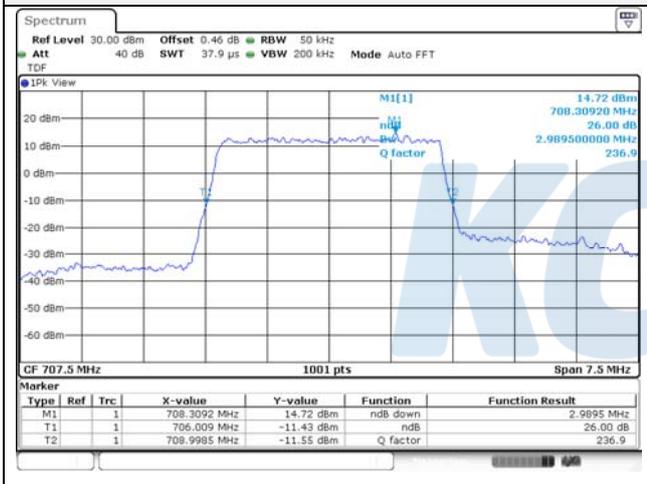
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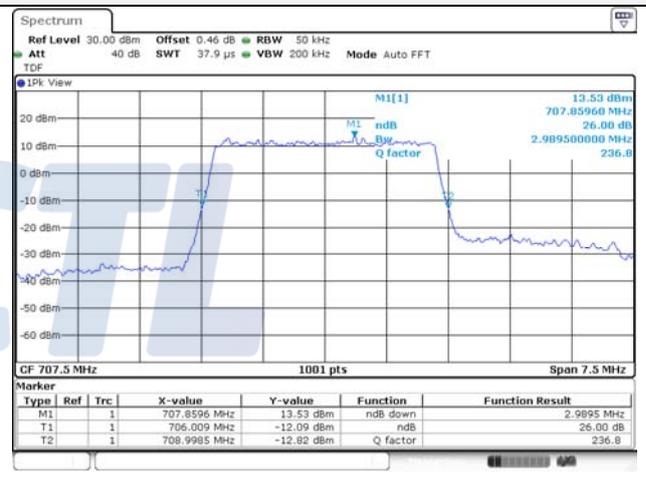
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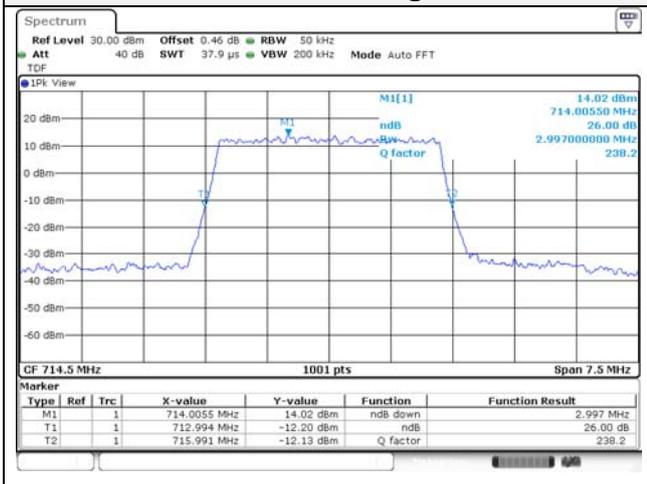
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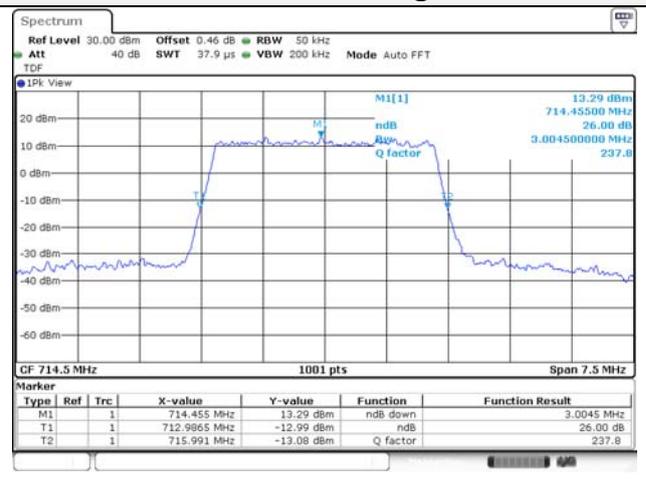
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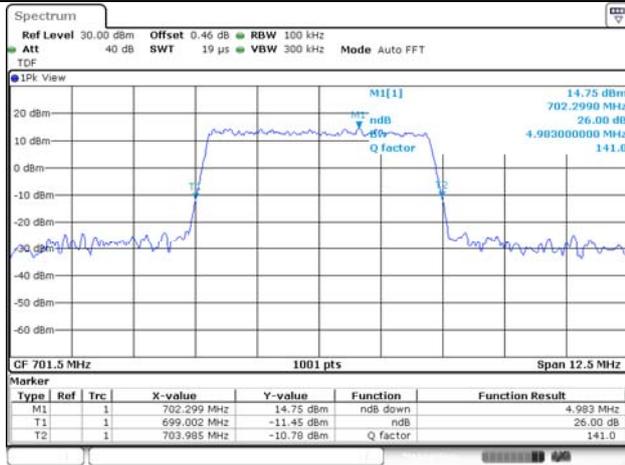
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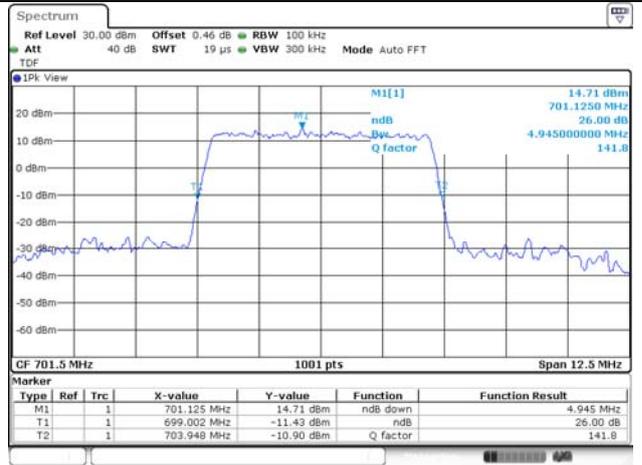
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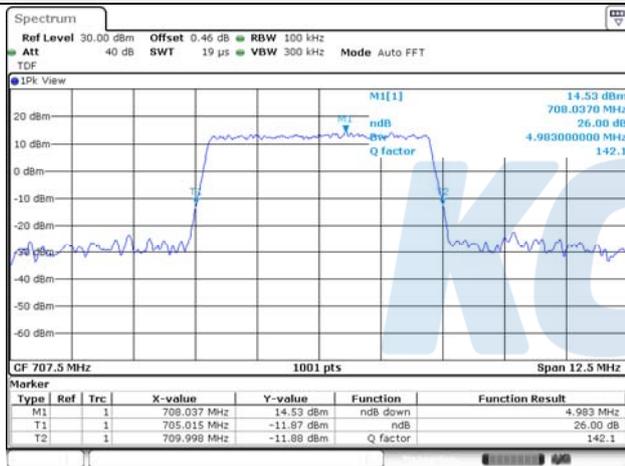
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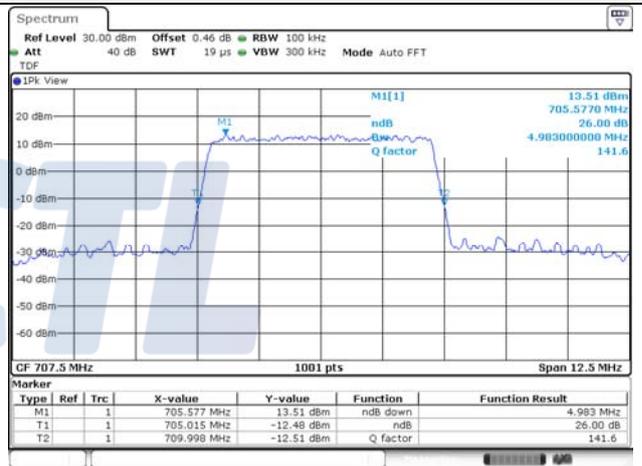
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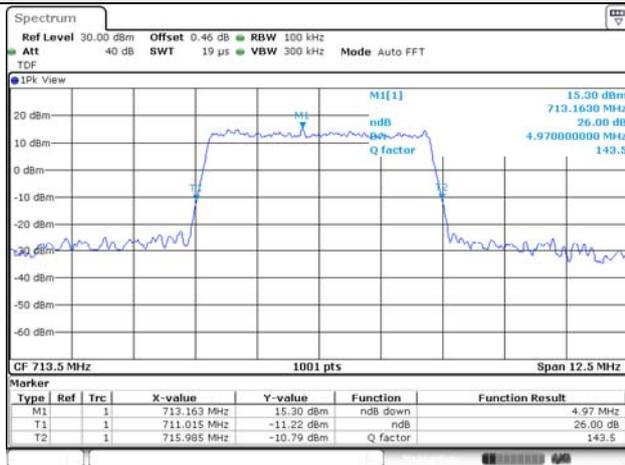
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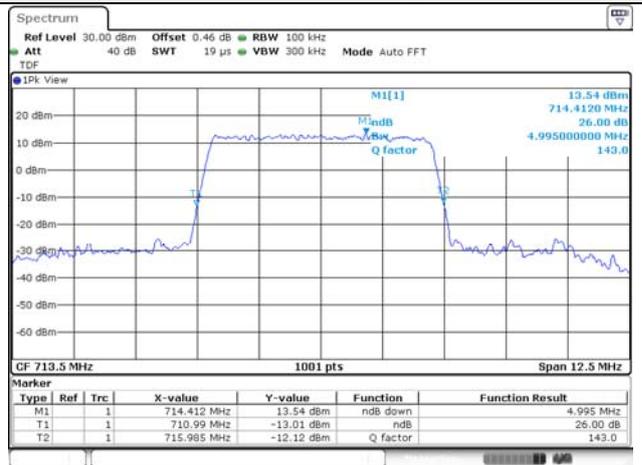
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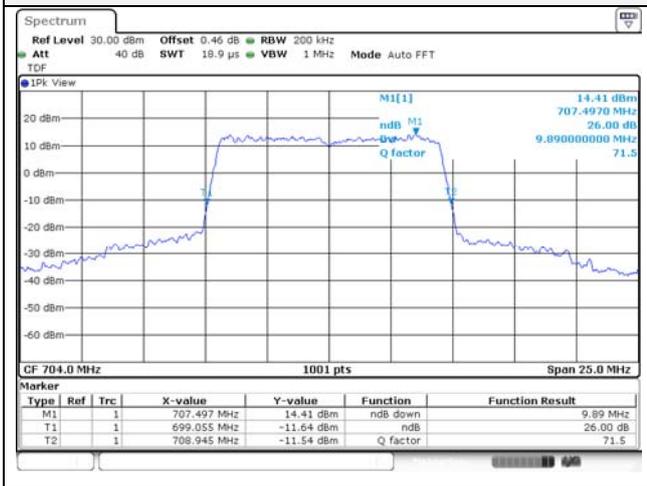
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5M BW 16QAM High ch.



