

FCC Test Report

(PART 24)

Report No.: RF170301C11-8

FCC ID: NM82PZC500

Test Model: 2PZC500

Received Date: Mar. 01, 2017

Test Date: Mar. 19, 2017 ~ Apr. 28, 2017

Issued Date: May 03, 2017

Applicant: HTC Corporation

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

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(R.O.C)

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Hsien 333, Taiwan, R.O.C.

Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,
R.O.C



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Release Control Record

Issue No.	Description	Date Issued
RF170301C11-8	Original Release	May 03, 2017

1 Certificate of Conformity

Product: Smartphone

Brand: HTC

Test Model: 2PZC500

Sample Status: Production Unit

Applicant: HTC Corporation

Test Date: Mar. 19, 2017 ~ Apr. 28, 2017

Standards: FCC Part 24, Subpart E

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 :  , **Date:** May 03, 2017

Ivonne Wu / Supervisor

Approved by :  , **Date:** May 03, 2017

David Huang / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232(d)	Peak to Average Ratio	Pass	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	Pass	Meet the requirement of limit.
2.1049 24.238(b)	Occupied Bandwidth	Pass	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -28.09 dB at 5729.40 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) (\pm)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
	18 GHz ~ 40 GHz	1.1508 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Jun. 21, 2016	Jun. 20, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 13, 2016	Dec. 12, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 16, 2016	Dec. 15, 2017
HORN Antenna ETS-Lindgren	3117	00143293	Dec. 29, 2016	Dec. 28, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Dec. 27, 2016	Dec. 26, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 13, 2016	Dec. 12, 2017
Fixed Attenuator Mini-Circuits	BW-N10W5+	NA	Jul. 08, 2016	Jul. 07, 2017
MXG Vector signal generator Agilent	N5182B	MY53050430	Oct. 19, 2016	Oct. 18, 2017
Preamplifier Agilent	310N	187226	Jun. 24, 2016	Jun. 23, 2017
Preamplifier Agilent	83017A	MY39501357	Jun. 24, 2016	Jun. 23, 2017
Power Meter Anritsu	ML2495A	1232002	Sep. 08, 2016	Sep. 07, 2017
Power Sensor Anritsu	MA2411B	1207325	Sep. 08, 2016	Sep. 07, 2017
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 24, 2016	Jun. 23, 2017
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 24, 2016	Jun. 23, 2017
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 preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz 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	2PZC500	
Status of EUT	Production Unit	
Power Supply Rating	5 Vdc or 9 Vdc or 12 Vdc (adapter) 5.0 Vdc (host equipment) 3.85 Vdc (Li-ion battery)	
Modulation Type	GSM/GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	QPSK
	CDMA	QPSK, OQPSK, HPSK
	LTE	QPSK, 16QAM
Frequency Range	GSM/GPRS/EDGE	1850.2 ~ 1909.8 MHz
	WCDMA	1852.4 ~ 1907.6 MHz
	CDMA	1851.3 ~ 1908.8 MHz
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1914.3 MHz
	LTE Band 25 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1913.5 MHz
	LTE Band 25 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1912.5 MHz
	LTE Band 25 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1910.0 MHz
	LTE Band 25 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1907.5 MHz
LTE Band 25 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1905.0 MHz	

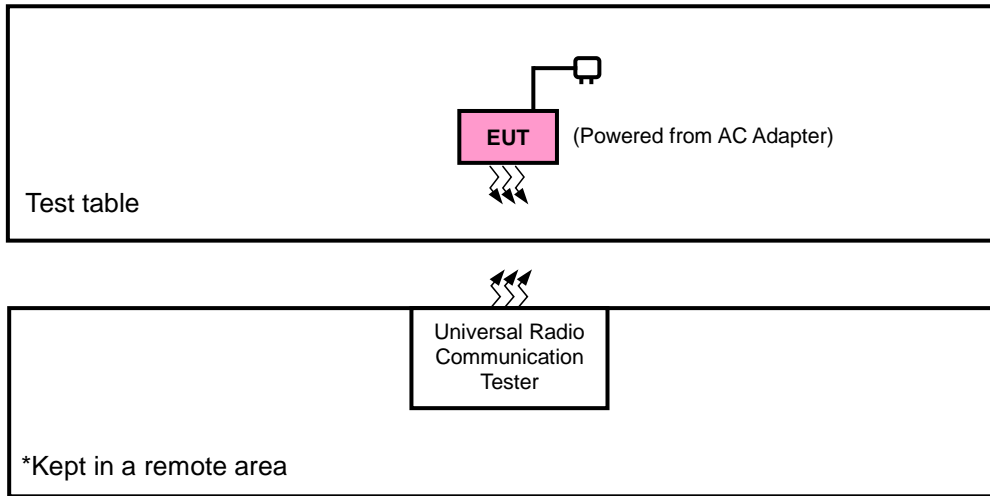
Max. EIRP Power	GSM/GPRS	567.54 mW
	EDGE	227.51 mW
	WCDMA	142.56 mW
	CDMA	181.97 mW
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	114.02 mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	113.24 mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	113.58 mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	113.24 mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	114.55 mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	113.50 mW
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	114.63 mW
	LTE Band 25 (Channel Bandwidth: 3 MHz)	113.76 mW
	LTE Band 25 (Channel Bandwidth: 5 MHz)	114.89 mW
	LTE Band 25 (Channel Bandwidth: 10 MHz)	114.29 mW
	LTE Band 25 (Channel Bandwidth: 15 MHz)	115.16 mW
LTE Band 25 (Channel Bandwidth: 20 MHz)	114.82 mW	
Emission Designator	GSM/GPRS	246KGXW
	EDGE	245KG7W
	WCDMA	4M14F9W
	CDMA	1M28F9W
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 2 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 2 (Channel Bandwidth: 5 MHz)	4M49W7D
	LTE Band 2 (Channel Bandwidth: 10 MHz)	8M97W7D
	LTE Band 2 (Channel Bandwidth: 15 MHz)	13M5G7D
	LTE Band 2 (Channel Bandwidth: 20 MHz)	18M0G7D
	LTE Band 25 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 25 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 25 (Channel Bandwidth: 5 MHz)	4M49W7D
	LTE Band 25 (Channel Bandwidth: 10 MHz)	8M97W7D
	LTE Band 25 (Channel Bandwidth: 15 MHz)	13M5G7D
LTE Band 25 (Channel Bandwidth: 20 MHz)	17M9W7D	
Antenna Type	Fixed Internal Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

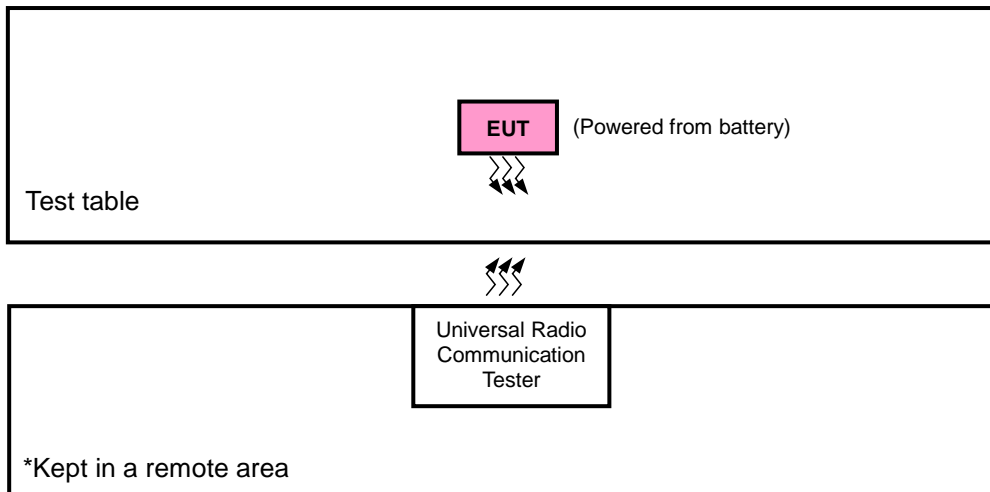
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.I.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:

SIM	Band	EIRP	Radiated Emission
1	GSM	X-plane	X-axis
	EDGE	X-plane	X-axis
	WCDMA	X-plane	X-axis
	CDMA	Y-plane	Y-axis
	LTE Band 2	X-plane	X-axis
	LTE Band 25	X-plane	Y-axis

GSM

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	512 to 810	512, 661, 810	GSM, EDGE
-	Frequency Stability	512 to 810	512, 810	GSM, EDGE
-	Occupied Bandwidth	512 to 810	512, 661, 810	GSM, EDGE
-	Band Edge	512 to 810	512, 810	GSM, EDGE
-	Peak to Average Ratio	512 to 810	512, 661, 810	GSM, EDGE
-	Conducuted Emission	512 to 810	512, 661, 810	GSM, EDGE
-	Radiated Emission	512 to 810	512, 661, 810	GSM, EDGE

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Frequency Stability	9262 to 9538	9262, 9538	WCDMA
-	Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
-	Band Edge	9262 to 9538	9262, 9538	WCDMA
-	Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
-	Condcudeted Emission	9262 to 9538	9262, 9400, 9538	WCDMA
-	Radiated Emission	9262 to 9538	9262, 9400, 9538	WCDMA

CDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	ERP	25 to 1175	25, 600, 1175	1xRTT
-	Frequency Stability	25 to 1175	25, 1175	1xRTT
-	Occupied Bandwidth	25 to 1175	25, 600, 1175	1xRTT
-	Band Edge	25 to 1175	25, 600, 1175	1xRTT
-	Peak to Average Ratio	25 to 1175	25, 1175	1xRTT
-	Condcudeted Emission	25 to 1175	25, 600, 1175	1xRTT
-	Radiated Emission	25 to 1175	25, 600, 1175	1xRTT

LTE Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Frequency Stability	18607 to 19193	18607, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18615, 19185	3 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18650, 19150	10 MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18675, 19125	15 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 19100	20 MHz	QPSK	1 RB / 0 RB Offset
-	Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Peak to Average Ratio	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Band Edge	18607 to 19193	18607	1.4 MHz	QPSK	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			19193	1.4 MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615	3 MHz	QPSK	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			19185	3 MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		18625 to 19175	18625	5 MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			19175	5 MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		18650 to 19150	18650	10 MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset
			19150	10 MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset
		18675 to 19125	18675	15 MHz	QPSK	1 RB / 0 RB Offset 75 RB / 0 RB Offset
			19125	15 MHz	QPSK	1 RB / 74 RB Offset 75 RB / 0 RB Offset
		18700 to 19100	18700	20 MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset
			19100	20 MHz	QPSK	1 RB / 99 RB Offset 100 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Conducted Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	18700 to 19100	18700, 18900, 19100	20 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.

LTE Band 25

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
-	Frequency Stability	26047 to 26683	26047, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26055, 26675	3 MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26065, 26665	5 MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26090, 26640	10 MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26115, 26615	15 MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26140, 26590	20 MHz	QPSK	1 RB / 0 RB Offset
-	Occupied Bandwidth	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK / 16QAM	6 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK / 16QAM	15 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK / 16QAM	50 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK / 16QAM	100 RB / 0 RB Offset
-	Peak to Average Ratio	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15 MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20 MHz	QPSK / 16QAM	1 RB / 0 RB Offset

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode		
-	Band Edge	26047 to 26683	26047	1.4 MHz	QPSK	1 RB / 0 RB Offset 6 RB / 0 RB Offset		
			26683	1.4 MHz	QPSK	1 RB / 5 RB Offset 6 RB / 0 RB Offset		
		26055 to 26675	26055	3 MHz	QPSK	1 RB / 0 RB Offset 1 RB / 0 RB Offset		
			26675	3 MHz	QPSK	1 RB / 14 RB Offset 15 RB / 0 RB Offset		
		26065 to 26665	26065	5 MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			26665	5 MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		26090 to 26640	26090	10 MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			26640	10 MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		26115 to 26615	26115	15 MHz	QPSK	1 RB / 0 RB Offset 75 RB / 0 RB Offset		
			26615	15 MHz	QPSK	1 RB / 74 RB Offset 75 RB / 0 RB Offset		
		26140 to 26590	26140	20 MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset		
			26590	20 MHz	QPSK	1 RB / 99 RB Offset 100 RB / 0 RB Offset		
		-	Conducted Emission	26047 to 26683	26047, 26365, 26683	1.4 MHz	QPSK	1 RB / 0 RB Offset
				26055 to 26675	26055, 26365, 26675	3 MHz	QPSK	1 RB / 0 RB Offset
				26065 to 26665	26065, 26365, 26665	5 MHz	QPSK	1 RB / 0 RB Offset
				26090 to 26640	26090, 26365, 26640	10 MHz	QPSK	1 RB / 0 RB Offset
				26115 to 26615	26115, 26365, 26615	15 MHz	QPSK	1 RB / 0 RB Offset
				26140 to 26590	26140, 26365, 26590	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	26140 to 26590	26140, 26365, 26590	20 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
EIRP	26 deg. C, 58 % RH	3.85 Vdc	Charles Hsiao
Frequency Stability	26 deg. C, 58 % RH	3.85 Vdc	Anson Lin
Occupied Bandwidth	26 deg. C, 58 % RH	3.85 Vdc	Anson Lin
Band Edge	26 deg. C, 58 % RH	3.85 Vdc	Anson Lin
Peak to Average Ratio	26 deg. C, 58 % RH	3.85 Vdc	Anson Lin
Condcudeted Emission	26 deg. C, 58 % RH	3.85 Vdc	Anson Lin
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao

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 24

KDB 971168 D01 Power Meas License Digital Systems v02r02

ANSI/TIA/EIA-603-D 2010

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 2 watts e.i.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

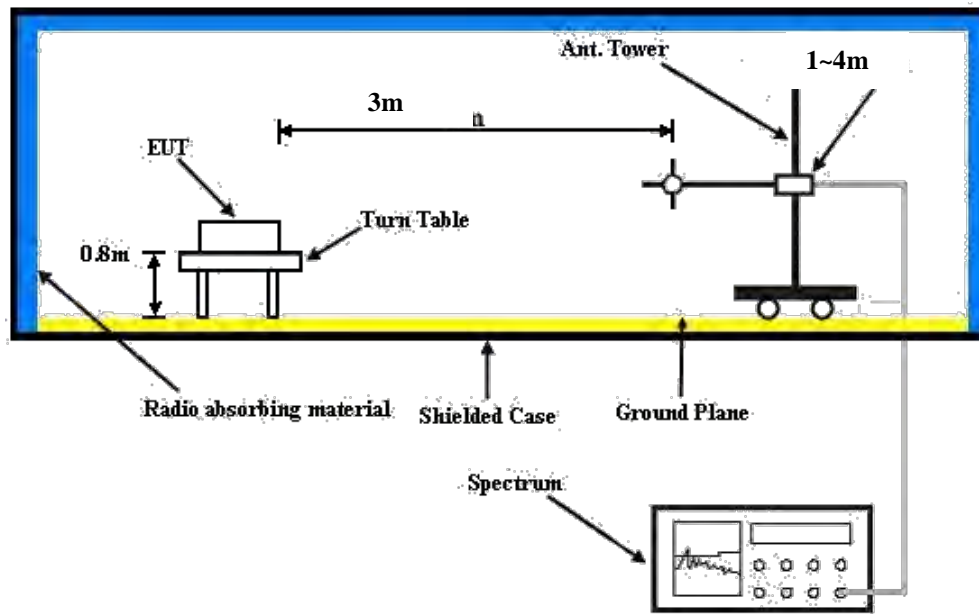
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of 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, CDMA, 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	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GSM (GMSK, 1Tx-slot)	29.64	29.65	29.60
GPRS (GMSK, 1Tx-slot)	29.61	29.62	29.51
GPRS (GMSK, 2Tx-slot)	28.46	28.47	28.42
GPRS (GMSK, 3Tx-slot)	27.72	27.73	27.64
GPRS (GMSK, 4Tx-slot)	26.53	26.60	26.50
EDGE (8PSK, 1Tx-slot)	25.59	25.61	25.49
EDGE (8PSK, 2Tx-slot)	25.00	25.01	24.89
EDGE (8PSK, 3Tx-slot)	23.77	23.78	23.73
EDGE (8PSK, 4Tx-slot)	22.69	22.71	22.66
DTM (GMSK, 2Tx-slot)	28.30	28.31	28.19
DTM (GMSK, 3Tx-slot)	27.54	27.55	27.50
DTM (8PSK, 2Tx-slot)	24.94	24.96	24.89
DTM (8PSK, 3Tx-slot)	23.79	23.80	23.75

