

FCC Test Report

(PART 22)

Report No.: RF150730C47

FCC ID: NM82PQ9100

Test Model: 2PQ9100

Received Date: Jul. 30, 2015

Test Date: Aug. 11, 2015 ~ Aug. 27, 2015

Issued Date: Sep. 17, 2015

Applicant: HTC Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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A D T

Release Control Record

Issue No.	Description	Date Issued
RF150730C47	Original Release	Sep. 17, 2015



1 Certificate of Conformity

Product: Smartphone
Brand: HTC
Test Model: 2PQ9100
Sample Status: Identical Prototype
Applicant: HTC Corporation
Test Date: Aug. 11, 2015 ~ Aug. 27, 2015
Standards: FCC Part 22, Subpart H

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Ivonne Wu , **Date:** Sep. 17, 2015
Ivonne Wu / Supervisor

Approved by : Kay Wu , **Date:** Sep. 17, 2015
Kay Wu / Supervisor

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective radiated power	PASS	Meet the requirement of limit.
---	Peak To Average Ratio	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -33.19dB at 193.89MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	2.0153 dB
	200MHz ~1000MHz	2.0224 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.0121 dB
	18GHz ~ 40GHz	1.1508 dB

2.2 Test Site And Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 04, 2015	Feb. 04, 2016
HORN Antenna ETS-Lindgren	3117	00143293	Jan. 05, 2015	Jan. 04, 2016
Bluetooth Tester	CBT	100980	Apr. 27, 2015	Apr. 26, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier Agilent	310N	187226	Jun. 29, 2015	Jun. 28, 2016
Preamplifier Agilent	83017A	MY39501357	Jun. 29, 2015	Jun. 28, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 17, 2014	Sep. 16, 2015
Power Sensor Anritsu	MA2411B	1207325	Sep. 17, 2014	Sep. 16, 2015
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 27, 2015	Jun. 26, 2016
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 27, 2015	Jun. 26, 2016
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 10, 2015	Aug. 09, 2017

- Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HsinTien Chamber 1.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 149147.
5. The IC Site Registration No. is IC7450I-1.

3 General Information

3.1 General Description of EUT

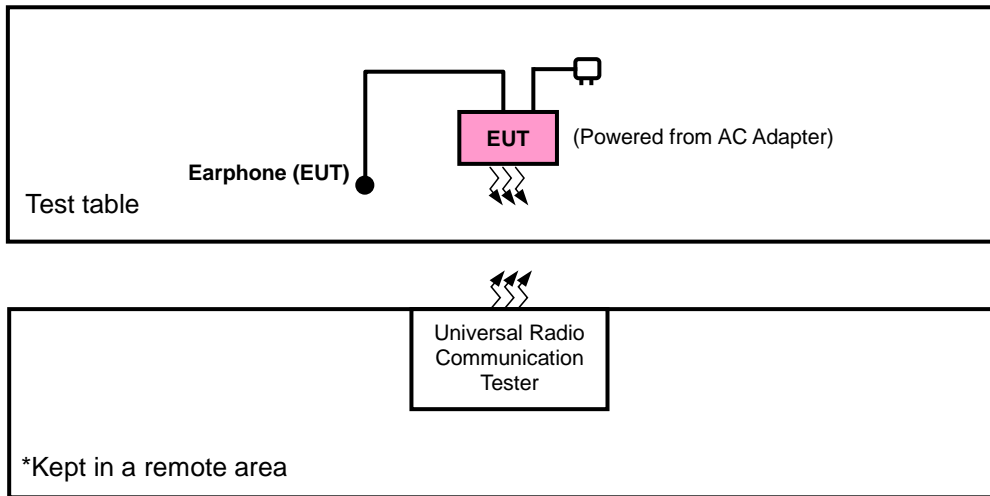
Product	Smartphone	
Brand	HTC	
Test Model	2PQ9100	
Status of EUT	Identical Prototype	
Power Supply Rating	5.0Vdc (adapter or host equipment) 3.85Vdc (Li-ion battery)	
Modulation Type	GSM/GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	BPSK
	LTE	QPSK, 16QAM
Frequency Range	GSM/GPRS/EDGE	824.2 ~ 848.8 MHz
	WCDMA	826.4 ~ 846.6 MHz
	LTE 5 (Channel Bandwidth: 1.4MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10MHz)	829 ~ 844 MHz
Max. ERP Power	GSM/GPRS	734.18mW
	EDGE	184.16mW
	WCDMA	91.37mW
	LTE 5 (Channel Bandwidth: 1.4MHz)	77.48mW
	LTE 5 (Channel Bandwidth: 3MHz)	84.18mW
	LTE 5 (Channel Bandwidth: 5MHz)	80.91mW
	LTE 5 (Channel Bandwidth: 10MHz)	90.32mW
Emission Designator	GSM/GPRS	247KGXW
	EDGE	248KG7W
	WCDMA	4M13F9W
	LTE 5 (Channel Bandwidth: 1.4MHz)	1M09G7D
	LTE 5 (Channel Bandwidth: 3MHz)	2M69G7D
	LTE 5 (Channel Bandwidth: 5MHz)	4M48G7D
	LTE 5 (Channel Bandwidth: 10MHz)	8M95G7D
Antenna Type	Fixed Internal Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

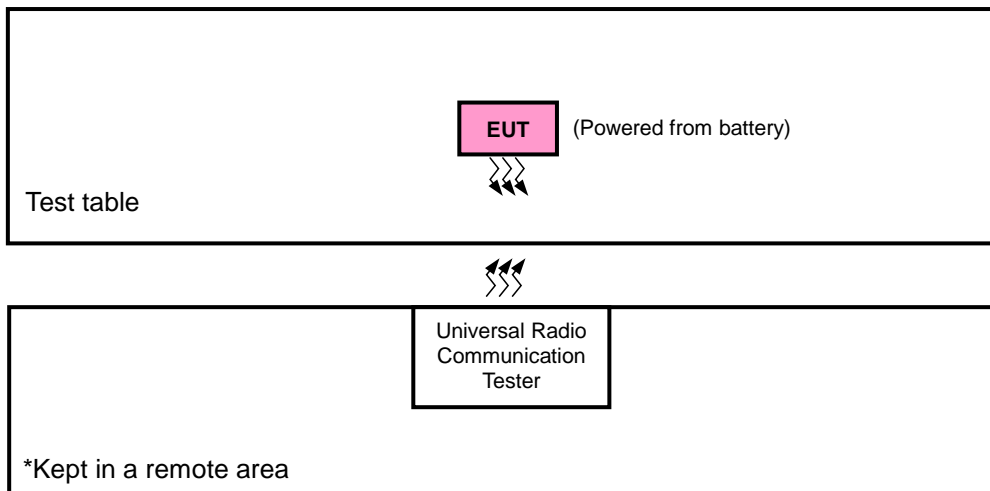
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System Under Test

<Radiated Emission Test>



<E.R.P. Test>



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	ERP	Radiated Emission
GSM	Y-plane	X-axis
EDGE	Y-plane	X-axis
WCDMA	Y-plane	X-axis
LTE Band 5	Y-plane	Y-axis

GSM MODE

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	128 to 251	128, 189, 251	GSM, EDGE
-	Frequency Stability	128 to 251	189	GSM, EDGE
-	Occupied Bandwidth	128 to 251	128, 189, 251	GSM, EDGE
-	Band Edge	128 to 251	128, 251	GSM, EDGE
-	Peak to Average Ratio	128 to 251	128, 189, 251	GSM, EDGE
-	Condcudeted Emission	128 to 251	128	GSM, EDGE
-	Radiated Emission	128 to 251	128	GSM, EDGE

WCDMA MODE

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
-	Frequency Stability	4132 to 4233	4182	WCDMA
-	Occupied Bandwidth	4132 to 4233	4132, 4182, 4233	WCDMA
-	Band Edge	4132 to 4233	4132, 4233	WCDMA
-	Peak to Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA
-	Condcudeted Emission	4132 to 4233	4182	WCDMA
-	Radiated Emission	4132 to 4233	4132	WCDMA

LTE BAND 5 MODE

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode		
-	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 2 RB Offset		
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 7 RB Offset		
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset		
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset		
-	Frequency Stability	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 2 RB Offset		
		20415 to 20635	20525	3MHz	QPSK	1 RB / 7 RB Offset		
		20425 to 20625	20525	5MHz	QPSK	1 RB / 12 RB Offset		
		20450 to 20600	20525	10MHz	QPSK	1 RB / 24 RB Offset		
-	Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset		
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset		
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset		
-	Band Edge	20407 to 20643	20407	1.4MHz	QPSK	1 RB / 0 RB Offset 6 RB / 0 RB Offset		
			20643	1.4MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset		
		20415 to 20635	20415	3MHz	QPSK	1 RB / 0 RB Offset 15 RB / 0 RB Offset		
			20635	3MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset		
		20425 to 20626	20425	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			20600	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		20450 to 20600	20450	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			20600	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		-	Peak To Average Ratio	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
				20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
				20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
				20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
-	Conducted Emission	20407 to 20643	20525	1.4MHz	QPSK	1 RB / 2 RB Offset		
		20415 to 20635	20525	3MHz	QPSK	1 RB / 7 RB Offset		
		20425 to 20625	20525	5MHz	QPSK	1 RB / 12 RB Offset		
		20450 to 20600	20525	10MHz	QPSK	1 RB / 24 RB Offset		
-	Radiated Emission	20450 to 20600	20525	10MHz	QPSK	1 RB / 24 RB Offset		

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	25deg. C, 65%RH	3.85Vdc	Charles Hsiao
Frequency Stability	25deg. C, 65%RH	3.85Vdc	Carlos Chen
Occupied Bandwidth	25deg. C, 65%RH	3.85Vdc	Carlos Chen
Band Edge	25deg. C, 65%RH	3.85Vdc	Carlos Chen
Peak to Average Ratio	25deg. C, 65%RH	3.85Vdc	Carlos Chen
Concludeted Emission	25deg. C, 65%RH	3.85Vdc	Carlos Chen
Radiated Emission	25deg. C, 65%RH	120Vac, 60Hz	Charles Hsiao / Karl Lee

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

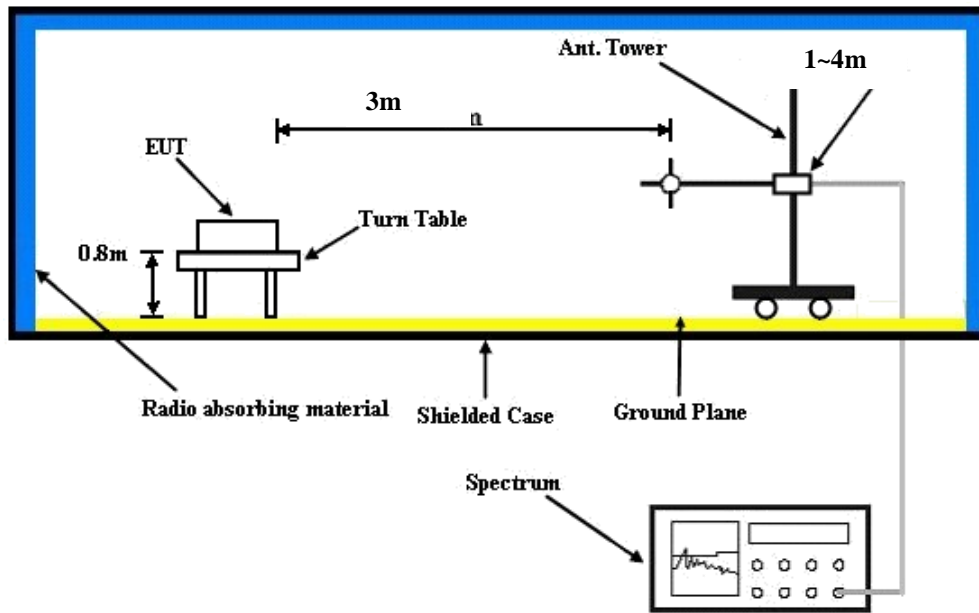
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15\text{dBi}$.

Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

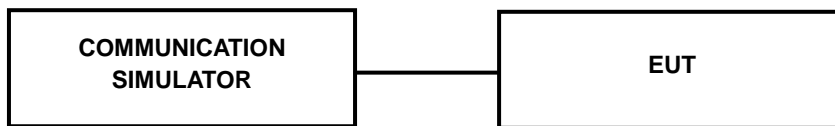
4.1.3 Test Setup

EIRP / ERP MEASUREMENT:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

CONDUCTED POWER MEASUREMENT:



4.1.4 Test Results
CONDUCTED OUTPUT POWER (dBm)

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	32.26	32.50	32.38
GPRS 8	32.32	32.42	32.50
GPRS 10	30.70	30.73	30.75
GPRS 11	29.42	29.40	29.37
GPRS 12	28.28	28.34	28.20
EDGE 8	26.24	26.32	26.40
EDGE 10	25.95	26.03	26.11
EDGE 11	25.28	25.36	25.44
EDGE 12	23.17	23.25	23.33
DTM 9 (GPRS)	30.40	30.56	30.69
DTM 11 (GPRS)	29.02	29.21	29.33
DTM 9 (EDGE)	24.46	24.68	24.93
DTM 11 (EDGE)	23.84	24.03	24.37

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.31	23.49	23.27
HSDPA Subtest-1	22.77	22.40	22.31
HSDPA Subtest-2	22.66	22.44	22.32
HSDPA Subtest-3	22.24	21.94	21.82
HSDPA Subtest-4	22.15	21.93	21.81
HSUPA Subtest-1	22.89	22.66	22.34
HSUPA Subtest-2	20.83	20.62	20.33
HSUPA Subtest-3	21.85	21.64	21.35
HSUPA Subtest-4	20.86	20.65	20.36
HSUPA Subtest-5	22.78	22.57	22.28

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20407	Mid Ch 20525	High Ch 20643		Low Ch 20407	Mid Ch 20525	High Ch 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	22.59	22.41	22.66	0	21.82	21.64	21.89	1
	1	2	22.78	22.97	22.92	0	22.01	22.20	22.15	1
	1	5	22.71	22.49	22.58	0	21.94	21.72	21.81	1
	3	0	22.85	22.60	22.92	0	22.08	21.83	22.15	1
	3	1	22.85	22.66	22.86	0	22.08	21.89	22.09	1
	3	3	22.73	22.75	22.87	0	21.96	21.98	22.10	1
	6	0	21.86	21.71	21.89	1	21.09	20.94	21.12	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20415	Mid Ch 20525	High Ch 20635		Low Ch 20415	Mid Ch 20525	High Ch 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	22.76	22.58	22.83	0	21.90	21.72	21.97	1
	1	7	22.95	23.14	23.09	0	22.09	22.28	22.23	1
	1	14	22.88	22.66	22.75	0	22.02	21.80	21.89	1
	8	0	22.02	21.77	22.09	1	21.16	20.91	21.23	2
	8	3	22.02	21.83	22.03	1	21.16	20.97	21.17	2
	8	7	21.90	21.92	22.04	1	21.04	21.06	21.18	2
	15	0	22.03	21.88	22.06	1	21.17	21.02	21.20	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20425	Mid Ch 20525	High Ch 20625		Low Ch 20425	Mid Ch 20525	High Ch 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	22.89	22.71	22.96	0	21.95	21.77	22.02	1
	1	12	23.08	23.27	23.22	0	22.14	22.33	22.28	1
	1	24	23.01	22.79	22.88	0	22.07	21.85	21.94	1
	12	0	22.15	21.90	22.22	1	21.21	20.96	21.28	2
	12	6	22.15	21.96	22.16	1	21.21	21.02	21.22	2
	12	13	22.03	22.05	22.17	1	21.09	21.11	21.23	2
	25	0	22.16	22.01	22.19	1	21.22	21.07	21.25	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20450	Mid Ch 20525	High Ch 20600		Low Ch 20450	Mid Ch 20525	High Ch 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
5 / 10M	1	0	23.06	22.88	23.13	0	21.97	21.79	22.04	1
	1	24	23.25	23.44	23.39	0	22.16	22.35	22.30	1
	1	49	23.18	22.96	23.05	0	22.09	21.87	21.96	1
	25	0	22.32	22.07	22.39	1	21.23	20.98	21.30	2
	25	12	22.32	22.13	22.33	1	21.23	21.04	21.24	2
	25	25	22.20	22.22	22.34	1	21.11	21.13	21.25	2
	50	0	22.33	22.18	22.36	1	21.24	21.09	21.27	2

ERP POWER (dBm)

GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	128	824.2	-0.40	31.208	28.66	734.18	H
	189	836.4	-0.54	31.3	28.61	726.11	
	251	848.8	-1.16	31.222	27.91	618.30	
	128	824.2	-6.64	31.504	22.71	186.81	V
	189	836.4	-5.89	31.117	23.08	203.10	
	251	848.8	-6.64	31.922	23.13	205.68	

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	128	824.2	-6.58	31.208	22.48	176.93	H
	189	836.4	-6.74	31.3	22.41	174.18	
	251	848.8	-6.42	31.222	22.65	184.16	
	128	824.2	-12.75	31.504	16.60	45.75	V
	189	836.4	-11.75	31.117	17.22	52.69	
	251	848.8	-12.92	31.922	16.85	48.44	

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	4132	826.4	-9.45	31.208	19.61	91.37	H
	4182	836.4	-10.04	31.3	19.11	81.47	
	4233	846.6	-10.16	31.222	18.91	77.84	
	4132	826.4	-15.31	31.504	14.04	25.37	V
	4182	836.4	-15.43	31.117	13.54	22.58	
	4233	846.6	-15.59	31.922	14.18	26.19	

LTE Band 5							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20407	824.7	-10.28	31.208	18.78	75.47	H
	20525	836.5	-10.92	31.3	18.23	66.53	
	20643	848.3	-10.18	31.222	18.89	77.48	
	20407	824.7	-15.95	31.504	13.40	21.90	V
	20525	836.5	-15.83	31.117	13.14	20.59	
	20643	848.3	-16.09	31.922	13.68	23.35	

LTE Band 5							
Channel Bandwidth: 1.4MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20407	824.7	-11.35	31.208	17.71	58.99	H
	20525	836.5	-11.71	31.3	17.44	55.46	
	20643	848.3	-10.78	31.222	18.29	67.48	
	20407	824.7	-16.99	31.504	12.36	17.23	V
	20525	836.5	-16.00	31.117	12.97	19.80	
	20643	848.3	-17.44	31.922	12.33	17.11	

LTE Band 5							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20415	825.5	-10.41	31.208	18.65	73.25	H
	20525	836.5	-10.04	31.3	19.11	81.47	
	20635	847.5	-9.82	31.222	19.25	84.18	
	20415	825.5	-15.99	31.504	13.36	21.70	V
	20525	836.5	-14.97	31.117	14.00	25.10	
	20635	847.5	-16.45	31.922	13.32	21.49	

LTE Band 5							
Channel Bandwidth: 3MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20415	825.5	-11.45	31.208	17.61	57.65	H
	20525	836.5	-11.13	31.3	18.02	63.39	
	20635	847.5	-11.62	31.222	17.45	55.62	
	20415	825.5	-16.97	31.504	12.38	17.31	V
	20525	836.5	-16.09	31.117	12.88	19.40	
	20635	847.5	-16.48	31.922	13.29	21.34	

LTE Band 5							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20425	826.5	-10.44	31.208	18.62	72.74	H
	20525	836.5	-10.07	31.3	19.08	80.91	
	20625	846.5	-10.39	31.222	18.68	73.82	
	20425	826.5	-15.79	31.504	13.56	22.72	V
	20525	836.5	-14.97	31.117	14.00	25.10	
	20625	846.5	-16.18	31.922	13.59	22.87	

LTE Band 5							
Channel Bandwidth: 5MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20425	826.5	-11.41	31.208	17.65	58.18	H
	20525	836.5	-11.09	31.3	18.06	63.97	
	20625	846.5	-11.50	31.222	17.57	57.17	
	20425	826.5	-16.08	31.504	13.27	21.25	V
	20525	836.5	-15.97	31.117	13.00	19.94	
	20625	846.5	-17.07	31.922	12.70	18.63	

LTE Band 5							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20450	829.0	-9.50	31.208	19.56	90.32	H
	20525	836.5	-9.99	31.3	19.16	82.41	
	20600	844.0	-10.08	31.222	18.99	79.29	
	20450	829.0	-15.62	31.504	13.73	23.63	V
	20525	836.5	-14.97	31.117	14.00	25.10	
	20600	844.0	-15.67	31.922	14.10	25.72	

LTE Band 5							
Channel Bandwidth: 10MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	20450	829.0	-10.60	31.208	18.46	70.11	H
	20525	836.5	-11.04	31.3	18.11	64.71	
	20600	844.0	-11.10	31.222	17.97	62.69	
	20450	829.0	-16.18	31.504	13.17	20.77	V
	20525	836.5	-15.81	31.117	13.16	20.69	
	20600	844.0	-16.96	31.922	12.81	19.11	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

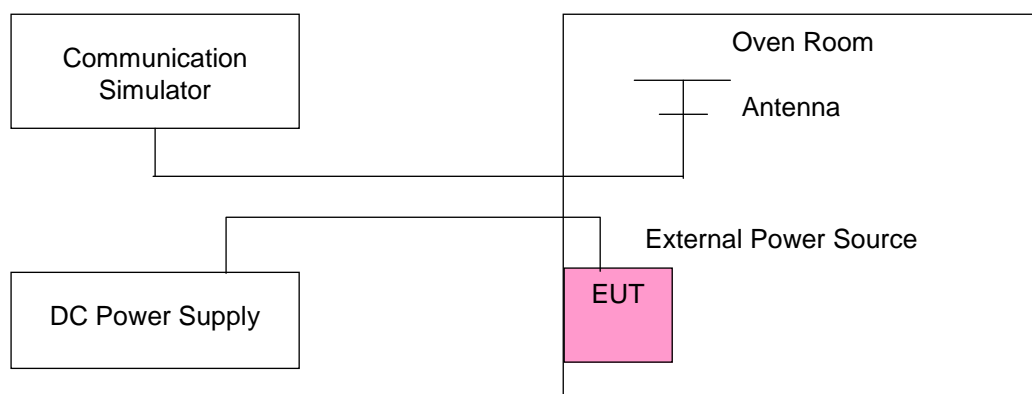
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 Test Setup



4.2.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (ppm)							Limit (ppm)
	GSM	EDGE	WCDMA	LTE Band 5				
				1.4MHz	3MHz	5MHz	10MHz	
3.85	0.0008	0.0003	0.0011	0.00078	0.00157	0.00020	0.00335	2.5
3.6	0.0032	0.0026	0.0015	0.00307	0.00006	0.00448	0.00004	2.5
4.4	0.0047	0.0035	0.0022	0.00244	0.00069	0.00412	0.00026	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.4Vdc.

Frequency Error vs. Temperature

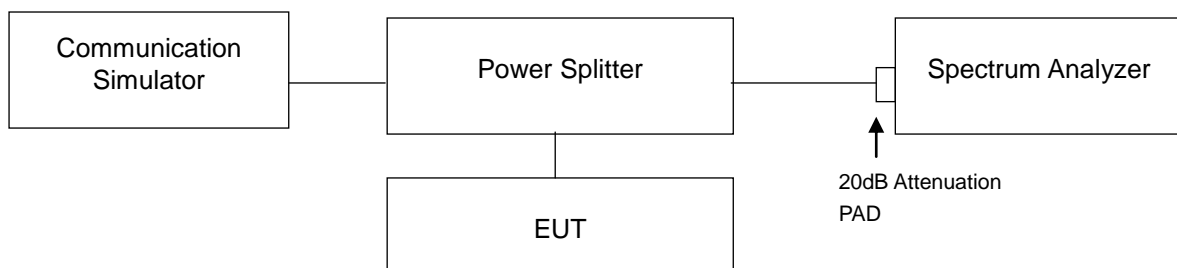
Temp. (°C)	Frequency Error (ppm)							Limit (ppm)
	GSM	EDGE	WCDMA	LTE Band 5				
				1.4MHz	3MHz	5MHz	10MHz	
-30	0.0018	0.0087	-0.0050	0.00215	-0.00490	-0.00383	-0.00263	2.5
-20	0.0001	0.0027	0.0003	0.00080	0.00308	0.00166	0.00067	2.5
-10	0.0041	0.0047	0.0029	0.00110	0.00065	0.00471	0.00096	2.5
0	0.0008	0.0022	0.0002	0.00106	0.00183	0.00246	0.00353	2.5
10	0.0031	0.0019	0.0036	0.00051	0.00386	0.00010	0.00299	2.5
20	-0.0017	-0.0043	-0.0018	-0.00379	-0.00398	-0.00397	-0.00441	2.5
30	-0.0001	-0.0013	-0.0029	-0.00170	-0.00202	-0.00466	-0.00343	2.5
40	-0.0006	-0.0012	-0.0006	-0.00458	-0.00035	-0.00412	-0.00323	2.5
50	-0.0042	-0.0022	-0.0039	-0.00287	-0.00280	-0.00155	-0.00343	2.5
60	-0.0025	-0.0036	-0.0024	-0.00423	-0.00128	-0.00348	-0.00239	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