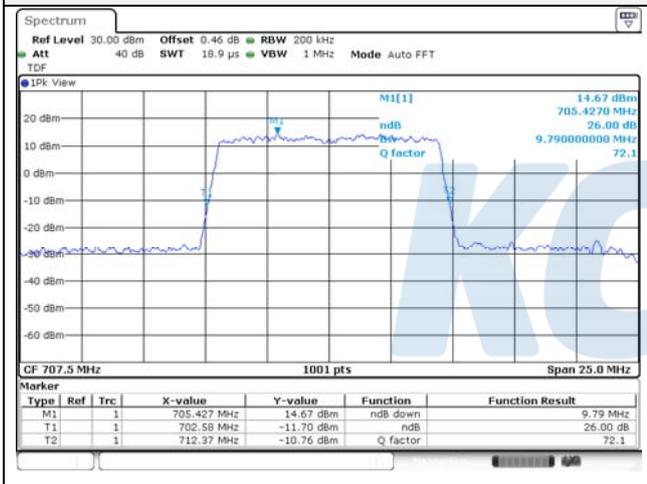
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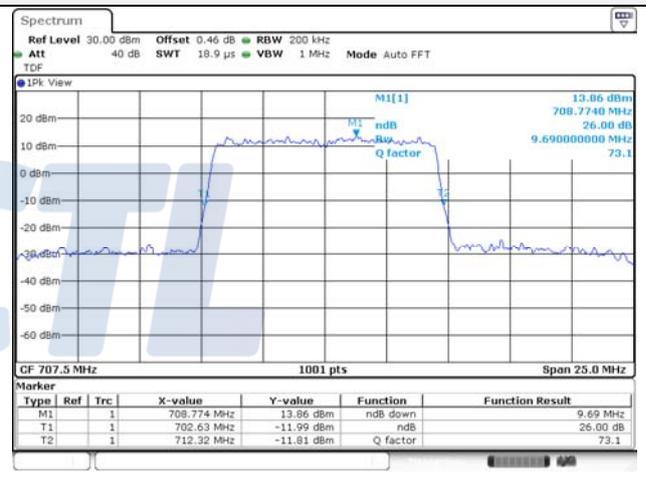
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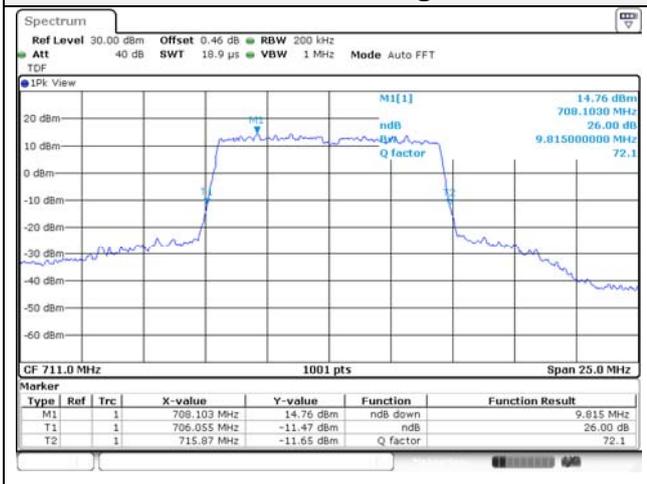
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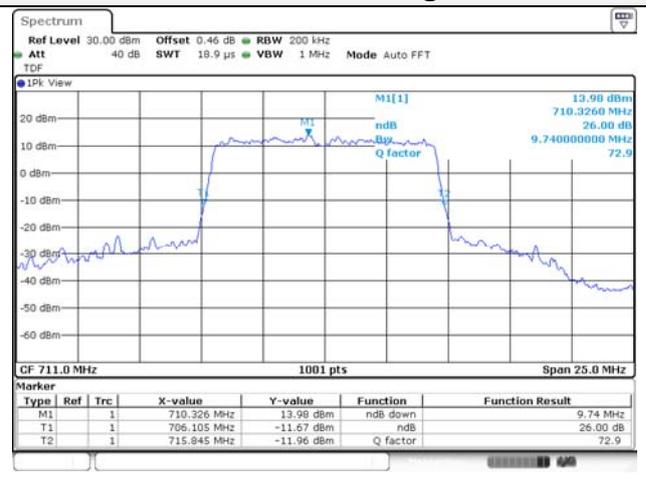
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10M BW QPSK High ch.

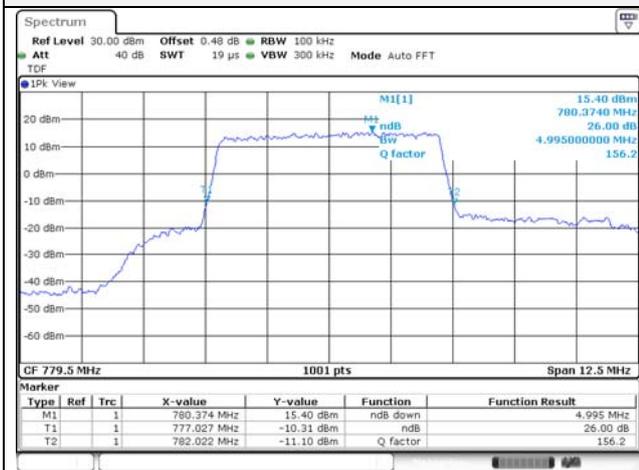


10M BW 16QAM High ch.

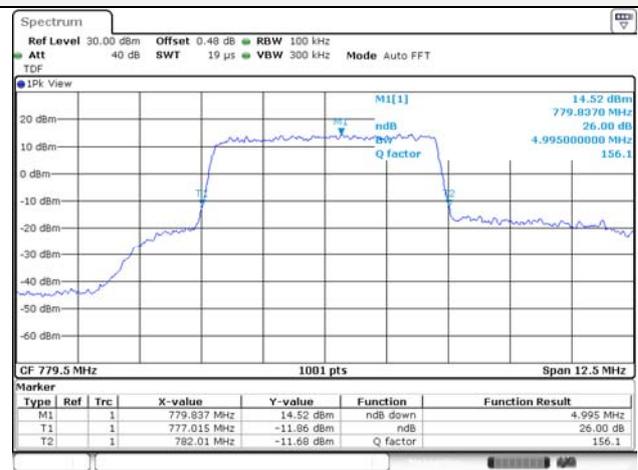


Test mode: LTE Band 13

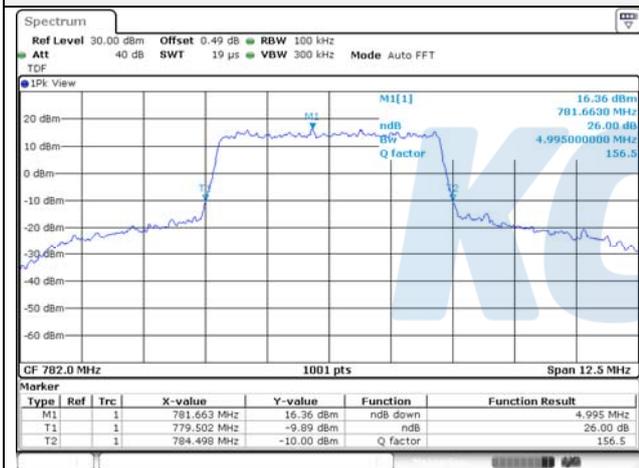
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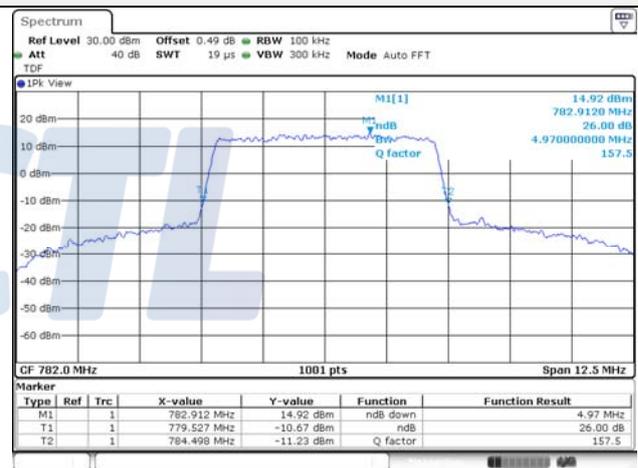
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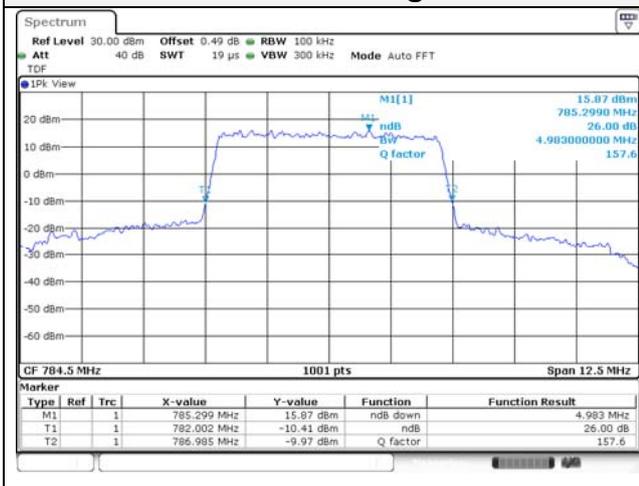
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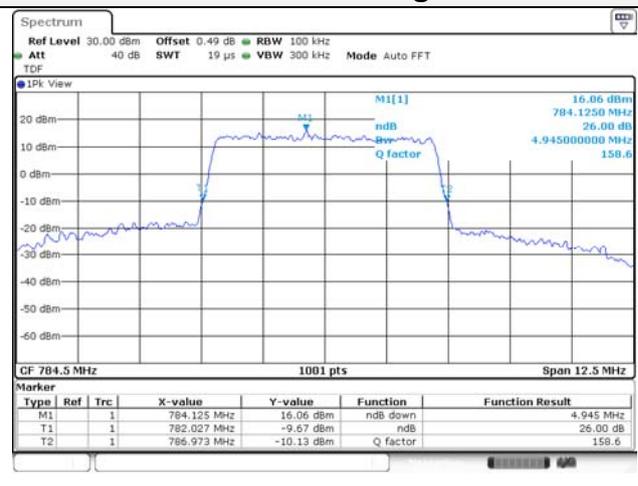
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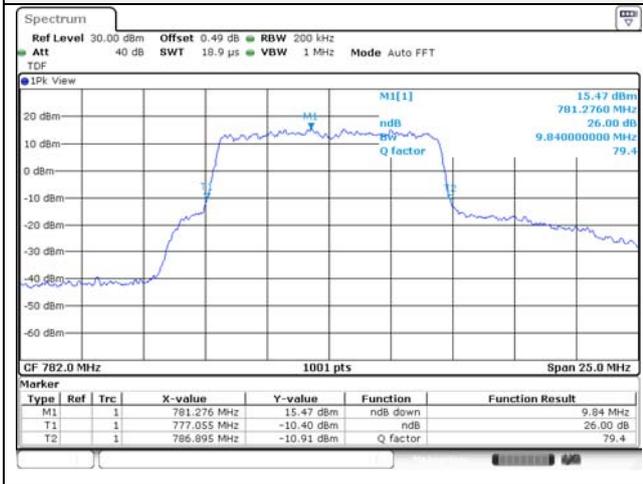
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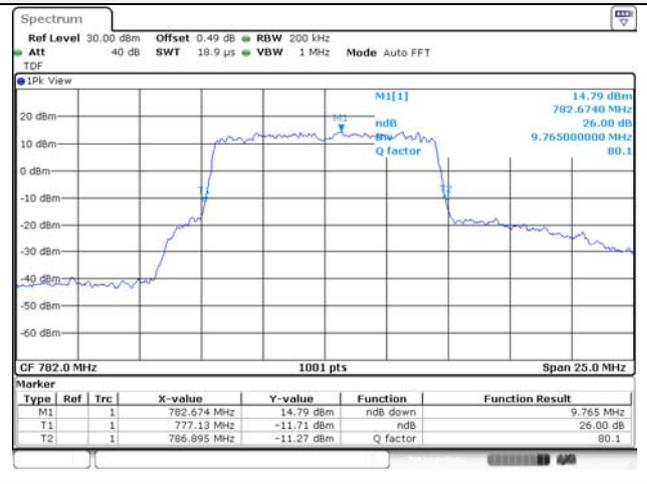
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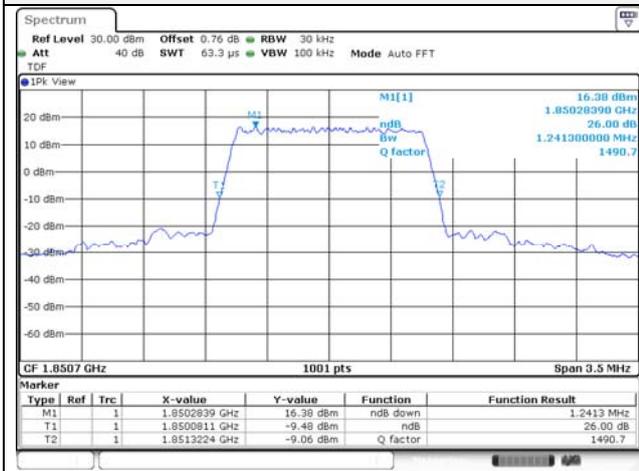