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.47	23.36	23.43
HSDPA Subtest-1	22.43	22.33	22.41
HSDPA Subtest-2	22.41	22.29	22.37
HSDPA Subtest-3	22.12	21.93	21.99
HSDPA Subtest-4	21.95	21.84	21.92
HSUPA Subtest-1	22.39	22.28	22.36
HSUPA Subtest-2	20.47	20.27	20.34
HSUPA Subtest-3	21.39	21.28	21.35
HSUPA Subtest-4	20.49	20.29	20.37
HSUPA Subtest-5	22.46	22.36	22.43

Band	CDMA		
Channel	25	600	1175
Frequency (MHz)	1851.25	1880	1908.75
RC1+SO55	24.26	24.38	24.11
RC3+SO55	24.62	24.73	24.49
RC3+SO32 (+F-SCH)	24.22	24.36	24.07
RC3+SO32 (+SCH)	24.15	24.28	24.02
RTAP 153.6	24.44	24.57	24.34
RETAP 4096	24.07	24.25	24.03

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18607	Mid Ch 18900	High Ch 19193		Low Ch 18607	Mid Ch 18900	High Ch 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
2 / 1.4M	1	0	22.44	22.38	22.49	0	21.52	21.41	21.55	1
	1	2	22.16	22.09	22.24	0	21.20	21.15	21.30	1
	1	5	21.92	21.86	22.00	0	20.95	20.90	21.04	1
	3	0	22.00	21.94	22.12	0	21.04	20.96	21.11	1
	3	1	21.80	21.67	21.88	0	20.81	20.69	20.99	1
	3	3	21.57	21.53	21.71	0	20.54	20.51	20.63	1
	6	0	20.90	20.72	20.93	1	19.85	19.69	19.95	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18615	Mid Ch 18900	High Ch 19185		Low Ch 18615	Mid Ch 18900	High Ch 19185	
			1851.5 MHz	1880.0 MHz	1908.5 MHz		1851.5 MHz	1880.0 MHz	1908.5 MHz	
2 / 3M	1	0	22.52	22.44	22.54	0	21.56	21.48	21.59	1
	1	7	22.22	22.15	22.29	0	21.28	21.21	21.34	1
	1	14	22.01	21.94	22.05	0	21.04	20.98	21.12	1
	8	0	21.21	21.16	21.27	1	20.22	20.18	20.29	2
	8	3	21.06	20.95	21.16	1	20.04	19.99	20.12	2
	8	7	20.81	20.77	20.95	1	19.81	19.73	19.86	2
	15	0	20.98	20.86	21.06	1	20.00	19.86	20.08	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18625	Mid Ch 18900	High Ch 19175		Low Ch 18625	Mid Ch 18900	High Ch 19175	
			1852.5 MHz	1880.0 MHz	1907.5 MHz		1852.5 MHz	1880.0 MHz	1907.5 MHz	
2 / 5M	1	0	22.56	22.48	22.60	0	21.63	21.53	21.65	1
	1	12	22.29	22.25	22.41	0	21.35	21.29	21.48	1
	1	24	22.12	22.05	22.22	0	21.12	21.06	21.20	1
	12	0	21.32	21.26	21.36	1	20.34	20.26	20.41	2
	12	6	21.09	21.04	21.20	1	20.13	20.02	20.23	2
	12	13	20.99	20.92	21.03	1	19.93	19.87	20.07	2
	25	0	21.09	21.02	21.16	1	20.09	19.95	20.17	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18650	Mid Ch 18900	High Ch 19150		Low Ch 18650	Mid Ch 18900	High Ch 19150	
			1855.0 MHz	1880.0 MHz	1905.0 MHz		1855.0 MHz	1880.0 MHz	1905.0 MHz	
2 / 10M	1	0	22.60	22.54	22.65	0	21.65	21.60	21.70	1
	1	24	22.37	22.31	22.46	0	21.38	21.34	21.53	1
	1	49	22.16	22.13	22.25	0	21.21	21.17	21.29	1
	25	0	21.39	21.35	21.47	1	20.43	20.38	20.52	2
	25	12	21.24	21.19	21.33	1	20.25	20.19	20.35	2
	25	25	21.13	21.07	21.19	1	20.10	20.03	20.19	2
	50	0	21.23	21.16	21.27	1	20.22	20.14	20.29	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18675	Mid Ch 18900	High Ch 19125		Low Ch 18675	Mid Ch 18900	High Ch 19125	
			1857.5 MHz	1880.0 MHz	1902.5 MHz		1857.5 MHz	1880.0 MHz	1902.5 MHz	
2 / 15M	1	0	22.68	22.63	22.70	0	21.72	21.67	21.75	1
	1	37	22.46	22.41	22.54	0	21.48	21.40	21.52	1
	1	74	22.27	22.24	22.34	0	21.24	21.20	21.30	1
	36	0	21.51	21.47	21.63	1	20.49	20.42	20.55	2
	36	19	21.38	21.34	21.43	1	20.32	20.29	20.42	2
	36	39	21.28	21.23	21.32	1	20.21	20.17	20.29	2
	75	0	21.38	21.32	21.40	1	20.30	20.24	20.36	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18700	Mid Ch 18900	High Ch 19100		Low Ch 18700	Mid Ch 18900	High Ch 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
2 / 20M	1	0	22.73	22.68	22.75	0	21.78	21.72	21.80	1
	1	50	22.53	22.48	22.62	0	21.55	21.51	21.61	1
	1	99	22.36	22.32	22.40	0	21.38	21.33	21.48	1
	50	0	21.61	21.57	21.71	1	20.61	20.56	20.73	2
	50	25	21.50	21.46	21.55	1	20.48	20.44	20.58	2
	50	50	21.42	21.37	21.44	1	20.36	20.32	20.42	2
	100	0	21.49	21.44	21.51	1	20.45	20.42	20.50	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26047	Mid Ch 26365	High Ch 26683		Low Ch 26047	Mid Ch 26365	High Ch 26683	
			1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz	
25 / 1.4M	1	0	22.60	22.50	22.63	0	21.64	21.55	21.68	1
	1	2	22.28	22.20	22.38	0	21.30	21.23	21.42	1
	1	5	22.06	21.98	22.12	0	21.09	20.99	21.16	1
	3	0	21.98	21.82	22.17	0	20.93	20.78	21.15	1
	3	1	21.89	21.75	21.95	0	20.83	20.70	20.90	1
	3	3	21.75	21.63	21.79	0	20.70	20.59	20.78	1
	6	0	21.13	20.94	21.16	1	20.09	19.93	20.16	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26055	Mid Ch 26365	High Ch 26675		Low Ch 26055	Mid Ch 26365	High Ch 26675	
			1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz	
25 / 3M	1	0	22.65	22.56	22.68	0	21.70	21.59	21.73	1
	1	7	22.41	22.31	22.45	0	21.36	21.32	21.48	1
	1	14	22.17	22.09	22.22	0	21.20	21.11	21.24	1
	8	0	21.15	21.05	21.27	1	20.25	20.03	20.29	2
	8	3	21.10	20.96	21.13	1	20.10	19.96	20.16	2
	8	7	20.94	20.88	21.05	1	19.96	19.83	20.03	2
	15	0	21.19	21.07	21.27	1	20.25	20.10	20.29	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26065	Mid Ch 26365	High Ch 26665		Low Ch 26065	Mid Ch 26365	High Ch 26665	
			1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz	
25 / 5M	1	0	22.68	22.58	22.72	0	21.77	21.69	21.78	1
	1	12	22.42	22.34	22.46	0	21.50	21.43	21.57	1
	1	24	22.21	22.15	22.29	0	21.27	21.21	21.35	1
	12	0	21.30	21.17	21.38	1	20.34	20.16	20.40	2
	12	6	21.23	21.13	21.27	1	20.20	20.09	20.26	2
	12	13	21.13	21.04	21.15	1	20.06	20.01	20.10	2
25	0	21.31	21.18	21.34	1	20.34	20.20	20.38	2	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26090	Mid Ch 26365	High Ch 26640		Low Ch 26090	Mid Ch 26365	High Ch 26640	
			1855.0 MHz	1882.5 MHz	1910.0 MHz		1855.0 MHz	1882.5 MHz	1910.0 MHz	
25 / 10M	1	0	22.76	22.69	22.78	0	21.81	21.73	21.83	1
	1	24	22.53	22.47	22.58	0	21.55	21.50	21.61	1
	1	49	22.37	22.27	22.40	0	21.38	21.30	21.48	1
	25	0	21.41	21.31	21.55	1	20.42	20.31	20.52	2
	25	12	21.37	21.26	21.44	1	20.35	20.27	20.41	2
	25	25	21.22	21.18	21.34	1	20.20	20.14	20.29	2
50	0	21.44	21.34	21.48	1	20.46	20.34	20.48	2	

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26115	Mid Ch 26365	High Ch 26615		Low Ch 26115	Mid Ch 26365	High Ch 26615	
			1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz	
25 / 15M	1	0	22.81	22.74	22.82	0	21.85	21.76	21.87	1
	1	37	22.60	22.51	22.66	0	21.60	21.55	21.64	1
	1	74	22.41	22.34	22.43	0	21.45	21.35	21.50	1
	36	0	21.51	21.44	21.55	1	20.53	20.43	20.64	2
	36	19	21.49	21.40	21.51	1	20.46	20.38	20.50	2
	36	39	21.37	21.33	21.42	1	20.34	20.30	20.41	2
	75	0	21.53	21.45	21.55	1	20.50	20.44	20.57	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26140	Mid Ch 26365	High Ch 26590		Low Ch 26140	Mid Ch 26365	High Ch 26590	
			1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz	
25 / 20M	1	0	22.87	22.80	22.88	0	21.91	21.84	21.93	1
	1	50	22.67	22.60	22.75	0	21.70	21.63	21.77	1
	1	99	22.50	22.45	22.56	0	21.51	21.47	21.56	1
	50	0	21.64	21.58	21.69	1	20.64	20.54	20.72	2
	50	25	21.59	21.55	21.64	1	20.59	20.51	20.63	2
	50	50	21.54	21.48	21.58	1	20.51	20.44	20.53	2
	100	0	21.66	21.59	21.67	1	20.63	20.56	20.67	2

EIRP Power (dBm)

GSM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	512	1850.2	-10.68	38.19	27.51	563.64	H
	661	1880.0	-11.20	38.70	27.50	562.34	
	810	1909.8	-11.81	39.35	27.54	567.54	
	512	1850.2	-15.94	38.48	22.54	179.47	V
	661	1880.0	-16.06	38.59	22.53	179.06	
	810	1909.8	-16.35	38.87	22.52	178.65	

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	512	1850.2	-14.67	38.19	23.52	224.91	H
	661	1880.0	-15.13	38.70	23.57	227.51	
	810	1909.8	-15.85	39.35	23.50	223.87	
	512	1850.2	-19.97	38.48	18.51	70.96	V
	661	1880.0	-20.06	38.59	18.53	71.29	
	810	1909.8	-20.34	38.87	18.53	71.29	

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	9262	1852.4	-16.67	38.19	21.52	141.91	H
	9400	1880.0	-17.16	38.70	21.54	142.56	
	9538	1907.6	-17.90	39.35	21.45	139.64	
	9262	1852.4	-21.90	38.48	16.58	45.50	V
	9400	1880.0	-22.09	38.59	16.50	44.67	
	9538	1907.6	-22.41	38.87	16.46	44.26	

CDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	25	1851.25	-22.28	44.70	22.42	174.58	H
	600	1880.00	-22.10	44.70	22.60	181.97	
	1175	1908.75	-22.06	44.57	22.51	178.36	
	25	1851.25	-26.69	44.27	17.58	57.28	V
	600	1880.00	-27.34	44.87	17.53	56.62	
	1175	1908.75	-27.10	44.61	17.51	56.40	

LTE Band 2							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18607	1850.7	-24.13	44.70	20.57	114.02	H
	18900	1880.0	-24.16	44.70	20.54	113.24	
	19193	1909.3	-24.08	44.57	20.49	112.02	
	18607	1850.7	-28.71	44.27	15.56	35.97	V
	18900	1880.0	-29.36	44.87	15.51	35.56	
	19193	1909.3	-29.11	44.61	15.50	35.51	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	18607	1850.7	-25.12	44.70	19.58	90.78	H
	18900	1880.0	-25.18	44.70	19.52	89.54	
	19193	1909.3	-25.03	44.57	19.54	90.01	
	18607	1850.7	-29.70	44.27	14.57	28.64	V
	18900	1880.0	-30.31	44.87	14.56	28.58	
	19193	1909.3	-30.11	44.61	14.50	28.20	

LTE Band 2							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18615	1851.5	-24.18	44.70	20.52	112.72	H
	18900	1880.0	-24.16	44.70	20.54	113.24	
	19185	1908.5	-24.04	44.57	20.53	113.06	
	18615	1851.5	-28.77	44.27	15.50	35.48	V
	18900	1880.0	-29.36	44.87	15.51	35.56	
	19185	1908.5	-29.16	44.61	15.45	35.10	
Channel Bandwidth: 3 MHz / 16QAM							
X	18615	1851.5	-25.16	44.70	19.54	89.95	H
	18900	1880.0	-25.20	44.70	19.50	89.13	
	19185	1908.5	-25.08	44.57	19.49	88.98	
	18615	1851.5	-29.78	44.27	14.49	28.12	V
	18900	1880.0	-30.35	44.87	14.52	28.31	
	19185	1908.5	-30.07	44.61	14.54	28.46	

LTE Band 2							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18625	1852.5	-24.15	44.70	20.55	113.50	H
	18900	1880.0	-24.16	44.70	20.54	113.24	
	19175	1907.5	-24.02	44.57	20.55	113.58	
	18625	1852.5	-28.76	44.27	15.51	35.56	V
	18900	1880.0	-29.34	44.87	15.53	35.73	
	19175	1907.5	-29.08	44.61	15.53	35.75	
Channel Bandwidth: 5 MHz / 16QAM							
X	18625	1852.5	-25.20	44.70	19.50	89.13	H
	18900	1880.0	-25.16	44.70	19.54	89.95	
	19175	1907.5	-25.08	44.57	19.49	88.98	
	18625	1852.5	-29.72	44.27	14.55	28.51	V
	18900	1880.0	-30.36	44.87	14.51	28.25	
	19175	1907.5	-30.01	44.61	14.60	28.86	

