




TEST REPORT

<p>KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr</p>	<p>Report No.: KR22-SRF0054-A Page (1) of (63)</p>	<p> KCTL</p>
<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 : 2022-03-11 <p>2. Use of Report : Certification</p> <p>3. Name of Product / Model : Tablet PC / SM-P619</p> <p>4. Manufacturer / Country of Origin : Samsung Electronics Co., Ltd. / Vietnam</p> <p>5. FCC ID : A3LSMP619</p> <p>6. Date of Test : 2022-03-11 to 2022-04-18</p> <p>7. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address:65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)</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 Result : Refer to the test result in the test report</p>		
<p>Affirmation</p>	<p>Tested by</p> <p>Name : Kwonse Kim (Signature)</p>	<p>Technical Manager</p> <p>Name : Seungyong Kim (Signature)</p>
<p style="text-align: right;">2022-04-18</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
2022-04-13	Originally issued	-
2022-04-18	Retested the mid channel for WCDMA B5	16, 19, 24, 30, 41

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Note. The report No. KR22-SRF0054 is superseded by the report No. KR22-SRF0054-A.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

Statement not required by the standard or client used for type testing

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1. General information

Client : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Manufacturer : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Factory : Samsung Electronics Vietnam Thai Nguyen Co., Ltd
Address : Yen Binh Industrial Park, Dong Tien Ward, Pho Yen Town, Thai Nguyen Province, Vietnam
Laboratory : KCTL Inc.
Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
CAB Identifier: KR0040
ISED Number: 8035A
KOLAS No.: KT231

2. Device information

Equipment under test : Tablet PC
Model : SM-P619
Modulation technique : Bluetooth(BDR/EDR) : GFSK, $\pi/4$ DQPSK, 8DPSK
Bluetooth(BLE) : GFSK
WIFI(802.11a/b/g/n/ac) : DSSS, OFDM
LTE : QPSK, 16QAM, 64QAM
WCDMA : QPSK
GSM : GMSK, 8-PSK
Number of channels : Bluetooth : 79 ch
BLE : 40 ch
802.11b/g/n_HT20 : 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)
Power source : DC 3.85 V
Antenna specification : LTE/WCDMA/GSM : Metal Antenna
WLAN(2.4G)/Bluetooth/BLE : Metal Antenna
WLAN(5G) : Metal Antenna
Antenna gain :
Antenna 1
2.4 GHz Band : -7.20 dBi
UNII-1 : -5.80 dBi
UNII-2A : -5.80 dBi
UNII-2C : -6.30 dBi
UNII-3 : -6.80 dBi
Antenna 2
2.4 GHz Band : -7.30 dBi
UNII-1 : -8.40 dBi
UNII-2A : -8.40 dBi
UNII-2C : -8.10 dBi
UNII-3 : -7.00 dBi

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Frequency range	:	Bluetooth	:	2 402 MHz ~ 2 480 MHz	(BDR/EDR/BLE)
		2.4 GHz WALN	:	2 412 MHz ~ 2 472 MHz	(802.11b/g/n_HT20)
		UNII-1	:	5 180 MHz ~ 5 240 MHz	(802.11a/n/acHT20/VHT20)
		UNII-1	:	5 190 MHz ~ 5 230 MHz	(802.11n/ac_HT40/VHT40)
		UNII-1	:	5 210 MHz	(802.11ac_VHT80)
		UNII-2A	:	5 260 MHz ~ 5 320 MHz	(802.11a/n/ac_HT20/VHT20)
		UNII-2A	:	5 270 MHz ~ 5 310 MHz	(802.11n/ac_HT40/VHT40)
		UNII-2A	:	5 290 MHz	(802.11ac_VHT80)
		UNII-2C	:	5 500 MHz ~ 5 720 MHz	(802.11a/n/ac_HT20/VHT20)
		UNII-2C	:	5 510 MHz ~ 5 710 MHz	(802.11n/ac_HT40/VHT40)
		UNII-2C	:	5 530 MHz ~ 5 690 MHz	(802.11ac_VHT80)
		UNII-3	:	5 745 MHz ~ 5 825 MHz	(802.11a/n/ac_HT20/VHT20)
		UNII-3	:	5 755 MHz ~ 5 795 MHz	(802.11n/ac_HT40/VHT40)
		UNII-3	:	5 775 MHz	(802.11ac_VHT80)
		LTE Band 2	:	1 850.7 MHz ~ 1 909.3 MHz	
		LTE Band 4	:	1 710.7 MHz ~ 1 754.3 MHz	
		LTE Band 5	:	824.7 MHz ~ 848.3 MHz	
		LTE Band 12	:	699.7 MHz ~ 715.3 MHz	
		LTE Band 17	:	706.5 MHz ~ 713.5 MHz	
		LTE Band 41	:	2 498.5 MHz ~ 2 687.5 MHz	
		LTE Band 66	:	1 710.7 MHz ~ 1 779.3 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 ~ 1 752.6 MHz	
		WCDMA 1900	:	1 852.4 MHz ~ 1 907.6 MHz	
Software version	:	P619.001			
Hardware version	:	REV1.0			
Test device serial No.	:	Conducted	:	613b59517f197ece	
		Radiated	:	R32T2001RND	
Operation temperature	:	-30 °C ~ 50 °C			

2.1. Frequency/channel operations

This device contains the following capabilities:

WLAN (11a/b/g/n/ac – 2TX MIMO), Bluetooth (BDR/EDR/BLE), LTE B2/4/5/12/17/41/66,
GSM 850/1900, WCDMA 850/1700/1900

GSM 850

Ch.	Frequency (MHz)
128	824.2
190	836.6
251	848.8

Table 2.1.1.
GSM/GPRS/EDGE

GSM 1900

Ch.	Frequency (MHz)
512	1 850.2
661	1 880.0
810	1 909.8

Table 2.1.2.
GSM/GPRS/EDGE

WCDMA 850

Ch.	Frequency (MHz)
4132	826.4
4183	836.6
4233	846.6

Table 2.1.3.
RMC/HSDPA/HSUPA/
DC-HSDPA

WCDMA 1700

Ch.	Frequency (MHz)
1312	1 712.4
1412	1 732.4
1513	1 752.6

Table 2.1.4.
RMC/HSDPA/HSUPA/
DC-HSDPA

WCDMA 1900

Ch.	Frequency (MHz)
9262	1 852.4
9400	1 880.0
9538	1 907.6

Table 2.1.5.
RMC/HSDPA/HSUPA/
DC-HSDPA

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**3. Maximum ERP/EIRP power****GSM 850**