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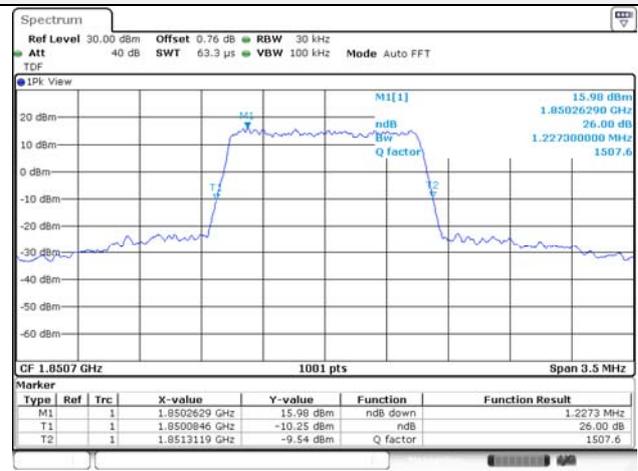


Test mode: LTE Band 25/2

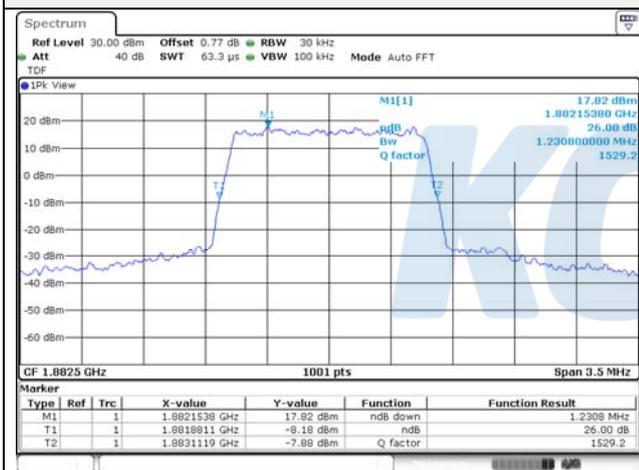
1.4M BW QPSK Low ch.