LTE Band 2							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18650	1855.0	-24.21	44.70	20.49	111.94	H
	18900	1880.0	-24.16	44.70	20.54	113.24	
	19150	1905.0	-24.08	44.57	20.49	112.02	
	18650	1855.0	-28.76	44.27	15.51	35.56	V
	18900	1880.0	-29.34	44.87	15.53	35.73	
	19150	1905.0	-29.04	44.61	15.57	36.08	
Channel Bandwidth: 10 MHz / 16QAM							
X	18650	1855.0	-25.18	44.70	19.52	89.54	H
	18900	1880.0	-25.17	44.70	19.53	89.74	
	19150	1905.0	-25.06	44.57	19.51	89.39	
	18650	1855.0	-29.70	44.27	14.57	28.64	V
	18900	1880.0	-30.38	44.87	14.49	28.12	
	19150	1905.0	-30.08	44.61	14.53	28.40	

LTE Band 2							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18675	1857.5	-24.18	44.70	20.52	112.72	H
	18900	1880.0	-24.11	44.70	20.59	114.55	
	19125	1902.5	-24.03	44.57	20.54	113.32	
	18675	1857.5	-28.70	44.27	15.57	36.06	V
	18900	1880.0	-29.36	44.87	15.51	35.56	
	19125	1902.5	-29.05	44.61	15.56	36.00	
Channel Bandwidth: 15 MHz / 16QAM							
X	18675	1857.5	-25.20	44.70	19.50	89.13	H
	18900	1880.0	-25.23	44.70	19.47	88.51	
	19125	1902.5	-25.03	44.57	19.54	90.01	
	18675	1857.5	-29.80	44.27	14.47	27.99	V
	18900	1880.0	-30.41	44.87	14.46	27.93	
	19125	1902.5	-30.02	44.61	14.59	28.79	

LTE Band 2							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	18700	1860.0	-24.15	44.70	20.55	113.50	H
	18900	1880.0	-24.19	44.70	20.51	112.46	
	19100	1900.0	-24.04	44.57	20.53	113.06	
	18700	1860.0	-28.76	44.27	15.51	35.56	V
	18900	1880.0	-29.34	44.87	15.53	35.73	
	19100	1900.0	-29.15	44.61	15.46	35.18	
Channel Bandwidth: 20 MHz / 16QAM							
X	18700	1860.0	-25.18	44.70	19.52	89.54	H
	18900	1880.0	-25.16	44.70	19.54	89.95	
	19100	1900.0	-25.08	44.57	19.49	88.98	
	18700	1860.0	-29.71	44.27	14.56	28.58	V
	18900	1880.0	-30.20	44.87	14.67	29.31	
	19100	1900.0	-30.11	44.61	14.50	28.20	

LTE Band 25							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26047	1850.7	-24.12	44.70	20.58	114.29	H
	26365	1882.5	-24.18	44.70	20.52	112.72	
	26683	1914.3	-23.98	44.57	20.59	114.63	
	26047	1850.7	-28.68	44.27	15.59	36.22	V
	26365	1882.5	-29.34	44.87	15.53	35.73	
	26683	1914.3	-29.13	44.61	15.48	35.34	
Channel Bandwidth: 1.4 MHz / 16QAM							
X	26047	1850.7	-25.23	44.70	19.47	88.51	H
	26365	1882.5	-25.11	44.70	19.59	90.99	
	26683	1914.3	-25.06	44.57	19.51	89.39	
	26047	1850.7	-29.77	44.27	14.50	28.18	V
	26365	1882.5	-30.23	44.87	14.64	29.11	
	26683	1914.3	-30.06	44.61	14.55	28.53	

LTE Band 25							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26055	1851.5	-24.14	44.70	20.56	113.76	H
	26365	1882.5	-24.29	44.70	20.41	109.90	
	26675	1913.5	-24.07	44.57	20.50	112.28	
	26055	1851.5	-28.76	44.27	15.51	35.56	V
	26365	1882.5	-29.35	44.87	15.52	35.65	
	26675	1913.5	-29.12	44.61	15.49	35.42	
Channel Bandwidth: 3 MHz / 16QAM							
X	26055	1851.5	-25.16	44.70	19.54	89.95	H
	26365	1882.5	-25.10	44.70	19.60	91.20	
	26675	1913.5	-24.98	44.57	19.59	91.05	
	26055	1851.5	-29.72	44.27	14.55	28.51	V
	26365	1882.5	-30.26	44.87	14.61	28.91	
	26675	1913.5	-30.15	44.61	14.46	27.94	

LTE Band 25							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26065	1852.5	-24.20	44.70	20.50	112.20	H
	26365	1882.5	-24.16	44.70	20.54	113.24	
	26665	1912.5	-23.97	44.57	20.60	114.89	
	26065	1852.5	-28.70	44.27	15.57	36.06	V
	26365	1882.5	-29.26	44.87	15.61	36.39	
	26665	1912.5	-29.15	44.61	15.46	35.18	
Channel Bandwidth: 5 MHz / 16QAM							
X	26065	1852.5	-25.20	44.70	19.50	89.13	H
	26365	1882.5	-25.13	44.70	19.57	90.57	
	26665	1912.5	-25.05	44.57	19.52	89.60	
	26065	1852.5	-29.64	44.27	14.63	29.04	V
	26365	1882.5	-30.33	44.87	14.54	28.44	
	26665	1912.5	-30.07	44.61	14.54	28.46	

LTE Band 25							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26090	1855.0	-24.12	44.70	20.58	114.29	H
	26365	1882.5	-24.16	44.70	20.54	113.24	
	26640	1910.0	-24.12	44.57	20.45	110.99	
	26090	1855.0	-28.72	44.27	15.55	35.89	V
	26365	1882.5	-29.26	44.87	15.61	36.39	
	26640	1910.0	-29.11	44.61	15.50	35.51	
Channel Bandwidth: 10 MHz / 16QAM							
X	26090	1855.0	-25.16	44.70	19.54	89.95	H
	26365	1882.5	-25.13	44.70	19.57	90.57	
	26640	1910.0	-24.96	44.57	19.61	91.47	
	26090	1855.0	-29.73	44.27	14.54	28.44	V
	26365	1882.5	-30.40	44.87	14.47	27.99	
	26640	1910.0	-30.02	44.61	14.59	28.79	

LTE Band 25							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26115	1857.5	-24.11	44.70	20.59	114.55	H
	26365	1882.5	-24.12	44.70	20.58	114.29	
	26615	1907.5	-23.96	44.57	20.61	115.16	
	26115	1857.5	-28.71	44.27	15.56	35.97	V
	26365	1882.5	-29.31	44.87	15.56	35.97	
	26615	1907.5	-29.10	44.61	15.51	35.59	
Channel Bandwidth: 15 MHz / 16QAM							
X	26115	1857.5	-25.13	44.70	19.57	90.57	H
	26365	1882.5	-25.16	44.70	19.54	89.95	
	26615	1907.5	-25.03	44.57	19.54	90.01	
	26115	1857.5	-29.78	44.27	14.49	28.12	V
	26365	1882.5	-30.24	44.87	14.63	29.04	
	26615	1907.5	-30.08	44.61	14.53	28.40	

LTE Band 25							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	26140	1860.0	-24.16	44.70	20.54	113.24	H
	26365	1882.5	-24.10	44.70	20.60	114.82	
	26590	1905.0	-24.08	44.57	20.49	112.02	
	26140	1860.0	-28.73	44.27	15.54	35.81	V
	26365	1882.5	-29.33	44.87	15.54	35.81	
	26590	1905.0	-29.00	44.61	15.61	36.42	
Channel Bandwidth: 20 MHz / 16QAM							
X	26140	1860.0	-25.13	44.70	19.57	90.57	H
	26365	1882.5	-25.06	44.70	19.64	92.04	
	26590	1905.0	-25.01	44.57	19.56	90.43	
	26140	1860.0	-29.78	44.27	14.49	28.12	V
	26365	1882.5	-30.36	44.87	14.51	28.25	
	26590	1905.0	-29.99	44.61	14.62	28.99	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

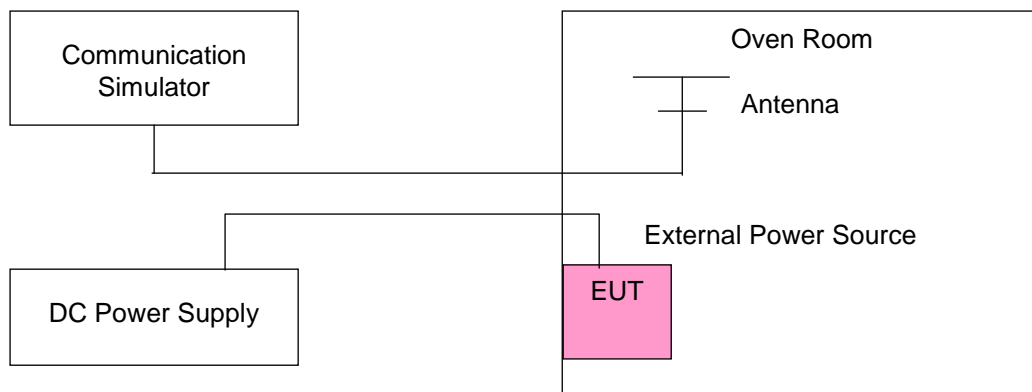
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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)	GSM				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1850.200004	0.002	1909.800002	0.001	2.5
3.6	1850.200002	0.001	1909.800004	0.002	2.5
4.4	1850.200004	0.002	1909.800001	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	GSM				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1850.200003	0.002	1909.800001	0.001	2.5
-20	1850.200004	0.002	1909.800003	0.001	2.5
-10	1850.200004	0.002	1909.800004	0.002	2.5
0	1850.200003	0.002	1909.800003	0.001	2.5
10	1850.200003	0.002	1909.800003	0.002	2.5
20	1850.199997	-0.002	1909.799998	-0.001	2.5
30	1850.199997	-0.002	1909.799998	-0.001	2.5
40	1850.199999	-0.001	1909.799997	-0.001	2.5
50	1850.199998	-0.001	1909.799998	-0.001	2.5
55	1850.199998	-0.001	1909.799998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	EDGE				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1850.200003	0.002	1909.800001	0.001	2.5
3.6	1850.200003	0.002	1909.800003	0.002	2.5
4.4	1850.200002	0.001	1909.800002	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	EDGE				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1850.200004	0.002	1909.800001	0.001	2.5
-20	1850.200002	0.001	1909.800004	0.002	2.5
-10	1850.200002	0.001	1909.800001	0.001	2.5
0	1850.200001	0.001	1909.800001	0.001	2.5
10	1850.200003	0.002	1909.800002	0.001	2.5
20	1850.199997	-0.001	1909.799996	-0.002	2.5
30	1850.199997	-0.002	1909.799997	-0.001	2.5
40	1850.199997	-0.002	1909.799998	-0.001	2.5
50	1850.199999	-0.001	1909.799998	-0.001	2.5
55	1850.199997	-0.002	1909.799999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	WCDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1852.400001	0.001	1907.600002	0.001	2.5
3.6	1852.400001	0.001	1907.600002	0.001	2.5
4.4	1852.400004	0.002	1907.600002	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	WCDMA				Limit (ppm)
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1852.400003	0.002	1907.600004	0.002	2.5
-20	1852.400003	0.002	1907.600003	0.001	2.5
-10	1852.400003	0.001	1907.600002	0.001	2.5
0	1852.400004	0.002	1907.600004	0.002	2.5
10	1852.400003	0.002	1907.600003	0.002	2.5
20	1852.399996	-0.002	1907.599998	-0.001	2.5
30	1852.399997	-0.002	1907.599998	-0.001	2.5
40	1852.399999	-0.001	1907.599997	-0.002	2.5
50	1852.399998	-0.001	1907.599997	-0.002	2.5
55	1852.399997	-0.002	1907.599996	-0.002	2.5

