

FCC Test Report

(PART 90S)

Report No.: RF180904C09-4

FCC ID: HD5-CN85L1N

Test Model: CN85L1N

Received Date: Sep. 04, 2018

Test Date: Sep. 13, 2018 ~ Sep. 29, 2018

Issued Date: Oct. 11, 2018

Applicant: Honeywell International Inc.

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

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(R.O.C)

Test Location (1): No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City
33383, Taiwan (R.O.C)

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF180904C09-4	Original Release	Oct. 11, 2018

1 Certificate of Conformity

Product: Mobile computer

Brand: Honeywell

Test Model: CN85L1N

Sample Status: Engineering Sample

Applicant: Honeywell International Inc.

Test Date: Sep. 13, 2018 ~ Sep. 29, 2018

Standards: FCC Part 90, Subpart I, S
FCC Part 2

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 RF characteristics under the conditions specified in this report.

Prepared by : Ivonne Wu, **Date:** Oct. 11, 2018
Ivonne Wu / Supervisor

Approved by : Dylan Chiou, **Date:** Oct. 11, 2018
Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.635 (b)	Effective Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement.
2.1055 90.213	Frequency Stability	Pass	Meet the requirement of limit.
2.1049 90.209	Occupied Bandwidth	Pass	Meet the requirement of limit.
2.1051 90.210	Emission Masks	Pass	Meet the requirement of limit.
2.1051 90.691	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 90.691	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.23 dB at 2469.30 MHz.

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) (±)
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 16, 2018	Mar. 15, 2019
Spectrum Analyzer Agilent	N9010A	MY52220314	Nov. 24, 2017	Nov. 23, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Jan. 11, 2018	Jan. 10, 2019
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2017	Dec. 11, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 06, 2017	Dec. 05, 2018
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 16, 2018	Apr. 15, 2019
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 24, 2017	Oct. 23, 2018
Preamplifier EMCI	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
Preamplifier EMCI	EMC 330H	980112	Oct. 13, 2017	Oct. 12, 2018
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-800 0&3000	140811+170717	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 20, 2017	Oct. 19, 2018
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 20, 2017	Oct. 19, 2018
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jun. 28, 2017	Jun. 27, 2019
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 16, 2017	Aug. 15, 2019
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019
DC Power Supply Topward	33010D	807748	Oct. 25, 2016	Oct. 24, 2018

- 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 HwaYa Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The IC Site Registration No. is IC7450F-10.

3 General Information

3.1 General Description of EUT

Product	Mobile computer	
Brand	Honeywell	
Test Model	CN85L1N	
Status of EUT	Engineering Sample	
Power Supply Rating	3.85 Vdc (battery)	
Modulation Type	CDMA	QPSK, OQPSK, HPSK
	LTE	QPSK, 16QAM, 64QAM
Frequency Range	CDMA BC10	817.9 ~ 823.1 MHz
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	814.7 ~ 823.3 MHz
	LTE Band 26 (Channel Bandwidth: 3 MHz)	815.5 ~ 822.5 MHz
	LTE Band 26 (Channel Bandwidth: 5 MHz)	816.5 ~ 821.5 MHz
	LTE Band 26 (Channel Bandwidth: 10 MHz)	819 MHz
Emission Designator	CDMA BC10	1M28F9W
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 26 (Channel Bandwidth: 3 MHz)	2M71G7D
	LTE Band 26 (Channel Bandwidth: 5 MHz)	4M50W7D
	LTE Band 26 (Channel Bandwidth: 10 MHz)	8M98W7D
Max. ERP Power	CDMA BC10	256.45 mW
	LTE Band 26 (Channel Bandwidth: 1.4 MHz)	212.32 mW
	LTE Band 26 (Channel Bandwidth: 3 MHz)	228.03 mW
	LTE Band 26 (Channel Bandwidth: 5 MHz)	241.55 mW
	LTE Band 26 (Channel Bandwidth: 10 MHz)	238.23 mW
Antenna Type	PIFA Antenna with 0 dBi gain (Main) / -0.2 dBi gain (Aux.)	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

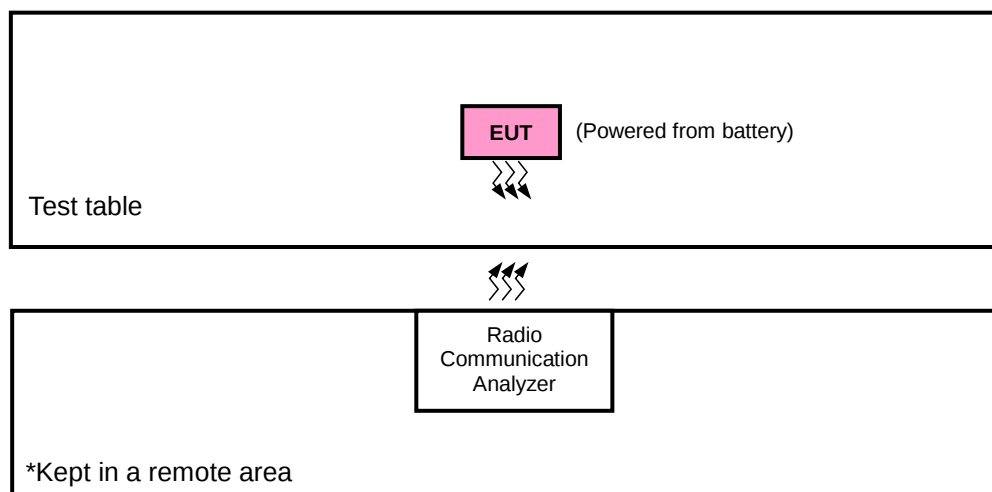
Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Battery	Inventus Power, Inc. / Honeywell	CW-BAT	3.85 Vdc, 5800 mAh, 22.3 Wh

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

3.2 Configuration of System under 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
CDMA	X-plane	X-axis
LTE Band 26	X-plane	X-axis

CDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	476 to 684	476, 580, 684	1xRTT
-	Modulation Characteristics	476 to 684	580	1xRTT
-	Frequency Stability	476 to 684	476, 684	1xRTT
-	Occupied Bandwidth	476 to 684	476, 580, 684	1xRTT
-	Emission Mask	476 to 684	476, 580, 684	1xRTT
-	Conducted Emission	476 to 684	476, 580, 684	1xRTT
-	Radiated Emission	476 to 684	476, 580, 684	1xRTT

LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	Modulation Characteristics	26705 to 26775	26740	5 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB Offset
-	Frequency Stability	26697 to 26783	26697, 26783	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26705, 26775	3 MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26765	5 MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 0 RB Offset
-	Occupied Bandwidth	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
-	Emission Mask	26697 to 26783	26697, 26783	1.4 MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26775	3 MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26765	5 MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB Offset
-	Conducted Emission	26697 to 26783	26697, 26740, 26783	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3 MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5 MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	26740	26740	10 MHz	QPSK	1 RB / 0 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	25 deg. C, 65 % RH	3.85 Vdc	Thomas Wei
Frequency Stability	25 deg. C, 65 % RH	3.85 Vdc	Gavin Wu
Occupied Bandwidth	25 deg. C, 65 % RH	3.85 Vdc	Gavin Wu
Peak to Average Ratio	25 deg. C, 65 % RH	3.85 Vdc	Gavin Wu
Emission Mask	25 deg. C, 65 % RH	3.85 Vdc	Gavin Wu
Band Edge	25 deg. C, 65 % RH	3.85 Vdc	Gavin Wu
Conducted Emission	25 deg. C, 65 % RH	3.85 Vdc	Gavin Wu
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Thomas Wei

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 90

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

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 5 MHz for CDMA and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m 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, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dB}$.

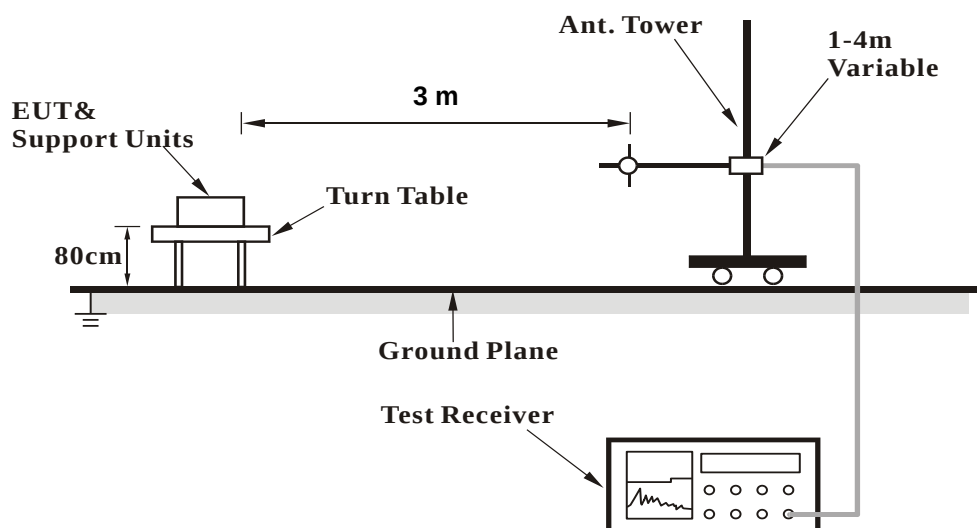
Conducted Power Measurement:

- a. The EUT was set up for the maximum power with CDMA and LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

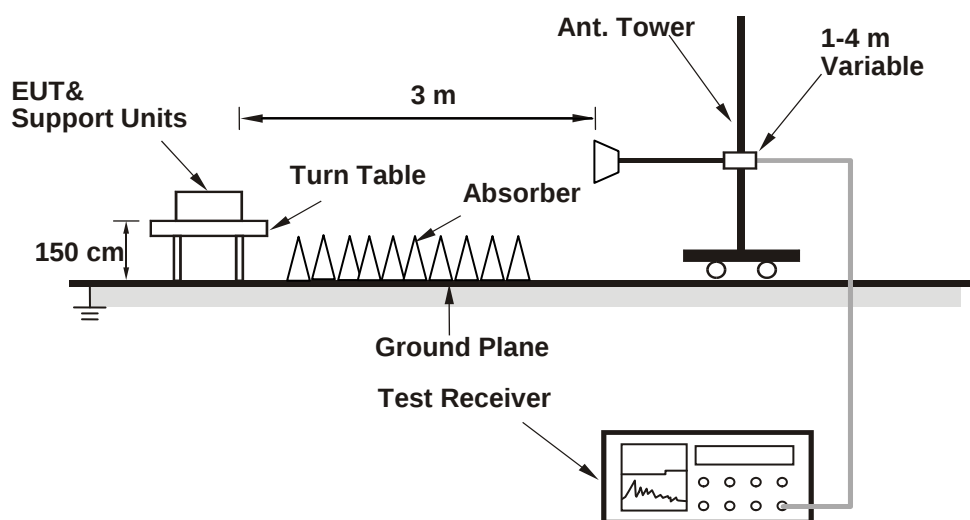
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

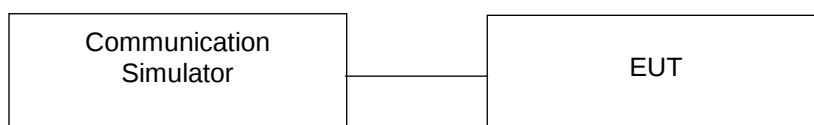


<Radiated Emission above 1 GHz>



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	CDMA		
Channel	476	580	684
Frequency (MHz)	817.9	820.5	823.1
RC1+SO55	24.04	24.01	24.05
RC3+SO55	24.09	24.06	24.10
RC3+SO32 (+ F-SCH)	24.07	24.04	24.08
RC3+SO32 (+SCH)	24.04	24.01	24.05
RTAP 153.6	24.06	24.07	24.00
RETAP 4096	23.91	23.95	23.94