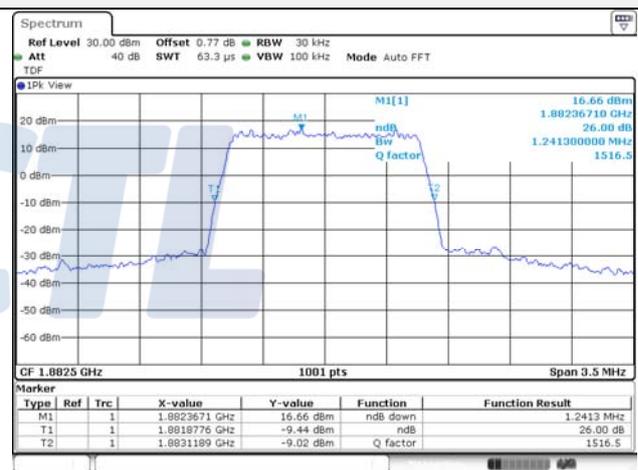
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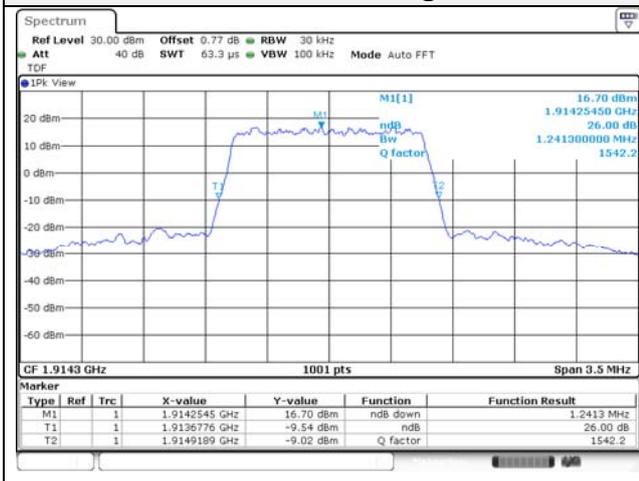
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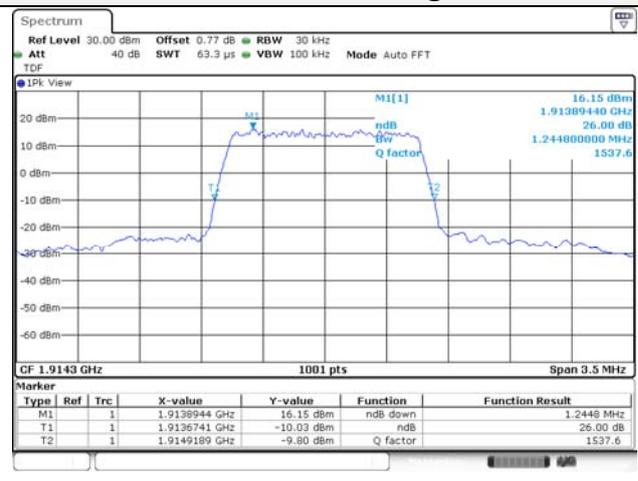
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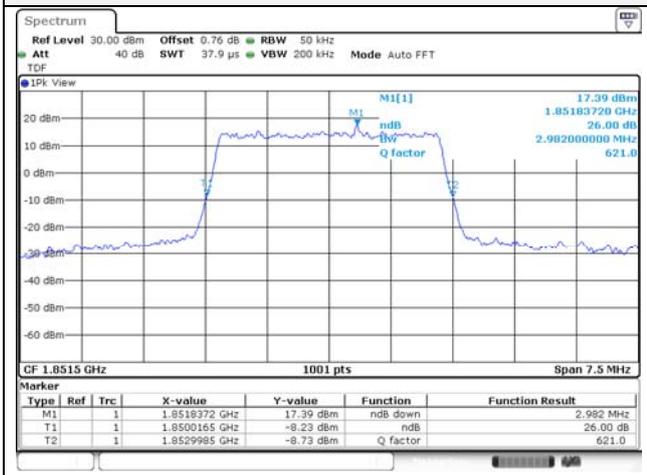
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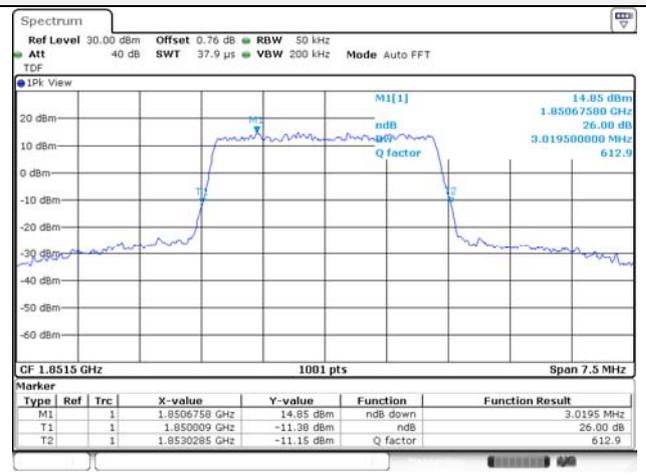
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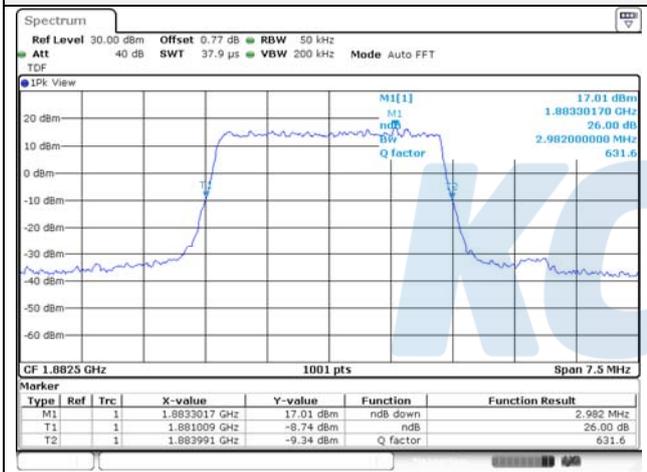
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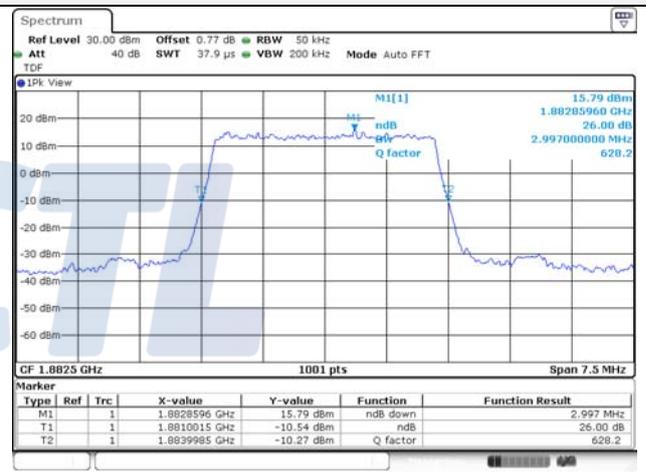
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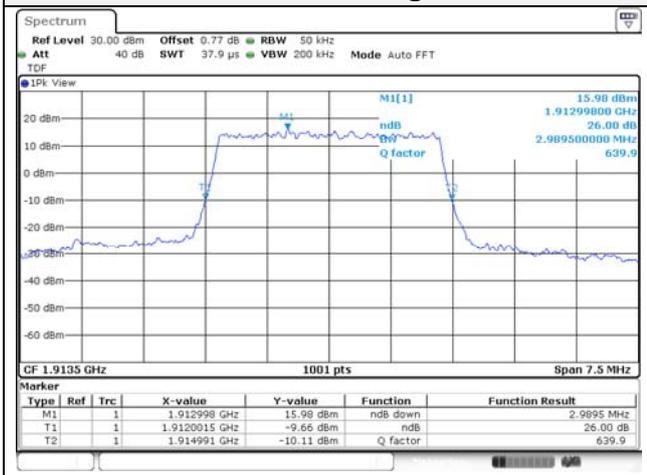
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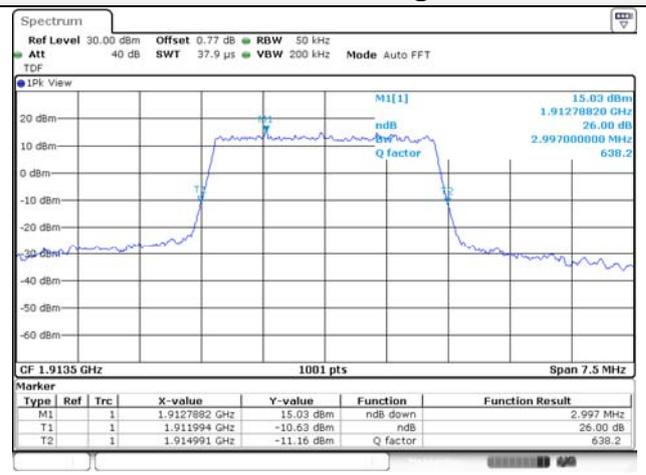
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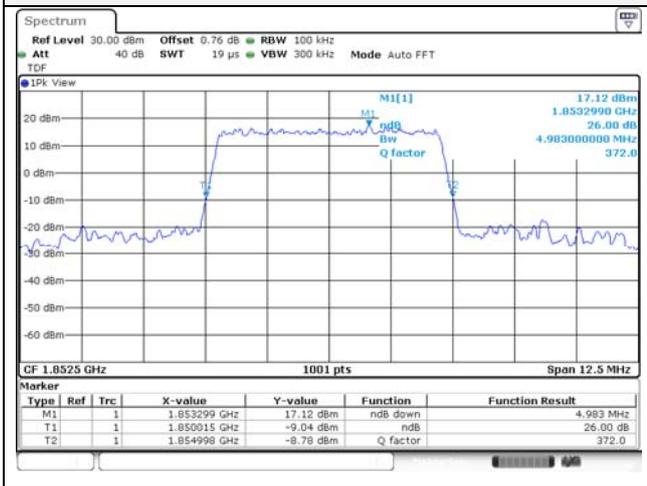
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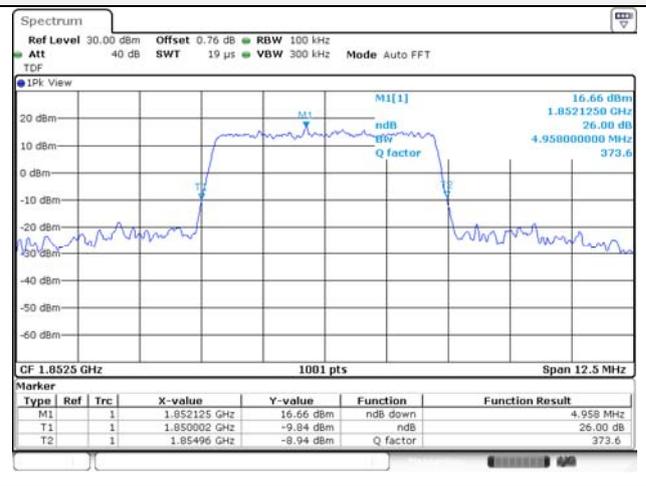
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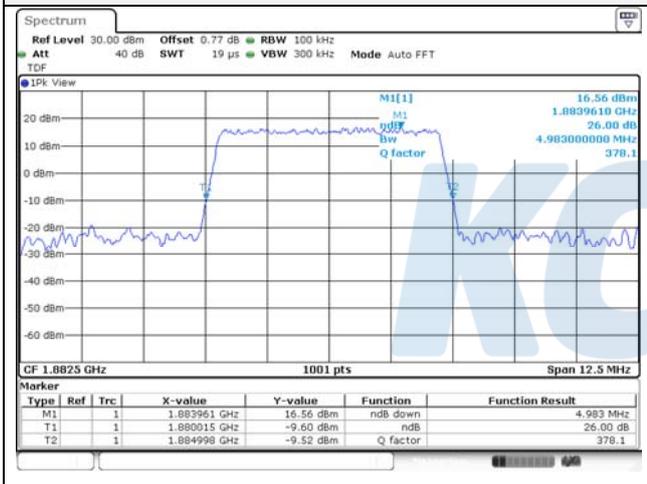
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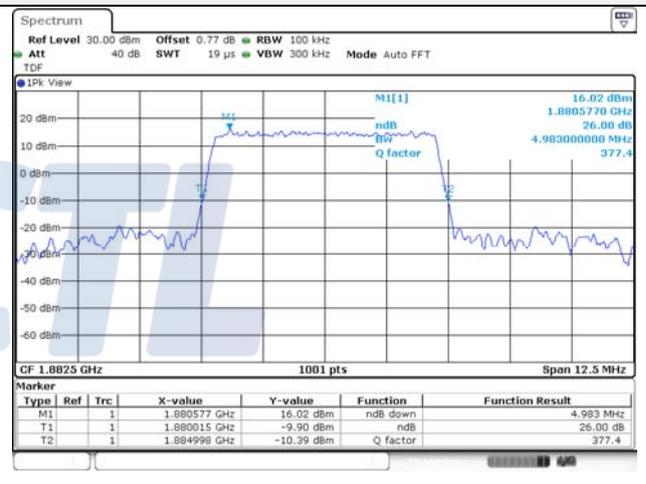
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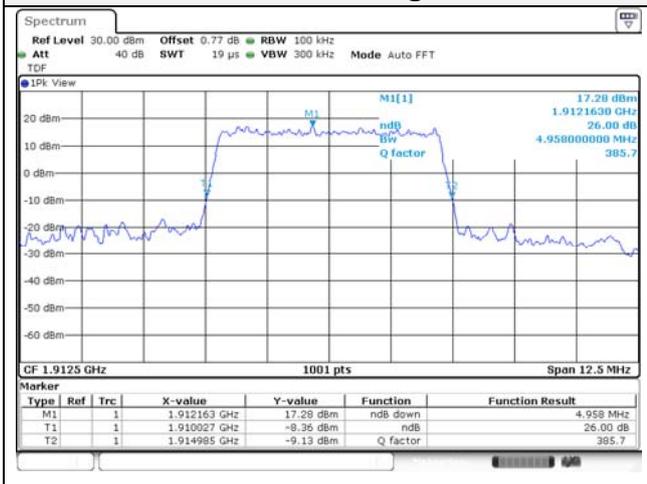
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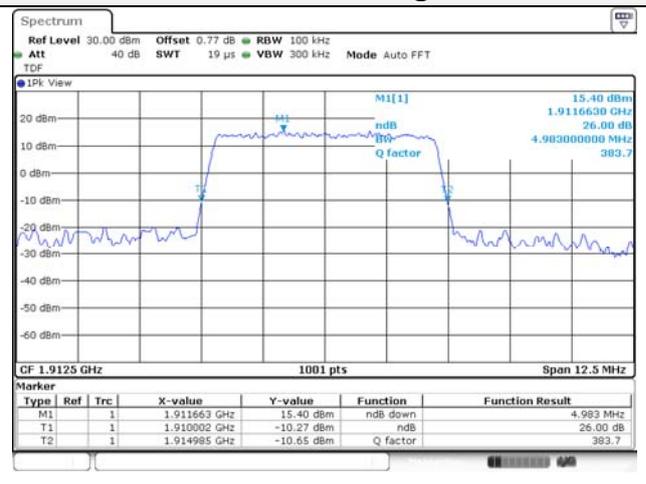
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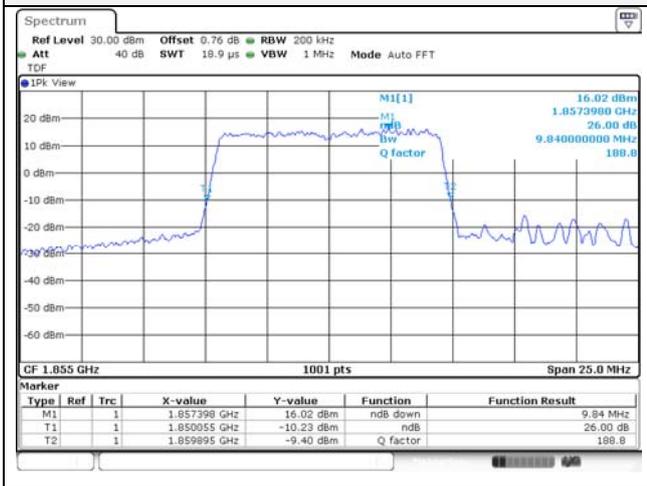
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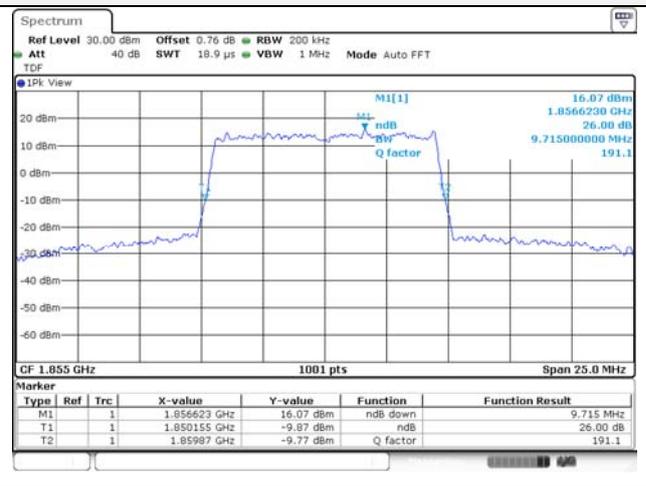
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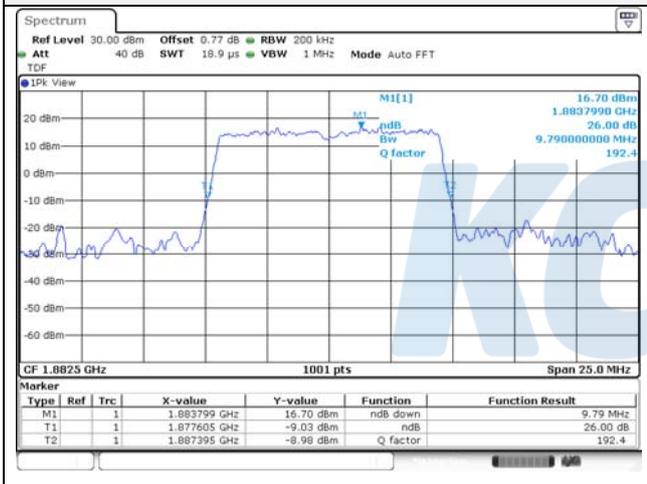
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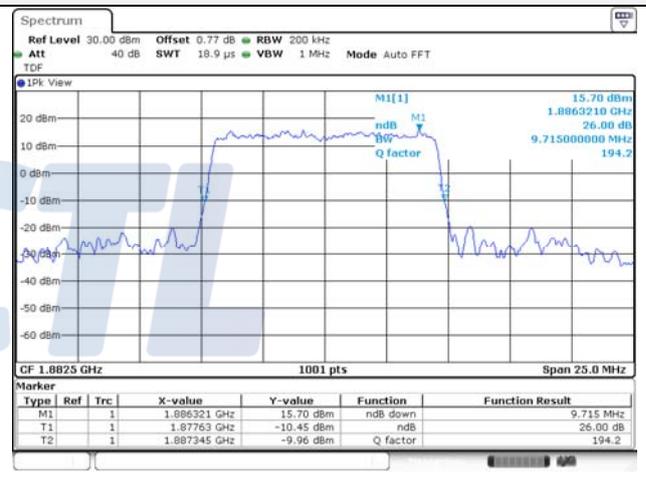
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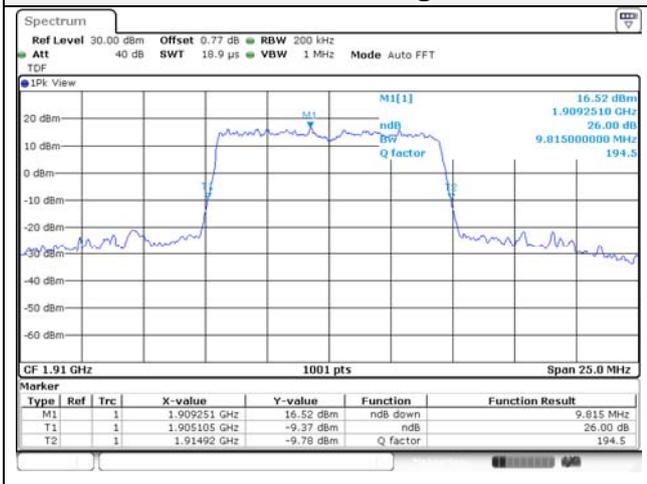
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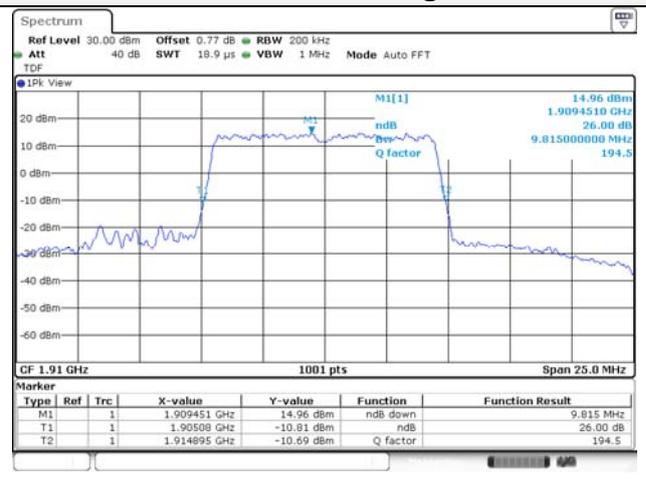
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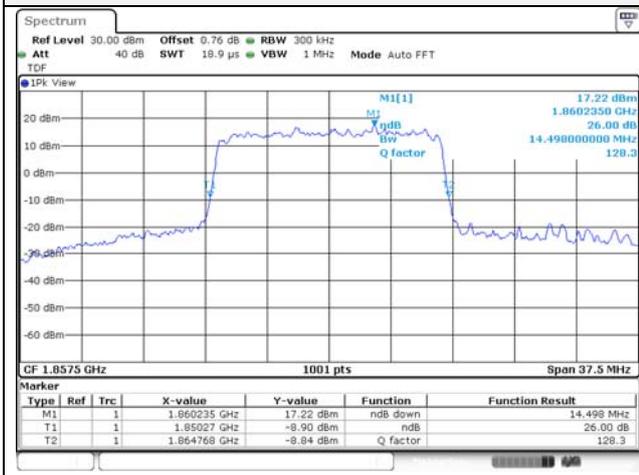
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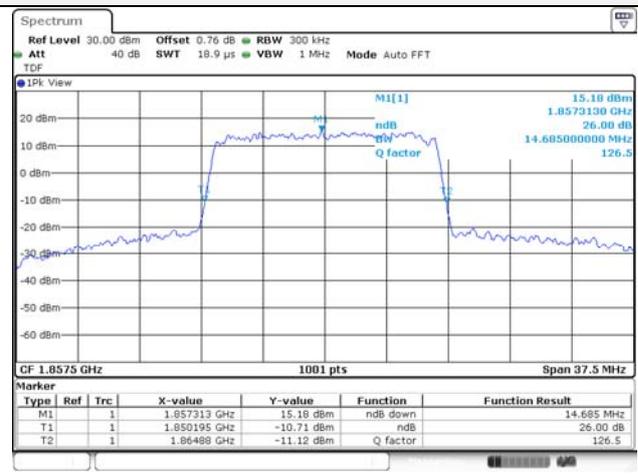
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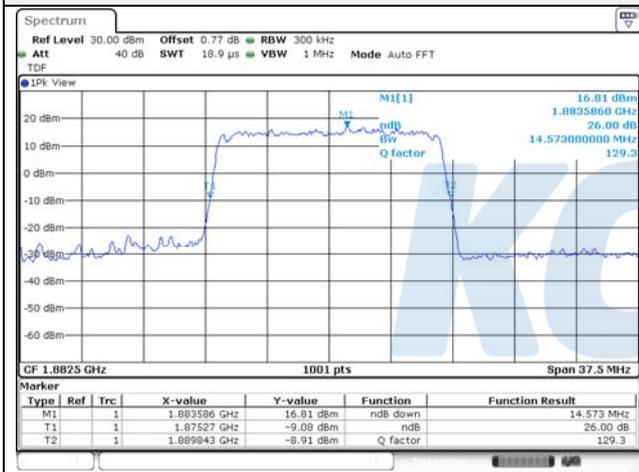
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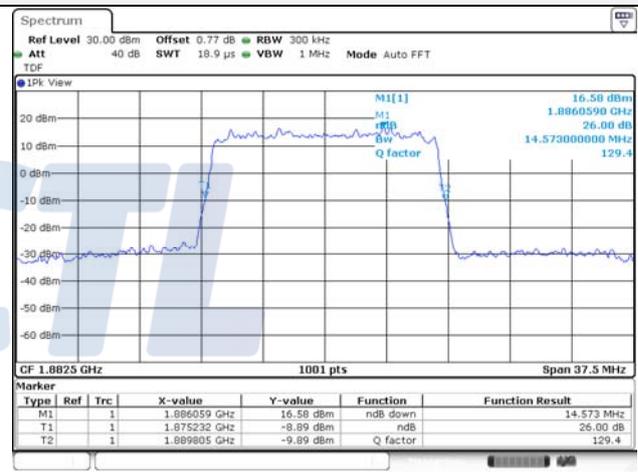
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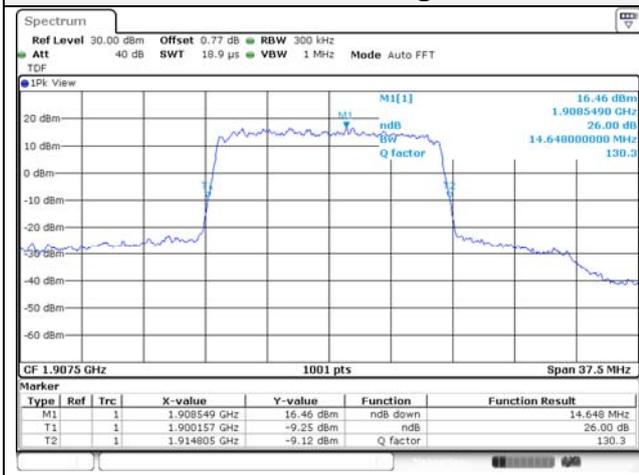
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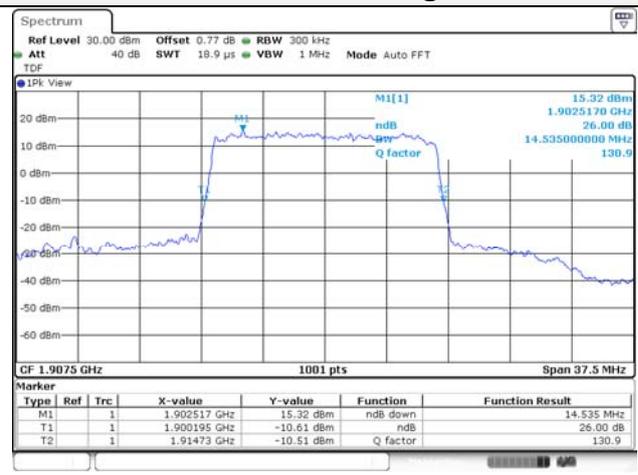
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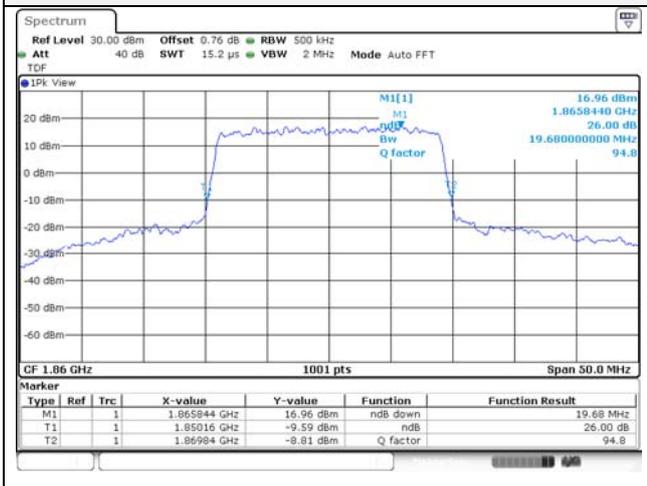
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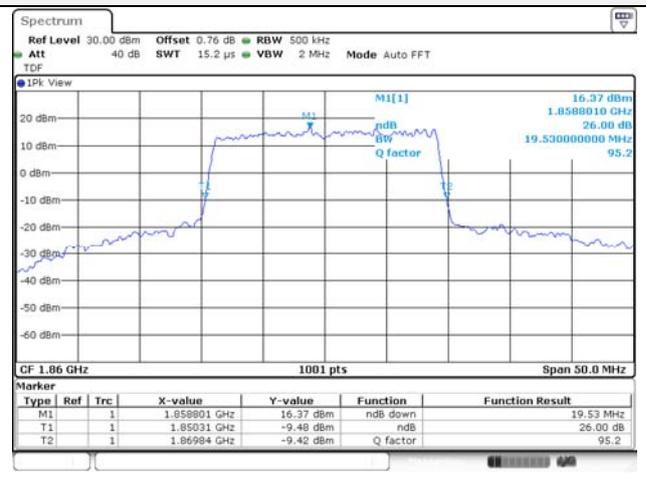
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20M BW QPSK Low ch.