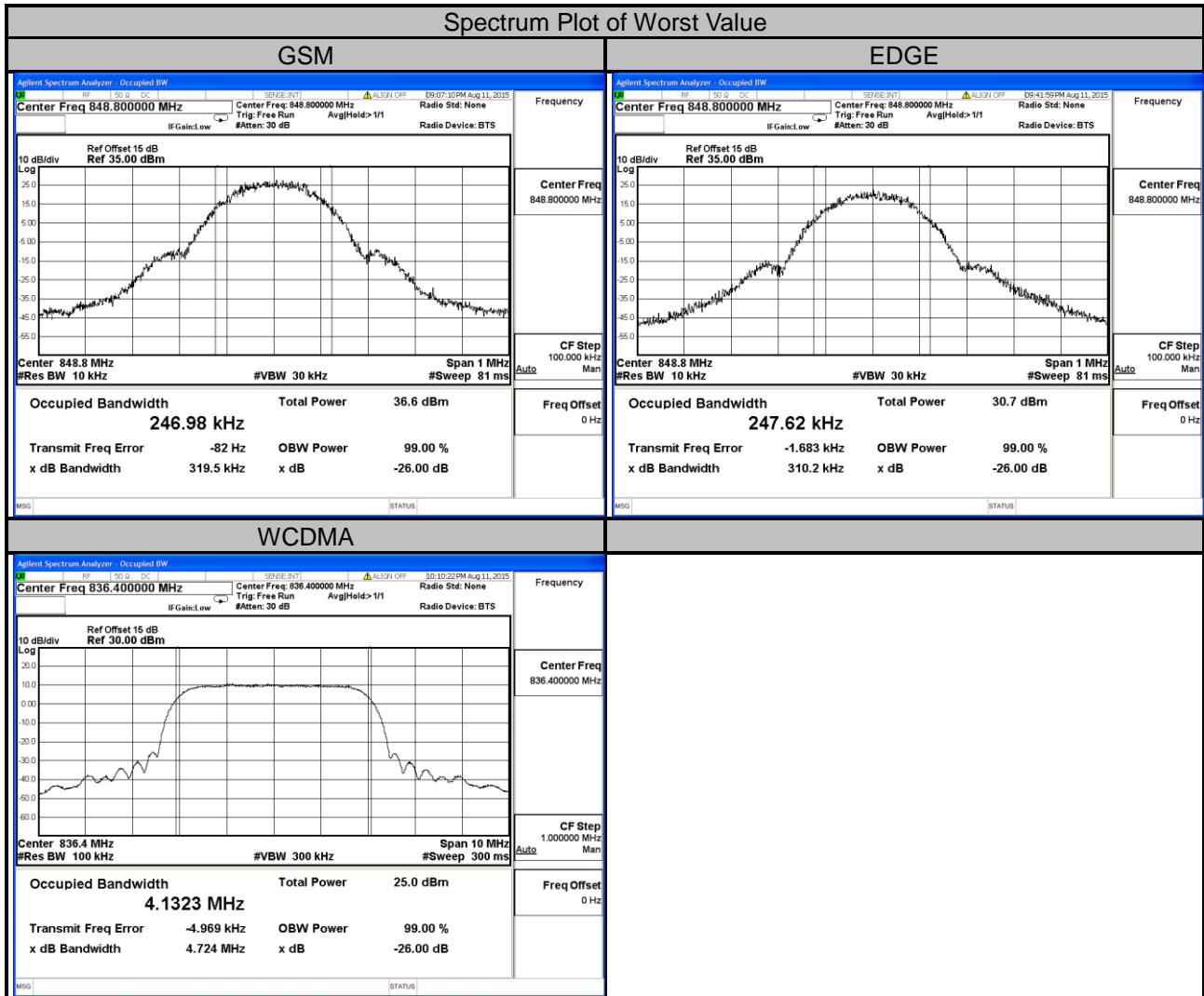
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.2 Test Setup



4.3.3 Test Result

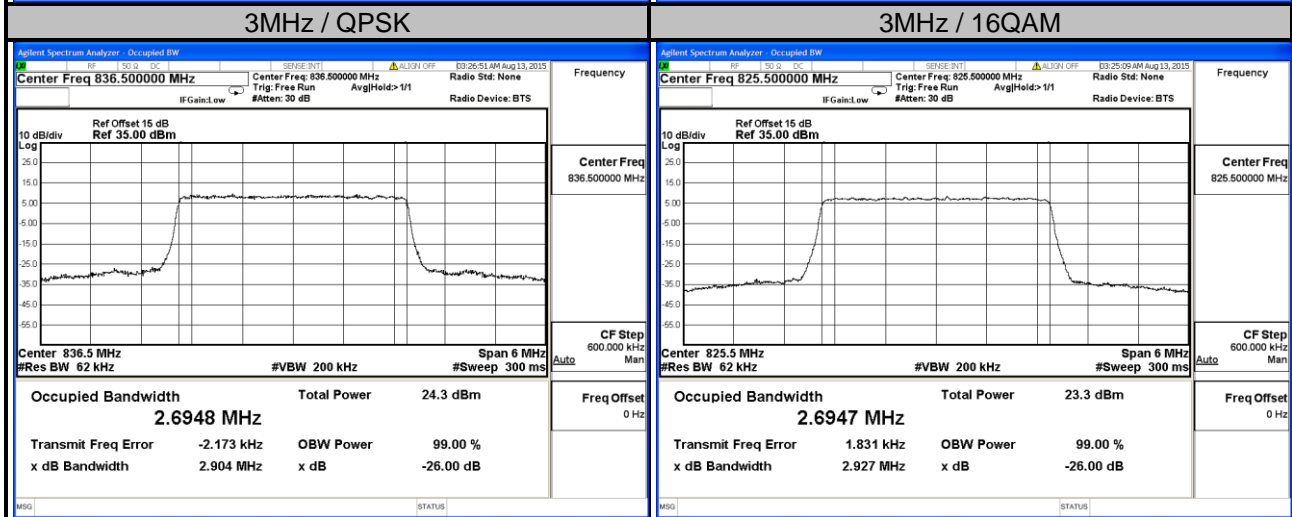
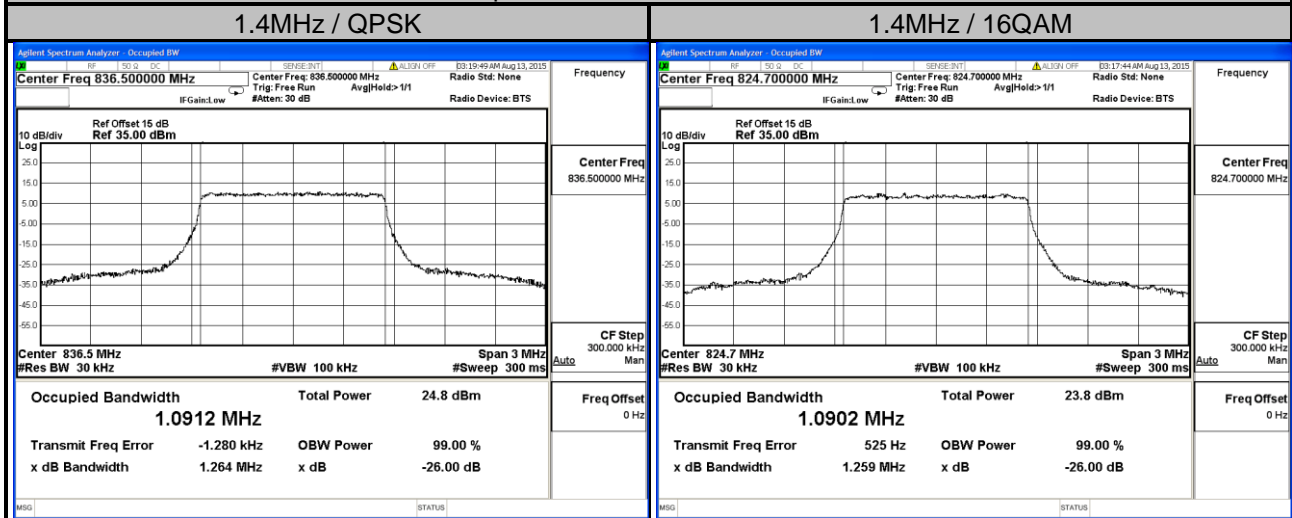
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
		GSM	EDGE			
128	824.2	246.48	244.15	4132	826.4	4.1319
189	836.4	243.03	244.99	4182	836.4	4.1323
251	848.8	246.98	247.62	4233	846.6	4.1250





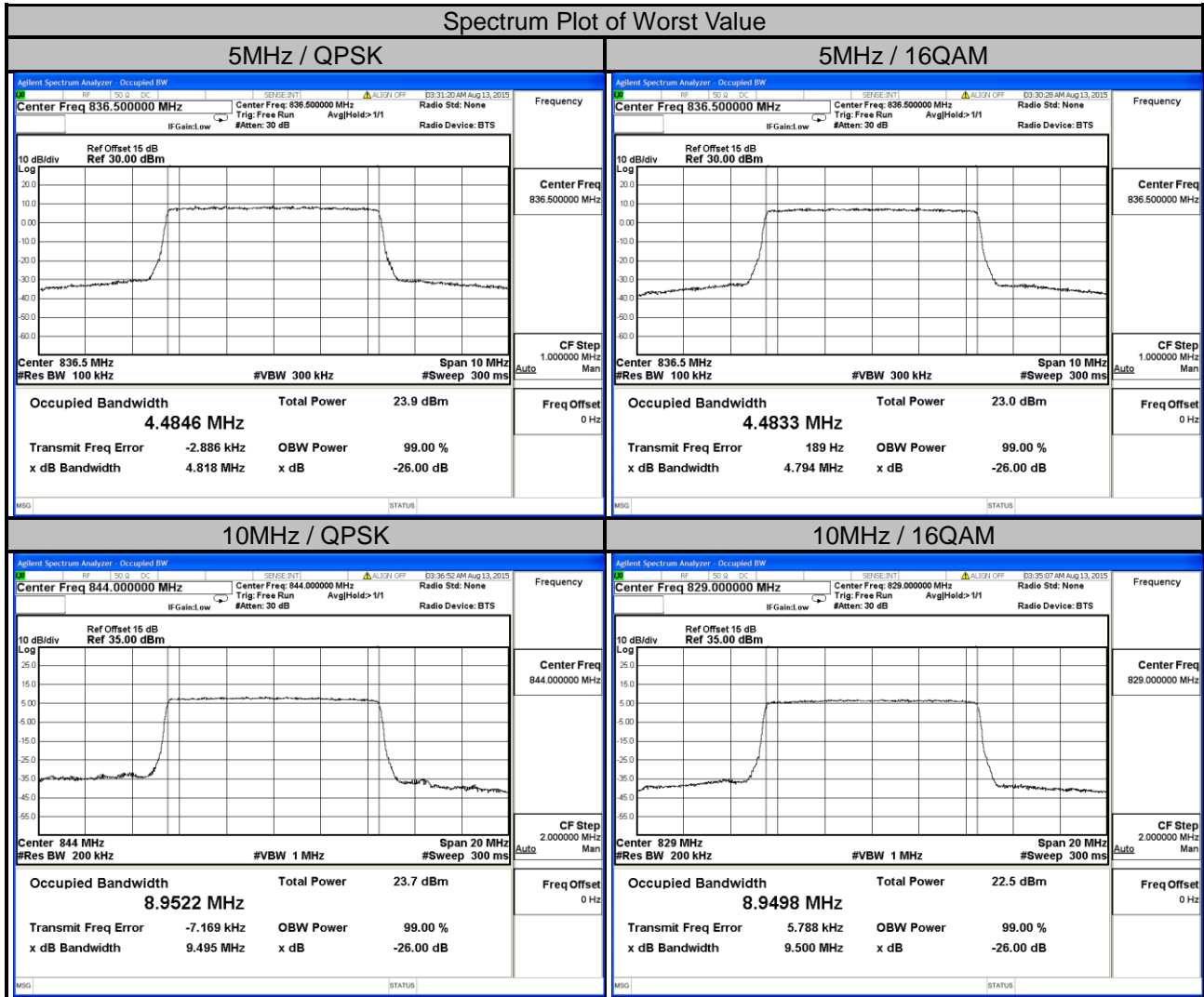
LTE Band 5							
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	1.0910	1.0902	20415	825.5	2.6945	2.6947
20525	836.5	1.0912	1.0890	20525	836.5	2.6948	2.6942
20643	848.3	1.0908	1.0877	20635	847.5	2.6944	2.6938

Spectrum Plot of Worst Value





LTE Band 5							
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.4825	4.4809	20450	829.0	8.9503	8.9498
20525	836.5	4.4846	4.4833	20525	836.5	8.9510	8.9472
20625	846.5	4.4816	4.4817	20600	844.0	8.9522	8.9493