LTE Band 26																	
BW	MCS Index	RB Size	RB Offset		Mid		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel			26740					Channel		26715	26740	26765			
		Frequency (MHz)			819.0					Frequency (MHz)		816.5	819.0	821.5			
10M	QPSK	1	0		23.47		0	5M	QPSK	1	0	23.36	23.47	23.56	0		
		1	24		23.48		0			1	12	23.50	23.48	23.57	0		
		1	49		23.53		0			1	24	23.53	23.53	23.65	0		
		25	0		22.49		1			12	0	22.51	22.49	22.66	1		
		25	12		22.37		1			12	6	22.37	22.37	22.58	1		
		25	25		22.54		1			12	13	22.55	22.54	22.65	1		
	50	0		22.42		1	25		0	22.43	22.42	22.54	1				
	16QAM	1	0		23.10		1		16QAM	1	0	23.06	23.10	23.28	1		
		1	24		22.92		1			1	12	22.89	22.92	23.09	1		
		1	49		22.95		1			1	24	22.80	22.95	23.00	1		
		25	0		21.53		2			12	0	21.65	21.53	21.70	2		
		25	12		21.60		2			12	6	21.64	21.60	21.66	2		
		25	25		21.64		2			12	13	21.54	21.64	21.68	2		
	50	0		21.46		2	25		0	21.46	21.46	21.59	2				
	64QAM	1	0		21.45		2		64QAM	1	0	21.36	21.45	21.56	2		
		1	24		21.41		2			1	12	21.33	21.41	21.49	2		
		1	49		21.59		2			1	24	21.50	21.59	21.62	2		
		25	0		20.53		3			12	0	20.43	20.53	20.63	3		
		25	12		20.44		3			12	6	20.41	20.44	20.55	3		
		25	25		20.57		3			12	13	20.46	20.57	20.56	3		
	50	0		20.43		3	25		0	20.32	20.43	20.48	3				
	BW	MCS Index	RB Size	RB Offset	Low	Mid	High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
			Channel		26705	26740	26775					Channel		26697	26740	26783	
			Frequency (MHz)		815.5	819.0	822.5					Frequency (MHz)		814.7	819.0	823.3	
5M	QPSK	1	0	23.40	23.33	23.46	0	3M	QPSK	1	0	23.44	23.44	23.55	0		
		1	7	23.39	23.35	23.45	0			1	2	23.37	23.37	23.53	0		
		1	14	23.55	23.38	23.62	0			1	5	23.48	23.49	23.53	0		
		8	0	22.59	22.35	22.57	1			3	0	23.53	23.44	23.65	0		
		8	3	22.43	22.24	22.56	1			3	1	23.38	23.24	23.49	0		
		8	7	22.44	22.43	22.57	1			3	3	23.54	23.50	23.61	0		
	15	0	22.36	22.34	22.46	1	6		0	22.30	22.38	22.47	1				
	16QAM	1	0	23.14	22.97	23.25	1		16QAM	1	0	23.12	23.06	23.18	1		
		1	7	22.97	22.89	23.03	1			1	2	23.00	22.89	22.96	1		
		1	14	22.91	22.80	22.87	1			1	5	22.95	22.84	22.86	1		
		8	0	21.56	21.53	21.69	2			3	0	22.59	22.46	22.69	1		
		8	3	21.58	21.49	21.63	2			3	1	22.50	22.60	22.59	1		
		8	7	21.56	21.60	21.64	2			3	3	22.56	22.51	22.68	1		
	15	0	21.36	21.41	21.57	2	6		0	21.43	21.42	21.48	2				
	64QAM	1	0	21.46	21.32	21.51	2		64QAM	1	0	21.44	21.34	21.42	2		
		1	7	21.37	21.39	21.48	2			1	2	21.35	21.30	21.39	2		
		1	14	21.52	21.50	21.62	2			1	5	21.50	21.58	21.50	2		
		8	0	20.50	20.48	20.50	3			3	0	21.39	21.38	21.51	2		
		8	3	20.45	20.44	20.54	3			3	1	21.33	21.33	21.49	2		
		8	7	20.53	20.55	20.46	3			3	3	21.52	21.57	21.41	2		
	15	0	20.47	20.41	20.34	3	6		0	20.42	20.37	20.41	3				

ERP Power (dBm)

CDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	476	817.9	-5.00	31.208	24.06	254.68	H
	580	820.5	-5.12	31.3	24.03	252.93	
	684	823.1	-4.98	31.222	24.09	256.45	
	476	817.9	-11.34	31.504	18.01	63.24	V
	580	820.5	-11.12	31.117	17.85	60.95	
	684	823.1	-11.52	31.922	18.25	66.83	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26697	814.7	-7.01	32.01	22.85	192.75	H
	26740	819	-6.98	32.11	22.98	198.61	
	26783	823.3	-6.90	32.32	23.27	212.32	
	26697	814.7	-12.74	32.54	17.65	58.21	V
	26740	819	-12.63	32.51	17.73	59.29	
	26783	823.3	-12.49	32.51	17.87	61.24	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	26697	814.7	-7.99	32.01	21.87	153.82	H
	26740	819	-7.96	32.11	22.00	158.49	
	26783	823.3	-7.88	32.32	22.29	169.43	
	26697	814.7	-13.72	32.54	16.67	46.45	V
	26740	819	-13.61	32.51	16.75	47.32	
	26783	823.3	-13.47	32.51	16.89	48.87	
Channel Bandwidth: 1.4 MHz / 64QAM							
X	26697	814.7	-8.97	32.01	20.89	122.74	H
	26740	819	-8.94	32.11	21.02	126.47	
	26783	823.3	-8.86	32.32	21.31	135.21	
	26697	814.7	-14.70	32.54	15.69	37.07	V
	26740	819	-14.59	32.51	15.77	37.76	
	26783	823.3	-14.45	32.51	15.91	38.99	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26705	815.5	-6.71	32.02	23.16	207.01	H
	26740	819.0	-6.67	32.11	23.29	213.30	
	26775	822.5	-6.45	32.18	23.58	228.03	
	26705	815.5	-12.39	32.5	17.96	62.52	V
	26740	819.0	-12.32	32.51	18.04	63.68	
	26775	822.5	-12.14	32.47	18.18	65.77	
Channel Bandwidth: 3 MHz / 16QAM							
X	26705	815.5	-7.70	32.02	22.17	164.82	H
	26740	819.0	-7.66	32.11	22.30	169.82	
	26775	822.5	-7.44	32.18	22.59	181.55	
	26705	815.5	-13.38	32.5	16.97	49.77	V
	26740	819.0	-13.31	32.51	17.05	50.70	
	26775	822.5	-13.13	32.47	17.19	52.36	
Channel Bandwidth: 3 MHz / 64QAM							
X	26705	815.5	-8.67	32.02	21.20	131.83	H
	26740	819.0	-8.63	32.11	21.33	135.83	
	26775	822.5	-8.41	32.18	21.62	145.21	
	26705	815.5	-14.35	32.5	16.00	39.81	V
	26740	819.0	-14.28	32.51	16.08	40.55	
	26775	822.5	-14.10	32.47	16.22	41.88	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26715	816.5	-6.48	32.04	23.41	219.28	H
	26740	819.0	-6.42	32.11	23.54	225.94	
	26765	821.5	-5.81	31.79	23.83	241.55	
	26715	816.5	-12.16	32.52	18.21	66.22	V
	26740	819.0	-12.07	32.51	18.29	67.45	
	26765	821.5	-11.59	32.17	18.43	69.66	
Channel Bandwidth: 5 MHz / 16QAM							
X	26715	816.5	-7.50	32.04	22.39	173.38	H
	26740	819.0	-7.44	32.11	22.52	178.65	
	26765	821.5	-6.83	31.79	22.81	190.99	
	26715	816.5	-13.18	32.52	17.19	52.36	V
	26740	819.0	-13.09	32.51	17.27	53.33	
	26765	821.5	-12.61	32.17	17.41	55.08	
Channel Bandwidth: 5 MHz / 64QAM							
X	26715	816.5	-8.53	32.04	21.36	136.77	H
	26740	819.0	-8.47	32.11	21.49	140.93	
	26765	821.5	-7.86	31.79	21.78	150.66	
	26715	816.5	-14.21	32.52	16.16	41.30	V
	26740	819.0	-14.12	32.51	16.24	42.07	
	26765	821.5	-13.64	32.17	16.38	43.45	

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

LTE Band 26							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	26740	819.0	-6.19	32.11	23.77	238.23	H
	26740	819.0	-11.84	32.51	18.52	71.12	V
Channel Bandwidth: 10 MHz / 16QAM							
X	26740	819.0	-7.20	32.11	22.76	188.80	H
	26740	819.0	-12.85	32.51	17.51	56.36	V
Channel Bandwidth: 10 MHz / 64QAM							
X	26740	819.0	-8.22	32.11	21.74	149.28	H
	26740	819.0	-13.87	32.51	16.49	44.57	V

Note: ERP (dBm) = Reading (dBm) + Correction Factor (dB) – 2.15

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

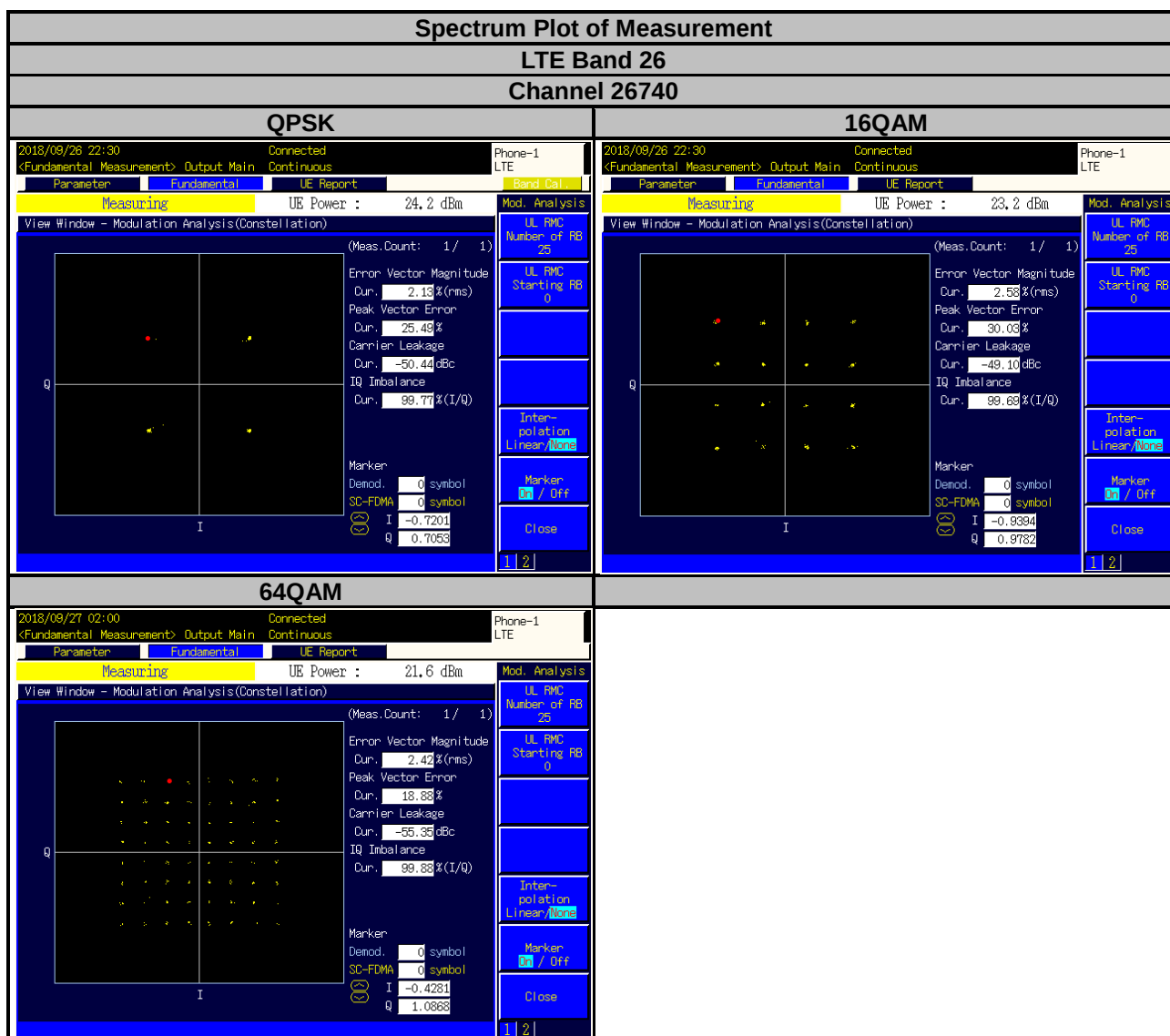
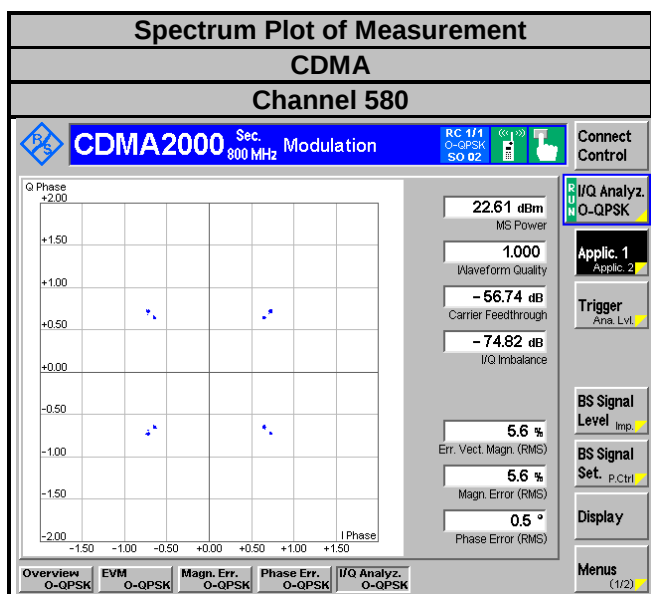
4.2.2 Test Setup