20M BW 16QAM Low ch.



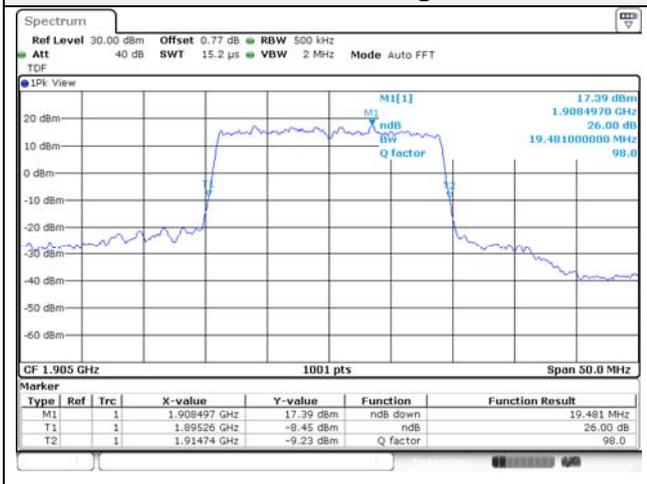
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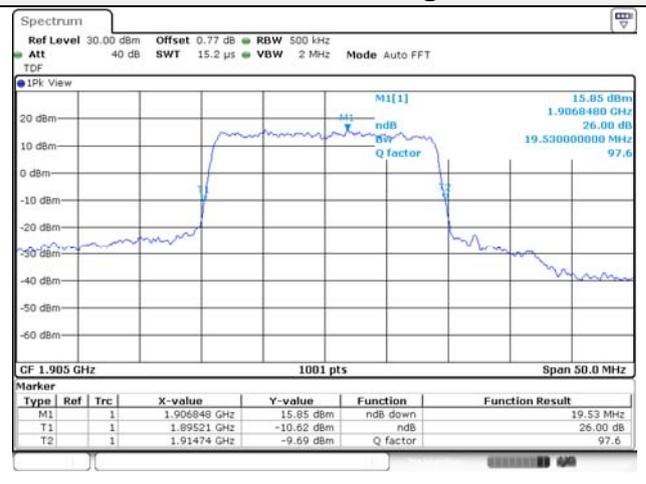
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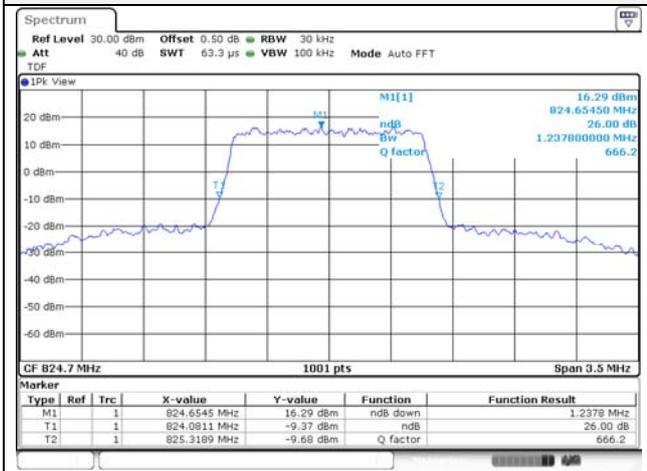