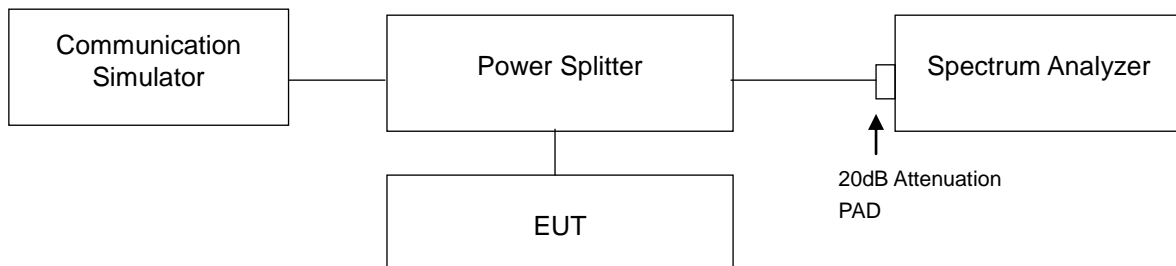


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 Test Setup



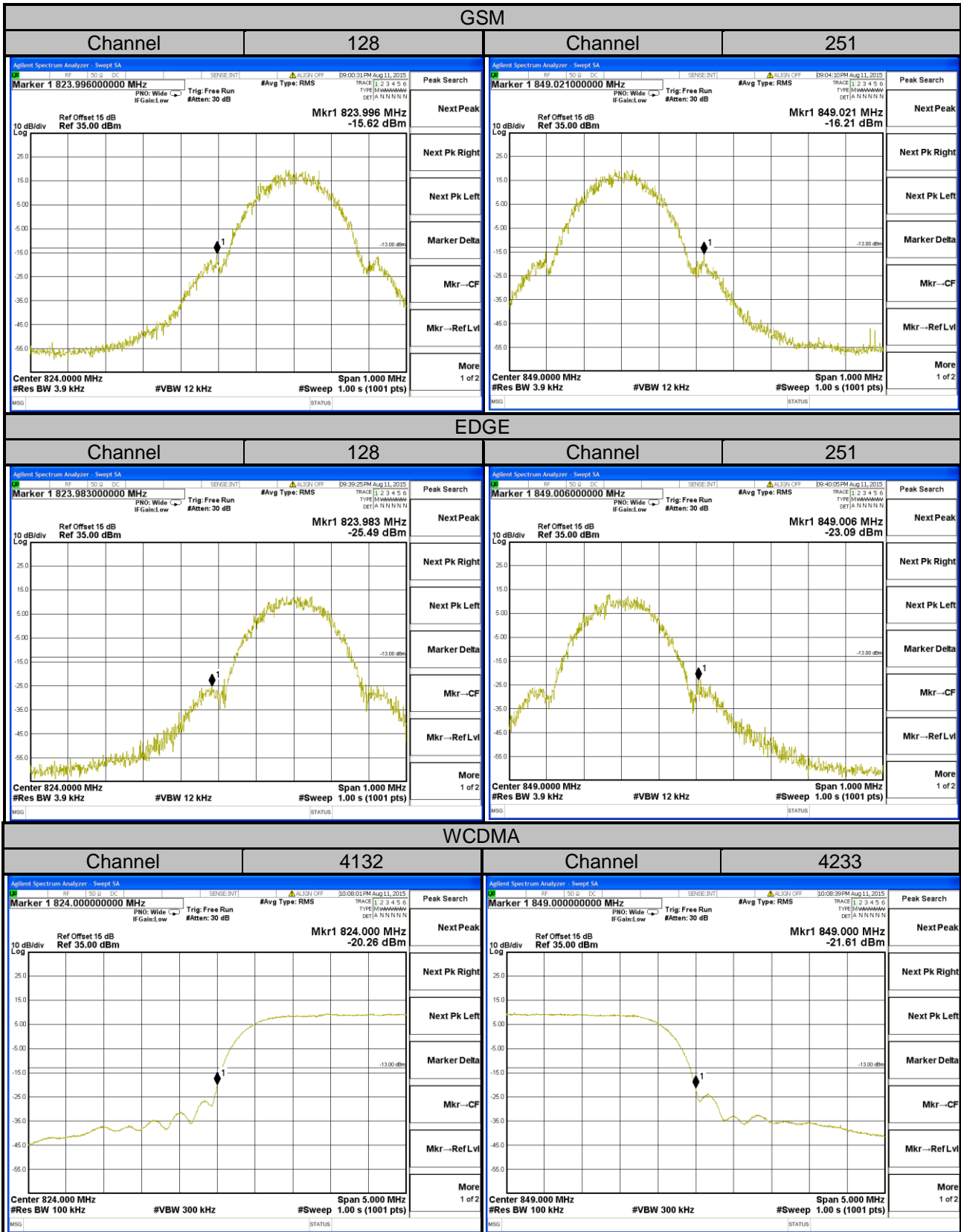
4.4.3 Test Procedures

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3.9kHz and VB of the spectrum is 12kHz (GSM/GPRS/EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Bandwidth 1.4MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Bandwidth 3MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Bandwidth 5MHz/10MHz).
- g. Record the max trace plot into the test report.



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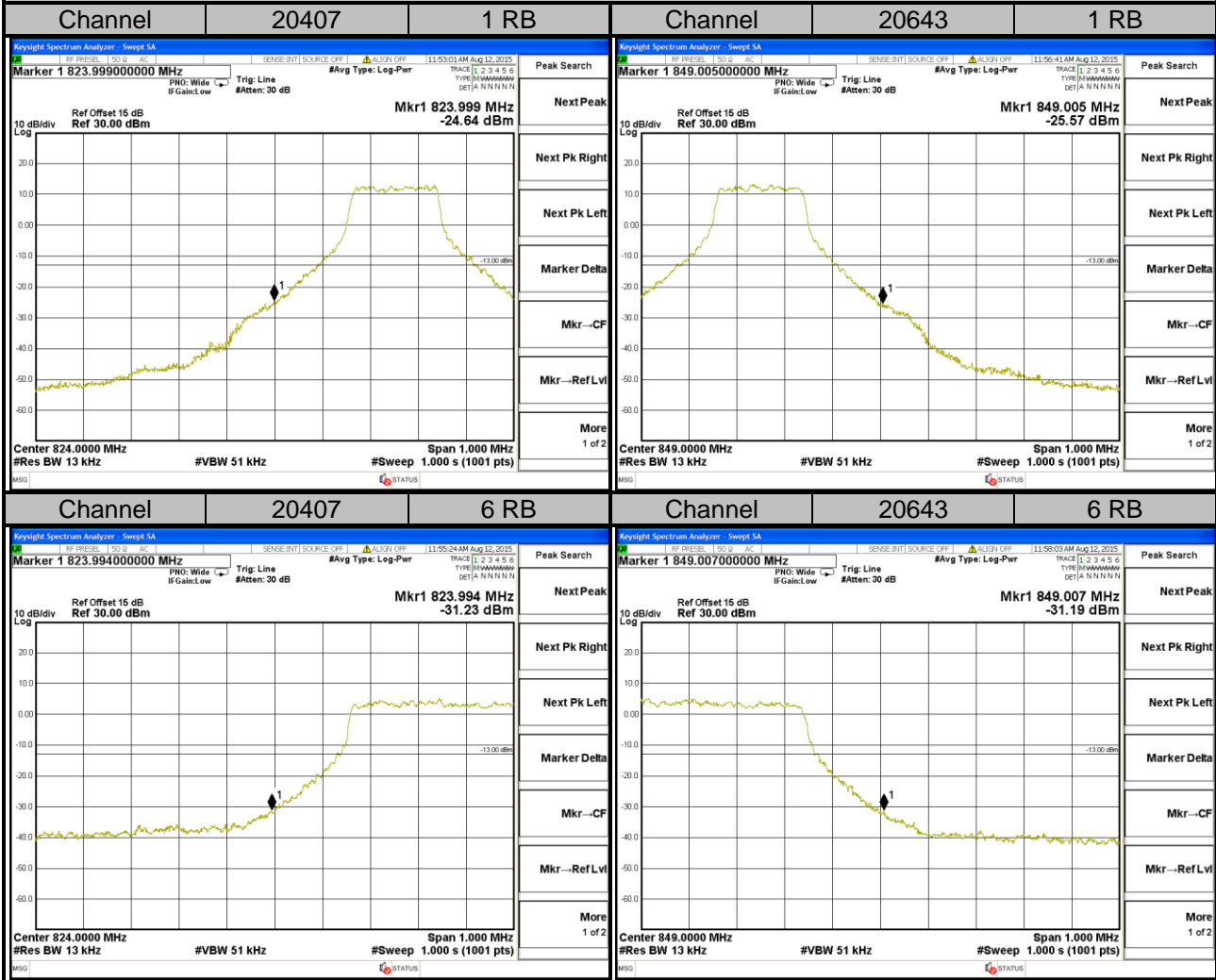
4.4.4 Test Results





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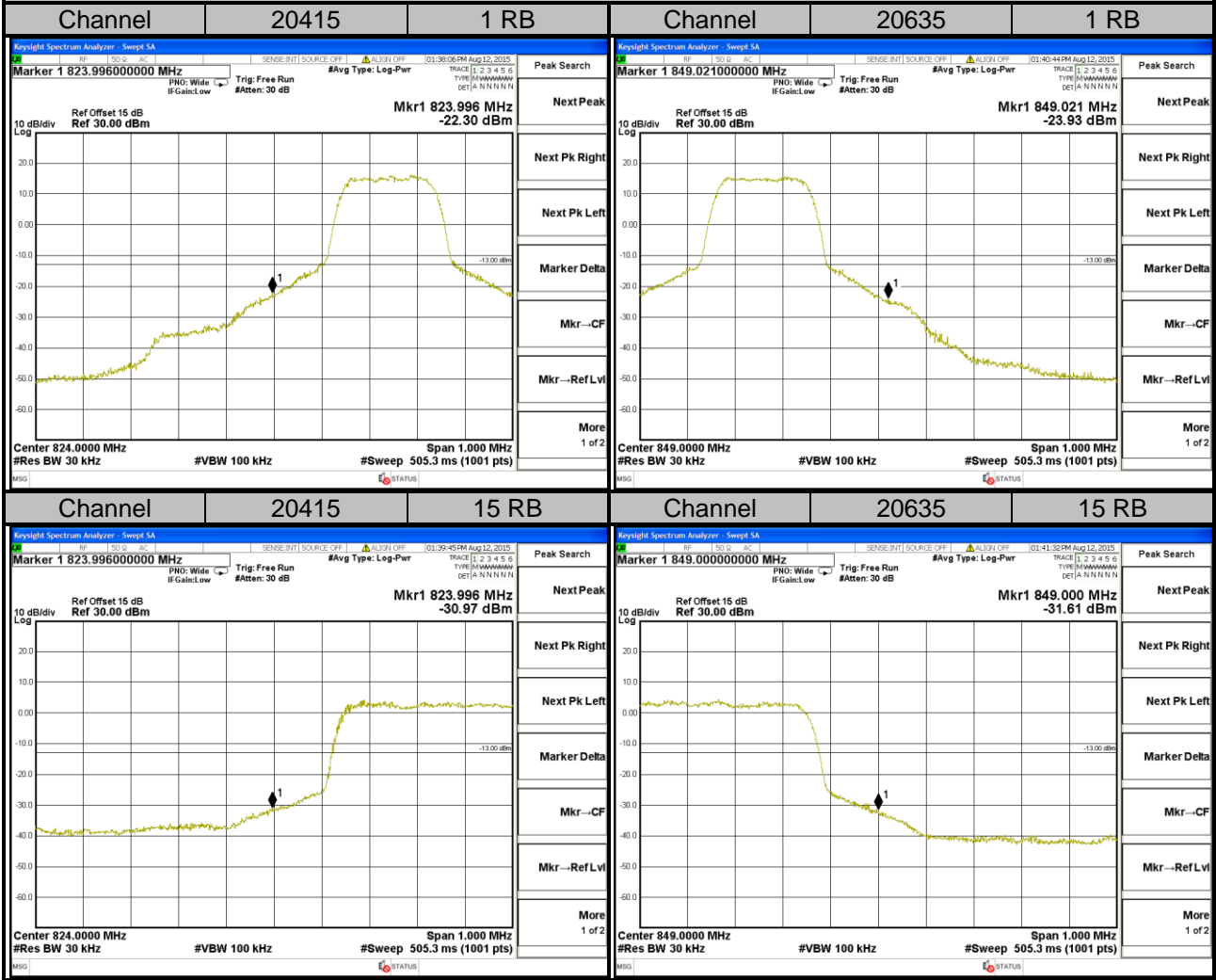
LTE Band 5
Channel Bandwidth: 1.4MHz





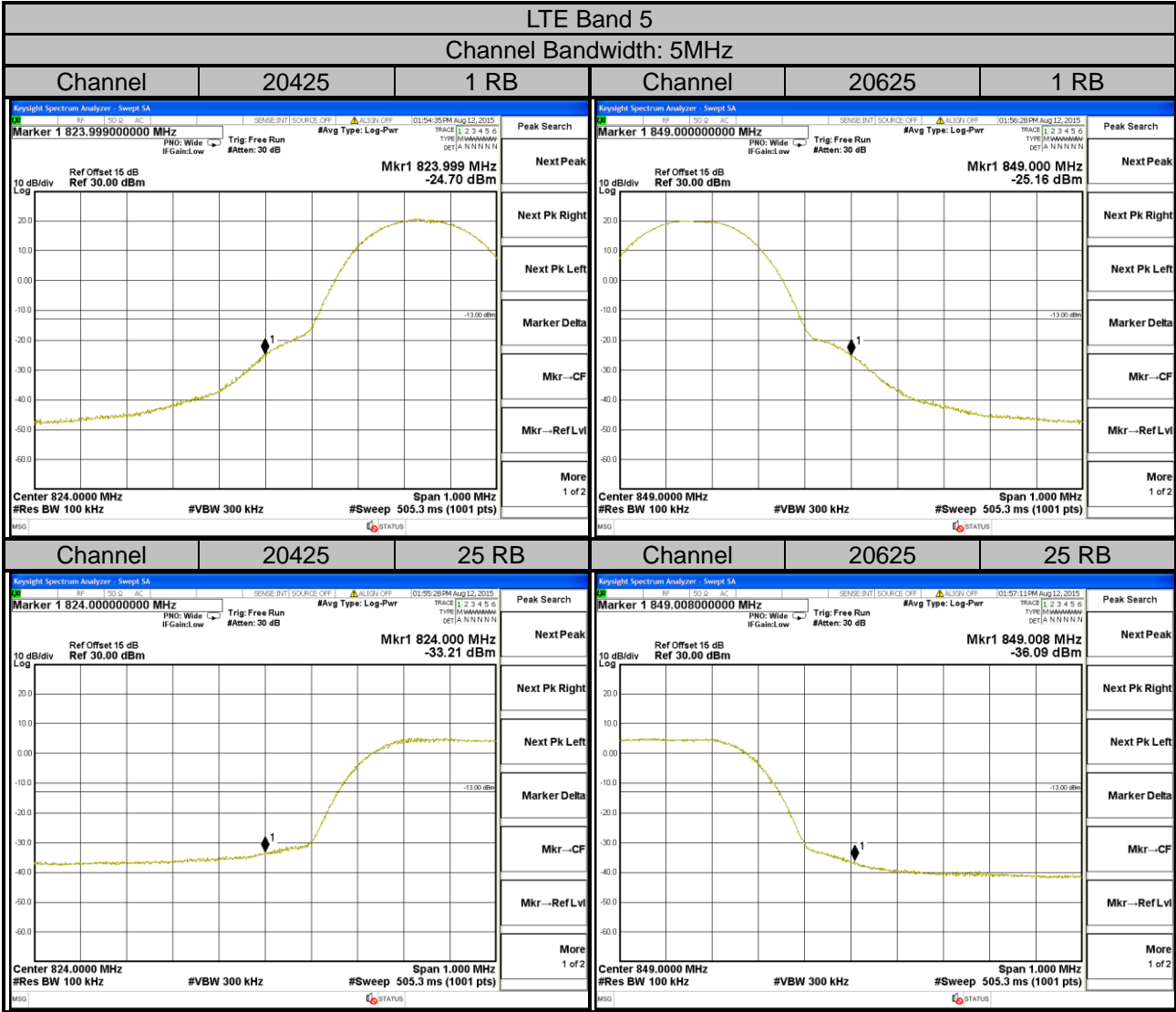
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LTE Band 5 Channel Bandwidth: 3MHz