4.2.3 Test Procedure

Connect the EUT to Communication Simulator via the antenna connector. The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.4 Test Results



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

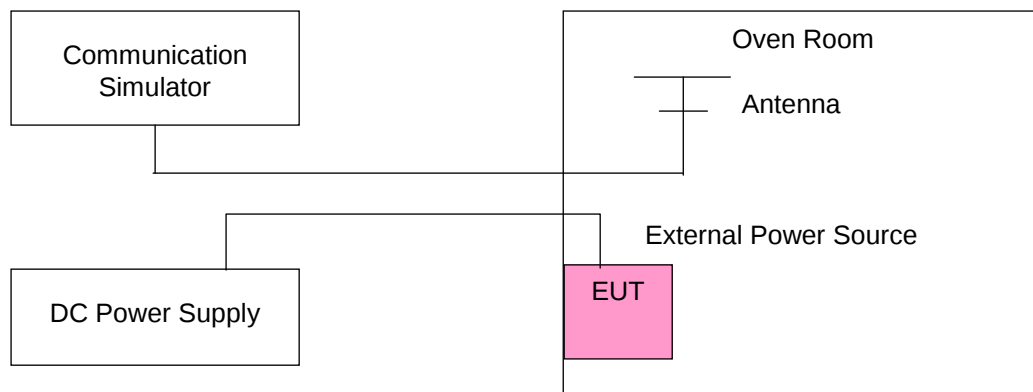
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.3.2 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.

4.3.3 Test Setup



4.3.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	CDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	817.900001	0.001	822.750003	0.004	2.5
3.27	817.900003	0.003	822.750004	0.004	2.5
4.43	817.900001	0.002	822.750002	0.003	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.27 Vdc to 4.43 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	CDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	817.900001	0.001	822.750001	0.002	2.5
-20	817.900001	0.002	822.750002	0.002	2.5
-10	817.900003	0.003	822.750002	0.003	2.5
0	817.900002	0.002	822.750004	0.005	2.5
10	817.900003	0.003	822.750003	0.004	2.5
20	817.899998	-0.002	822.749997	-0.003	2.5
30	817.899997	-0.004	822.749997	-0.004	2.5
40	817.899998	-0.003	822.749998	-0.002	2.5
50	817.899999	-0.001	822.749997	-0.003	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	814.700003	0.004	823.300000	0.002	2.5
3.27	814.700003	0.004	823.300000	0.002	2.5
4.43	814.700003	0.003	823.300000	0.005	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.27 Vdc to 4.43 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	814.700002	0.002	823.300000	0.002	2.5
-20	814.700001	0.001	823.300000	0.004	2.5
-10	814.700003	0.004	823.300000	0.003	2.5
0	814.700003	0.003	823.300000	0.005	2.5
10	814.700001	0.002	823.300000	0.003	2.5
20	814.699998	-0.002	823.300000	0.004	2.5
30	814.699999	-0.001	823.300000	0.005	2.5
40	814.699997	-0.004	823.300000	0.004	2.5
50	814.699997	-0.004	823.300000	0.003	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	815.500004	0.005	822.500000	0.002	2.5
3.27	815.500002	0.002	822.500000	0.002	2.5
4.43	815.500001	0.001	822.500000	0.003	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.27 Vdc to 4.43 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	815.500003	0.003	822.500000	0.005	2.5
-20	815.500002	0.002	822.500000	0.003	2.5
-10	815.500003	0.004	822.500000	0.003	2.5
0	815.500004	0.005	822.500000	0.001	2.5
10	815.500004	0.004	822.500000	0.003	2.5
20	815.499999	-0.001	822.500000	0.005	2.5
30	815.499998	-0.002	822.500000	0.005	2.5
40	815.499997	-0.004	822.500000	0.002	2.5
50	815.499997	-0.004	822.500000	0.004	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	816.500003	0.003	821.500000	0.004	2.5
3.27	816.500004	0.005	821.500000	0.002	2.5
4.43	816.500004	0.005	821.500000	0.003	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.27 Vdc to 4.43 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	816.500003	0.003	821.500000	0.002	2.5
-20	816.500001	0.002	821.500000	0.003	2.5
-10	816.500001	0.001	821.500000	0.004	2.5
0	816.500003	0.003	821.500000	0.002	2.5
10	816.500003	0.004	821.500000	0.005	2.5
20	816.499997	-0.003	821.500000	0.003	2.5
30	816.499997	-0.004	821.500000	0.003	2.5
40	816.499996	-0.005	821.500000	0.004	2.5
50	816.499998	-0.003	821.500000	0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 26		Limit (ppm)
	Channel Bandwidth: 10 MHz		
	Frequency (MHz)	Frequency Error (ppm)	
3.85	819.000001	0.001	2.5
3.27	819.000004	0.004	2.5
4.43	819.000001	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.27 Vdc to 4.43 Vdc.

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 26		Limit (ppm)
	Channel Bandwidth: 10 MHz		
	Frequency (MHz)	Frequency Error (ppm)	
-30	819.000001	0.001	2.5
-20	819.000003	0.004	2.5
-10	819.000003	0.004	2.5
0	819.000001	0.001	2.5
10	819.000002	0.002	2.5
20	818.999999	-0.002	2.5
30	818.999998	-0.002	2.5
40	818.999997	-0.004	2.5
50	818.999998	-0.002	2.5

4.4 Occupied Bandwidth Measurement

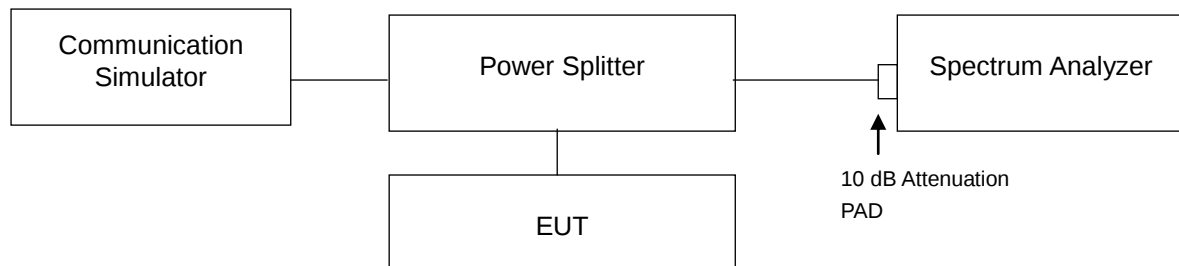
4.4.1 Limits of Occupied Bandwidth Measurement

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.2 Test Procedure

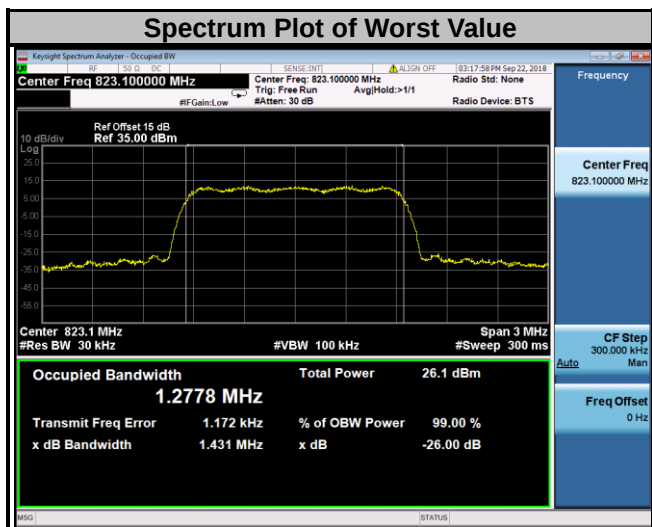
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.4.3 Test Setup

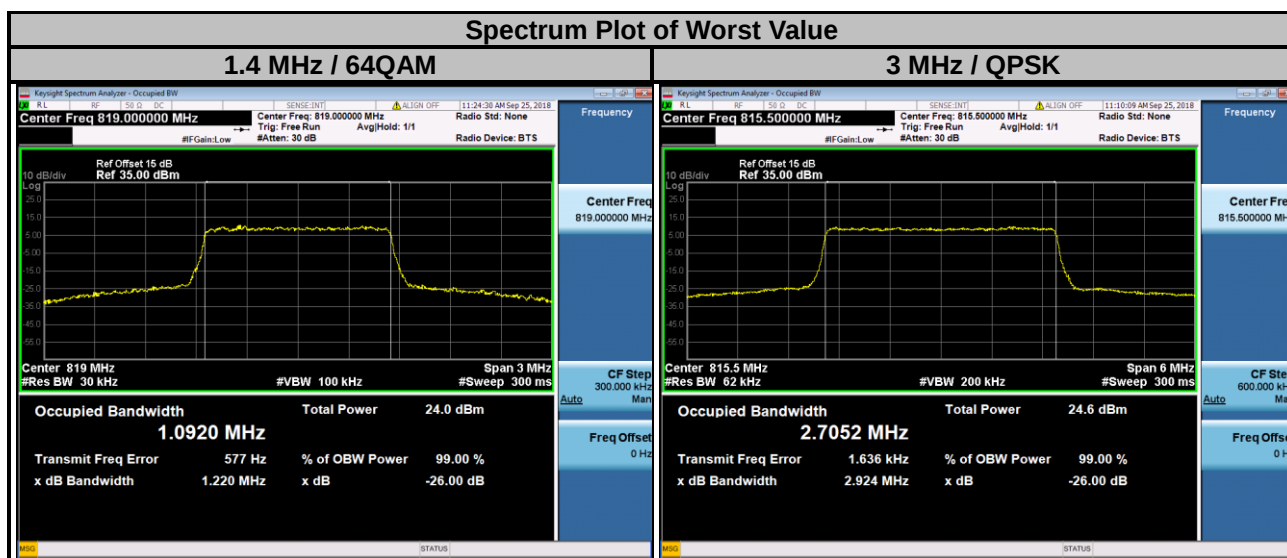


4.4.4 Test Results

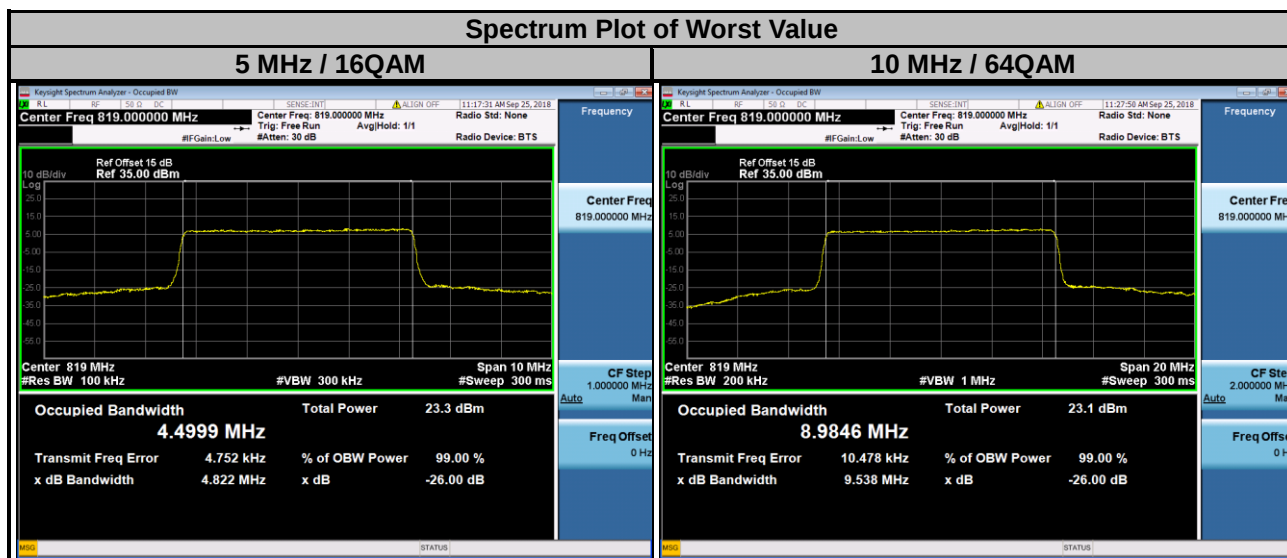
CDMA		
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
476	817.9	1.2762
580	820.5	1.2758
684	823.1	1.2778