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	1851.250002	0.001	1908.750002	0.001	2.5
3.6	1851.250002	0.001	1908.750003	0.001	2.5
4.4	1851.250001	0.001	1908.750003	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.4 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	1851.250004	0.002	1908.750002	0.001	2.5
-20	1851.250002	0.001	1908.750003	0.002	2.5
-10	1851.250003	0.001	1908.750004	0.002	2.5
0	1851.250004	0.002	1908.750001	0.001	2.5
10	1851.250001	0.001	1908.750004	0.002	2.5
20	1851.249996	-0.002	1908.749999	-0.001	2.5
30	1851.249999	-0.001	1908.749998	-0.001	2.5
40	1851.249999	-0.001	1908.749996	-0.002	2.5
50	1851.249999	-0.001	1908.749998	-0.001	2.5
55	1851.249998	-0.001	1908.749998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1850.700004	0.002	1909.300003	0.002	2.5
3.6	1850.700003	0.002	1909.300002	0.001	2.5
4.4	1850.700003	0.001	1909.300003	0.002	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1850.700004	0.002	1909.300001	0.001	2.5
-20	1850.700002	0.001	1909.300002	0.001	2.5
-10	1850.700002	0.001	1909.300002	0.001	2.5
0	1850.700003	0.002	1909.300001	0.001	2.5
10	1850.700002	0.001	1909.300004	0.002	2.5
20	1850.699998	-0.001	1909.299999	-0.001	2.5
30	1850.699996	-0.002	1909.299998	-0.001	2.5
40	1850.699998	-0.001	1909.299997	-0.002	2.5
50	1850.699996	-0.002	1909.299998	-0.001	2.5
55	1850.699999	-0.001	1909.299998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1851.500002	0.001	1908.500003	0.001	2.5
3.6	1851.500001	0.001	1908.500002	0.001	2.5
4.4	1851.500002	0.001	1908.500001	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1851.500004	0.002	1908.500002	0.001	2.5
-20	1851.500004	0.002	1908.500002	0.001	2.5
-10	1851.500001	0.001	1908.500002	0.001	2.5
0	1851.500003	0.001	1908.500002	0.001	2.5
10	1851.500002	0.001	1908.500003	0.001	2.5
20	1851.499998	-0.001	1908.499998	-0.001	2.5
30	1851.499997	-0.002	1908.499998	-0.001	2.5
40	1851.499996	-0.002	1908.499998	-0.001	2.5
50	1851.499997	-0.001	1908.499997	-0.002	2.5
55	1851.499998	-0.001	1908.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1852.500004	0.002	1907.500004	0.002	2.5
3.6	1852.500003	0.002	1907.500002	0.001	2.5
4.4	1852.500003	0.002	1907.500001	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1852.500001	0.001	1907.500001	0.001	2.5
-20	1852.500002	0.001	1907.500002	0.001	2.5
-10	1852.500001	0.001	1907.500003	0.002	2.5
0	1852.500004	0.002	1907.500004	0.002	2.5
10	1852.500003	0.002	1907.500002	0.001	2.5
20	1852.499997	-0.002	1907.499998	-0.001	2.5
30	1852.499998	-0.001	1907.499997	-0.002	2.5
40	1852.499998	-0.001	1907.499998	-0.001	2.5
50	1852.499996	-0.002	1907.499996	-0.002	2.5
55	1852.499997	-0.002	1907.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1855.000003	0.001	1905.000003	0.001	2.5
3.6	1855.000001	0.001	1905.000002	0.001	2.5
4.4	1855.000004	0.002	1905.000003	0.002	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1855.000002	0.001	1905.000001	0.001	2.5
-20	1855.000001	0.001	1905.000001	0.001	2.5
-10	1855.000003	0.002	1905.000001	0.001	2.5
0	1855.000002	0.001	1905.000001	0.001	2.5
10	1855.000003	0.001	1905.000002	0.001	2.5
20	1854.999997	-0.001	1904.999996	-0.002	2.5
30	1854.999998	-0.001	1904.999999	-0.001	2.5
40	1854.999998	-0.001	1904.999998	-0.001	2.5
50	1854.999998	-0.001	1904.999997	-0.002	2.5
55	1854.999997	-0.001	1904.999997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1857.500004	0.002	1902.500001	0.001	2.5
3.6	1857.500003	0.002	1902.500004	0.002	2.5
4.4	1857.500004	0.002	1902.500001	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1857.500002	0.001	1902.500003	0.002	2.5
-20	1857.500003	0.002	1902.500004	0.002	2.5
-10	1857.500003	0.002	1902.500004	0.002	2.5
0	1857.500002	0.001	1902.500003	0.001	2.5
10	1857.500002	0.001	1902.500003	0.002	2.5
20	1857.499996	-0.002	1902.499997	-0.002	2.5
30	1857.499999	-0.001	1902.499999	-0.001	2.5
40	1857.499996	-0.002	1902.499997	-0.002	2.5
50	1857.499999	-0.001	1902.499996	-0.002	2.5
55	1857.499998	-0.001	1902.499999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1860.000003	0.001	1900.000002	0.001	2.5
3.6	1860.000003	0.002	1900.000002	0.001	2.5
4.4	1860.000003	0.001	1900.000003	0.002	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 2				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1860.000003	0.002	1900.000004	0.002	2.5
-20	1860.000002	0.001	1900.000002	0.001	2.5
-10	1860.000002	0.001	1900.000002	0.001	2.5
0	1860.000004	0.002	1900.000002	0.001	2.5
10	1860.000001	0.001	1900.000003	0.001	2.5
20	1859.999998	-0.001	1899.999999	-0.001	2.5
30	1859.999997	-0.002	1899.999998	-0.001	2.5
40	1859.999997	-0.002	1899.999997	-0.002	2.5
50	1859.999997	-0.002	1899.999997	-0.001	2.5
55	1859.999997	-0.002	1899.999999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1850.700001	0.001	1914.300001	0.001	2.5
3.6	1850.700003	0.002	1914.300002	0.001	2.5
4.4	1850.700001	0.001	1914.300002	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 1.4 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1850.700003	0.002	1914.300003	0.002	2.5
-20	1850.700003	0.001	1914.300001	0.001	2.5
-10	1850.700002	0.001	1914.300003	0.001	2.5
0	1850.700004	0.002	1914.300002	0.001	2.5
10	1850.700001	0.001	1914.300003	0.002	2.5
20	1850.699998	-0.001	1914.299999	-0.001	2.5
30	1850.699998	-0.001	1914.299999	-0.001	2.5
40	1850.699996	-0.002	1914.299999	-0.001	2.5
50	1850.699998	-0.001	1914.299997	-0.002	2.5
55	1850.699999	-0.001	1914.299997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1851.500001	0.001	1913.500003	0.001	2.5
3.6	1851.500003	0.002	1913.500002	0.001	2.5
4.4	1851.500003	0.001	1913.500003	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 3 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1851.500004	0.002	1913.500001	0.001	2.5
-20	1851.500002	0.001	1913.500002	0.001	2.5
-10	1851.500002	0.001	1913.500002	0.001	2.5
0	1851.500002	0.001	1913.500002	0.001	2.5
10	1851.500002	0.001	1913.500002	0.001	2.5
20	1851.499997	-0.002	1913.499996	-0.002	2.5
30	1851.499997	-0.002	1913.499997	-0.002	2.5
40	1851.499997	-0.002	1913.499997	-0.002	2.5
50	1851.499997	-0.002	1913.499996	-0.002	2.5
55	1851.499999	-0.001	1913.499997	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1852.500003	0.001	1912.500002	0.001	2.5
3.6	1852.500002	0.001	1912.500002	0.001	2.5
4.4	1852.500004	0.002	1912.500003	0.002	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1852.500004	0.002	1912.500004	0.002	2.5
-20	1852.500001	0.001	1912.500004	0.002	2.5
-10	1852.500003	0.002	1912.500003	0.002	2.5
0	1852.500002	0.001	1912.500004	0.002	2.5
10	1852.500002	0.001	1912.500002	0.001	2.5
20	1852.499998	-0.001	1912.499996	-0.002	2.5
30	1852.499997	-0.002	1912.499997	-0.002	2.5
40	1852.499997	-0.002	1912.499996	-0.002	2.5
50	1852.499997	-0.002	1912.499996	-0.002	2.5
55	1852.499998	-0.001	1912.499998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1855.000002	0.001	1910.000002	0.001	2.5
3.6	1855.000002	0.001	1910.000002	0.001	2.5
4.4	1855.000002	0.001	1910.000002	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1855.000002	0.001	1910.000003	0.002	2.5
-20	1855.000001	0.001	1910.000002	0.001	2.5
-10	1855.000001	0.001	1910.000003	0.002	2.5
0	1855.000004	0.002	1910.000002	0.001	2.5
10	1855.000003	0.001	1910.000001	0.001	2.5
20	1854.999998	-0.001	1909.999996	-0.002	2.5
30	1854.999998	-0.001	1909.999997	-0.001	2.5
40	1854.999998	-0.001	1909.999996	-0.002	2.5
50	1854.999999	-0.001	1909.999997	-0.002	2.5
55	1854.999998	-0.001	1909.999996	-0.002	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1857.500002	0.001	1907.500003	0.002	2.5
3.6	1857.500002	0.001	1907.500002	0.001	2.5
4.4	1857.500003	0.002	1907.500001	0.001	2.5

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

Frequency Error vs. Temperature

Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1857.500002	0.001	1907.500002	0.001	2.5
-20	1857.500001	0.001	1907.500003	0.002	2.5
-10	1857.500002	0.001	1907.500002	0.001	2.5
0	1857.500001	0.001	1907.500002	0.001	2.5
10	1857.500002	0.001	1907.500003	0.002	2.5
20	1857.499996	-0.002	1907.499997	-0.002	2.5
30	1857.499998	-0.001	1907.499997	-0.002	2.5
40	1857.499999	-0.001	1907.499997	-0.001	2.5
50	1857.499996	-0.002	1907.499999	-0.001	2.5
55	1857.499997	-0.002	1907.499998	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.85	1860.000002	0.001	1905.000003	0.001	2.5
3.6	1860.000002	0.001	1905.000002	0.001	2.5
4.4	1860.000003	0.002	1905.000003	0.002	2.5

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

Frequency Error vs. Temperature

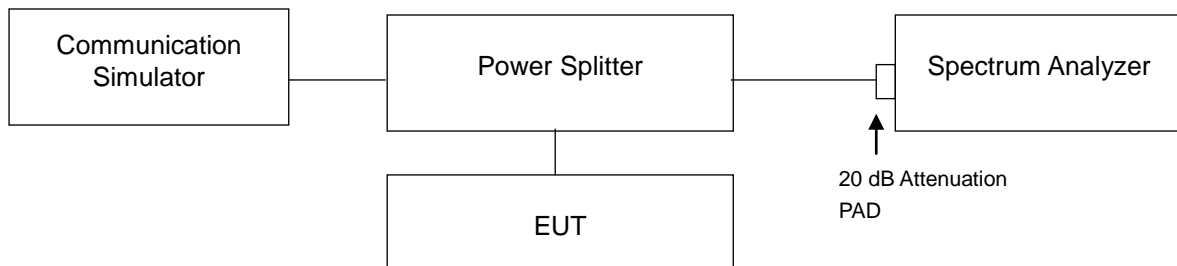
Temp. (°C)	LTE Band 25				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	1860.000004	0.002	1905.000003	0.002	2.5
-20	1860.000002	0.001	1905.000004	0.002	2.5
-10	1860.000002	0.001	1905.000002	0.001	2.5
0	1860.000003	0.001	1905.000002	0.001	2.5
10	1860.000002	0.001	1905.000003	0.001	2.5
20	1859.999997	-0.002	1904.999997	-0.001	2.5
30	1859.999998	-0.001	1904.999999	-0.001	2.5
40	1859.999996	-0.002	1904.999997	-0.002	2.5
50	1859.999997	-0.002	1904.999996	-0.002	2.5
55	1859.999997	-0.002	1904.999998	-0.001	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

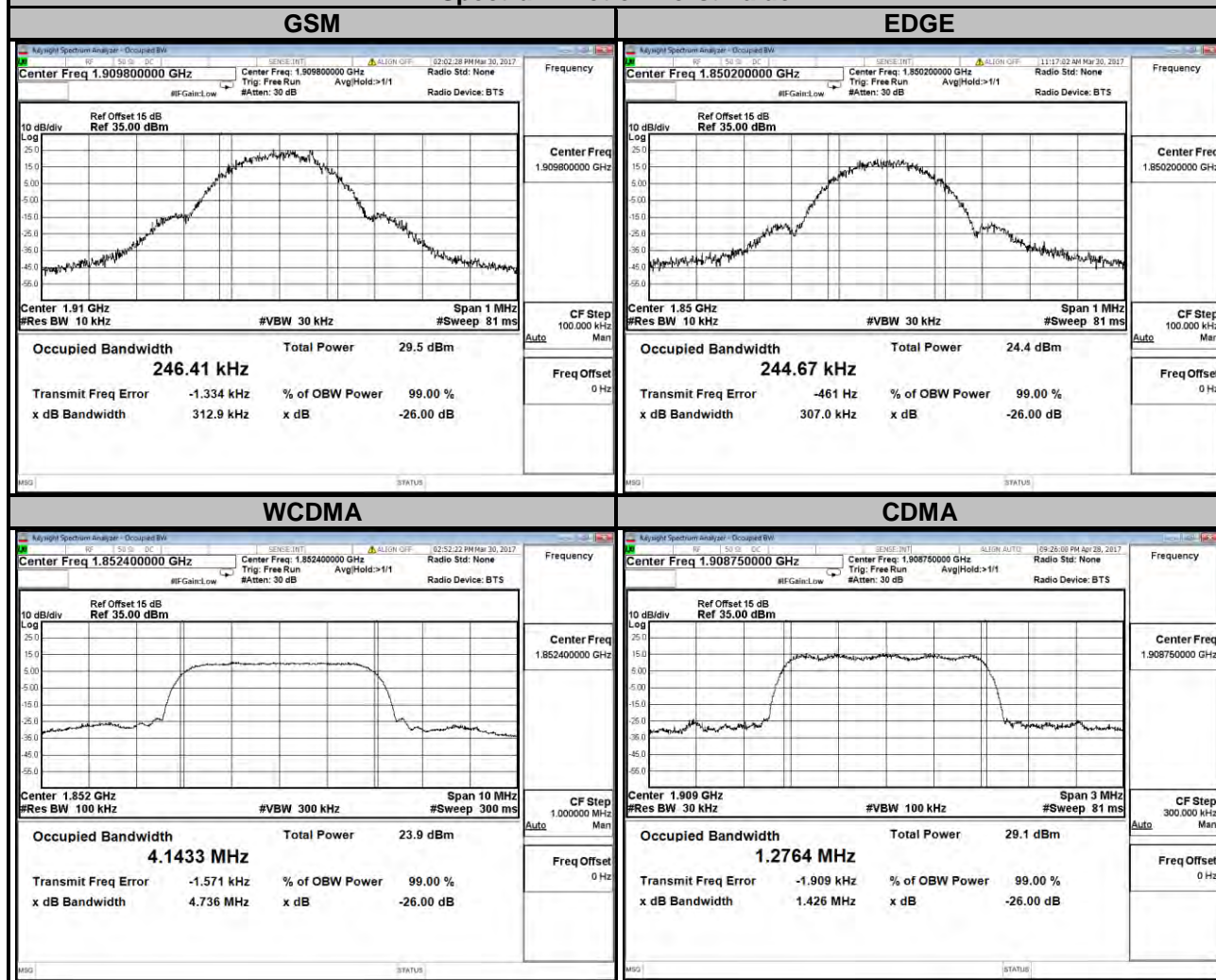


4.3.3 Test Result

Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)
		GSM	EDGE			WCDMA
512	1850.2	246.41	244.67	9262	1852.4	4.1433
661	1880.0	244.67	243.64	9400	1880.0	4.1413
810	1909.8	244.59	242.46	9538	1907.6	4.1404

Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz)	
		CDMA	
25	1851.25	1.2741	
600	1880.00	1.2748	
1175	1908.75	1.2764	

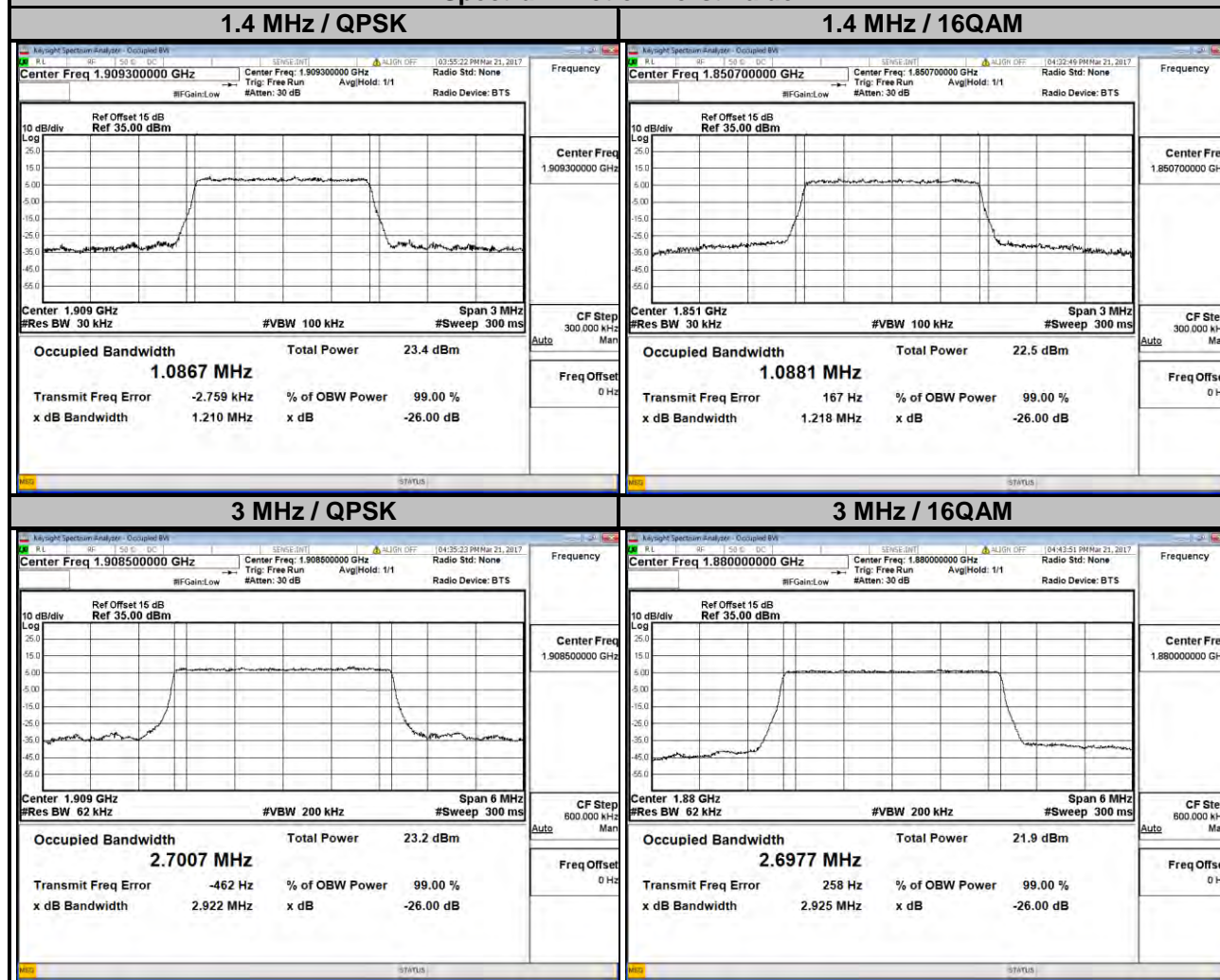
Spectrum Plot of Worst Value



LTE Band 2

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			QPSK	16QAM
18607	1850.7	1.0862	1.0881	18615	1851.5	2.7003	2.6969
18900	1880.0	1.0857	1.0875	18900	1880.0	2.6997	2.6977
19193	1909.3	1.0867	1.0875	19185	1908.5	2.7007	2.6969