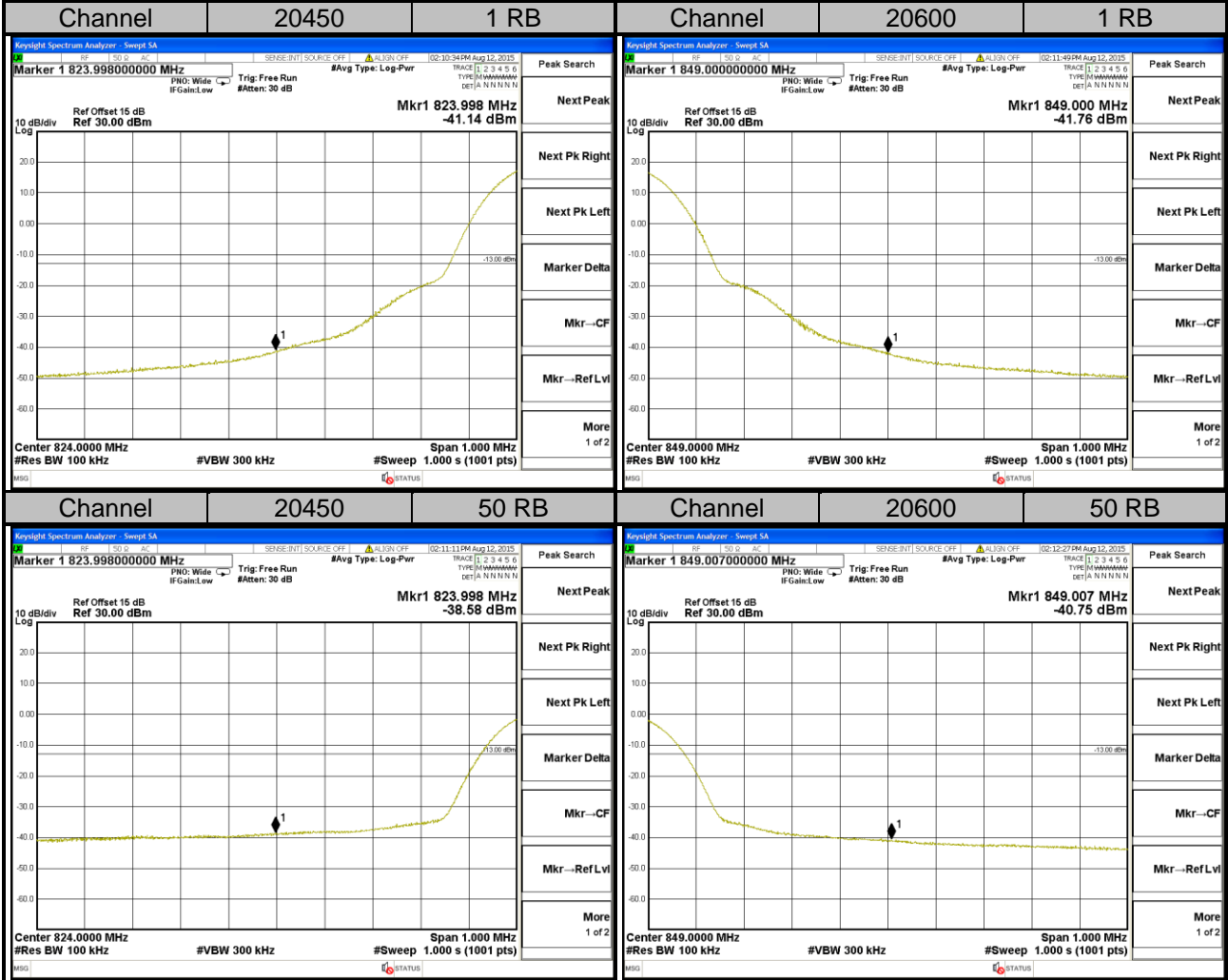
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LTE Band 5 Channel Bandwidth: 10MHz

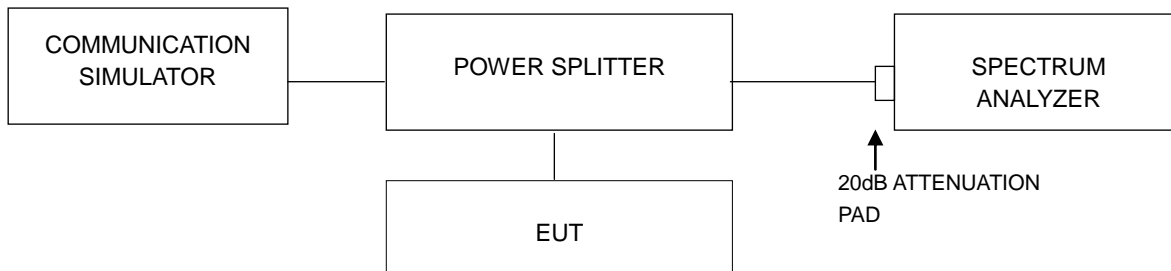


4.5 Peak To Average Ratio

4.5.1 Limits of Peak To Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.5.2 Test Setup

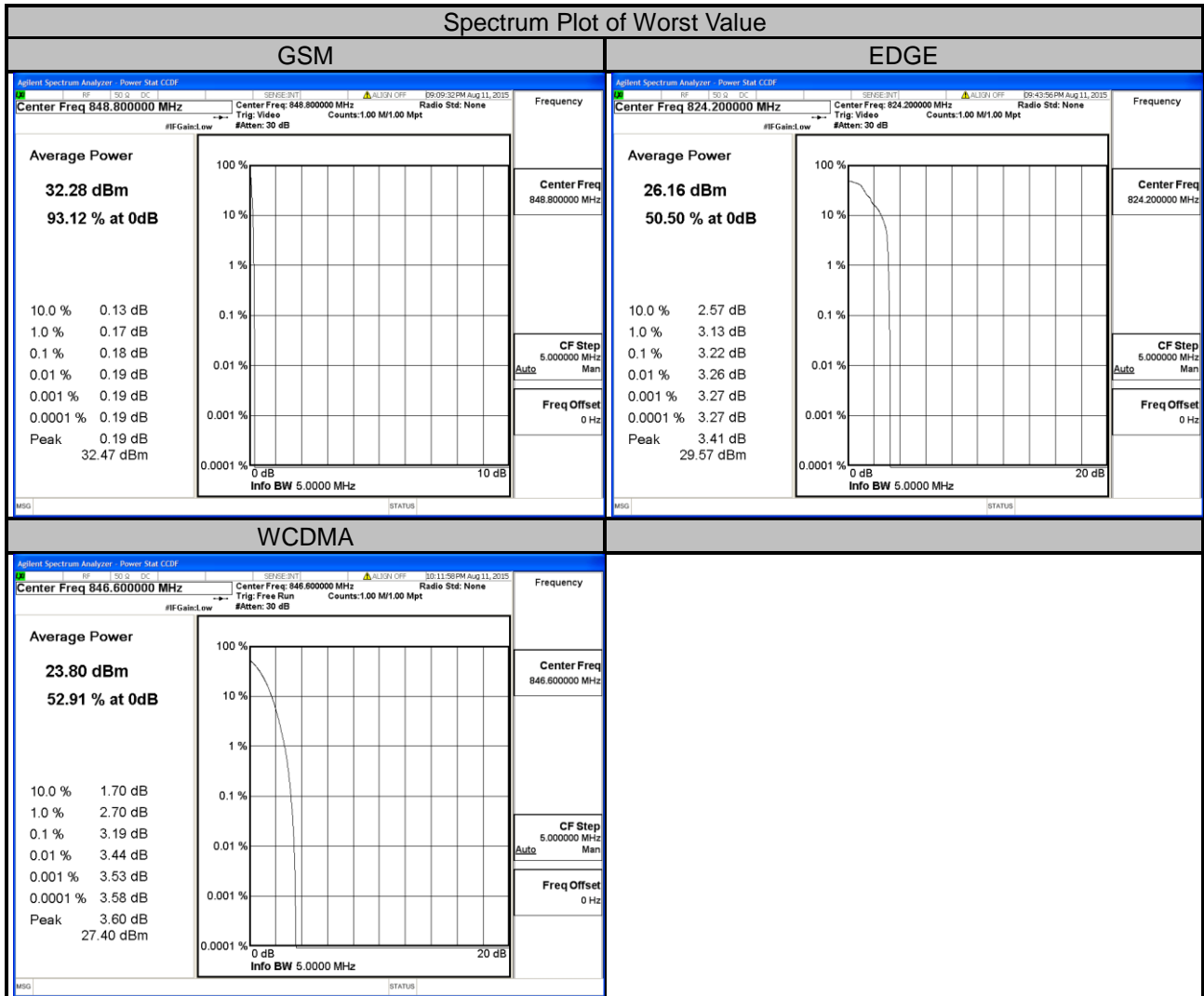


4.5.3 Test Procedures

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.5.4 Test Results

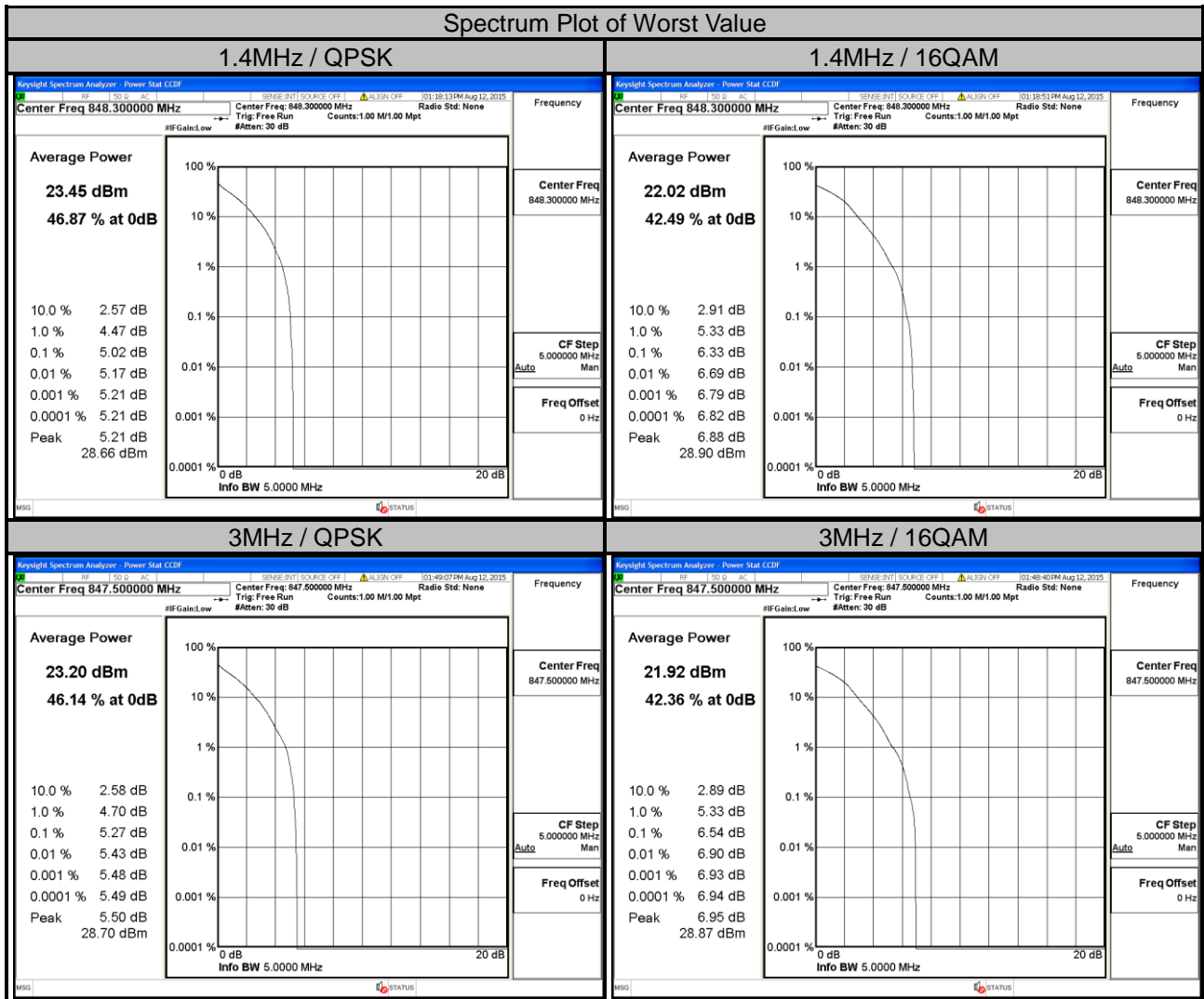
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		GSM	EDGE			
128	824.2	0.16	3.22	4132	826.4	3.05
189	836.4	0.17	3.21	4182	836.4	3.03
251	848.8	0.18	3.21	4233	846.6	3.19