LTE Band 26									
Channel Bandwidth: 1.4 MHz					Channel Bandwidth: 3 MHz				
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)			Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
26697	814.7	1.0881	1.0897	1.0878	26705	815.5	2.7052	2.7003	2.6999
26740	819.0	1.0877	1.0905	1.0920	26740	819.0	2.7024	2.7008	2.7015
26783	823.3	1.0875	1.0897	1.0893	26775	822.5	2.7020	2.6993	2.7002



LTE Band 26								
Channel Bandwidth: 5 MHz					Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)			Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM	64QAM			QPSK	16QAM
26715	816.5	4.4987	4.4983	4.4971	26740	819.0	8.9830	8.9785
26740	819.0	4.4963	4.4999	4.4995				
26765	821.5	4.4926	4.4960	4.4983				
							8.9846	



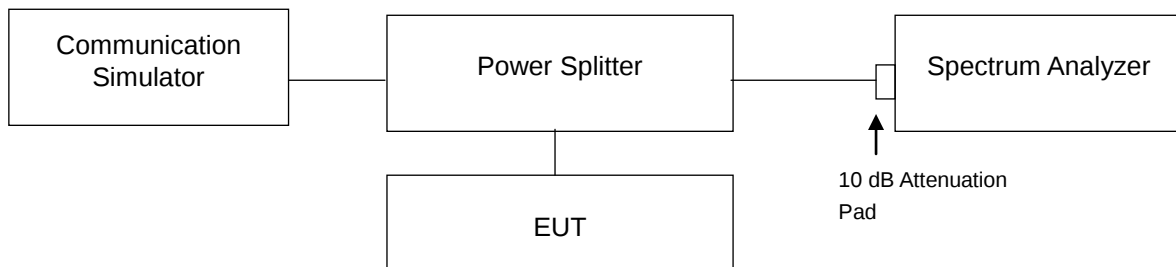
4.5 Emission Mask Measurement

4.5.1 Limits of Emission Mask Measurement

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50+10\log(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43+10\log(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

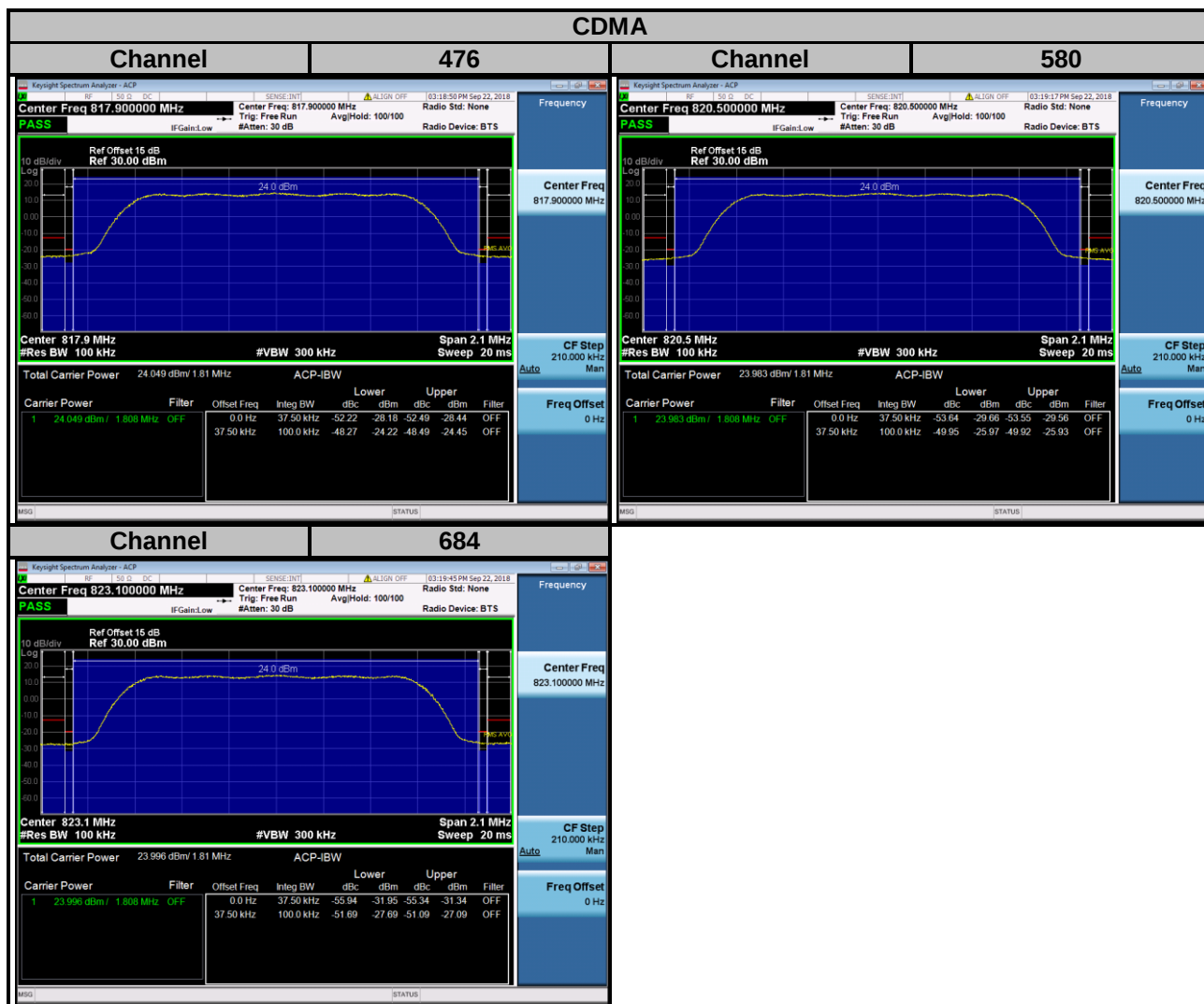
4.5.2 Test Setup



4.5.3 Test Procedures

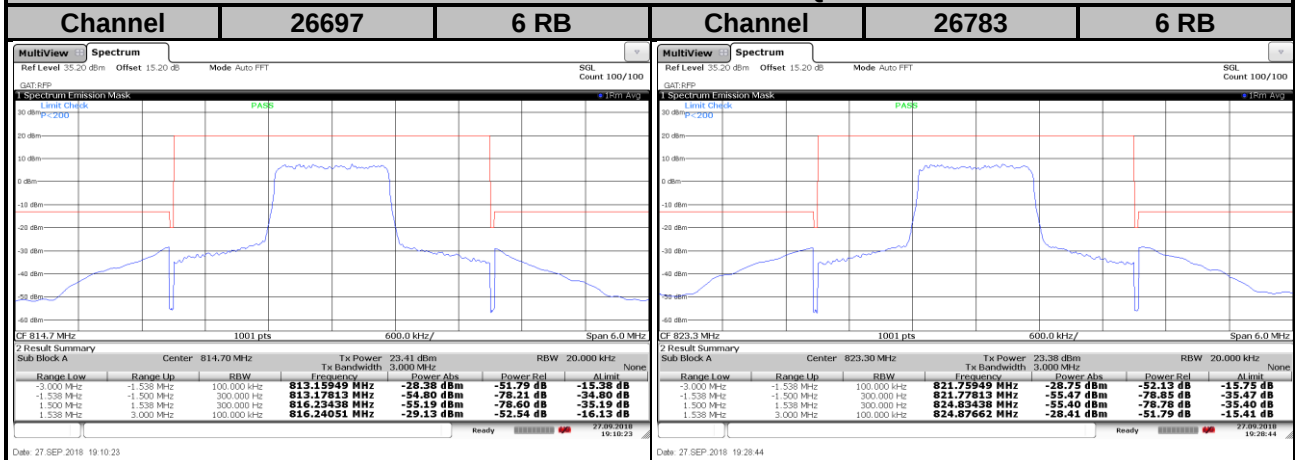
- The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Record the test plot.