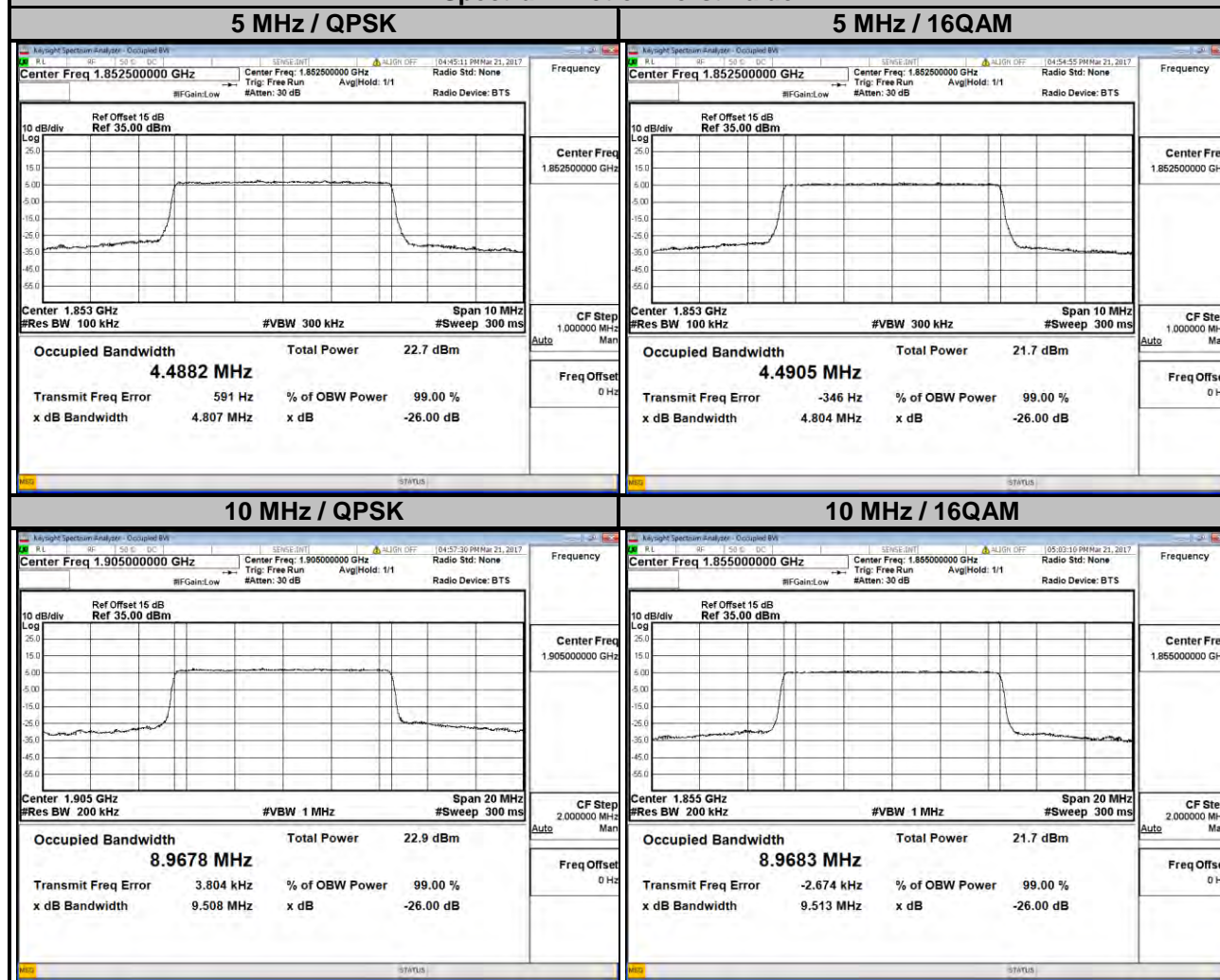
Spectrum Plot of Worst Value



LTE Band 2

Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.4882	4.4905	18650	1855.0	8.9665	8.9683
18900	1880.0	4.4882	4.4887	18900	1880.0	8.9652	8.9683
19175	1907.5	4.4876	4.4859	19150	1905.0	8.9678	8.9681

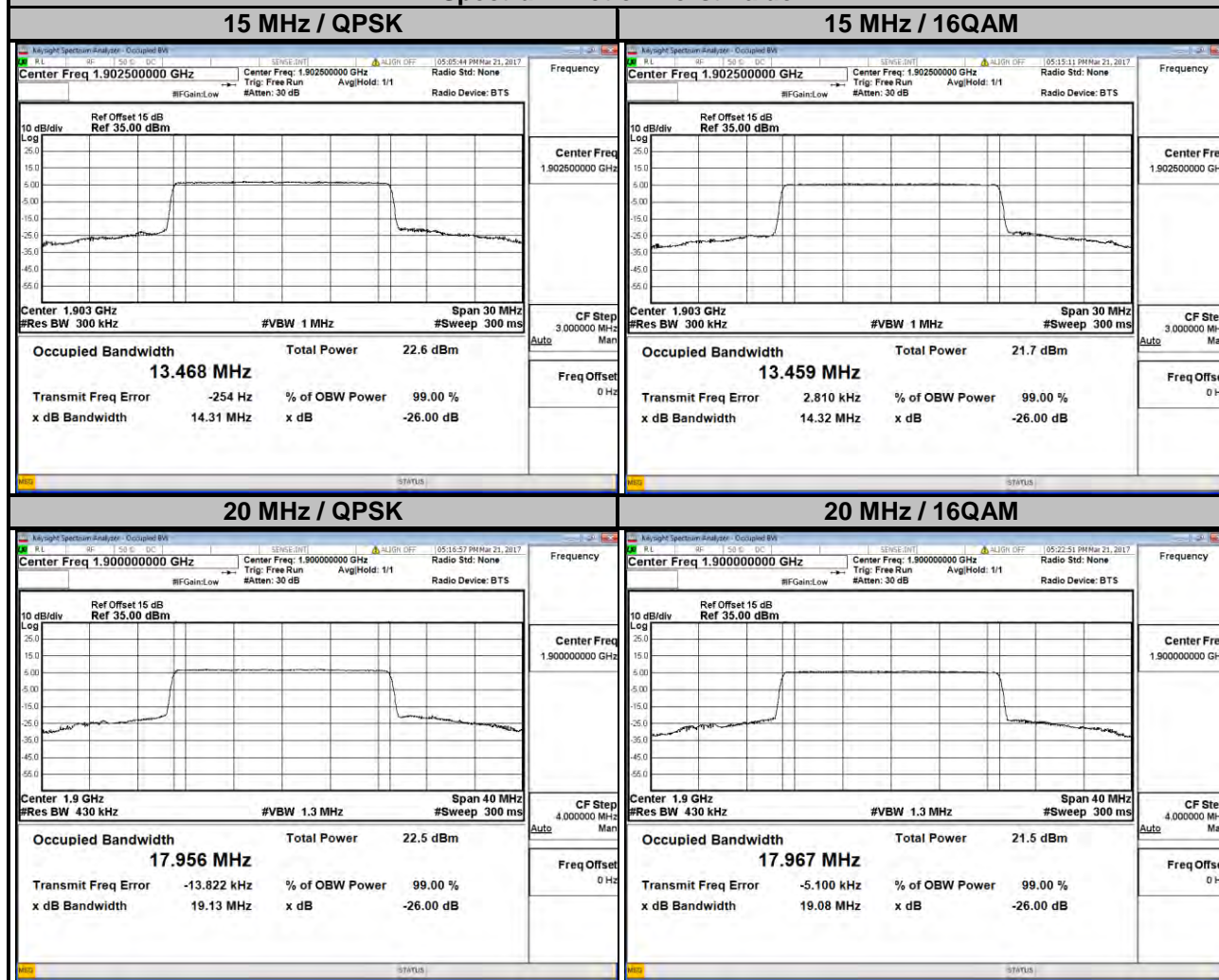
Spectrum Plot of Worst Value



LTE Band 2

Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.456	13.450	18700	1860.0	17.920	17.936
18900	1880.0	13.460	13.444	18900	1880.0	17.922	17.936
19125	1902.5	13.468	13.459	19100	1900.0	17.965	17.967

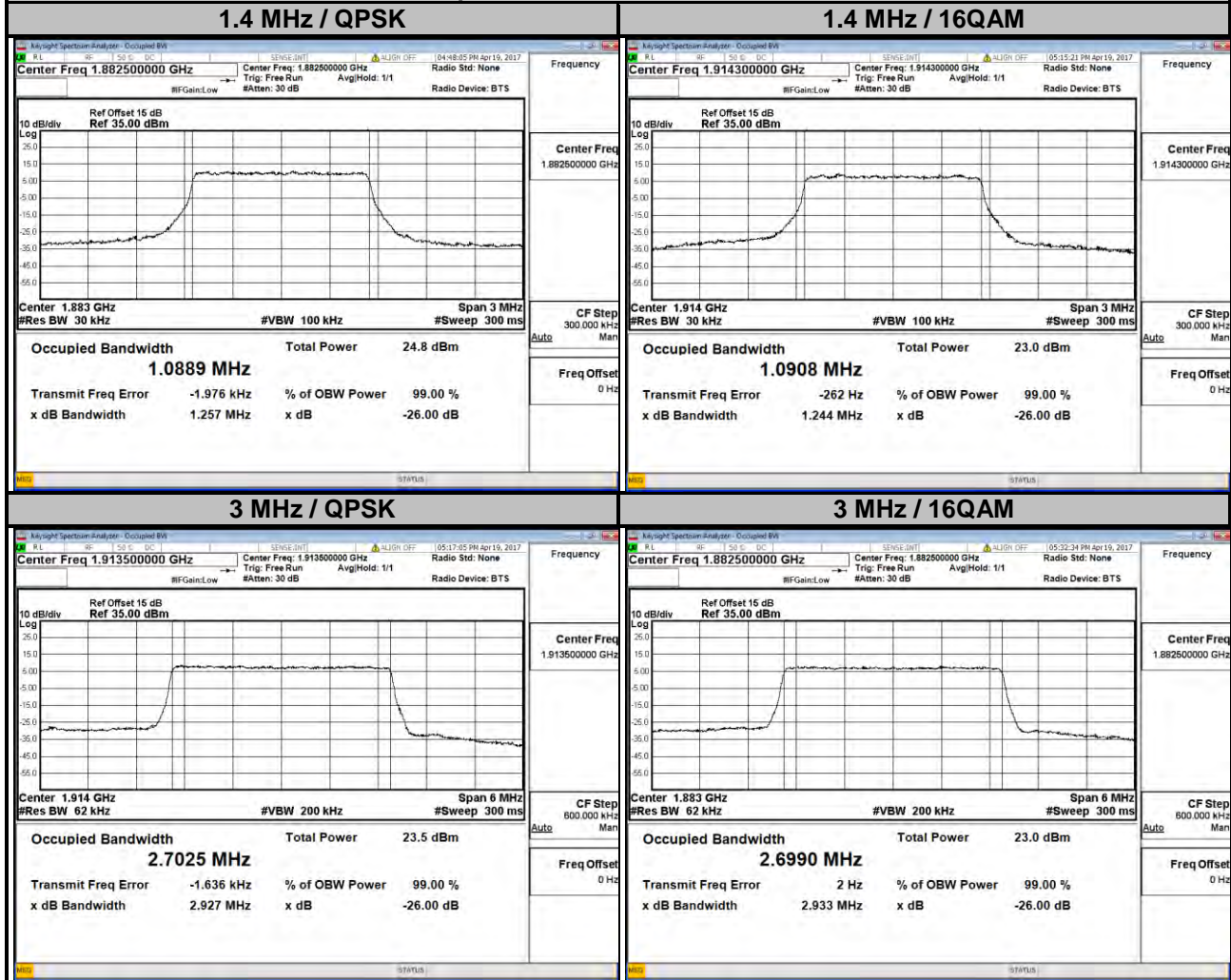
Spectrum Plot of Worst Value



LTE Band 25

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			QPSK	16QAM
26047	1850.7	1.0884	1.0893	26055	1851.5	2.7012	2.6976
26365	1882.5	1.0889	1.0904	26365	1882.5	2.7011	2.6990
26683	1914.3	1.0880	1.0908	26675	1913.5	2.7025	2.6983