Mode	Tx frequency (MHz)	Emission designator	ERP	
			Max. power (dBm)	Max. power (W)
GSM 850 (Voice)	824.2 ~ 848.8	246KGXW	29.91	0.979
GSM 850 (EDGE)	824.2 ~ 848.8	254KG7W	23.68	0.233

GSM 1900

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
GSM 1900 (GPRS)	1 850.2 ~ 1 909.8	248KGXW	32.35	1.718
GSM 1900 (EDGE)	1 850.2 ~ 1 909.8	248KG7W	29.44	0.879

WCDMA 850

Mode	Tx frequency (MHz)	Emission designator	ERP	
			Max. power (dBm)	Max. power (W)
WCDMA 850	826.4 ~ 846.6	4M15F9W	21.03	0.127

WCDMA 1700 / WCDMA 1900

Mode	Tx frequency (MHz)	Emission designator	EIRP	
			Max. power (dBm)	Max. power (W)
WCDMA 1700	1 712.4 ~ 1 752.6	4M18F9W	22.12	0.163
WCDMA 1900	1 852.4 ~ 1 907.6	4M15F9W	25.63	0.366

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(h)	Band Edge Emissions at Antenna Terminal	$< 43 + 10\text{Log}_{10}(P)$ dB		Pass
	Spurious Emissions at Antenna Terminal			Pass
24.232(d) 27.50(d)(5)	Peak to Average Power Ratio	< 13 dB		Pass
2.1055 22.355 24.235 27.54	Frequency stability	< 2.5 ppm		Pass
		Emission must remain in band		
22.913(a)(5)	Effective Radiated Power	< 7 Watts max. ERP	Radiated	Pass
24.232(c)	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(h)	Radiated Spurious Emissions	$< 43 + 10\text{Log}_{10}(P)$ dB		Pass

Notes:

1. The test procedure(s) in this report were performed in accordance as following.
 - ◆ ANSI C63.26-2015
 - ◆ ANSI/TIA-603-E-2016
 - ◆ KDB 971168 D01 v03r01
 - ◆ KDB 971168 D02 v02r01

4.1. Worst case orientation

1. All modes of operation were investigated and the worst case emissions are reported with the EUT positioning, modulations and paging service configurations in the test data.
2. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. After worst orientation is determined per each mode, all final radiated testing was performed with the EUT in worst orientation as below.
 - For GSM850/1900, WCDMA 850/1900: X-axis
 - For WCDMA 1700: Z-axis
3. All the radiated tests have been performed several case. (Stand-alone, with accessories (TA, S-pen, Earphone etc.))
 - Worst case: Stand-alone
4. Test Condition

Band	Test condition	
	Conducted	Radiated
GSM 850	GSM (Voice), EDGE (1 Tx Slot)	GSM (Voice)
GSM 1900	GSM (Voice), EDGE (1 Tx Slot)	GSM (GPRS)
WCDMA 850	RMC (12.2 kbps)	RMC (12.2 kbps)
WCDMA 1700	RMC (12.2 kbps)	RMC (12.2 kbps)
WCDMA 1900	RMC (12.2 kbps)	RMC (12.2 kbps)

5. Measurement uncertainty

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

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets 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	0.9 dB	
Conducted spurious emissions	1.1 dB	
Radiated spurious emissions	Below 1 000 MHz	4.3 dB
	1 000 MHz ~ 18 000 MHz	3.8 dB
	Above 1 8000 MHz	5.9 dB



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6. Measurement results explanation example

Frequency (MHz)	Factor(dB)	Frequency (MHz)	Factor(dB)
30	5.64	11 000	9.50
50	6.07	12 000	9.85
100	6.26	13 000	10.21
200	6.24	14 000	10.31
300	6.43	15 000	10.45
400	6.63	16 000	10.82
500	6.71	17 000	10.83
600	6.77	18 000	11.21
700	6.84	19 000	11.25
800	6.89	20 000	11.93
900	6.95	21 000	11.58
1 000	6.99	22 000	12.48
2 000	7.36	23 000	12.10
3 000	7.62	24 000	11.65
4 000	7.90	25 000	13.02
5 000	8.28	26 000	12.66
6 000	8.71	26 500	11.95
7 000	9.15	27 000	12.28
8 000	9.63	28 000	11.90
9 000	9.22	29 000	12.79
10 000	8.86	30 000	13.97

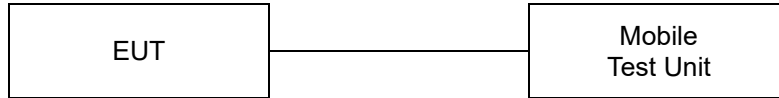
Note.

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.

Notes:

1. Offset(dB) = RF cable loss(dB)

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**Test results**

Maximum Burst-Average Output Power (dBm)										
Test Band	Channel	GSM	GPRS				EDGE			
		Voice	1Tx	2Tx	3Tx	4Tx	1Tx	2Tx	3Tx	4Tx
GSM850	128	32.47	32.46	31.52	29.27	28.01	25.34	24.12	21.84	20.39
	190	33.10	33.09	32.02	29.67	28.21	25.74	24.02	22.09	20.23
	251	33.02	33.00	31.79	30.02	28.56	25.64	24.35	22.10	20.51
GSM1900	512	30.03	30.02	28.90	24.83	24.51	25.22	24.12	21.24	20.02
	661	30.06	30.05	29.04	25.22	24.86	25.31	24.14	21.20	20.01
	810	29.92	29.89	29.02	25.46	25.02	25.38	24.19	21.25	20.01