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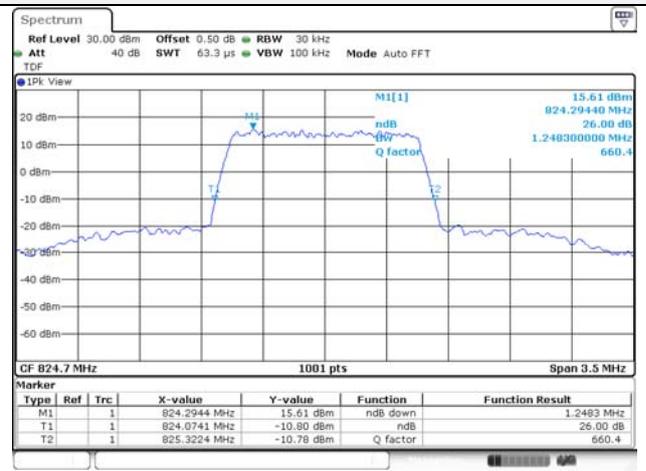


Test mode: LTE Band 26/5

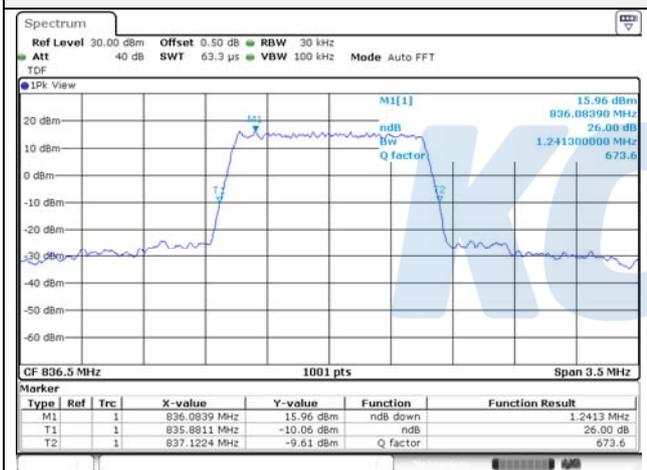
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1.4M BW 16QAM Low ch.