4.5.4 Test Results



LTE Band 26

Channel Bandwidth: 1.4 MHz / QPSK



Channel Bandwidth: 1.4 MHz / 16QAM

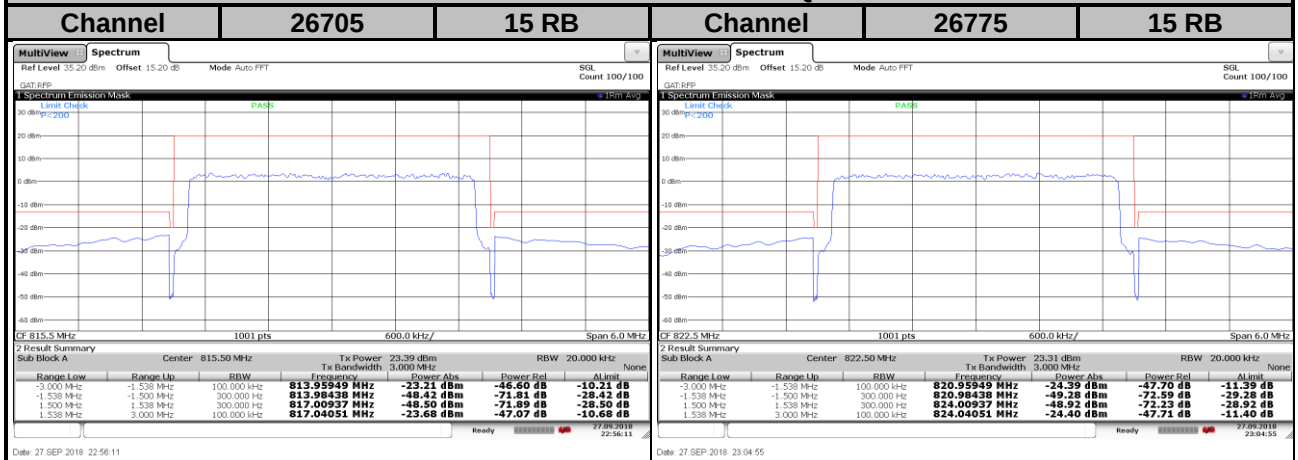


Channel Bandwidth: 1.4 MHz / 64QAM

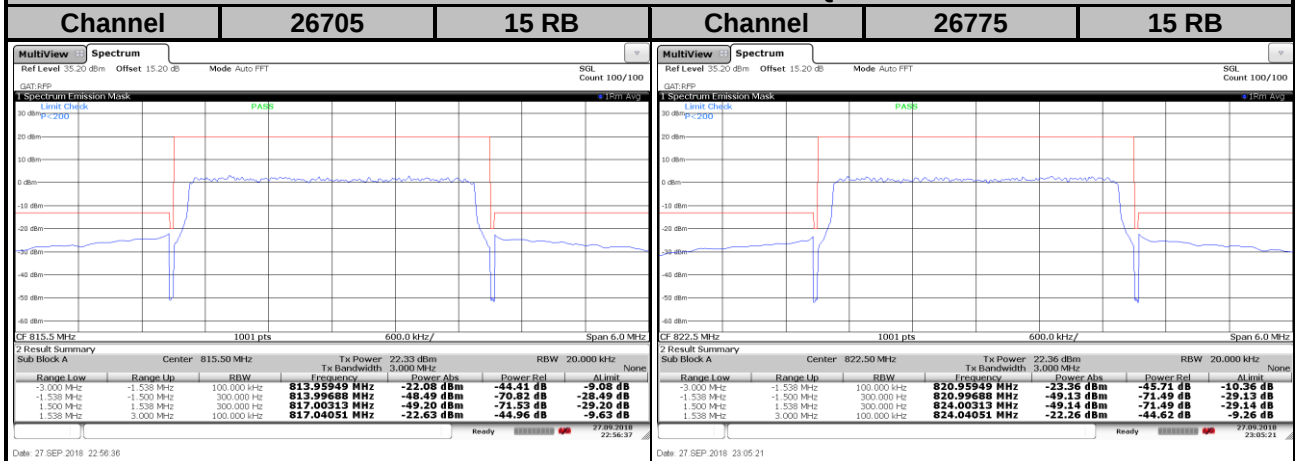


LTE Band 26

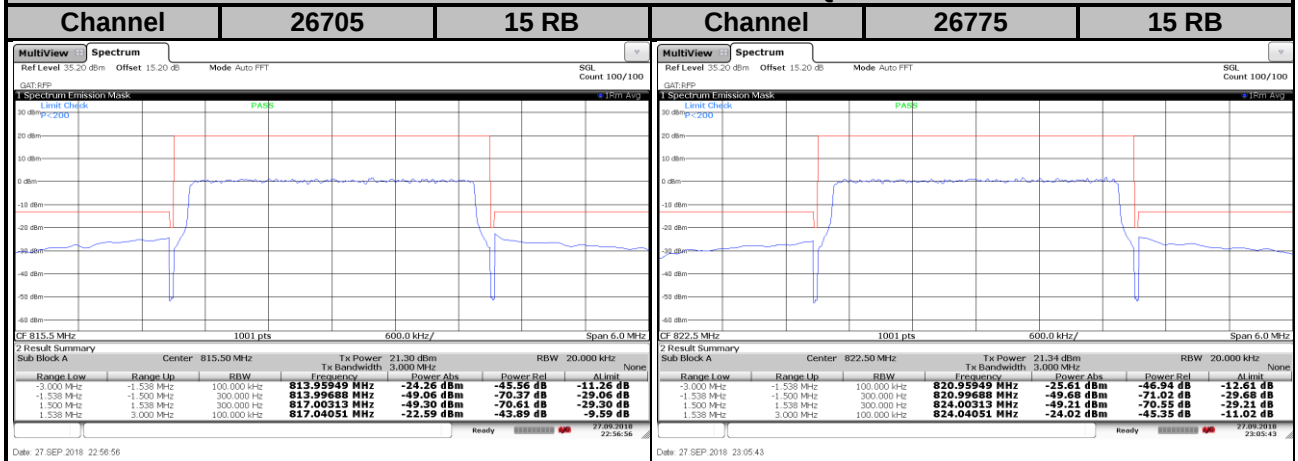
Channel Bandwidth: 3 MHz / QPSK



Channel Bandwidth: 3 MHz / 16QAM

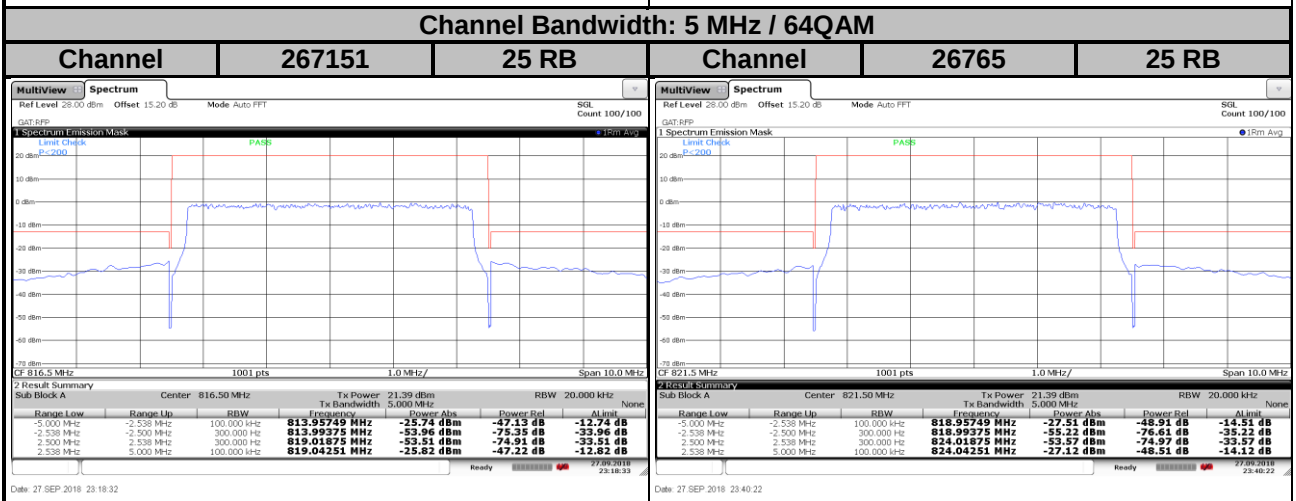
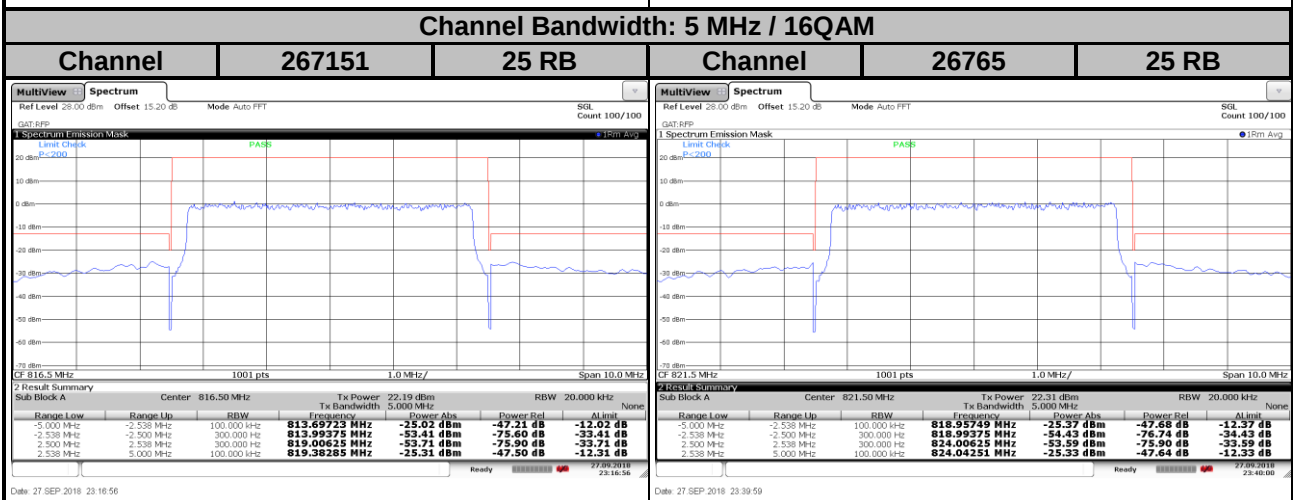
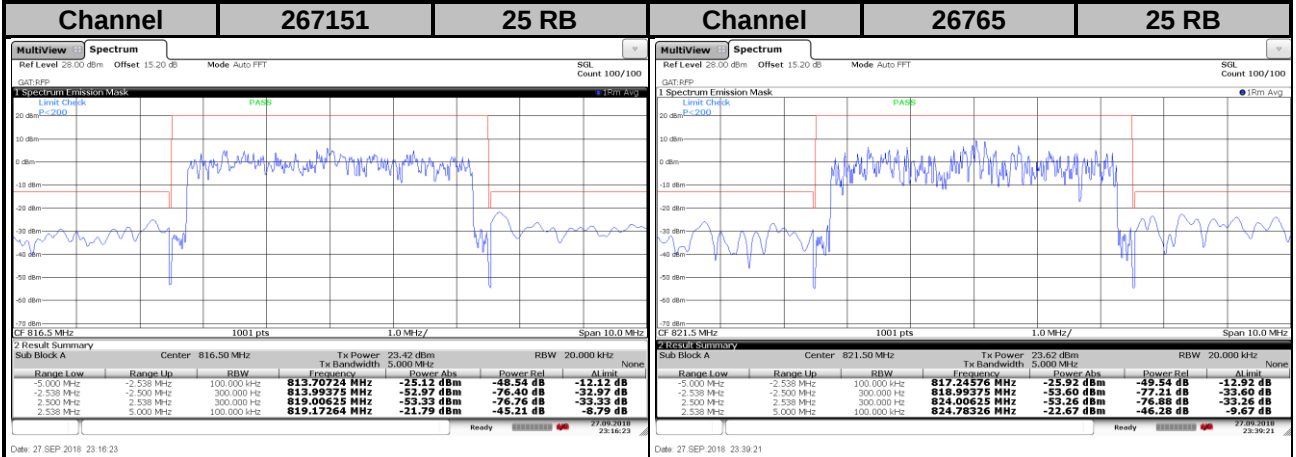


Channel Bandwidth: 3 MHz / 64QAM



LTE Band 26

Channel Bandwidth: 5 MHz / QPSK



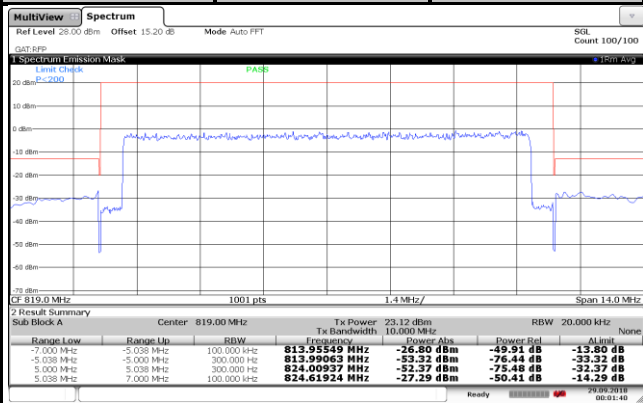
LTE Band 26

Channel Bandwidth: 10 MHz / QPSK

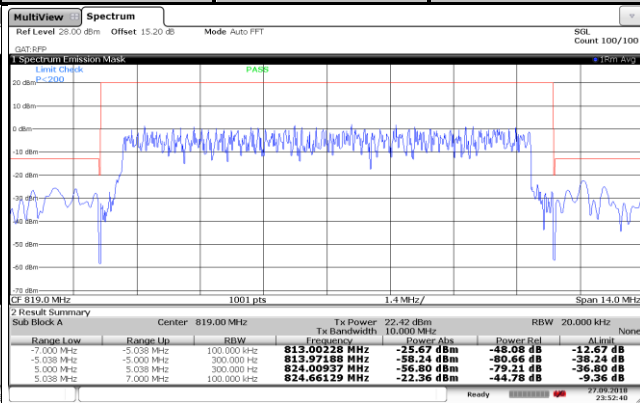
Channel Bandwidth: 10 MHz / 16QAM

Channel 26740 50 RB

Channel 26740 50 RB



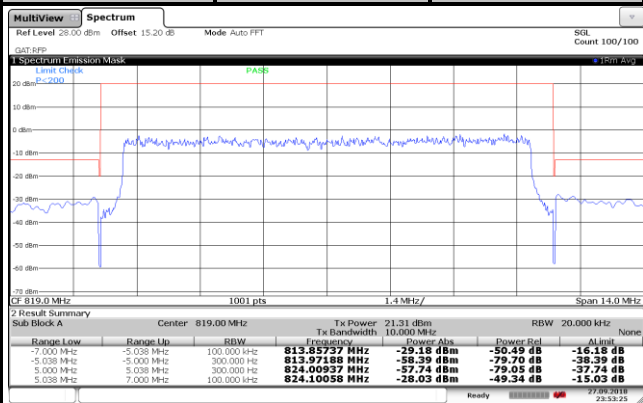
Date: 29 SEP 2018 00:01:40



Date: 27 SEP 2018 23:52:40

Channel Bandwidth: 10 MHz / 64QAM

Channel 26740 50 RB



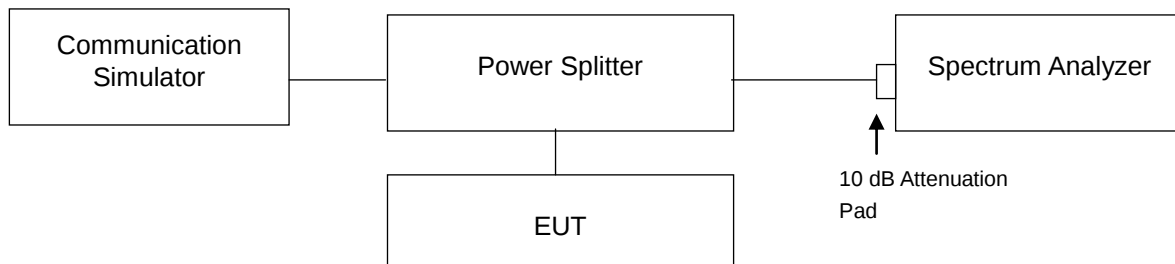
Date: 27 SEP 2018 23:53:24

4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.

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 1 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz are used for conducted emission measurement.
- Measuring frequency range is from 1 GHz to 10 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz are used for conducted emission measurement.