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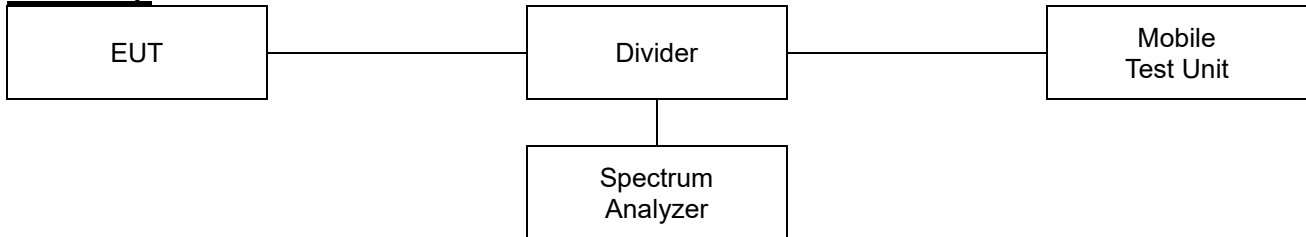
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Test Band	Test mode	Average Conducted Power (dBm)			MPR (dB)
		Frequency (MHz)			
		Low	Middle	High	
WCDMA 850	RMC	23.86	23.87	23.76	-
	HSDPA-Subtest 1	22.78	22.77	22.65	0
	HSDPA-Subtest 2	22.58	22.55	22.37	0
	HSDPA-Subtest 3	21.99	21.76	21.71	0.5
	HSDPA-Subtest 4	21.69	21.70	21.65	0.5
	HSUPA-Subtest 1	22.85	22.82	22.76	0
	HSUPA-Subtest 2	20.87	20.86	20.74	2
	HSUPA-Subtest 3	21.91	21.89	21.81	1
	HSUPA-Subtest 4	20.81	20.84	20.78	2
	HSUPA-Subtest 5	22.86	22.93	22.78	0
	DC-HSDPA-Subtest 1	22.71	22.74	22.77	0
	DC-HSDPA-Subtest 2	22.82	22.81	22.76	0
	DC-HSDPA-Subtest 3	22.37	22.36	22.26	0.5
	DC-HSDPA-Subtest 4	22.34	22.32	22.26	0.5
WCDMA 1700	RMC	23.69	23.70	23.49	-
	HSDPA-Subtest 1	22.66	22.63	22.46	0
	HSDPA-Subtest 2	22.31	22.30	22.32	0
	HSDPA-Subtest 3	21.54	21.54	21.63	0.5
	HSDPA-Subtest 4	21.51	21.53	21.53	0.5
	HSUPA-Subtest 1	22.70	22.17	22.65	0
	HSUPA-Subtest 2	20.72	20.74	20.51	2
	HSUPA-Subtest 3	21.64	21.64	21.58	1
	HSUPA-Subtest 4	20.63	20.62	20.55	2
	HSUPA-Subtest 5	22.67	22.64	22.54	0
	DC-HSDPA-Subtest 1	22.63	22.70	22.52	0
	DC-HSDPA-Subtest 2	22.55	22.70	22.39	0
	DC-HSDPA-Subtest 3	22.08	22.10	21.88	0.5
	DC-HSDPA-Subtest 4	22.06	22.08	21.89	0.5
WCDMA 1900	RMC	23.66	23.63	23.58	-
	HSDPA-Subtest 1	22.58	22.57	22.56	0
	HSDPA-Subtest 2	22.56	22.31	22.12	0
	HSDPA-Subtest 3	21.85	21.62	21.54	0.5
	HSDPA-Subtest 4	21.52	21.51	21.52	0.5
	HSUPA-Subtest 1	22.62	22.63	22.58	0
	HSUPA-Subtest 2	20.60	20.66	20.62	2
	HSUPA-Subtest 3	21.67	21.65	21.56	1
	HSUPA-Subtest 4	20.69	20.66	20.62	2
	HSUPA-Subtest 5	22.69	22.66	22.62	0
	DC-HSDPA-Subtest 1	22.56	22.67	22.63	0
	DC-HSDPA-Subtest 2	22.63	22.62	22.59	0
	DC-HSDPA-Subtest 3	22.08	22.07	22.05	0.5
	DC-HSDPA-Subtest 4	22.12	22.09	22.10	0.5

7.2. 99% Occupied Bandwidth & 26dB Bandwidth

Test setup



Limit

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

Test procedure

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

Test settings

◆ 26dB Bandwidth

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ 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).

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**Test results**

Test mode		Frequency (MHz)	26 dB bandwidth (MHz)	99 % bandwidth (MHz)
GSM 850	Voice	824.2	0.31	0.24
		836.6	0.31	0.25
		848.8	0.30	0.25
	EDGE	824.2	0.32	0.25
		836.6	0.31	0.25
		848.8	0.32	0.25
GSM 1900	Voice	1 850.2	0.30	0.25
		1 880.0	0.31	0.25
		1 909.8	0.31	0.25
	EDGE	1 850.2	0.32	0.25
		1 880.0	0.31	0.24
		1 909.8	0.32	0.24
WCDMA 850	RMC	826.4	4.71	4.15
		836.6	4.74	4.15
		846.6	4.71	4.14
WCDMA 1700	RMC	1 712.4	4.72	4.17
		1 732.4	4.72	4.18
		1 752.6	4.71	4.14
WCDMA 1900	RMC	1 852.4	4.71	4.15
		1 880.0	4.72	4.15
		1 907.6	4.72	4.15