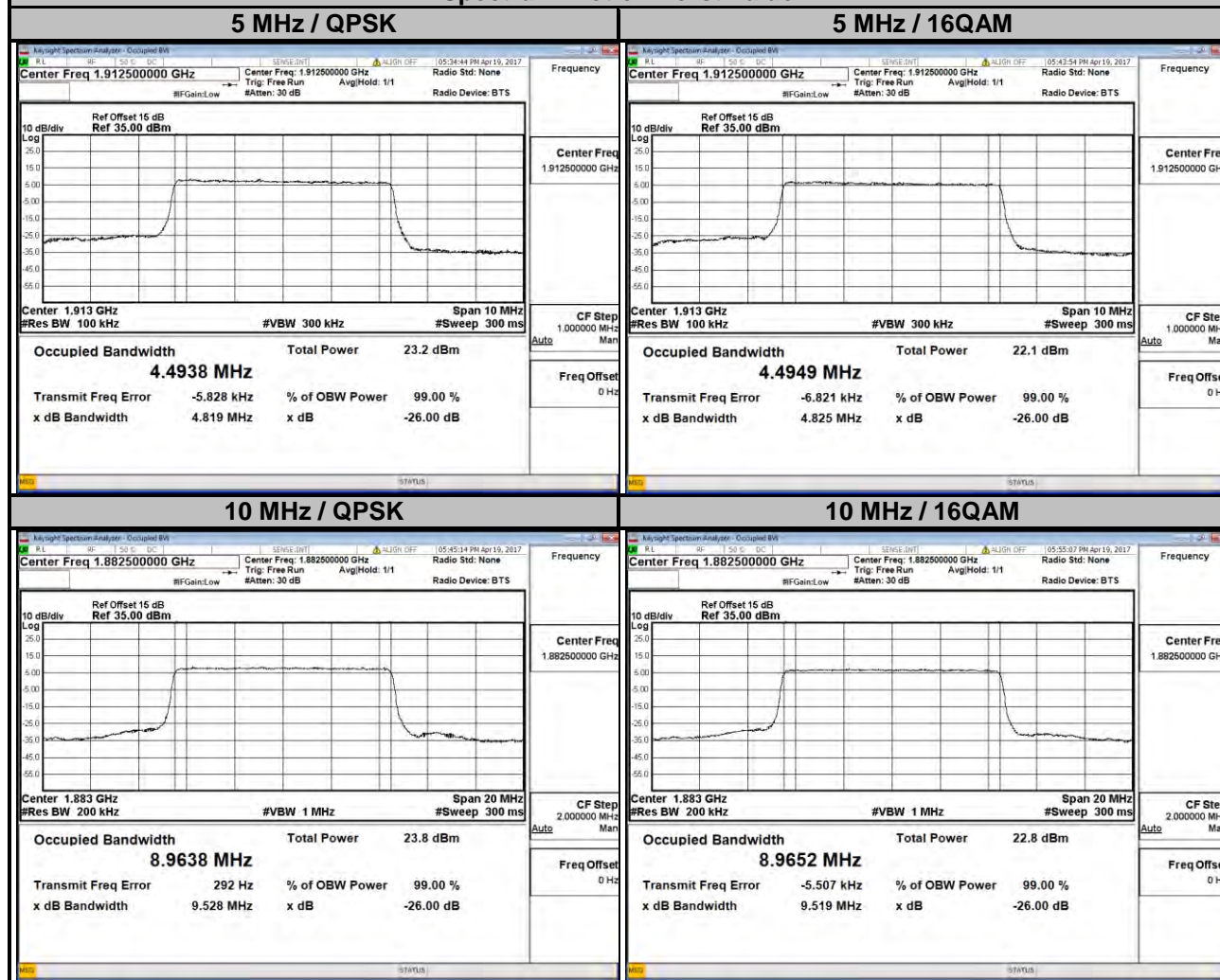
Spectrum Plot of Worst Value



LTE Band 25

Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.4927	4.4948	26090	1855.0	8.9569	8.9644
26365	1882.5	4.4937	4.4940	26365	1882.5	8.9638	8.9652
26665	1912.5	4.4938	4.4949	26640	1910.0	8.9460	8.9472

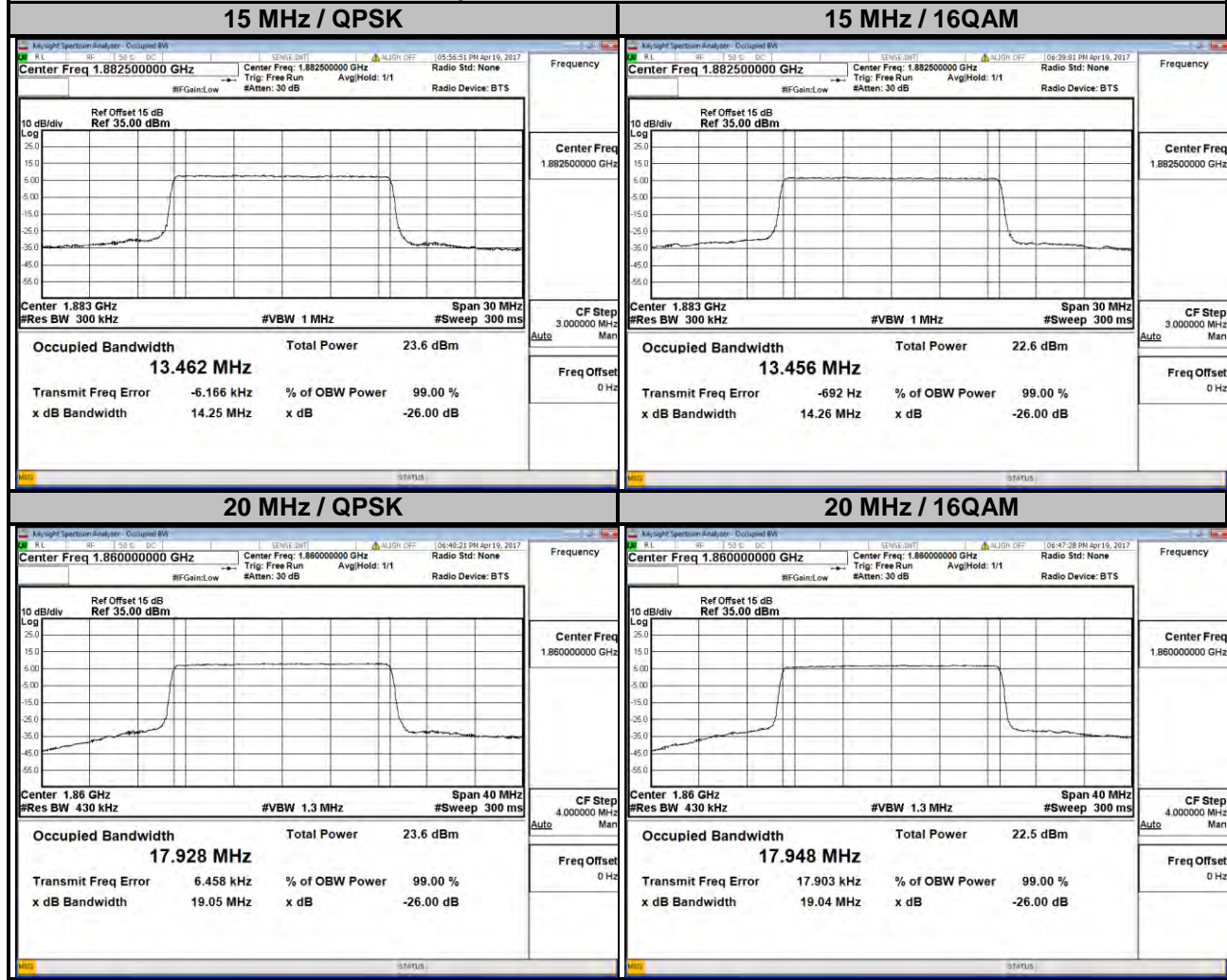
Spectrum Plot of Worst Value



LTE BAND 25

Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	13.458	13.450	26140	1860.0	17.928	17.948
26365	1882.5	13.462	13.456	26365	1882.5	17.925	17.943
26615	1907.5	13.434	13.424	26590	1905.0	17.867	17.895

Spectrum Plot of Worst Value

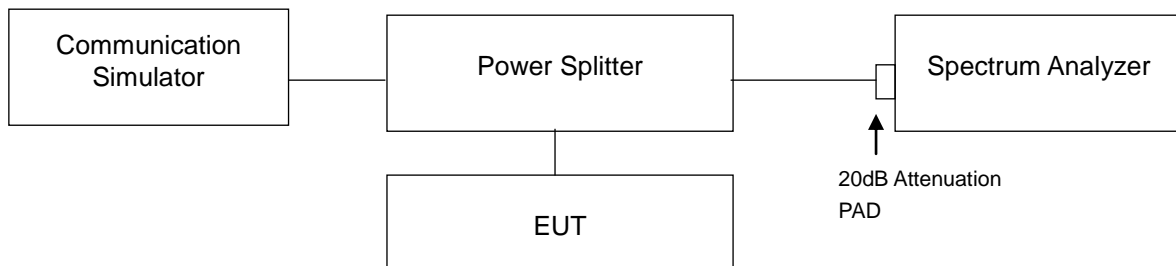


4.4 Band Edge Measurement

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.