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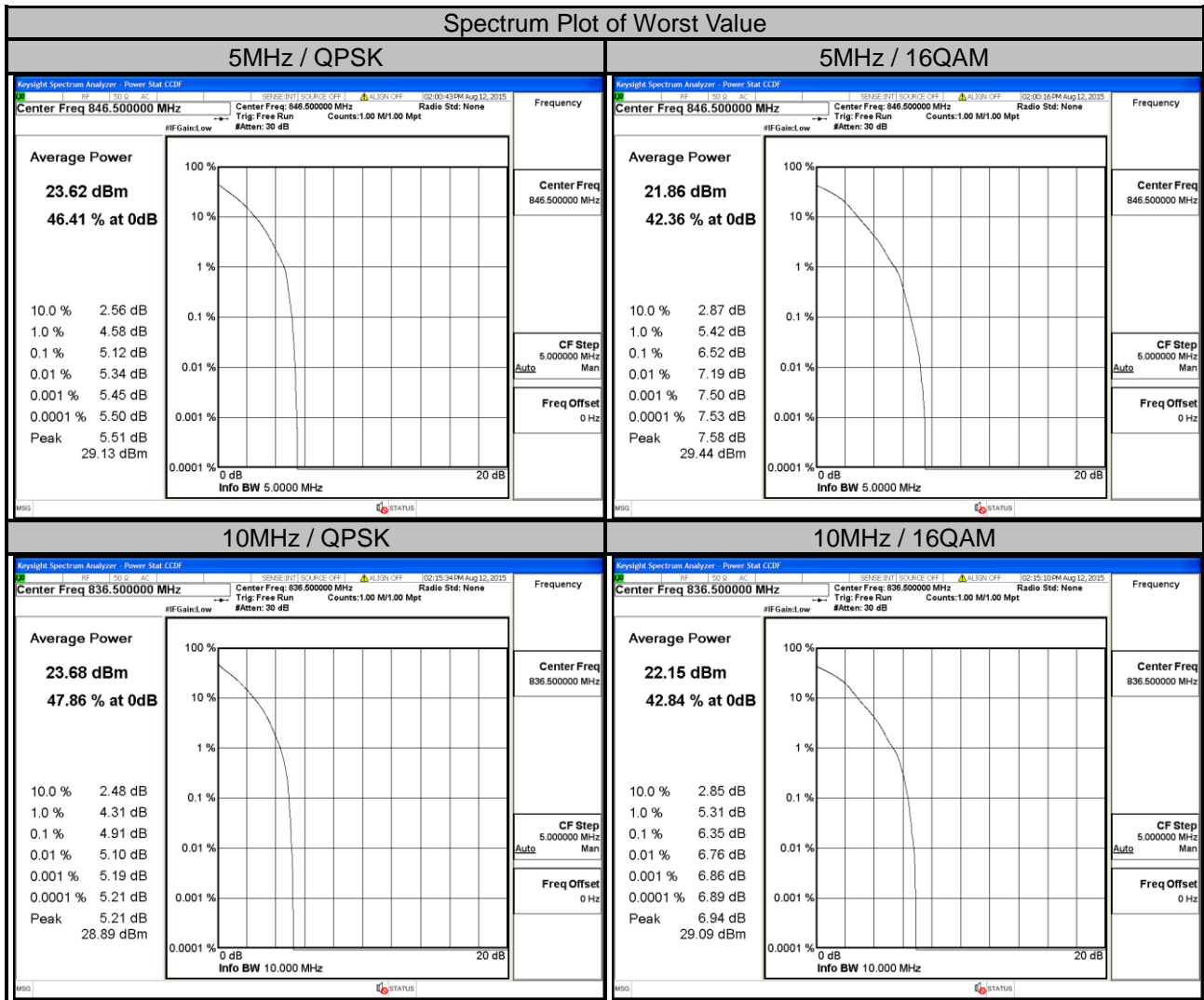
LTE Band 5							
Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20407	824.7	4.73	6.20	20415	825.5	4.95	6.14
20525	836.5	4.67	5.90	20525	836.5	4.73	5.88
20643	848.3	5.02	6.33	20635	847.5	5.27	6.54





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LTE Band 5							
Channel Bandwidth: 5MHz				Channel Bandwidth: 10MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20425	826.5	4.82	6.03	20450	829.0	4.78	6.16
20525	836.5	4.75	5.97	20525	836.5	4.91	6.35
20625	846.5	5.12	6.52	20600	844.0	4.83	5.99

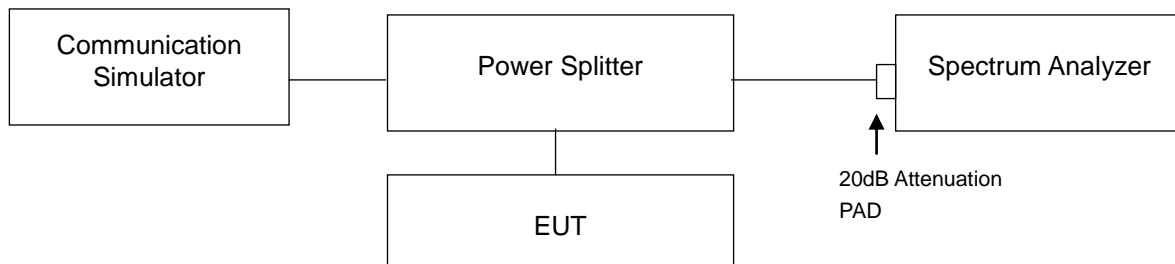


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.6.2 Test Setup



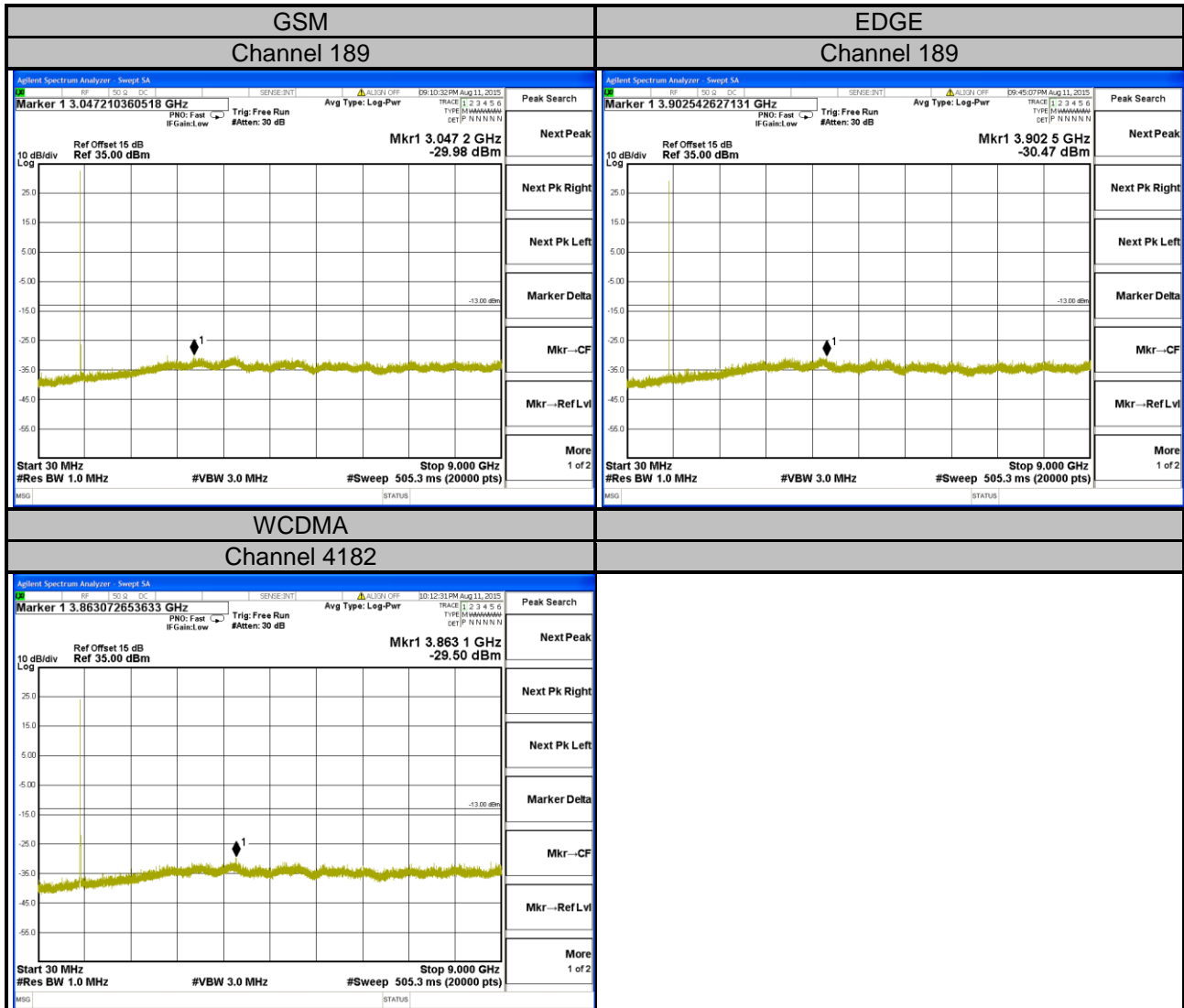
4.6.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.



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4.6.4 Test Results

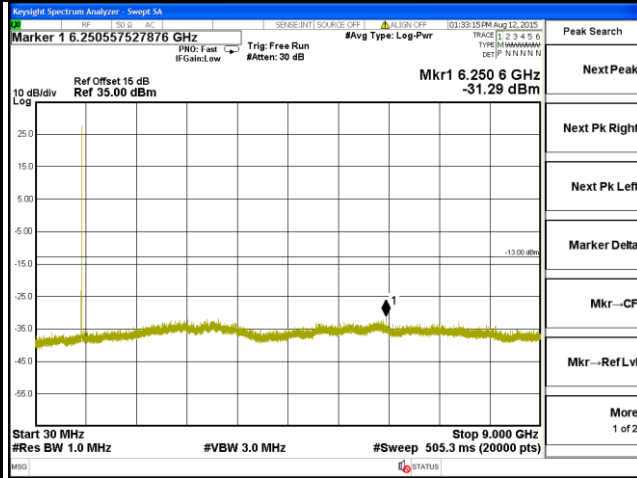




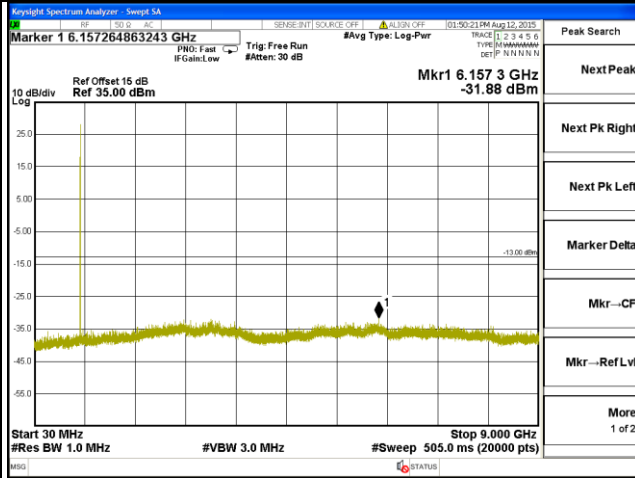
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LTE Band 5
Channel 20525