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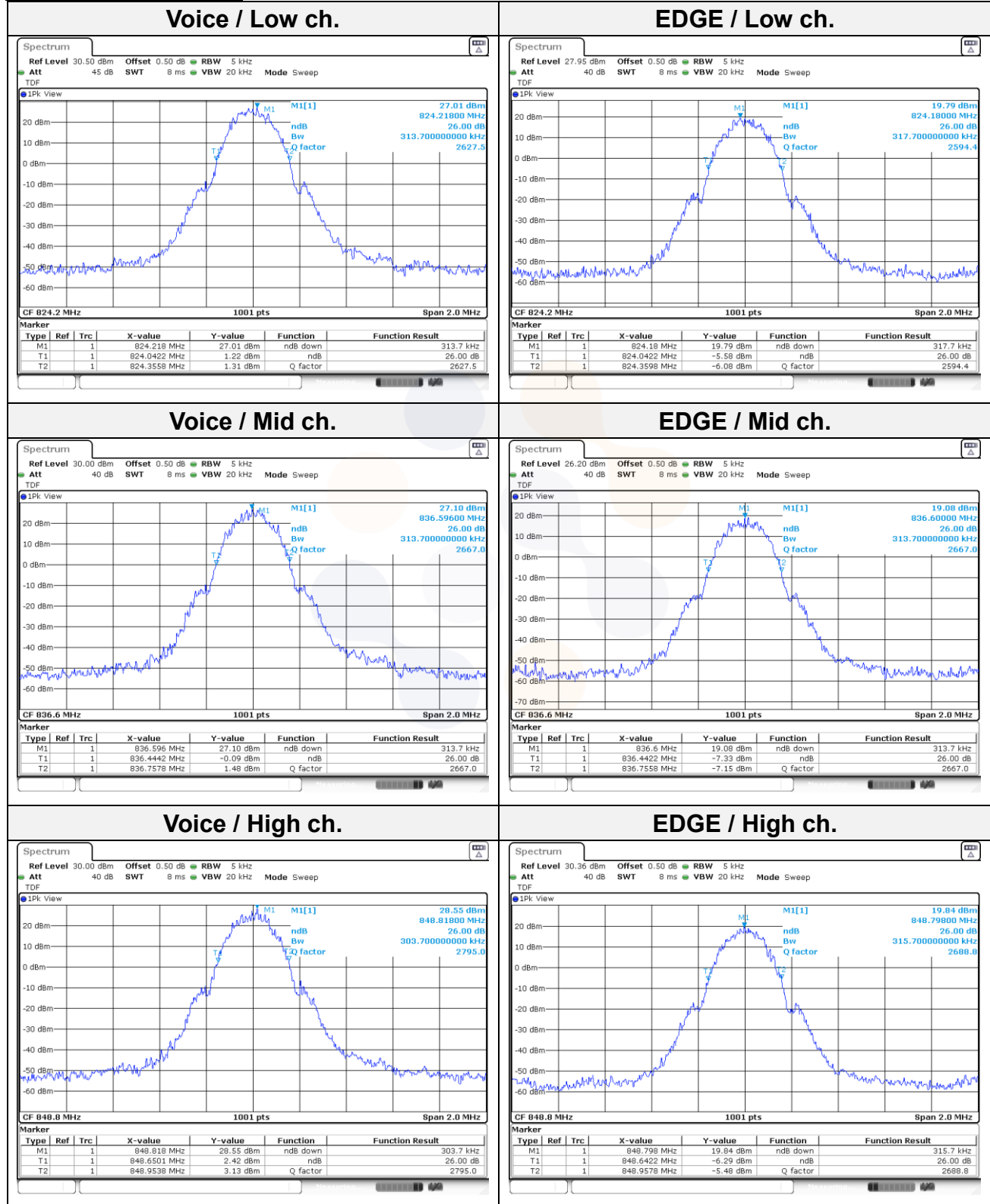
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26dB Bandwidth

Test mode: GSM 850



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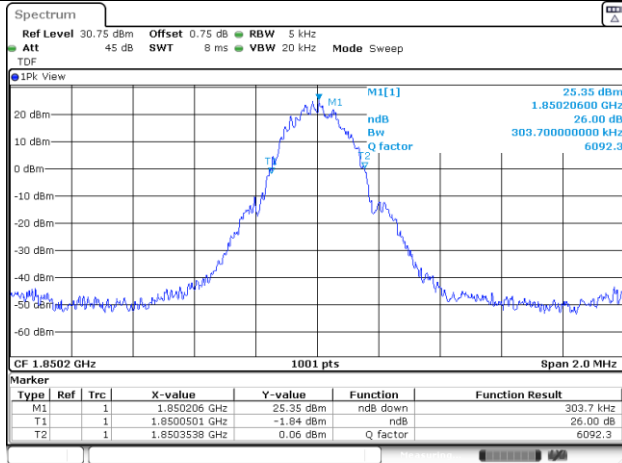
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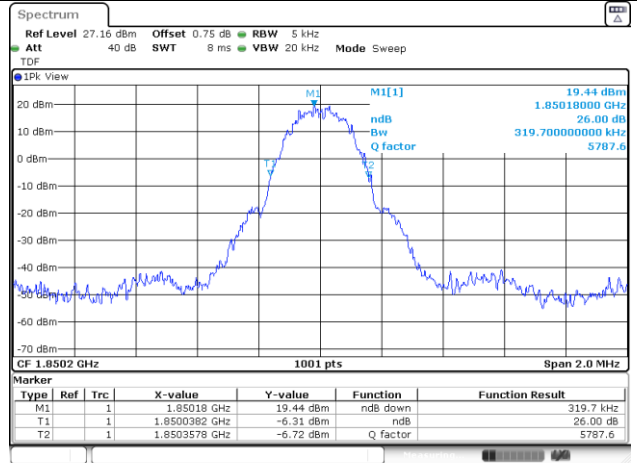


Test mode: GSM 1900

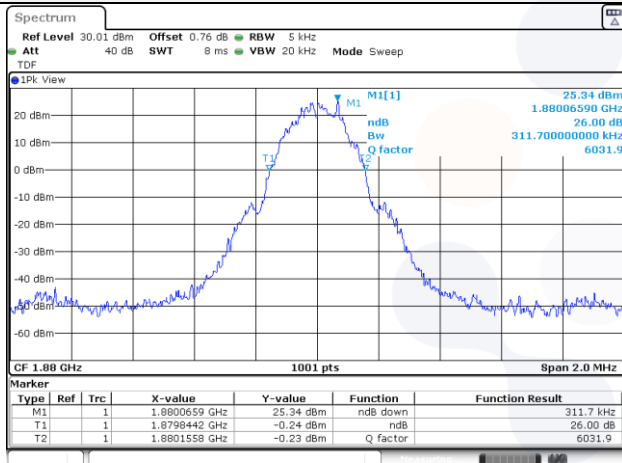
Voice / Low ch.



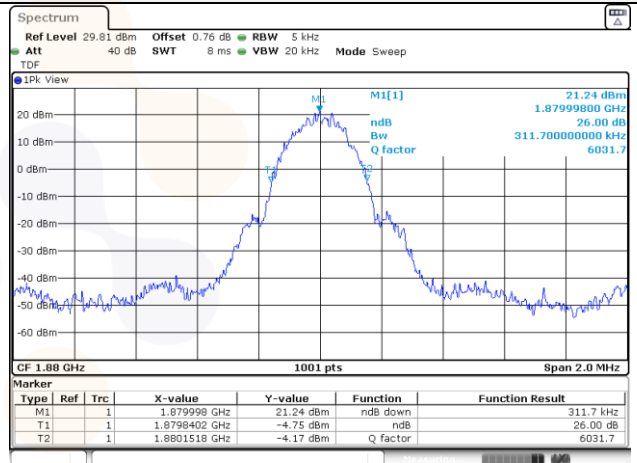
EDGE / Low ch.