4.6.4 Test Results



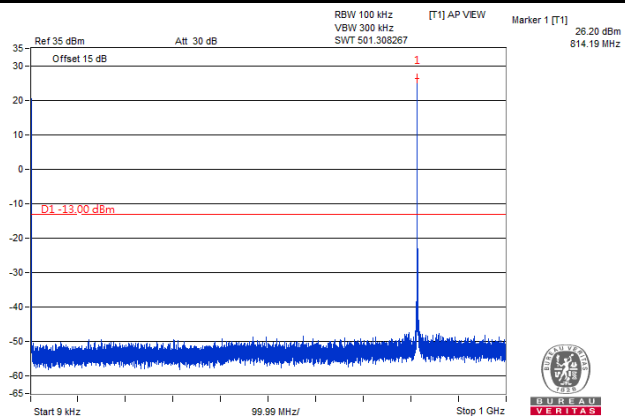
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 26

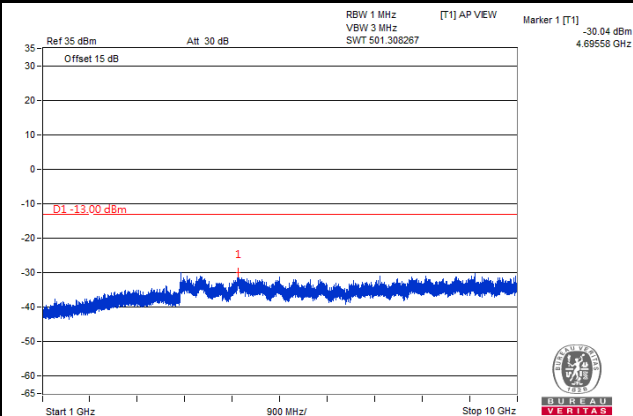
Channel Bandwidth: 1.4 MHz

Channel 26697

Frequency Range: 9 kHz ~ 1 GHz

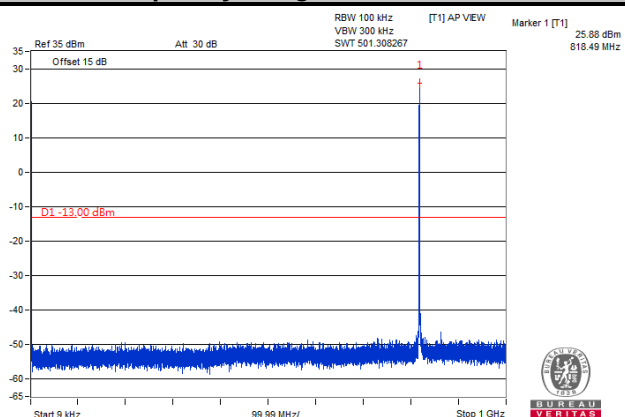


Frequency Range: 1 GHz ~ 10 GHz

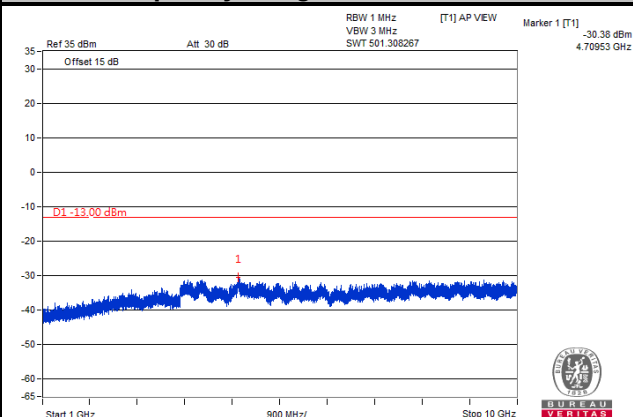


Channel 26740

Frequency Range: 9 kHz ~ 1 GHz

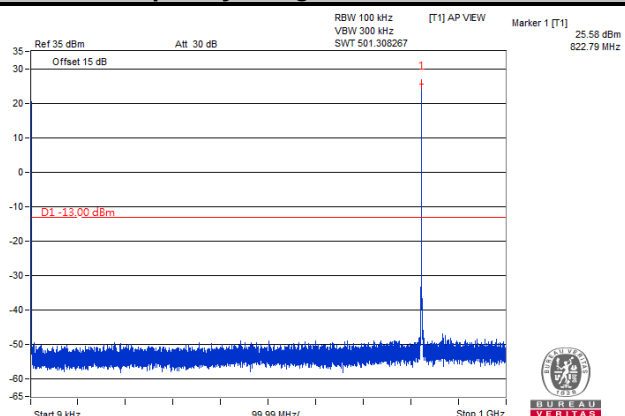


Frequency Range: 1 GHz ~ 10 GHz

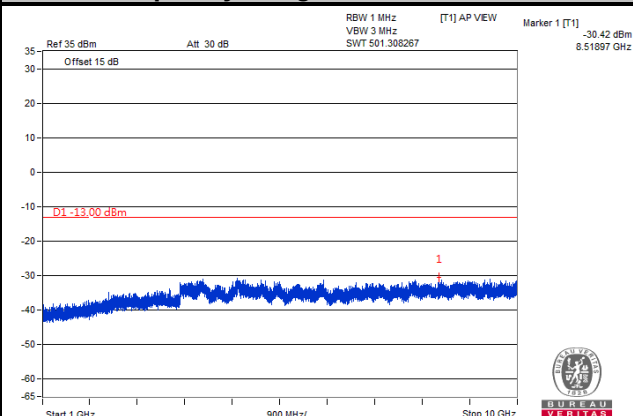


Channel 26783

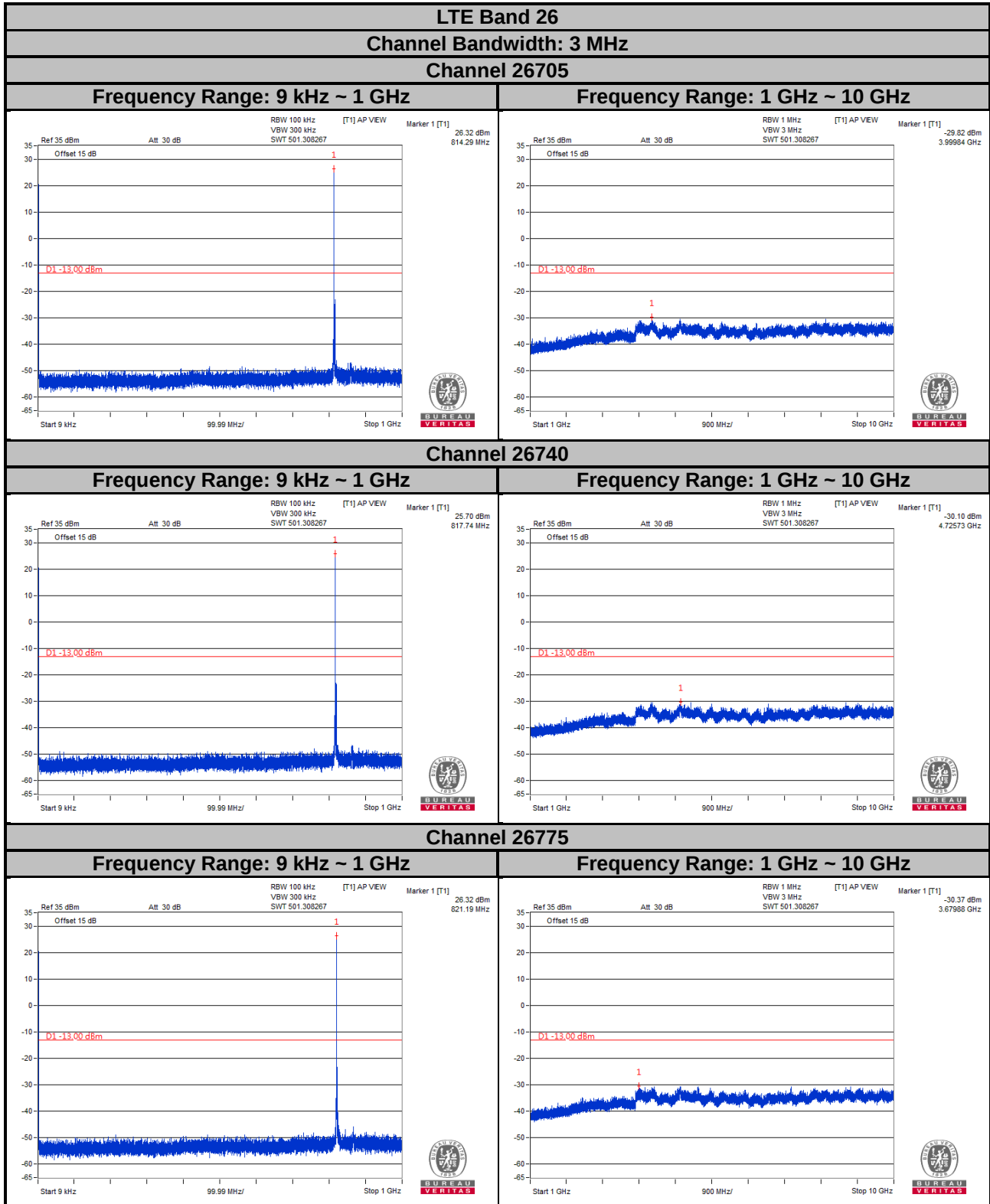
Frequency Range: 9 kHz ~ 1 GHz



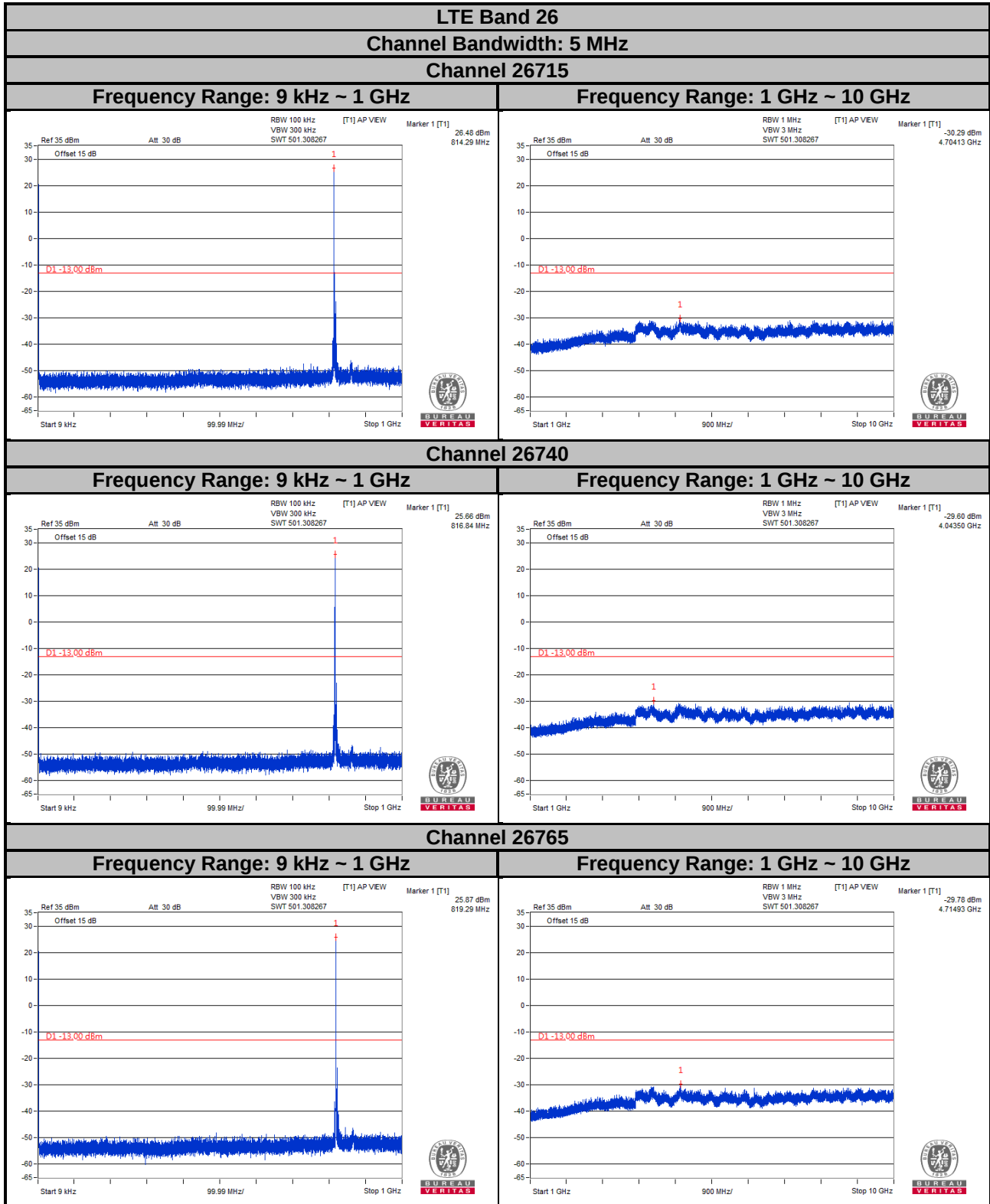
Frequency Range: 1 GHz ~ 10 GHz



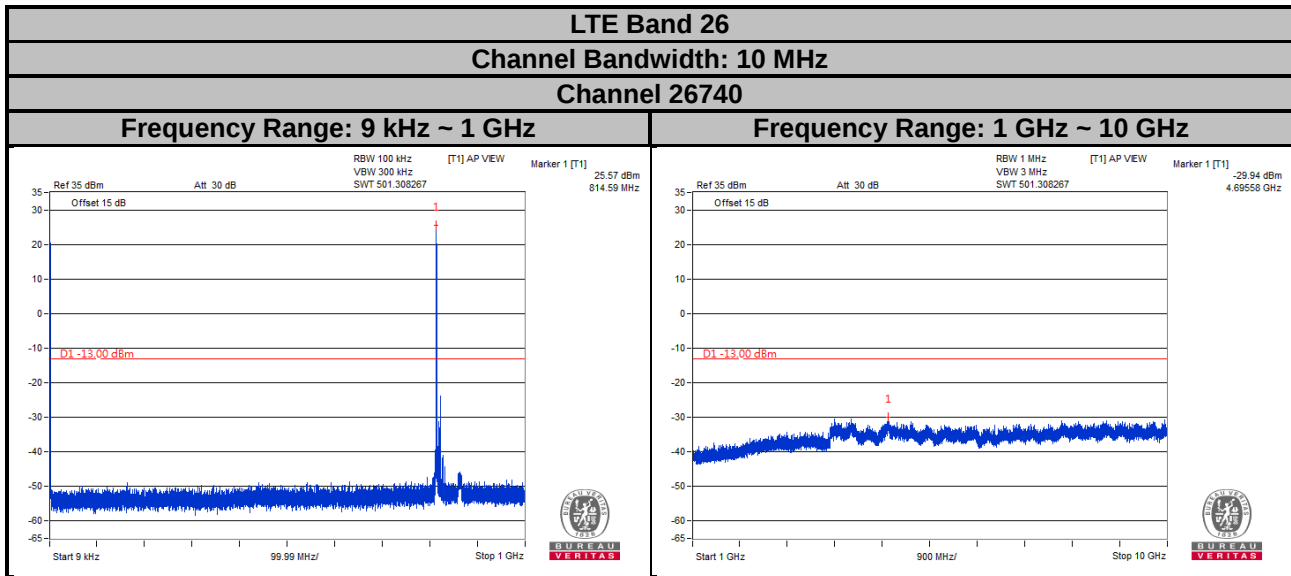
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

- (1) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.

4.7.2 Test Procedure

- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m 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.
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dB}.$

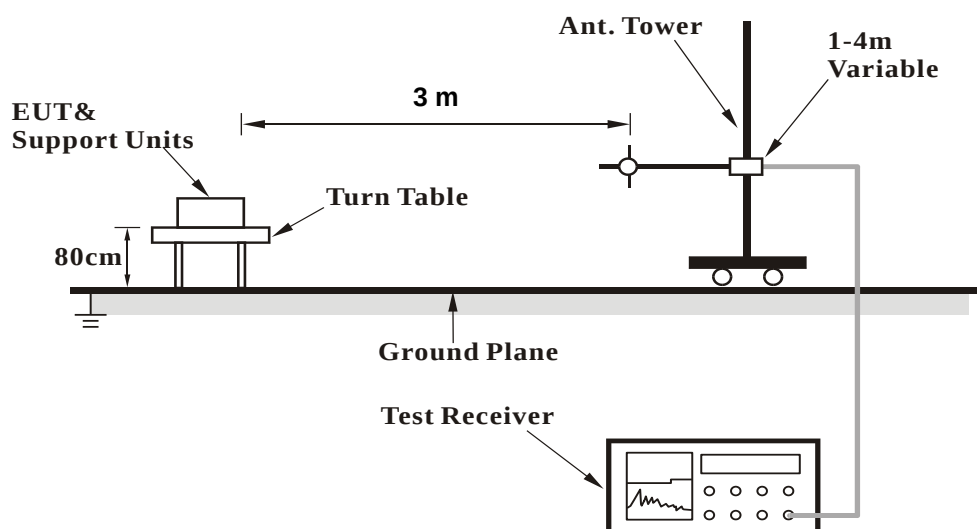
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 Deviation from Test Standard