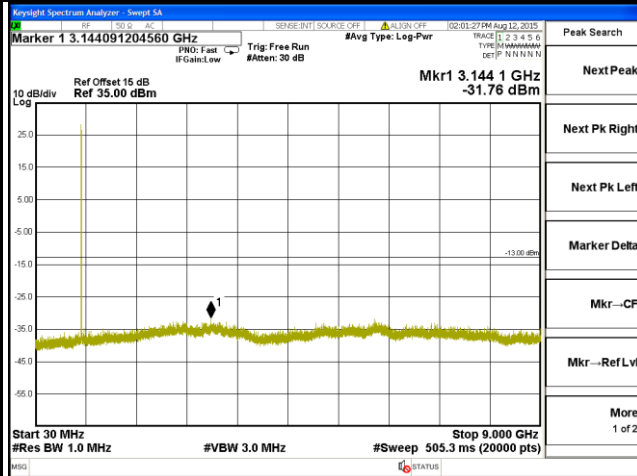
Channel Bandwidth: 1.4MHz



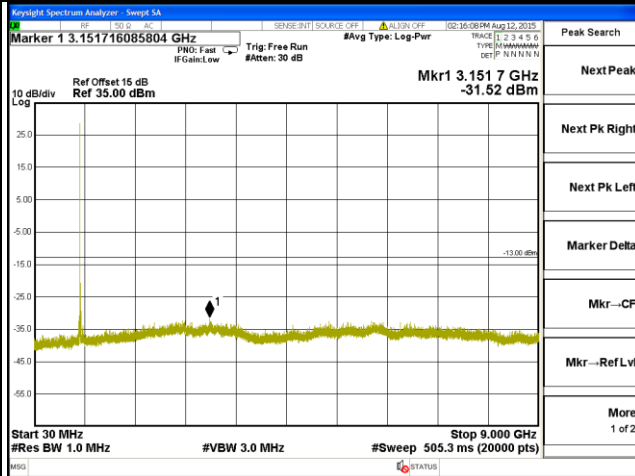
Channel Bandwidth: 3MHz



Channel Bandwidth: 5MHz



Channel Bandwidth: 10MHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.7.2 Test Procedure

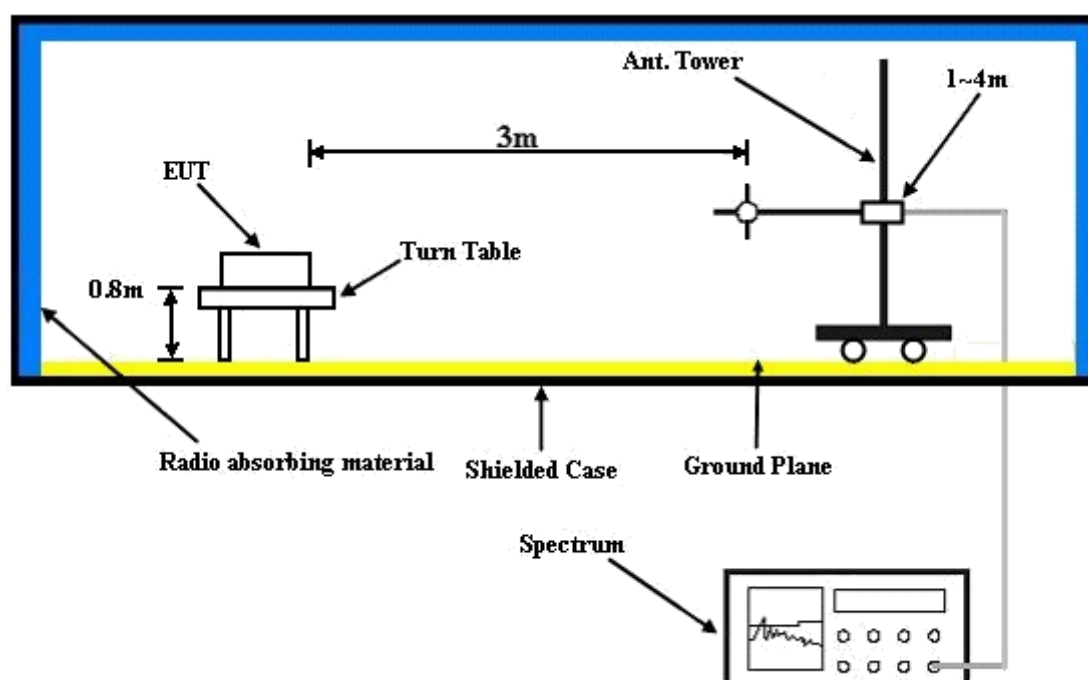
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 Test Results

GSM:

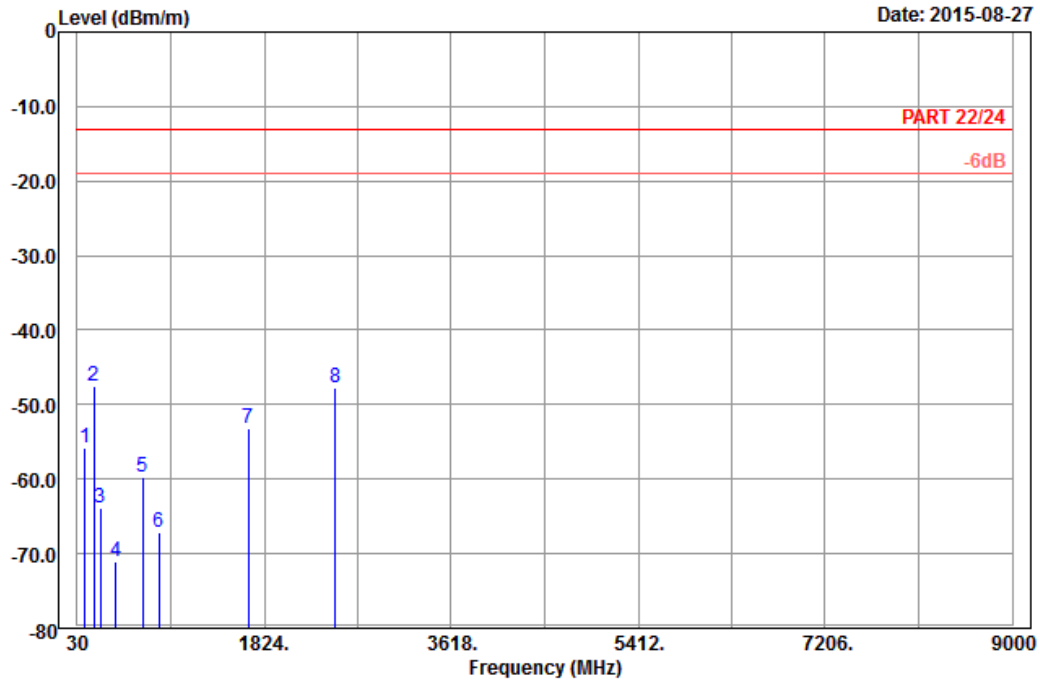


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Horizontal
 Remark : GSM 850_Link_CH189
 Tested by: Karl Lee
 Plane : X

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	100.47	-55.91	-45.91	-13.00	-42.91	-10.00	Peak
2	pp 193.35	-47.58	-41.71	-13.00	-34.58	-5.87	Peak
3	253.56	-63.95	-58.42	-13.00	-50.95	-5.53	Peak
4	402.90	-71.09	-68.29	-13.00	-58.09	-2.80	Peak
5	654.20	-59.62	-59.46	-13.00	-46.62	-0.16	Peak
6	813.10	-67.13	-69.00	-13.00	-54.13	1.87	Peak
7	1672.80	-53.15	-61.06	-13.00	-40.15	7.91	Peak
8	2509.20	-47.75	-59.03	-13.00	-34.75	11.28	Peak



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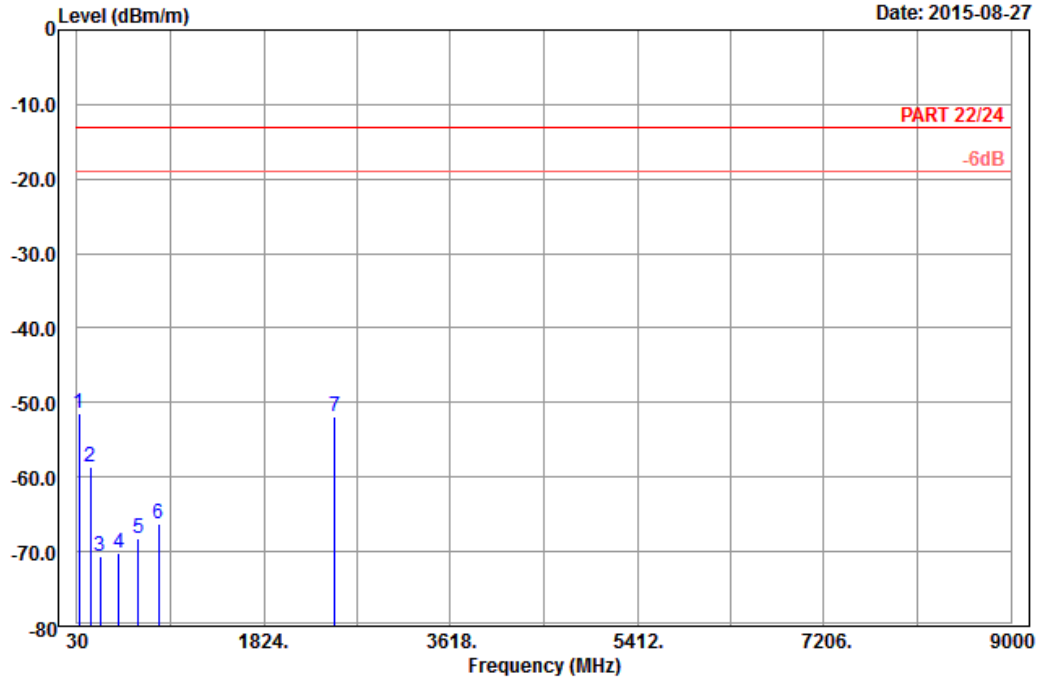


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : GSM 850_Link_CH189
 Tested by: Karl Lee
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp	48.09	-51.53	-38.10	-13.00	-38.53	-13.43 Peak
2		157.17	-58.68	-50.93	-13.00	-45.68	-7.75 Peak
3		251.94	-70.53	-65.01	-13.00	-57.53	-5.52 Peak
4		434.40	-70.25	-66.74	-13.00	-57.25	-3.51 Peak
5		619.90	-68.21	-68.42	-13.00	-55.21	0.21 Peak
6		813.80	-66.25	-68.11	-13.00	-53.25	1.86 Peak
7		2509.20	-51.95	-63.23	-13.00	-38.95	11.28 Peak



A D T

EDGE:

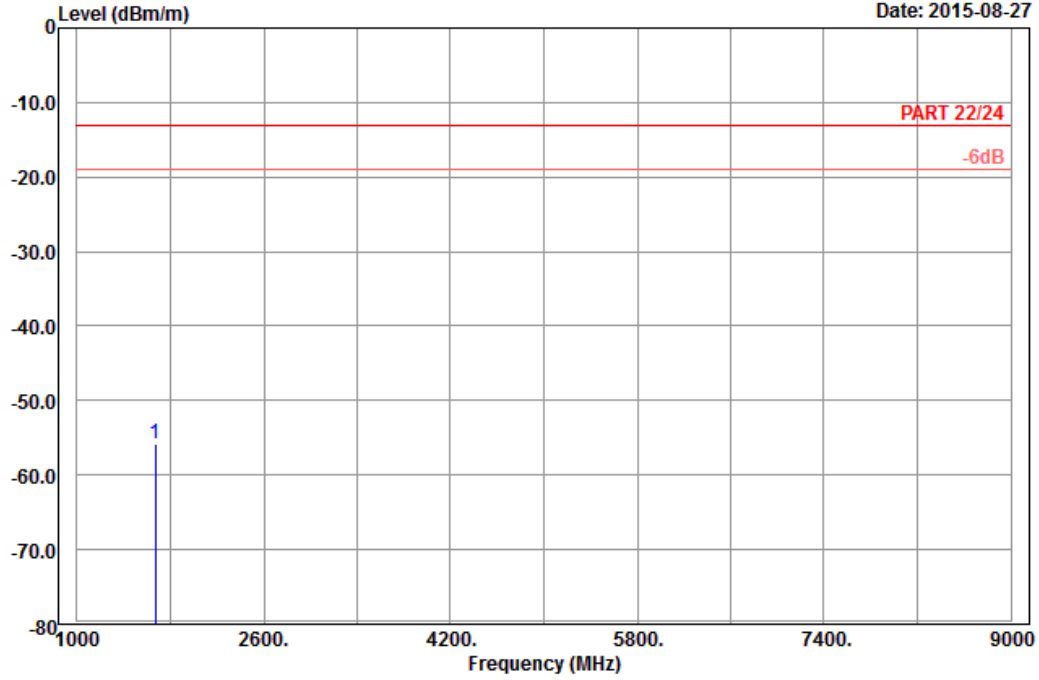


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Horizontal
 Remark : EDGE 850_Link_CH189
 Tested by: Charles Hsiao
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp 1672.80	-55.83	-63.74	-13.00	-42.83	7.91	Peak