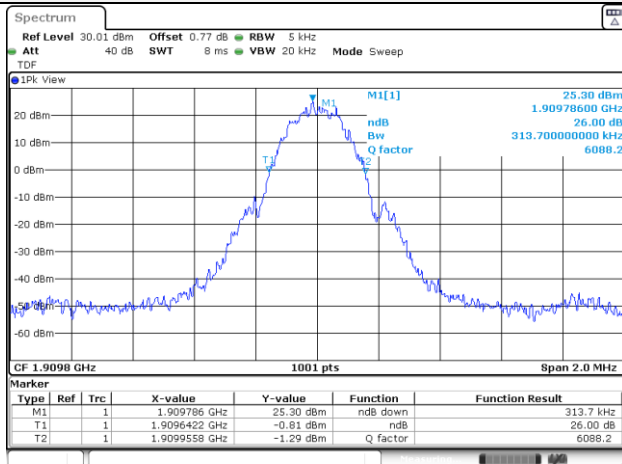
Voice / Mid ch.



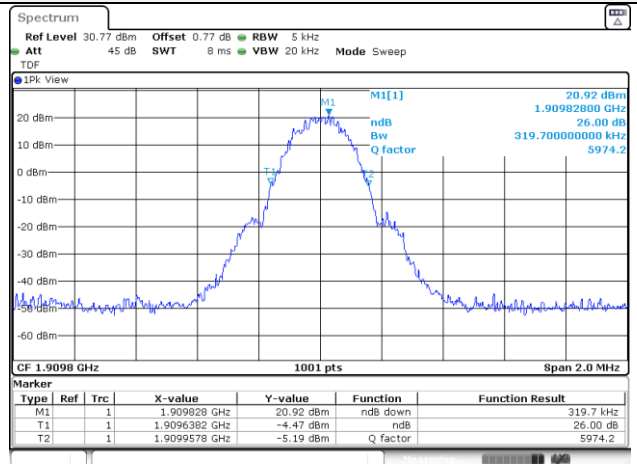
EDGE / Mid ch.



Voice / High ch.



EDGE / High ch.



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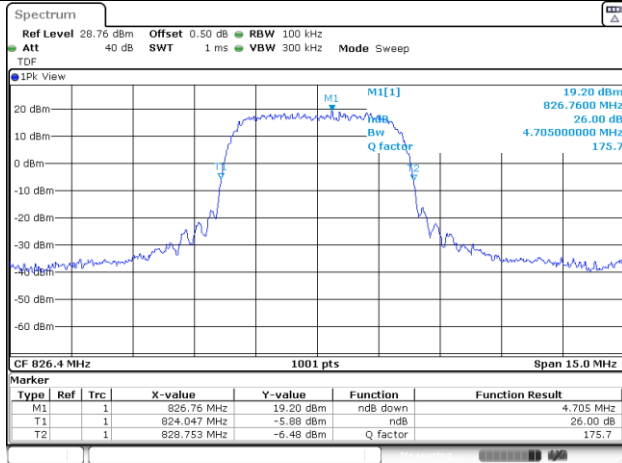
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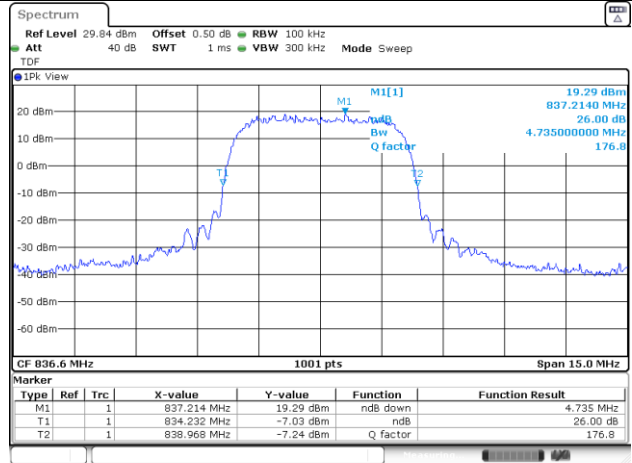


Test mode: WCDMA 850

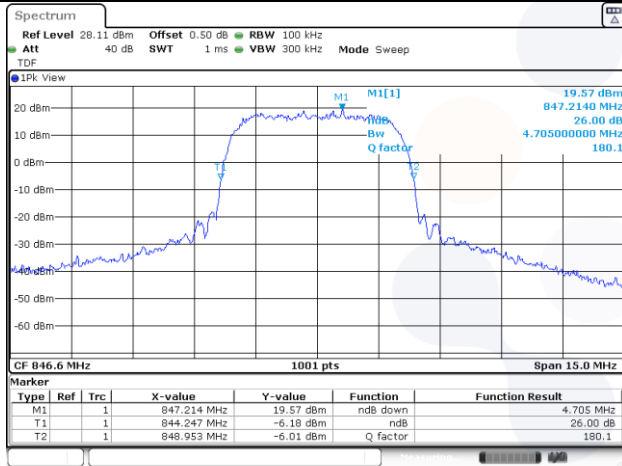
RMC / Low ch.



RMC / Mid ch.



RMC / High ch.