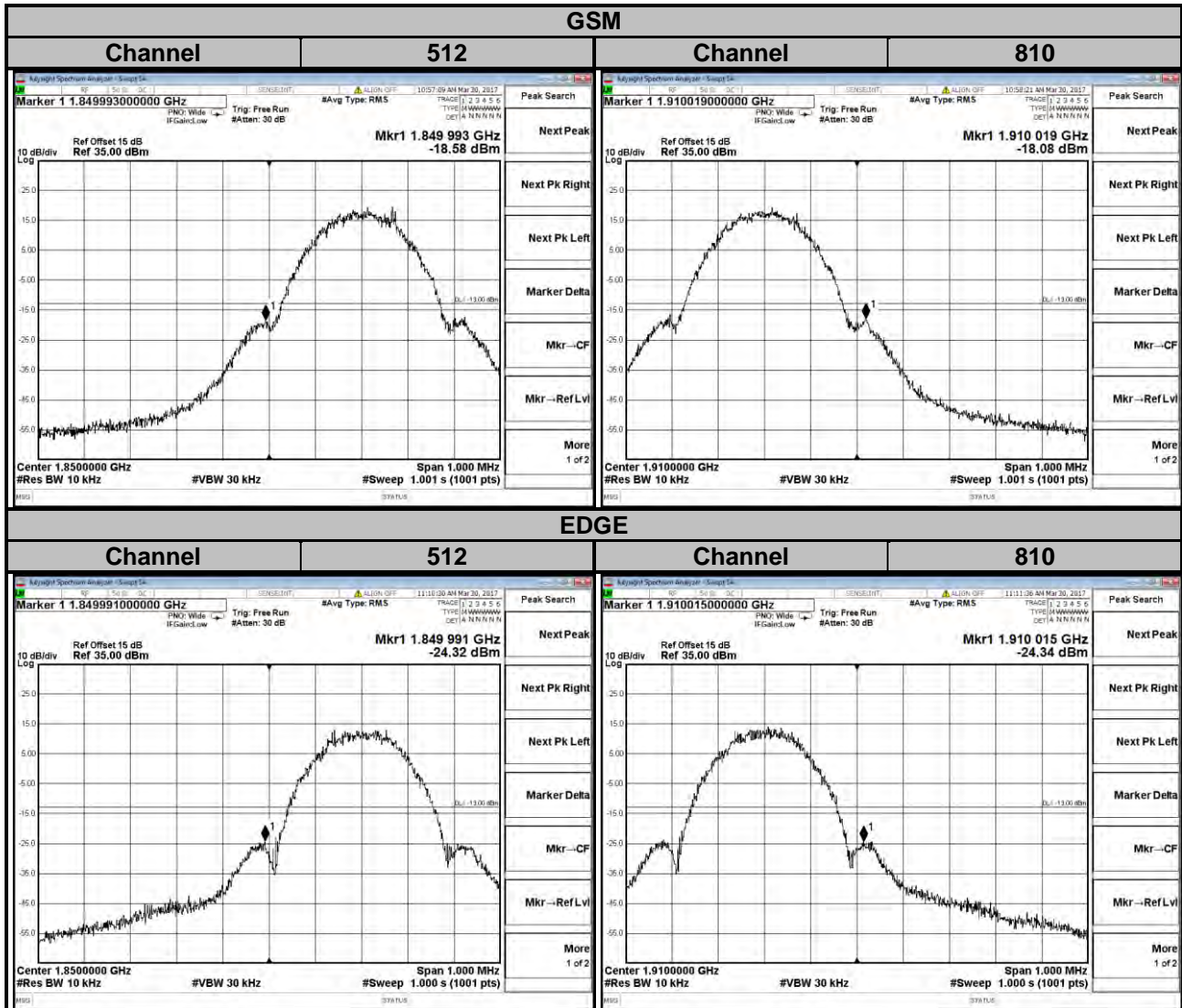
4.4.2 Test Setup

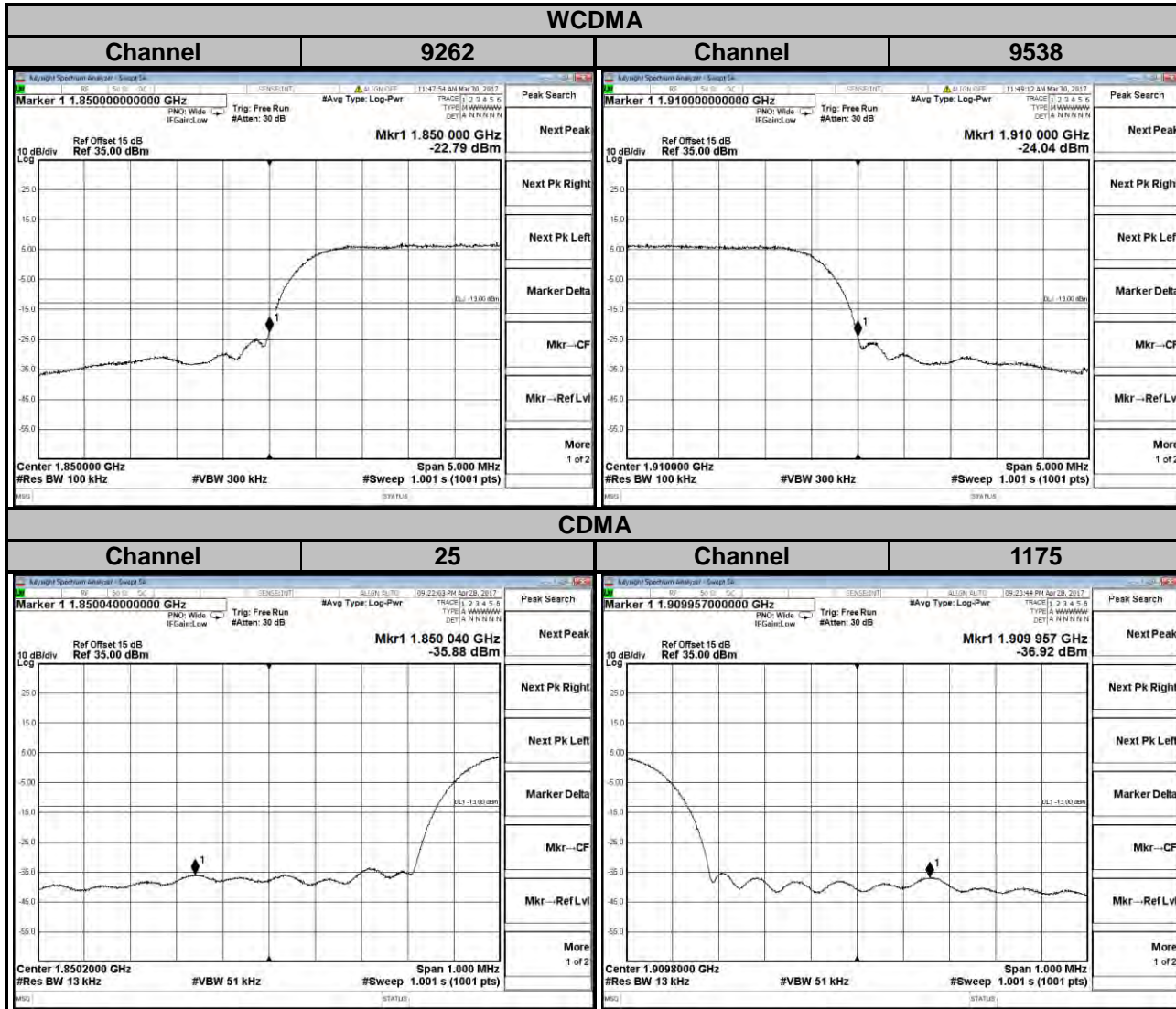


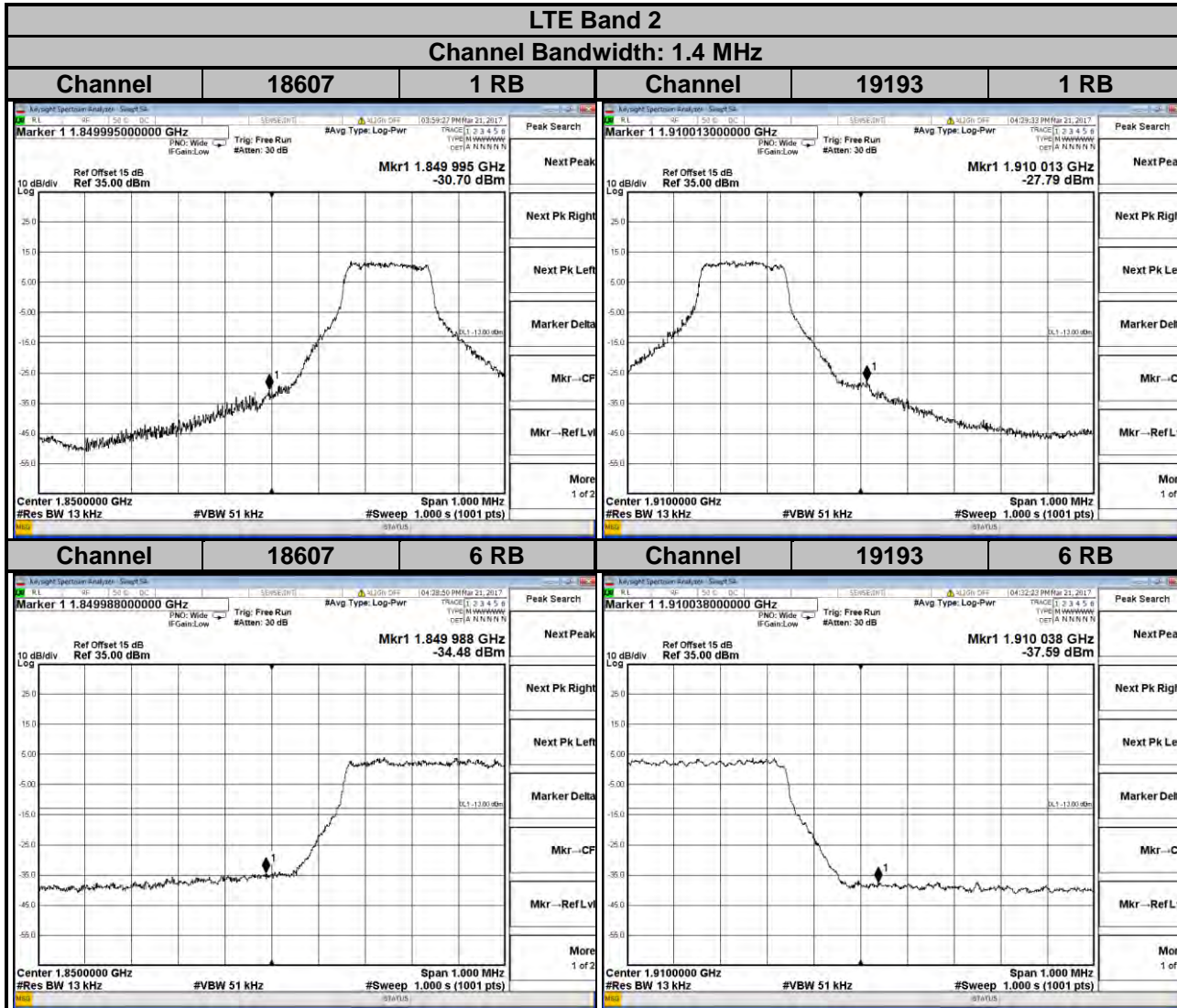
4.4.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 10 kHz and VB of the spectrum is 30 kHz (GSM/GPRS/EDGE).
- The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (WCDMA).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 13 kHz and VB of the spectrum is 51 kHz (CDMA / LTE Bandwidth 1.4 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 30 kHz and VB of the spectrum is 100 kHz (LTE Bandwidth 3 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (LTE Bandwidth 5 MHz/10 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 150 kHz and VB of the spectrum is 470 kHz (LTE Bandwidth 15 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 180 kHz and VB of the spectrum is 560 kHz (LTE Bandwidth 20 MHz).
- Record the max trace plot into the test report.

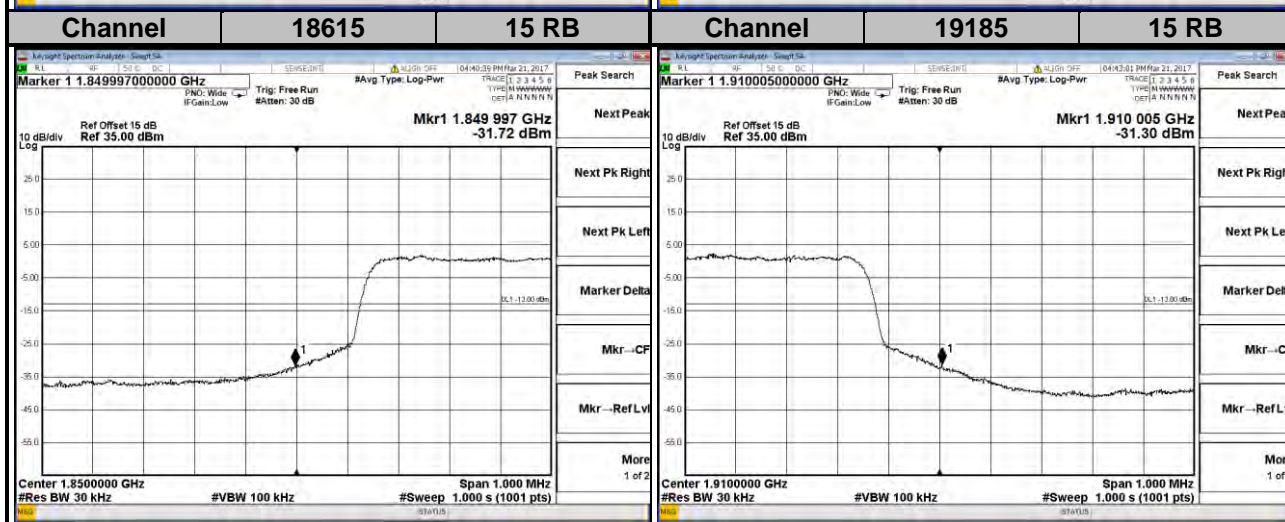
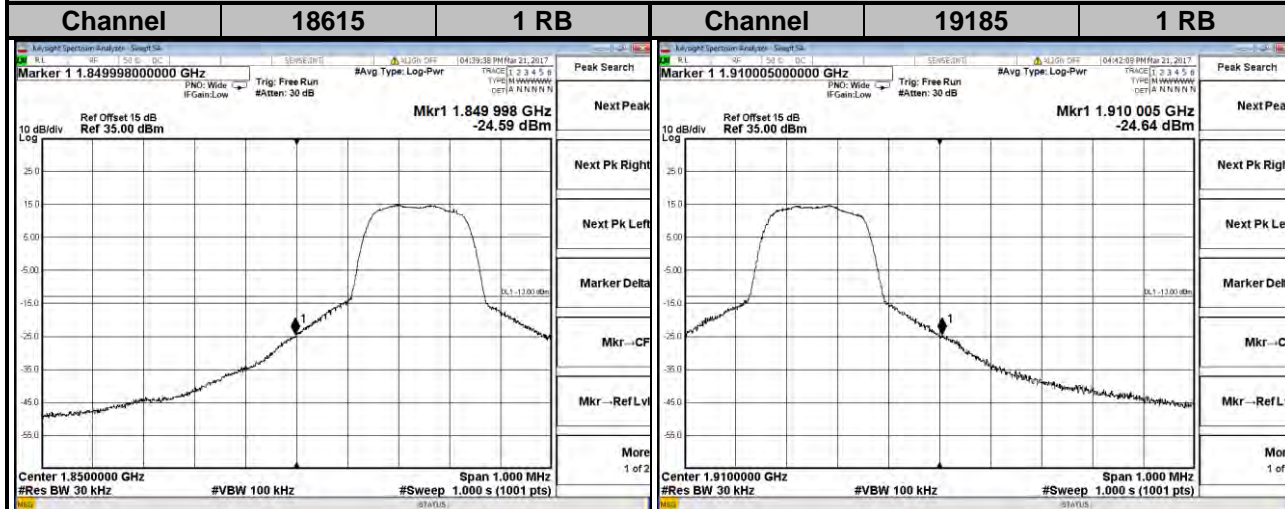
4.4.4 Test Results



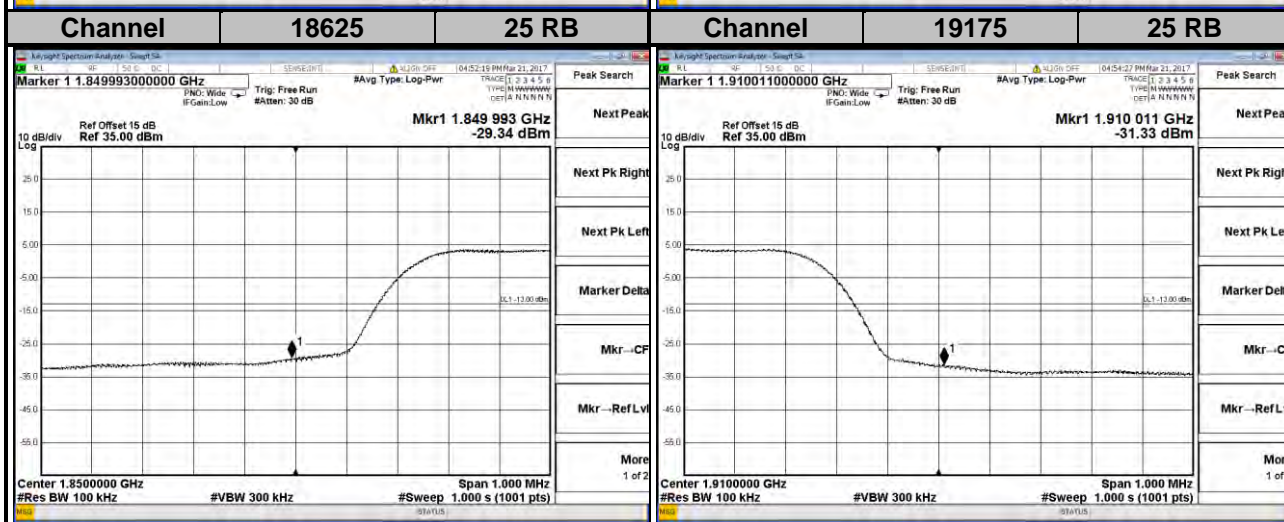
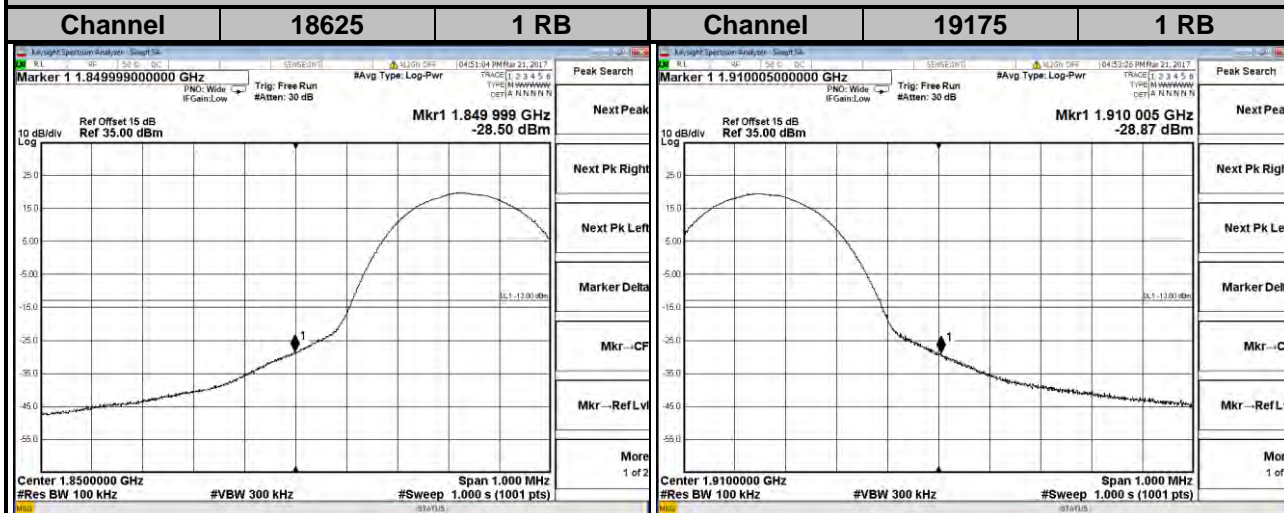




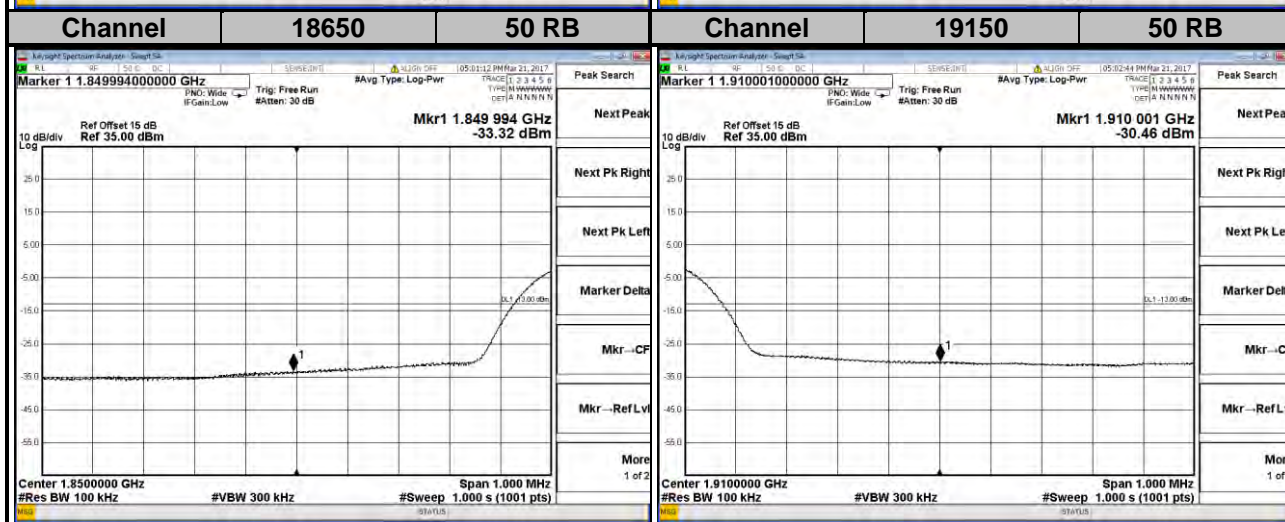
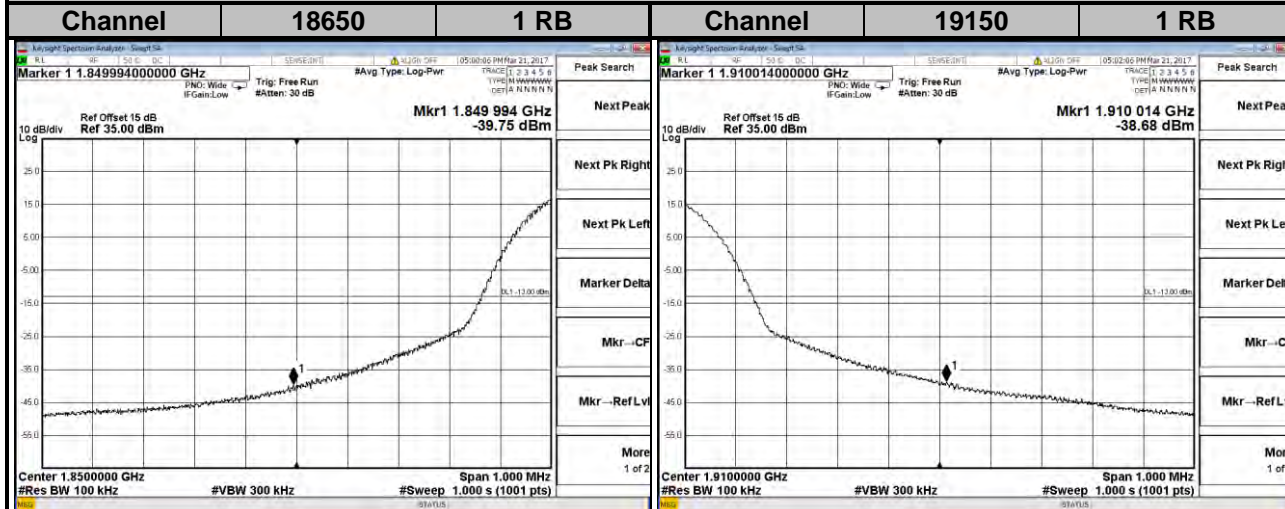
LTE Band 2
Channel Bandwidth: 3 MHz