A D T

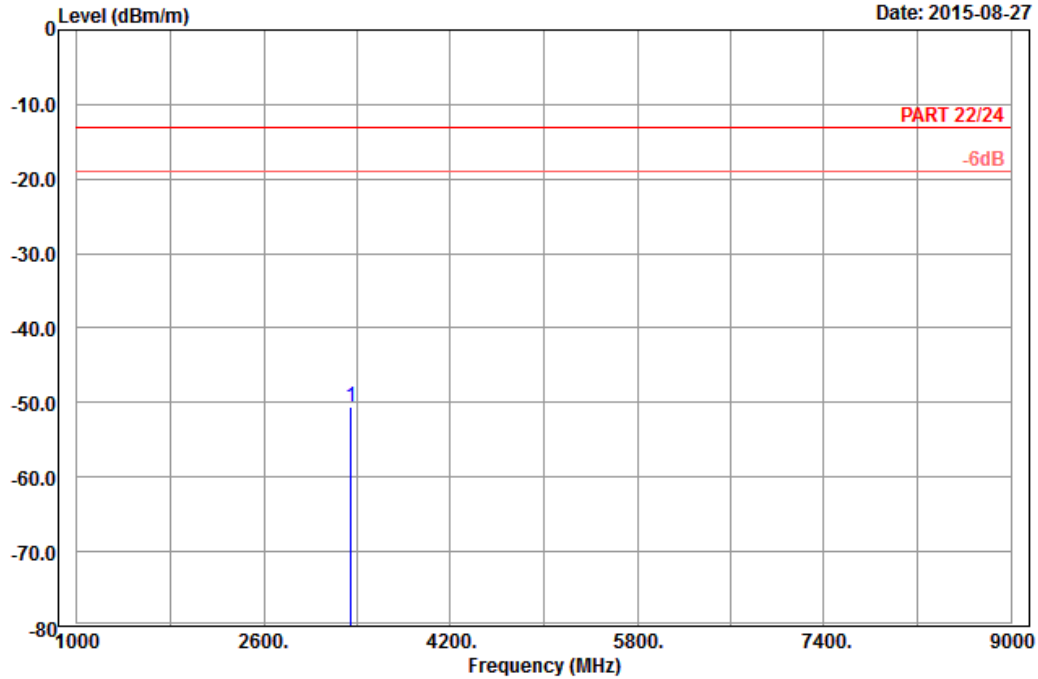


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : EDGE 850_Link_CH189
 Tested by: Charles Hsiao
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	3345.60	-50.55	-65.00	-13.00	-37.55	14.45	Peak

WCDMA:

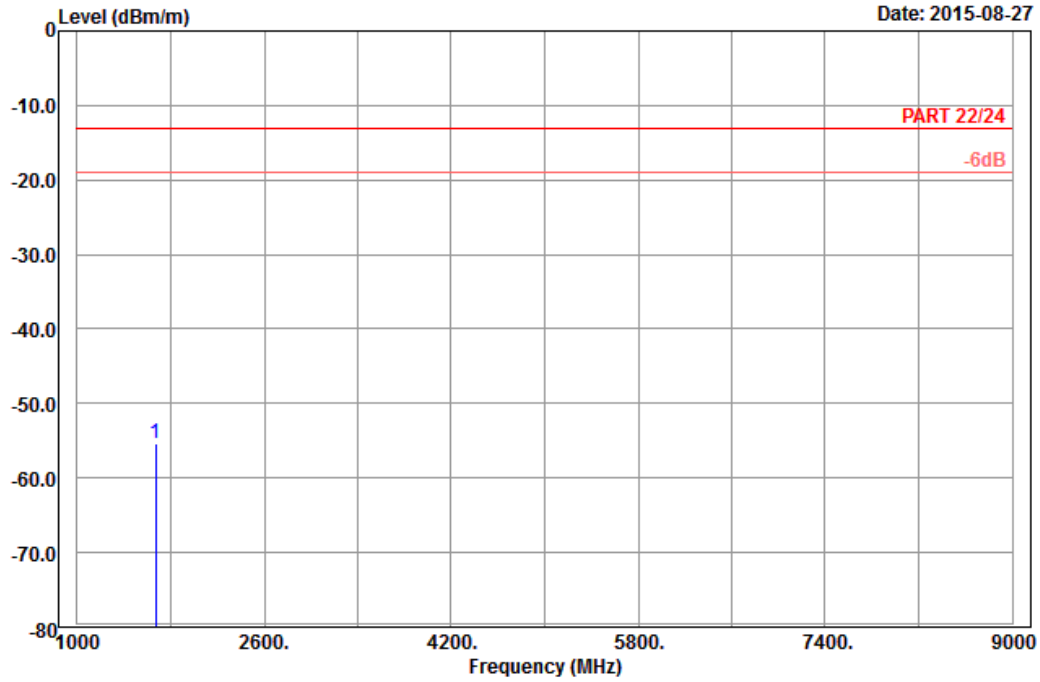


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Horizontal
 Remark : Band V_Link_CH4182
 Tested by: Charles Hsiao
 Plane : X

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 1672.80	-55.40	-63.31	-13.00	-42.40	7.91	Peak



A D T

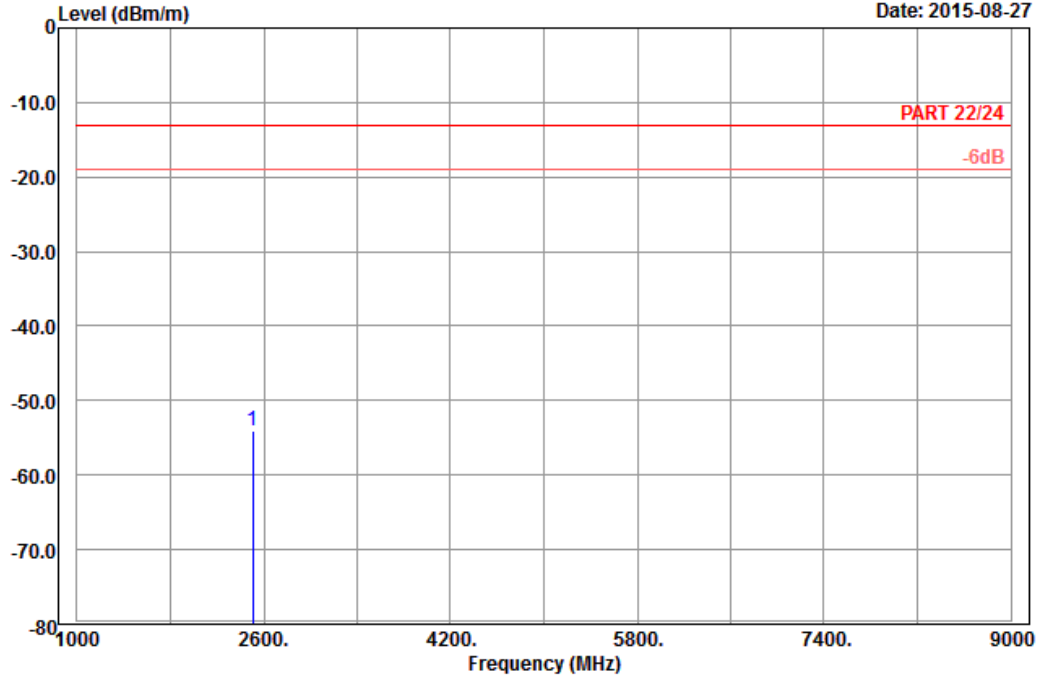


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : Band V_Link_CH4182
 Tested by: Charles Hsiao
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	2509.20	-53.96	-65.24	-13.00	-40.96	11.28	Peak

LTE Band 5
Channel Bandwidth: 10MHz / QPSK

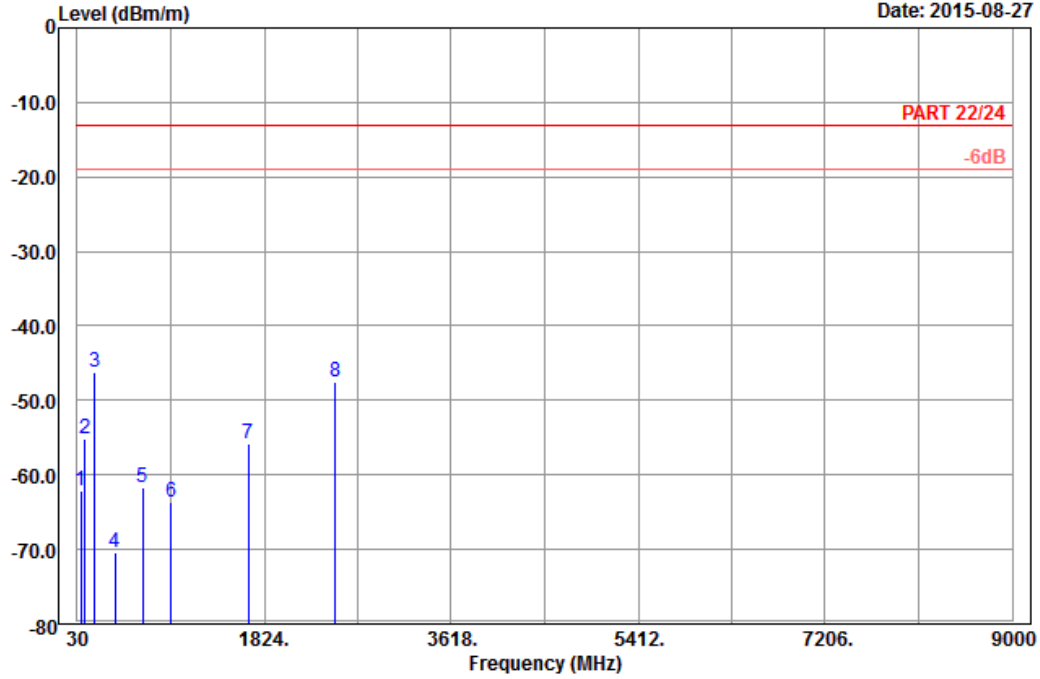


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A D T

Data: 9

Date: 2015-08-27



Site : 966 chamber 1
Condition: PART 22/24 3m Horizontal
Remark : LTE_Band 5_QPSK(1,24)_10M_CH20525
Tested by: Charles Hsiao
Plane : Y

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	68.61	-62.03	-49.21	-13.00	-49.03	-12.82	Peak
2	101.28	-55.05	-45.05	-13.00	-42.05	-10.00	Peak
3	pp 193.89	-46.19	-40.28	-13.00	-33.19	-5.91	Peak
4	393.10	-70.50	-67.40	-13.00	-57.50	-3.10	Peak
5	655.60	-61.79	-61.63	-13.00	-48.79	-0.16	Peak
6	932.80	-63.73	-68.10	-13.00	-50.73	4.37	Peak
7	1673.00	-55.76	-63.67	-13.00	-42.76	7.91	Peak
8	2509.50	-47.58	-58.86	-13.00	-34.58	11.28	Peak



A D T

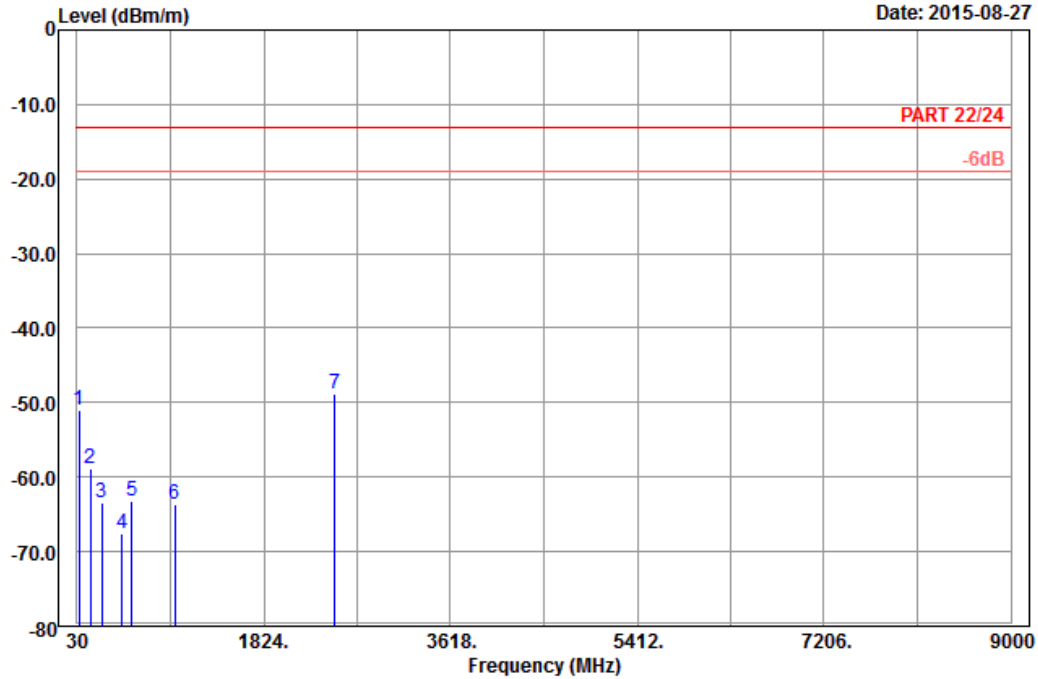


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2015-08-27



Site : 966 chamber 1
 Condition: PART 22/24 3m Vertical
 Remark : LTE_Band 5_QPSK(1,24)_10M_CH20525
 Tested by: Charles Hsiao
 Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	48.36	-50.95	-37.52	-13.00	-37.95	-13.43	Peak
2	156.36	-58.88	-51.10	-13.00	-45.88	-7.78	Peak
3	267.60	-63.39	-57.72	-13.00	-50.39	-5.67	Peak
4	461.00	-67.64	-63.49	-13.00	-54.64	-4.15	Peak
5	557.60	-63.25	-61.91	-13.00	-50.25	-1.34	Peak
6	971.30	-63.60	-68.77	-13.00	-50.60	5.17	Peak
7 pp	2509.50	-48.92	-60.20	-13.00	-35.92	11.28	Peak



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



A D T

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

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Fax: 886-2-26051924

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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