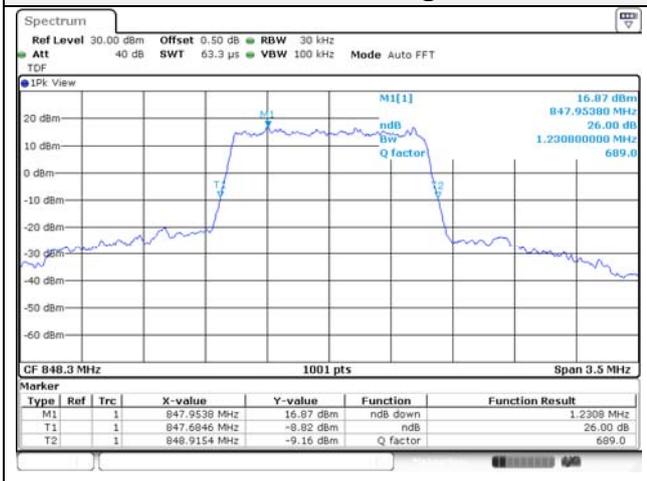
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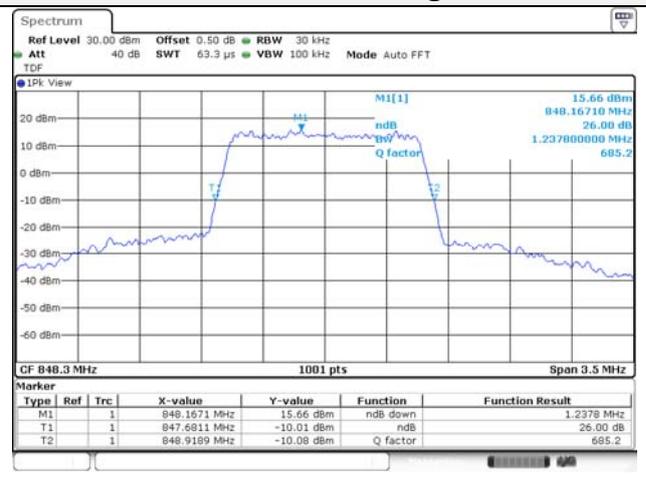
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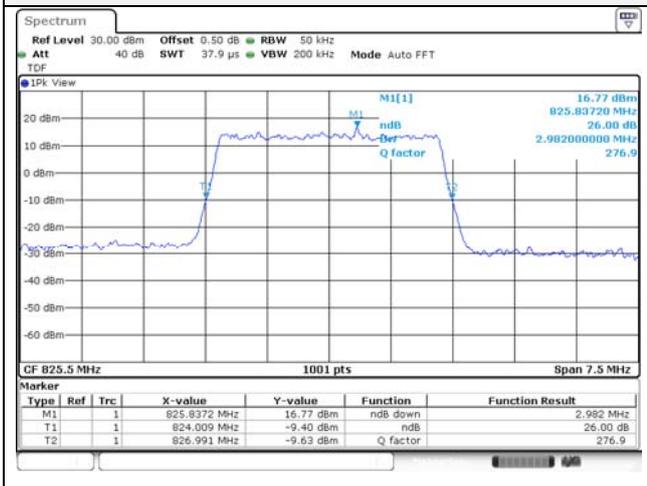
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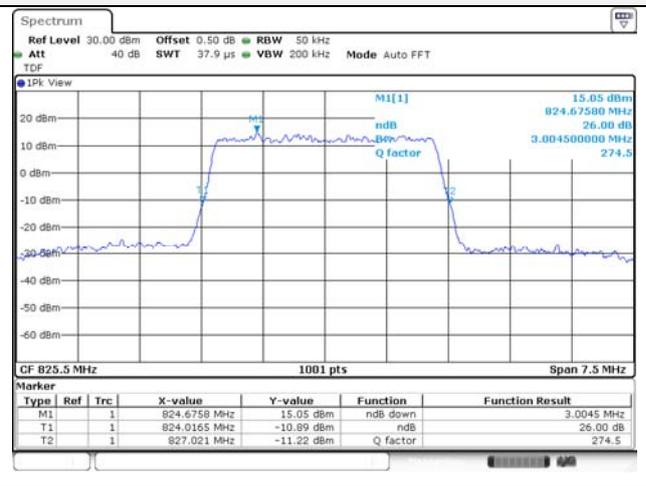
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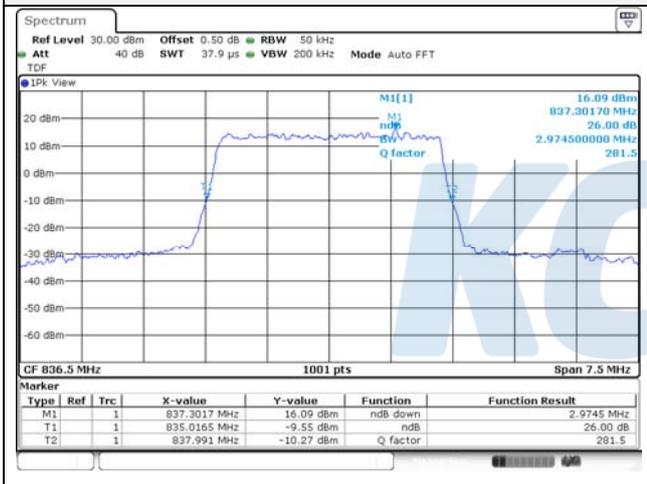
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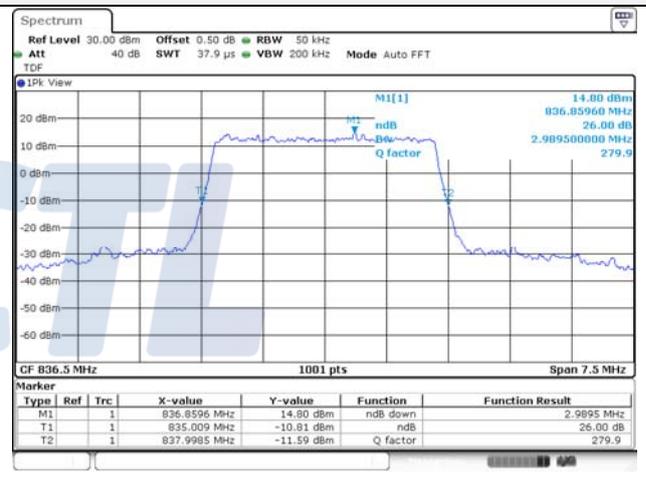
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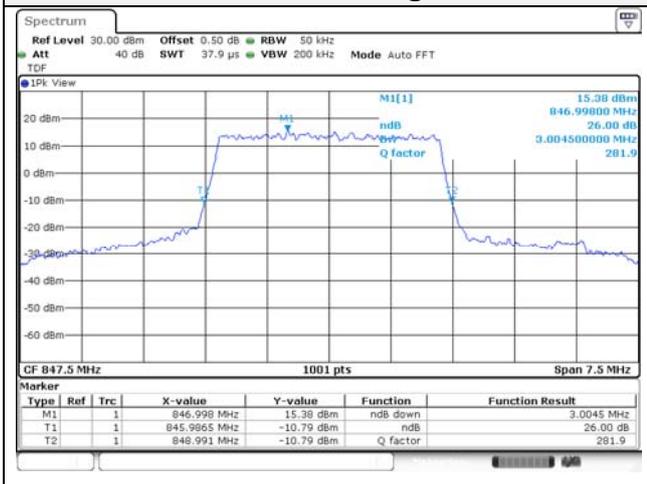
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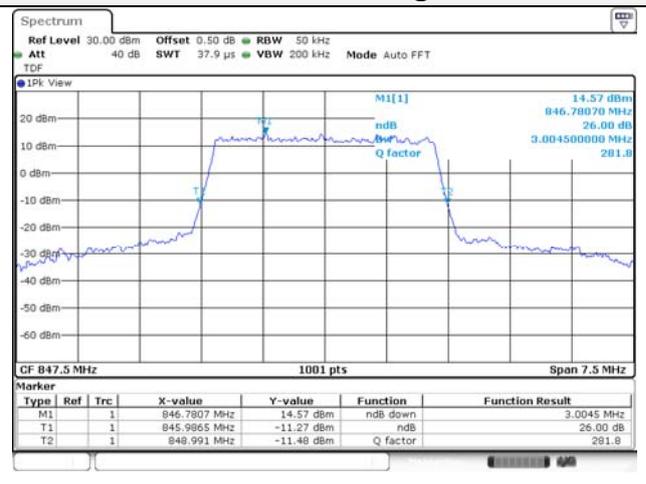
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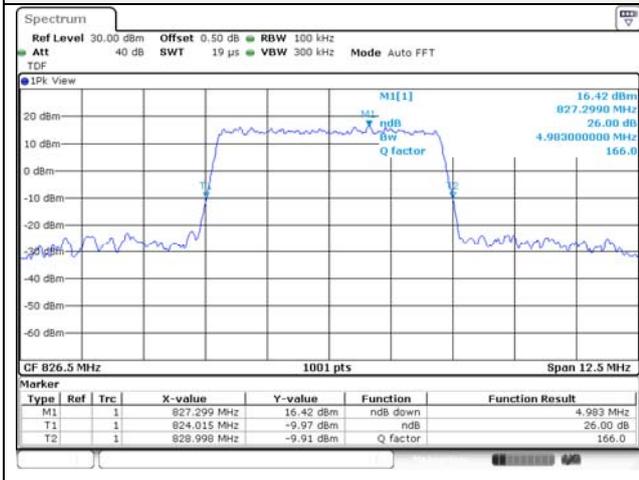
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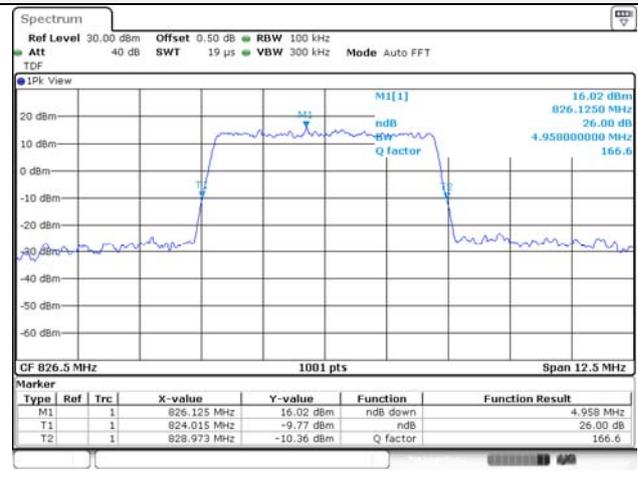
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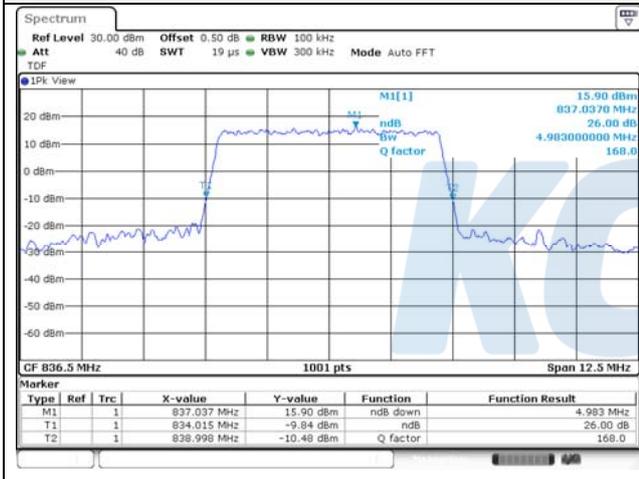
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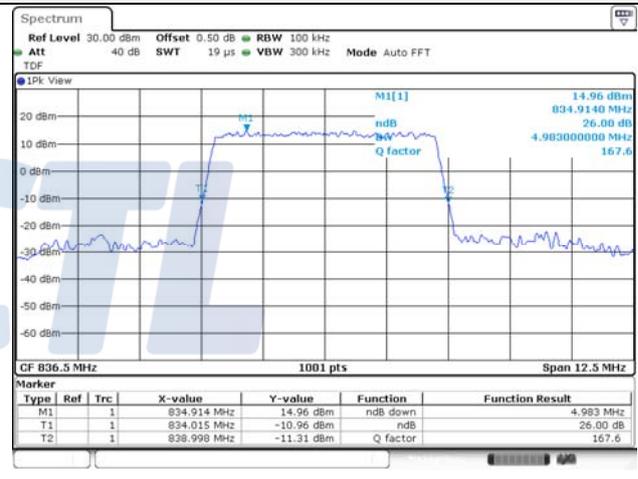
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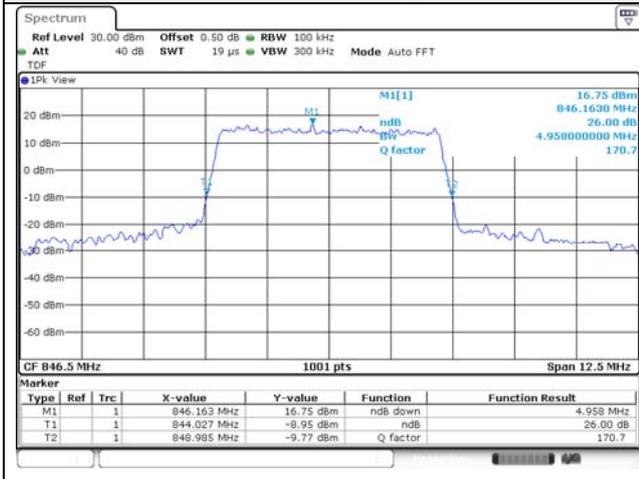
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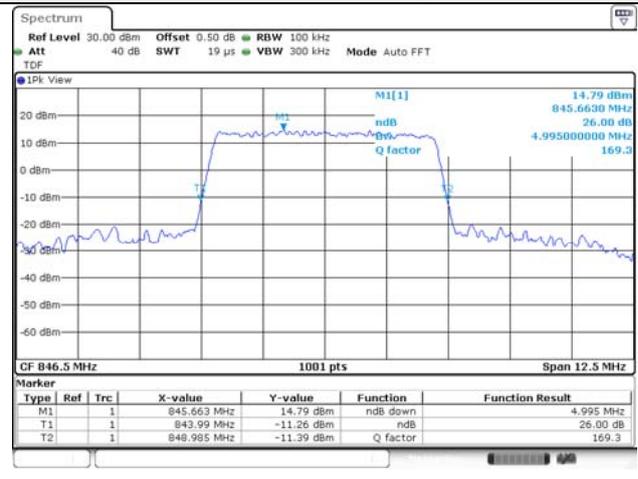
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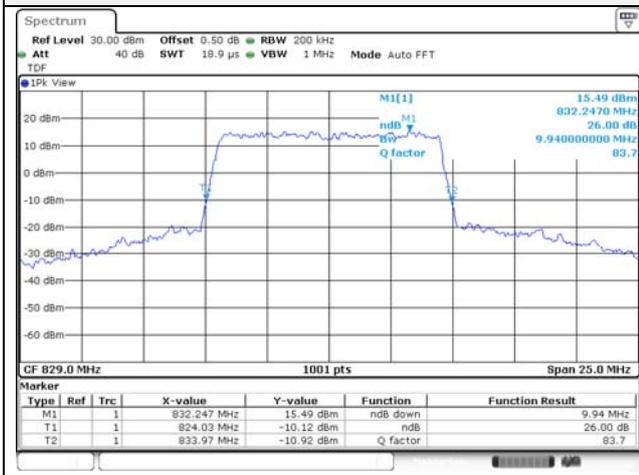
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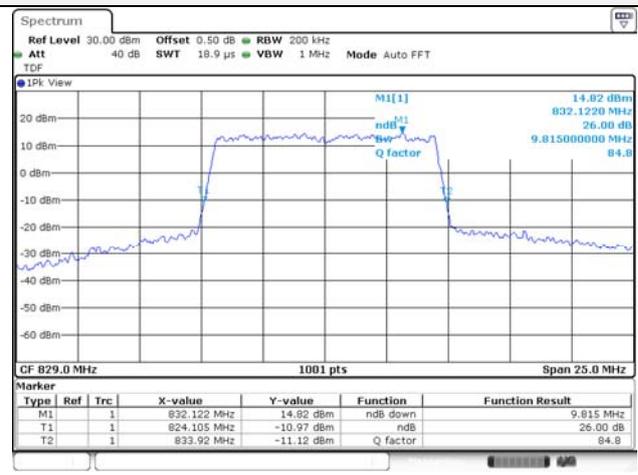
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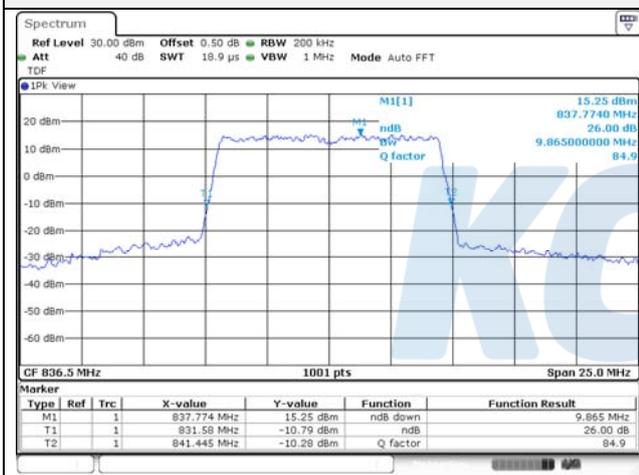
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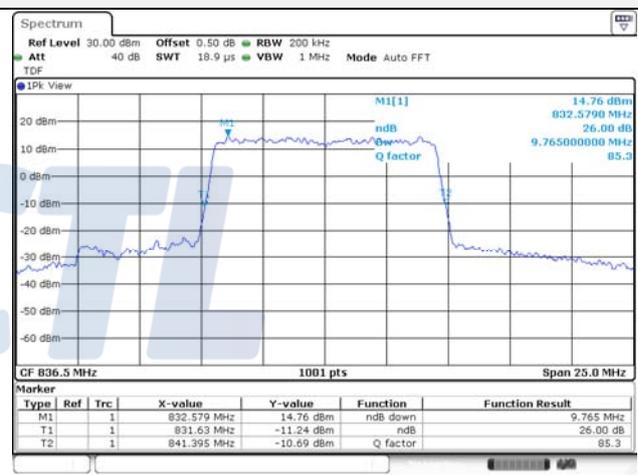
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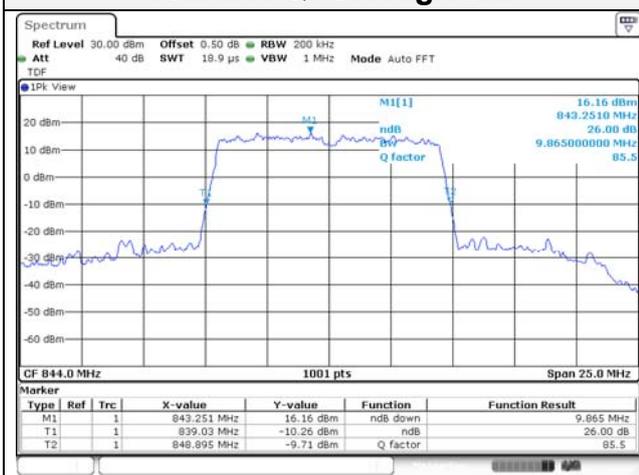
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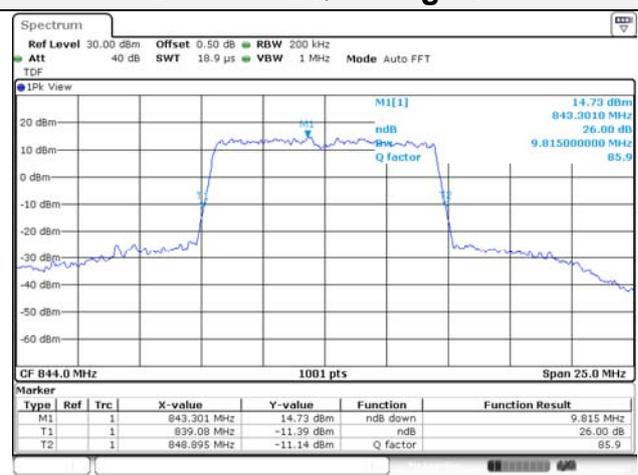
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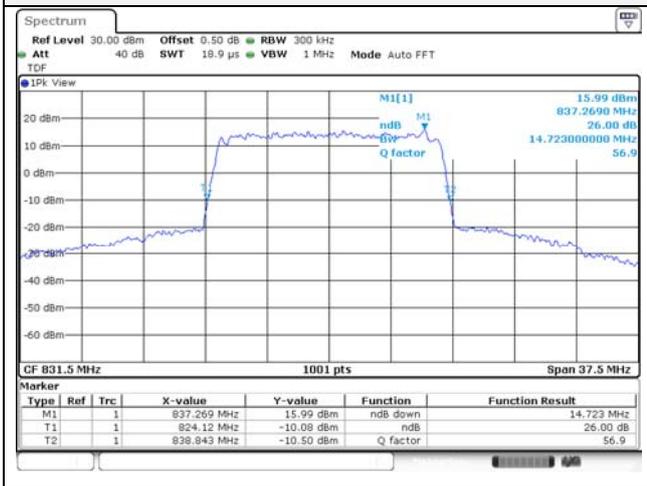
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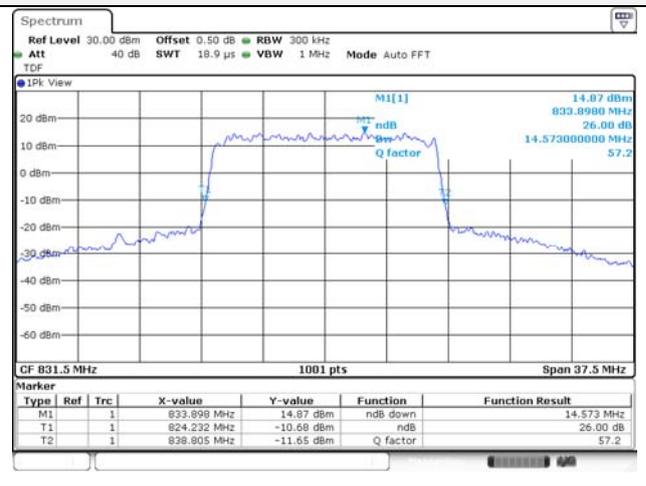
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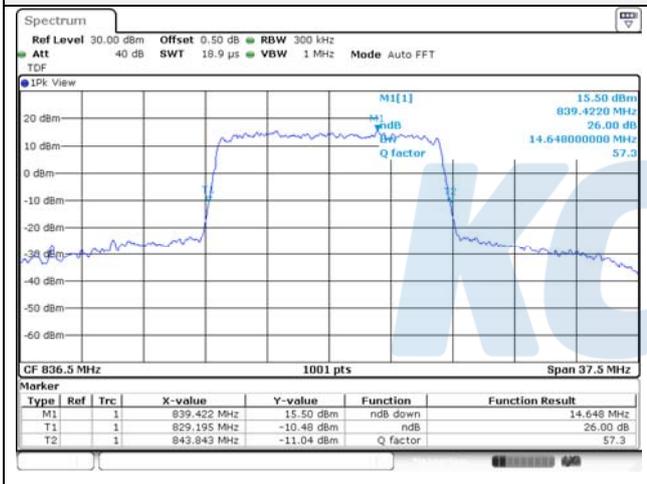
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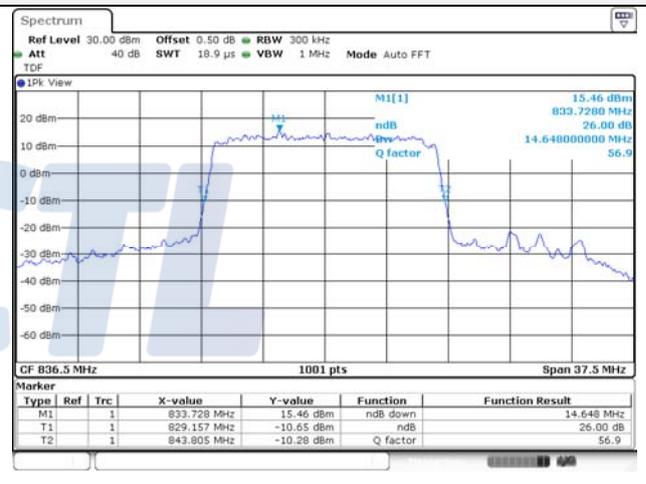
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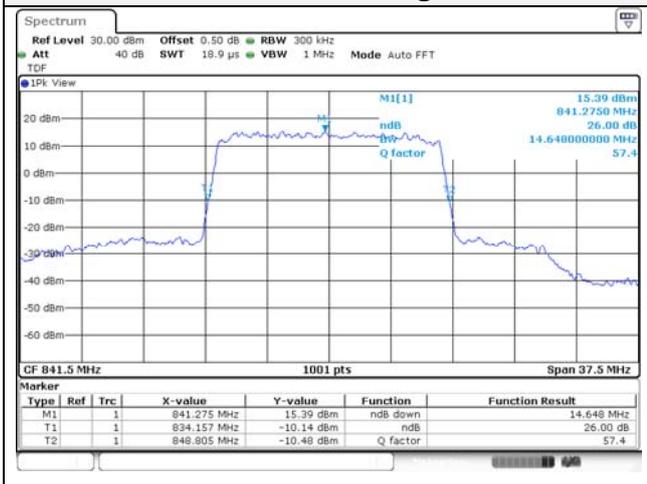
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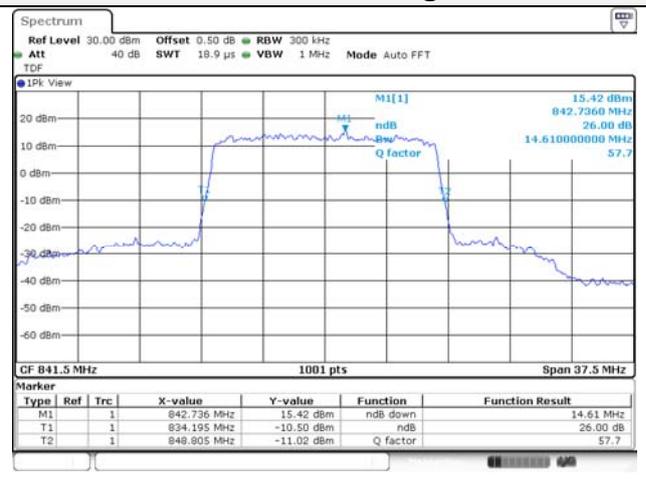
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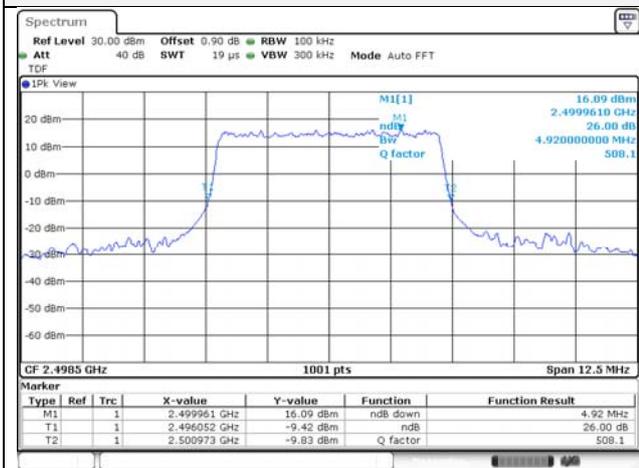