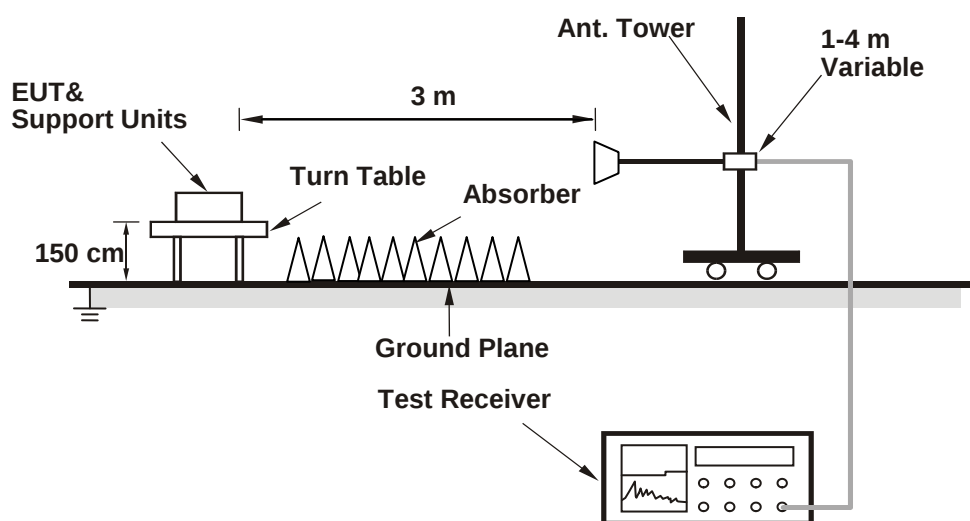
No deviation.

4.7.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.7.5 Test Results

CDMA:

Low Channel

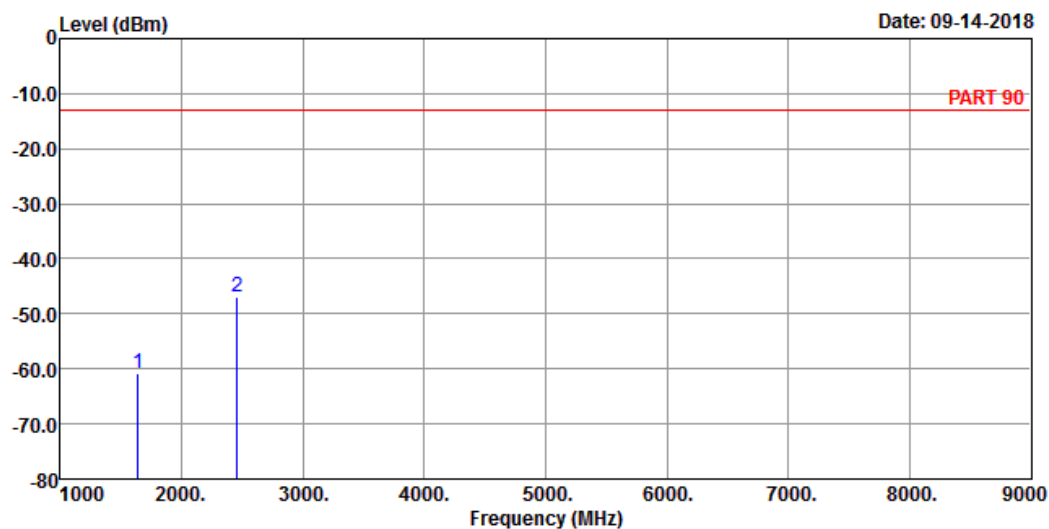


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 09-14-2018



Site : 966 Chamber 5

Condition: PART 90 HORIZONTAL

Remark : CDMA BC10 Link_L-CH

Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1635.80	-60.85	-46.06	-13.00	-47.85	-14.79	Peak
2 pp	2453.70	-46.85	-36.41	-13.00	-33.85	-10.44	Peak

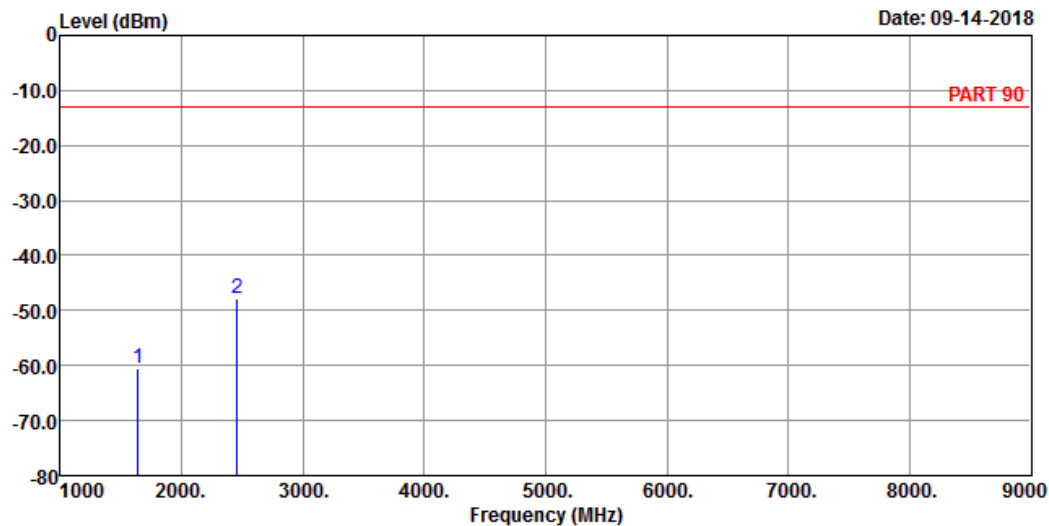


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 09-14-2018



Site : 966 Chamber 5

Condition: PART 90 VERTICAL

Remark : CDMA BC10 Link_L-CH

Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1635.80	-60.64	-45.85	-13.00	-47.64	-14.79	Peak
2 pp	2453.70	-47.95	-37.51	-13.00	-34.95	-10.44	Peak

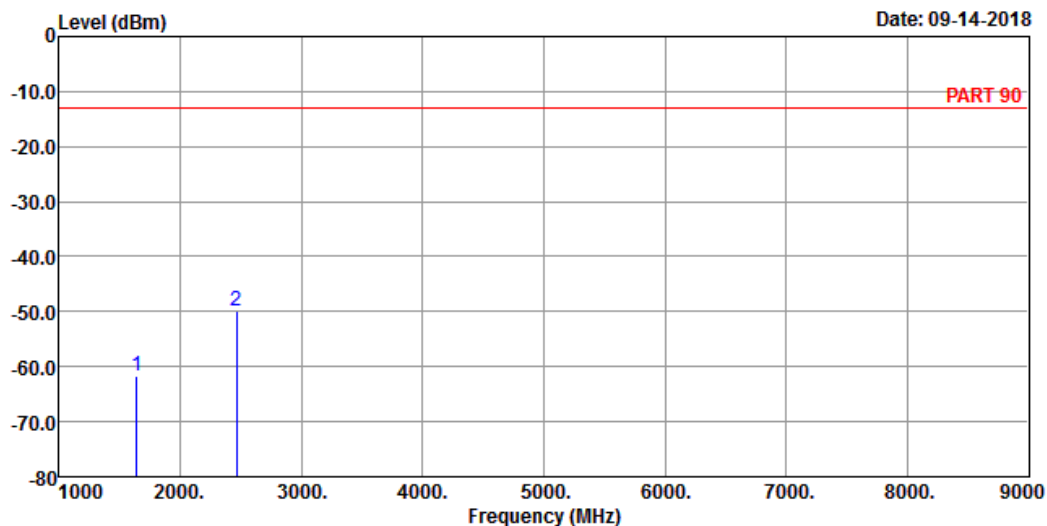
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART 90 HORIZONTAL
Remark : CDMA BC10 Link_M-CH
Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1641.00	-61.75	-47.02	-13.00	-48.75	-14.73	Peak
2 pp	2461.50	-49.85	-39.41	-13.00	-36.85	-10.44	Peak