Blank

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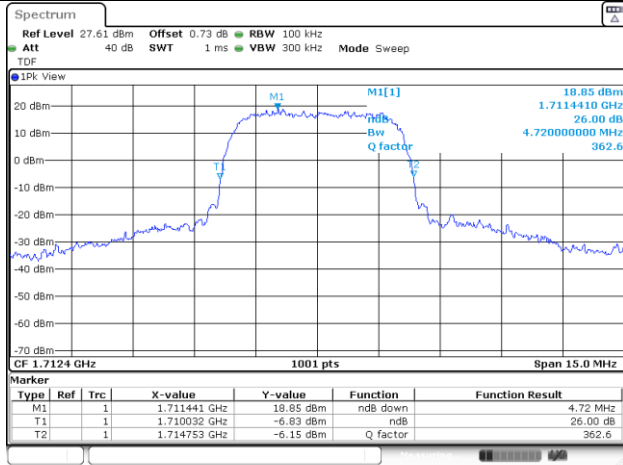
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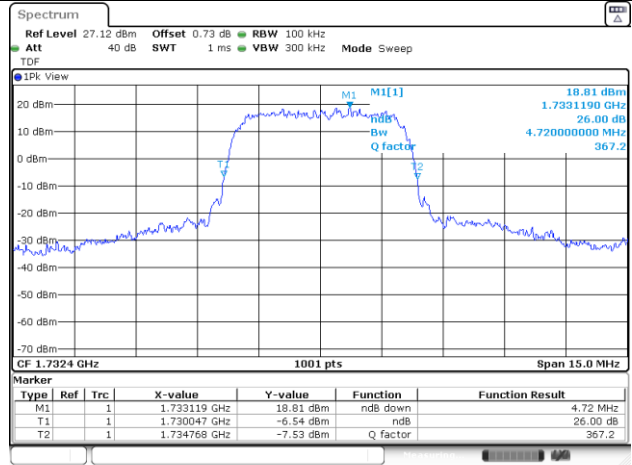


Test mode: WCDMA 1700

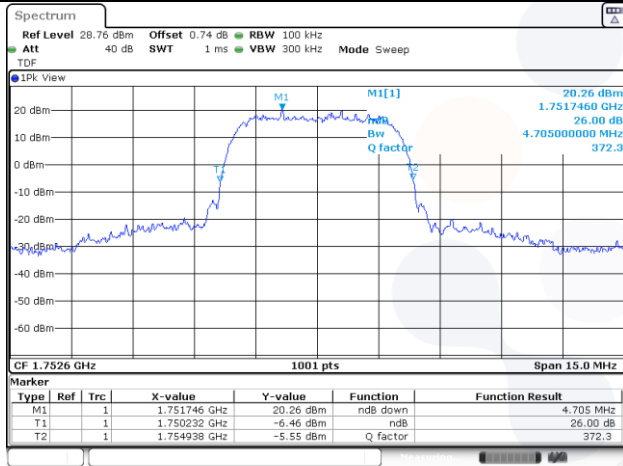
RMC / Low ch.



RMC / Mid ch.



RMC / High ch.



Blank

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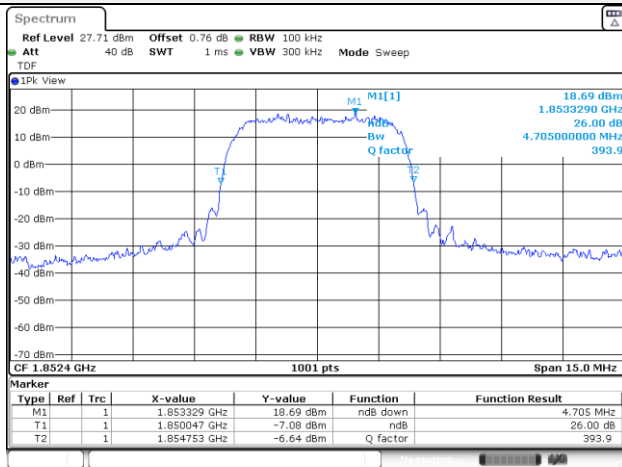
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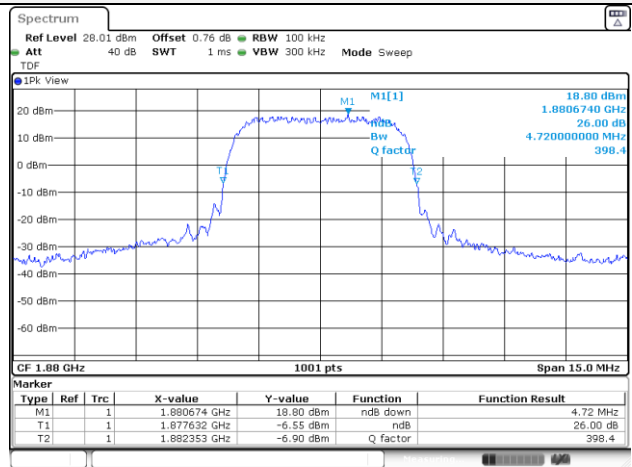


Test mode: WCDMA 1900

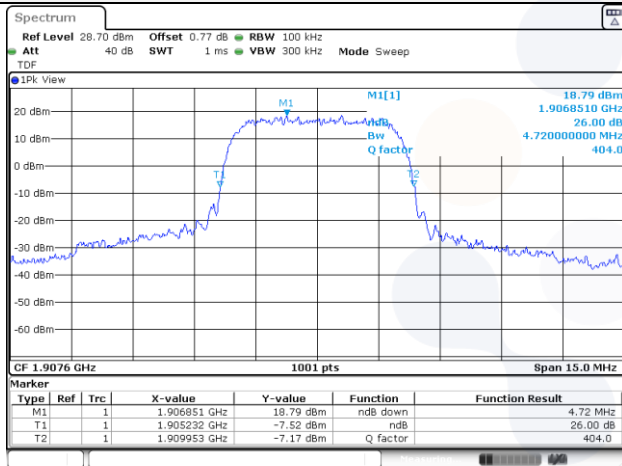
RMC / Low ch.



RMC / Mid ch.



RMC / High ch.