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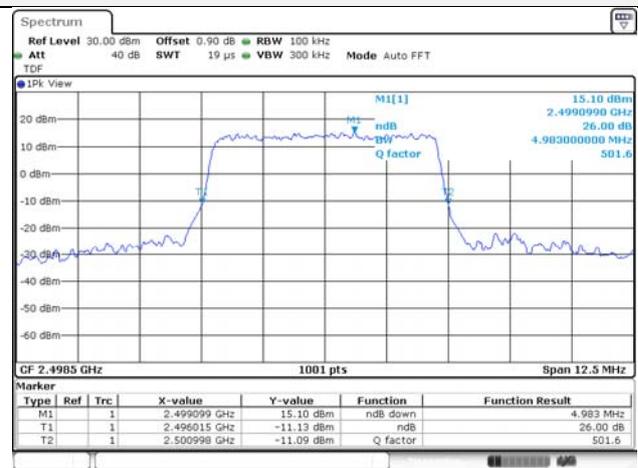


Test mode: LTE Band 41

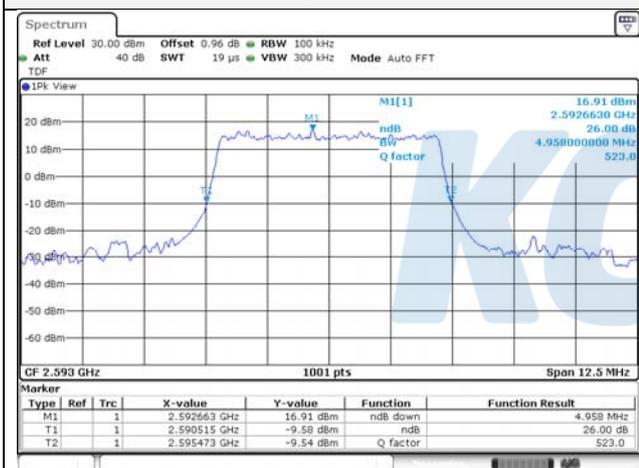
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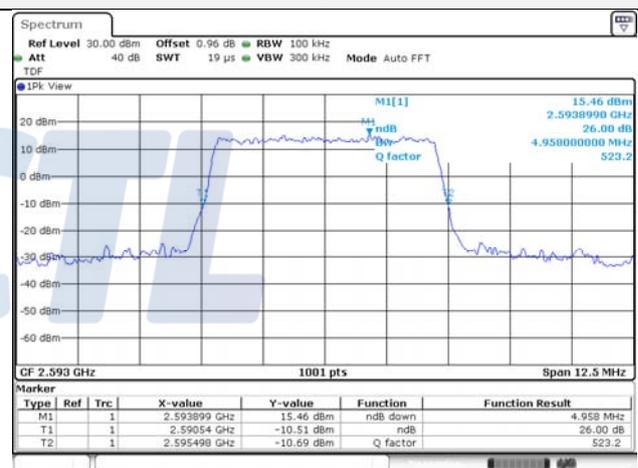
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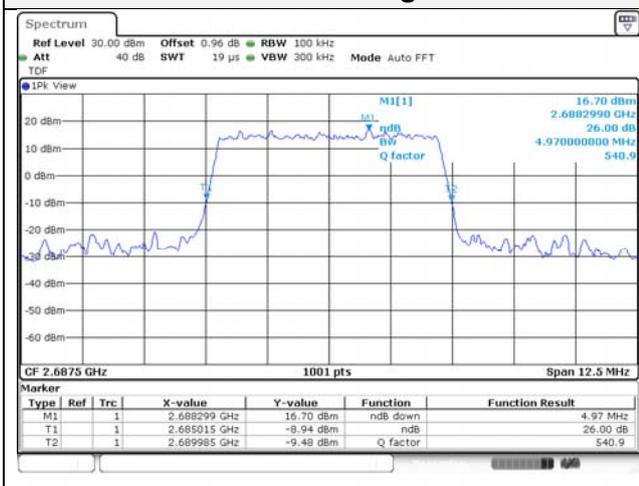
5M BW QPSK Mid ch.



5M BW 16QAM Mid ch.



5M BW QPSK High ch.



5M BW 16QAM High ch.