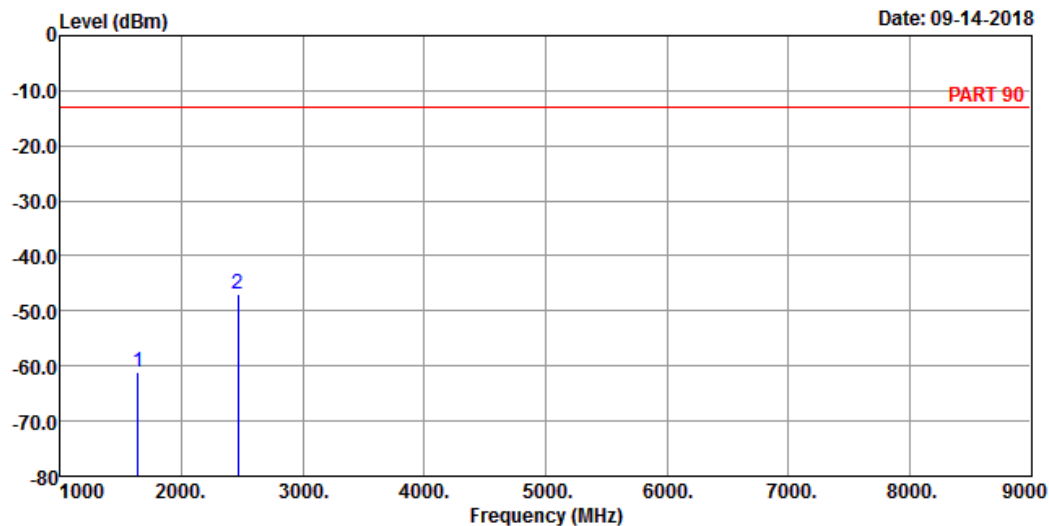


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 09-14-2018



Site : 966 Chamber 5

Condition: PART 90 VERTICAL

Remark : CDMA BC10 Link_M-CH

Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1641.00	-61.23	-46.50	-13.00	-48.23	-14.73	Peak
2 pp	2461.50	-46.95	-36.51	-13.00	-33.95	-10.44	Peak

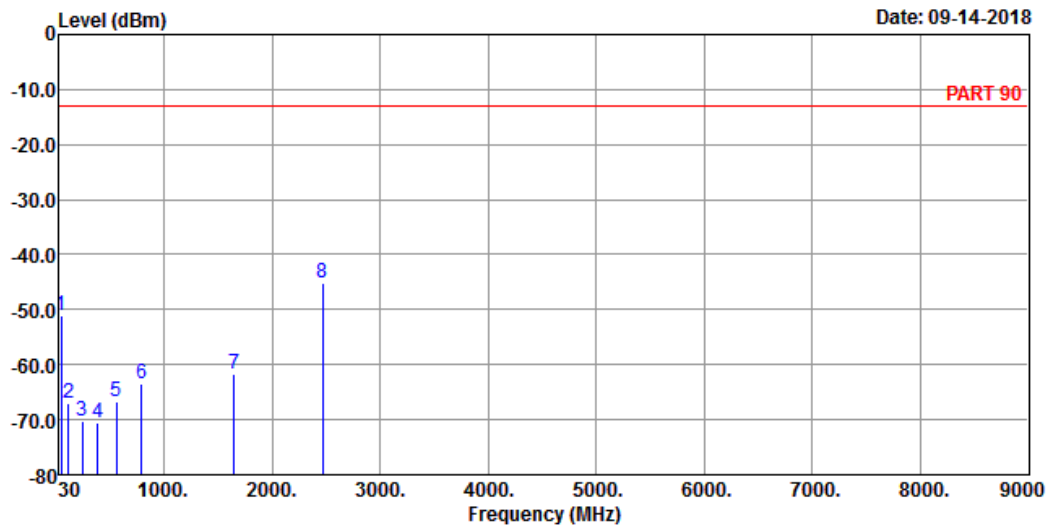
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART 90 HORIZONTAL
Remark : CDMA BC10 Link_H-CH
Tested by: Jisyoung Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-50.93	-49.46	-13.00	-37.93	-1.47	Peak
2	116.33	-66.88	-56.86	-13.00	-53.88	-10.02	Peak
3	241.46	-70.15	-63.81	-13.00	-57.15	-6.34	Peak
4	388.90	-70.47	-64.46	-13.00	-57.47	-6.01	Peak
5	556.71	-66.62	-64.05	-13.00	-53.62	-2.57	Peak
6	791.45	-63.60	-64.36	-13.00	-50.60	0.76	Peak
7	1646.20	-61.78	-47.05	-13.00	-48.78	-14.73	Peak
8 pp	2469.30	-45.23	-34.79	-13.00	-32.23	-10.44	Peak

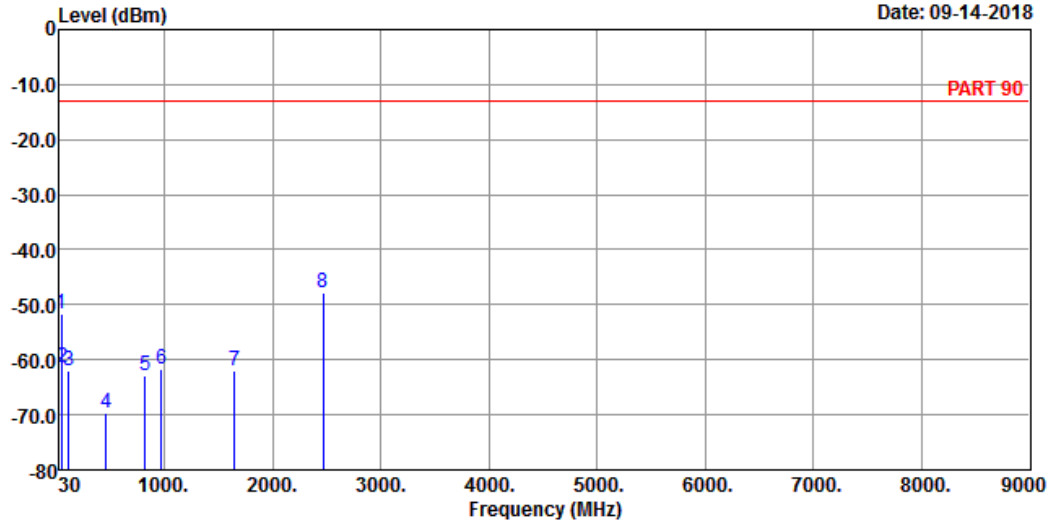


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 09-14-2018



Site : 966 Chamber 5

Condition: PART 90 VERTICAL

Remark : CDMA BC10 Link_H-CH

Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-51.73	-50.26	-13.00	-38.73	-1.47	Peak
2	52.31	-61.29	-55.75	-13.00	-48.29	-5.54	Peak
3	114.39	-62.11	-52.00	-13.00	-49.11	-10.11	Peak
4	463.59	-69.72	-64.42	-13.00	-56.72	-5.30	Peak
5	820.55	-62.82	-63.37	-13.00	-49.82	0.55	Peak
6	972.84	-61.81	-64.43	-13.00	-48.81	2.62	Peak
7	1646.20	-61.85	-47.12	-13.00	-48.85	-14.73	Peak
8 pp	2469.30	-47.85	-37.41	-13.00	-34.85	-10.44	Peak

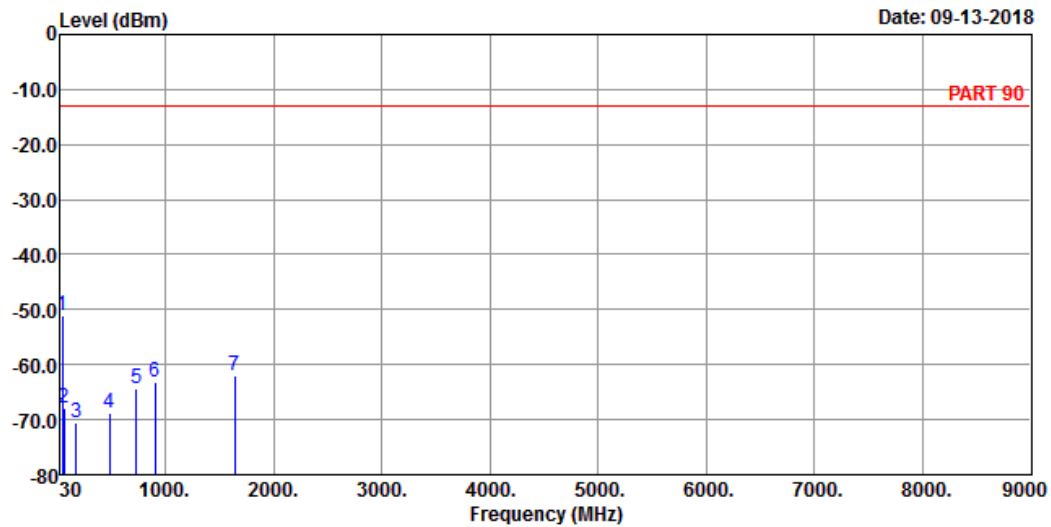
LTE Band 26
Channel Bandwidth: 10 MHz / QPSK
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART 90 HORIZONTAL
Remak : LTE Band 26 QPSK_10M Link_M-CH
Tested by: Thomas Wei

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp	43.58	-50.93	-49.46	-13.00	-37.93	-1.47 Peak
2		61.04	-67.95	-60.21	-13.00	-54.95	-7.74 Peak
3		173.56	-70.68	-64.47	-13.00	-57.68	-6.21 Peak
4		482.02	-68.75	-63.80	-13.00	-55.75	-4.95 Peak
5		728.40	-64.37	-64.83	-13.00	-51.37	0.46 Peak
6		903.97	-63.10	-63.77	-13.00	-50.10	0.67 Peak
7		1638.00	-61.89	-47.10	-13.00	-48.89	-14.79 Peak

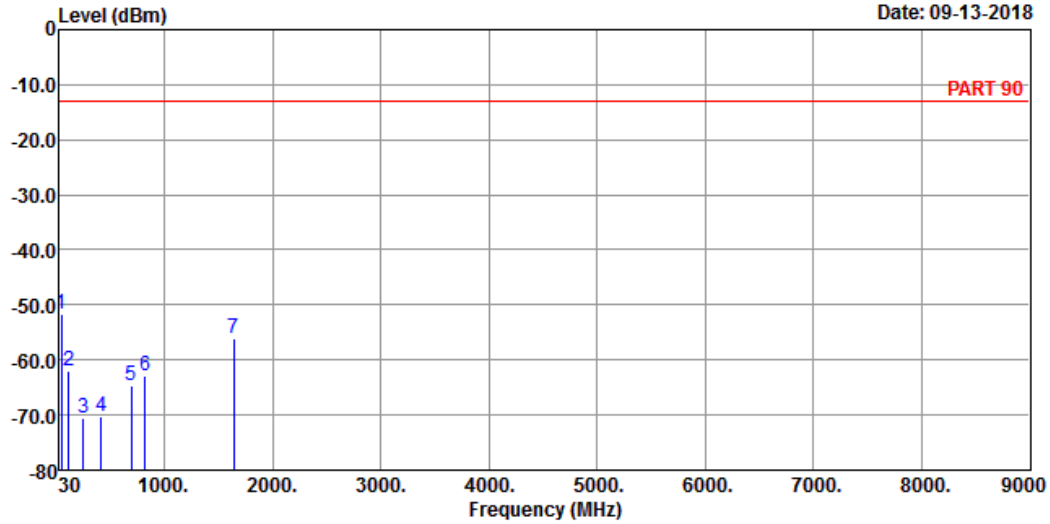


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 09-13-2018



Site : 966 Chamber 5

Condition: PART 90 VERTICAL

Remak : LTE Band 26 QPSK_10M Link_M-CH

Tested by: Thomas Wei

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.58	-51.73	-50.26	-13.00	-38.73	-1.47	Peak
2	114.39	-62.11	-52.00	-13.00	-49.11	-10.11	Peak
3	250.19	-70.49	-64.50	-13.00	-57.49	-5.99	Peak
4	418.97	-70.21	-64.42	-13.00	-57.21	-5.79	Peak
5	696.39	-64.80	-64.64	-13.00	-51.80	-0.16	Peak
6	822.49	-62.76	-63.30	-13.00	-49.76	0.54	Peak
7	1638.00	-56.20	-41.41	-13.00	-43.20	-14.79	Peak

5 Pictures of Test Arrangements

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

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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

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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