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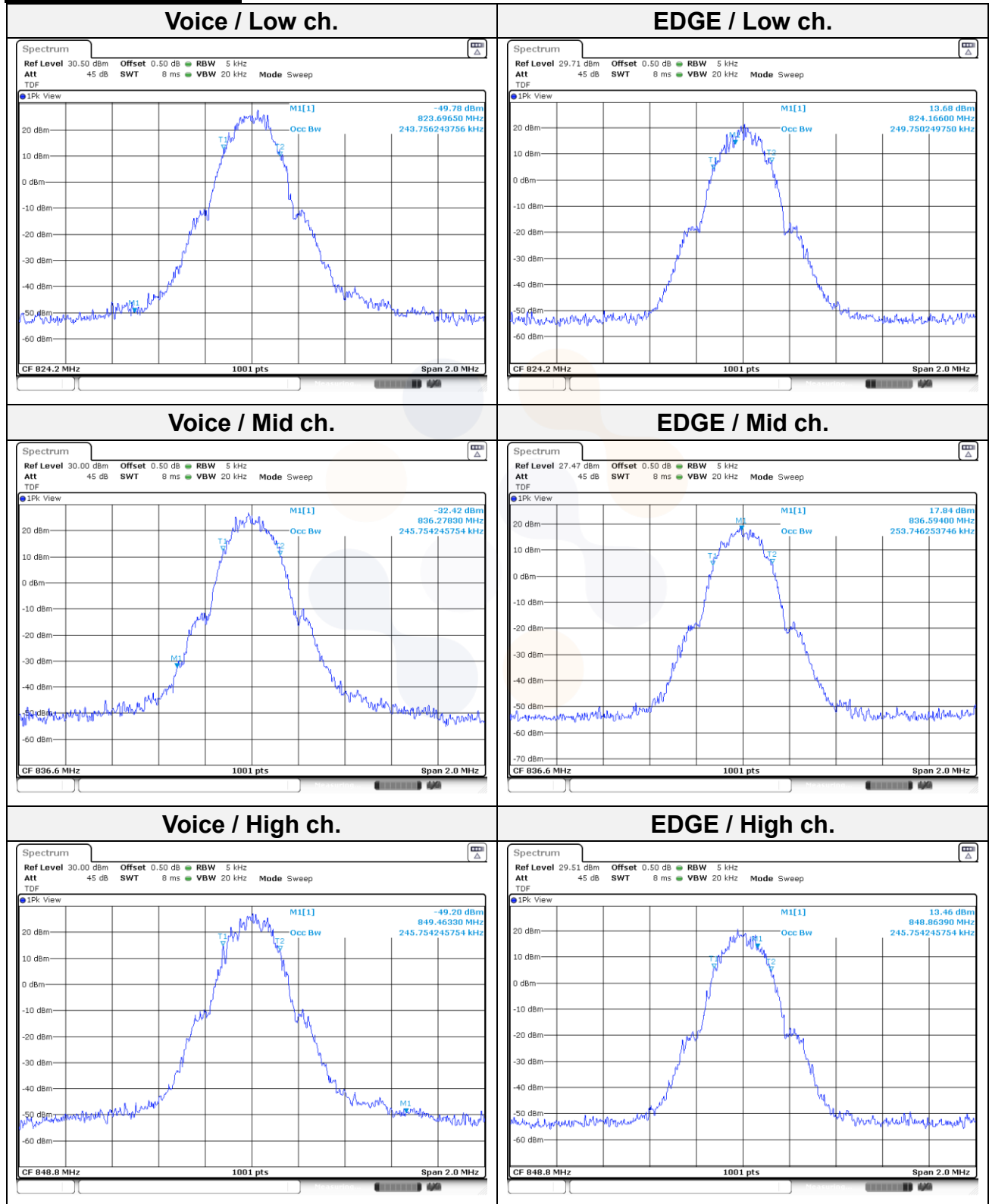
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99% Occupied Bandwidth

Test mode: GSM 850



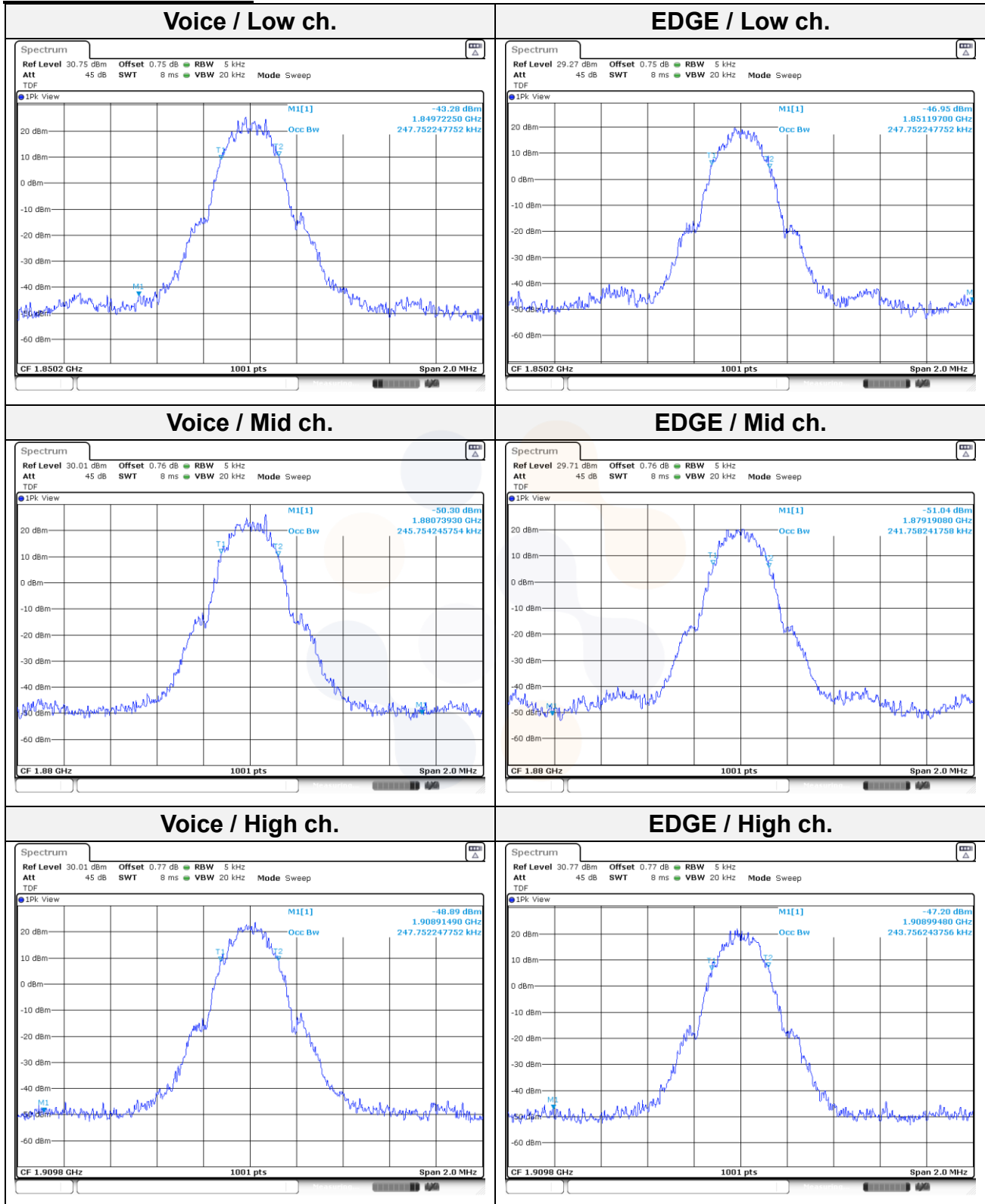
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Test mode: GSM 1900



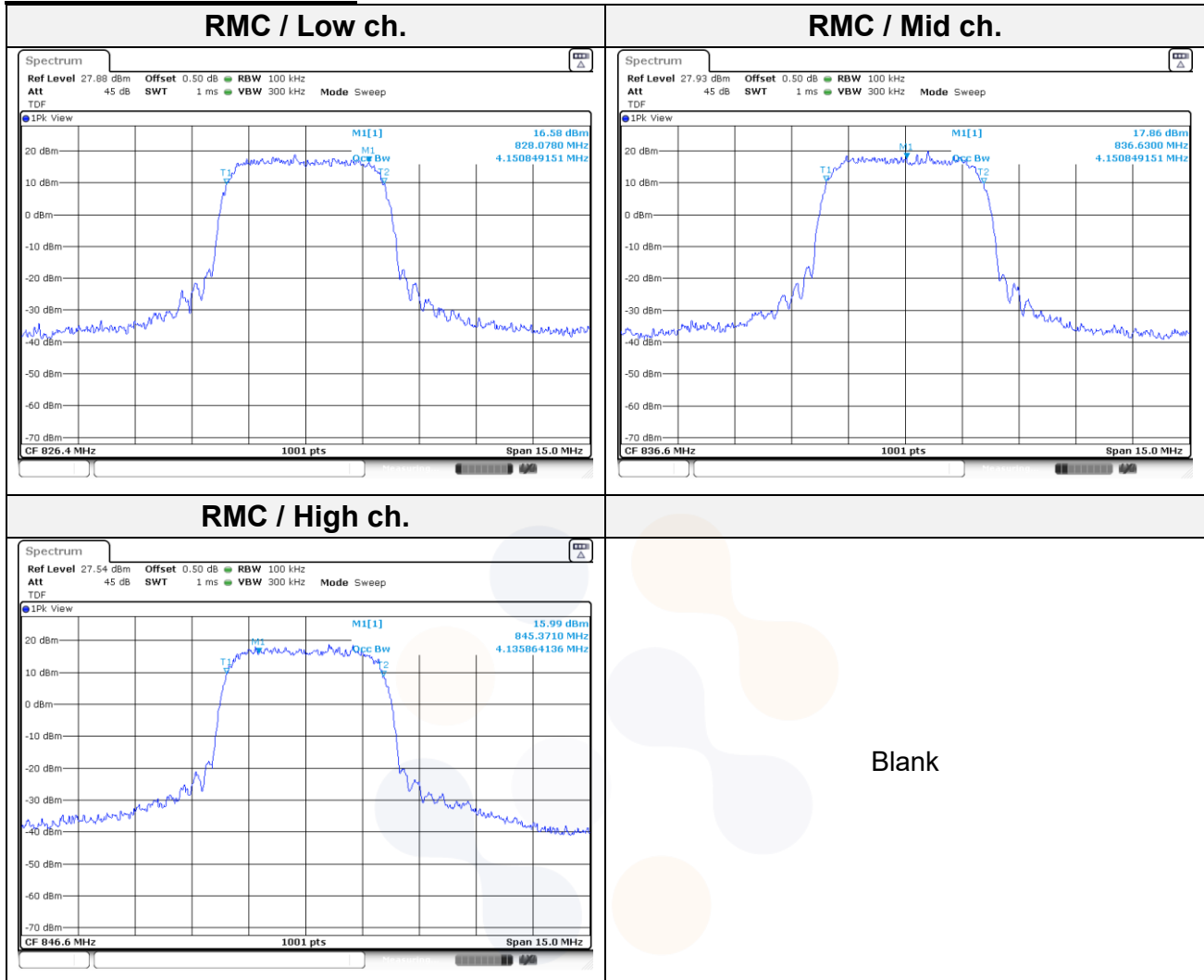
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Test mode: WCDMA 850



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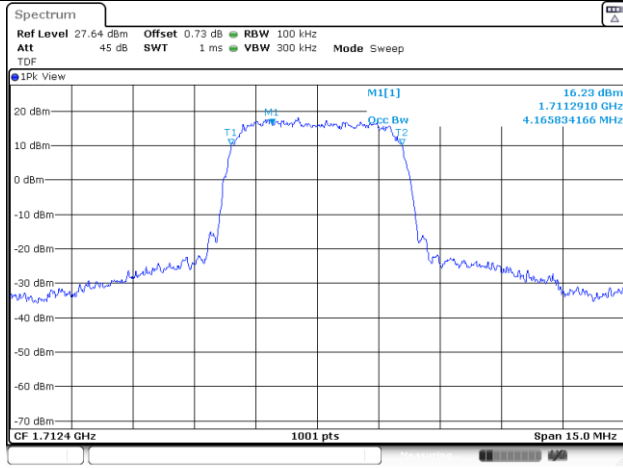
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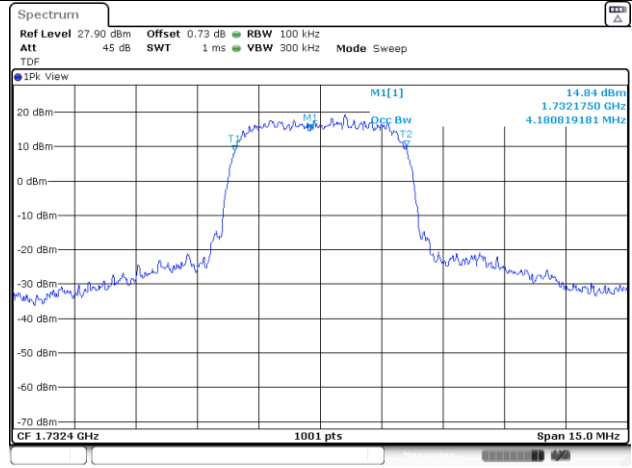


Test mode: WCDMA 1700

RMC / Low ch.



RMC / Mid ch.



RMC / High ch.



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Test mode: WCDMA 1900