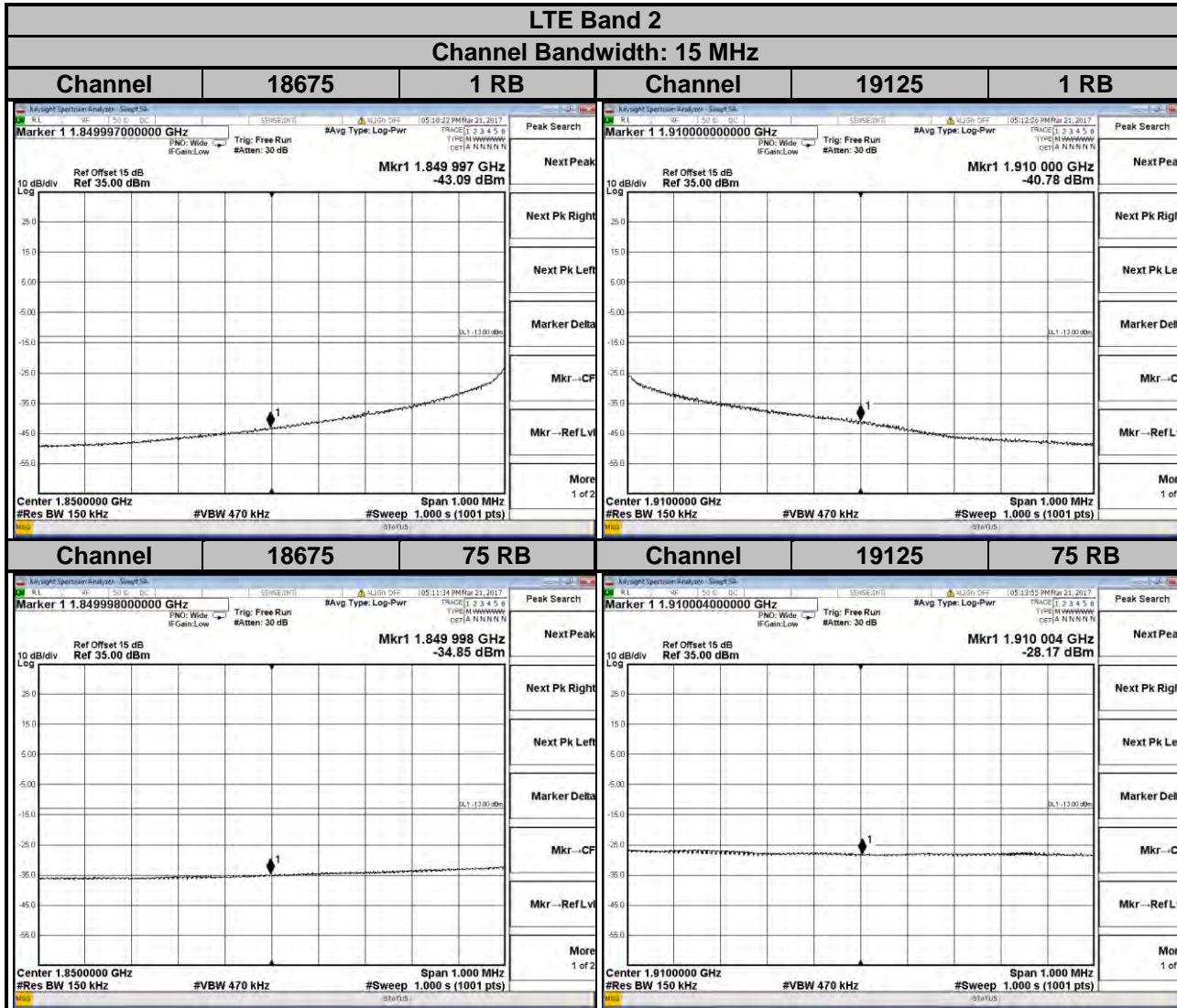


LTE Band 2
Channel Bandwidth: 5 MHz



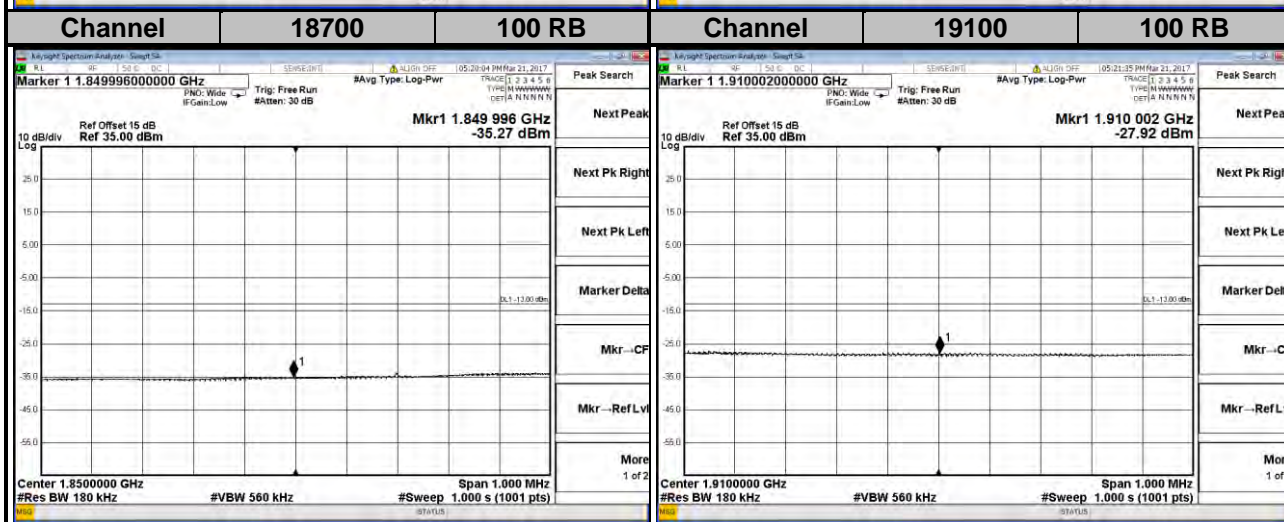
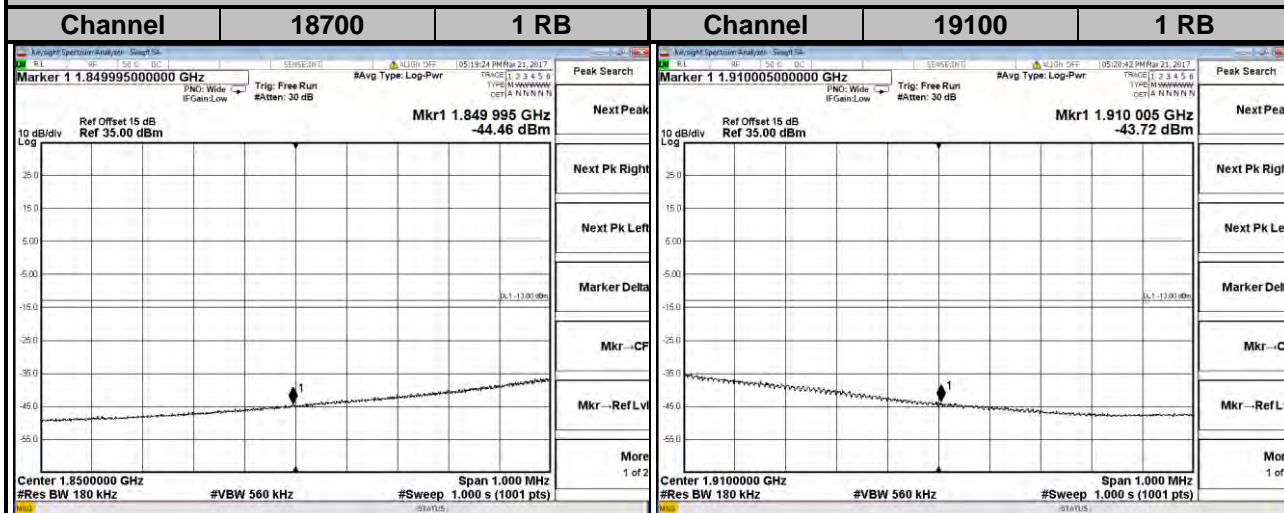
LTE Band 2
Channel Bandwidth: 10 MHz

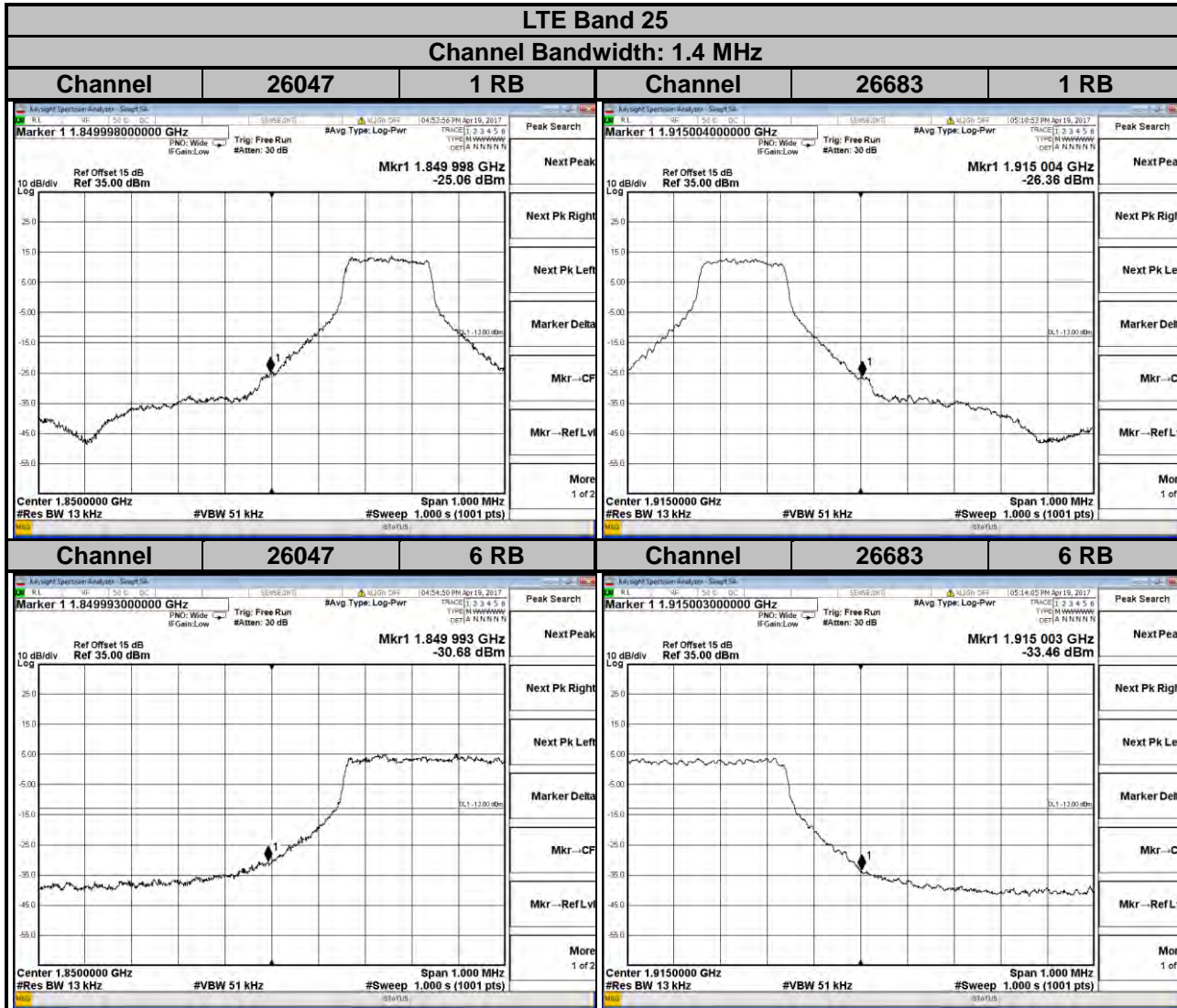




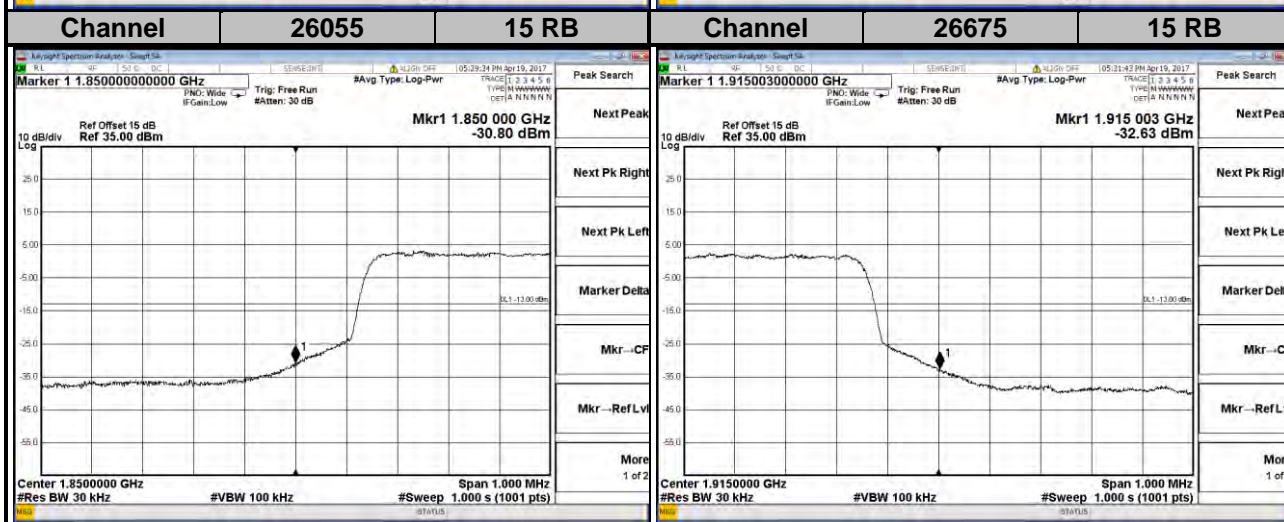
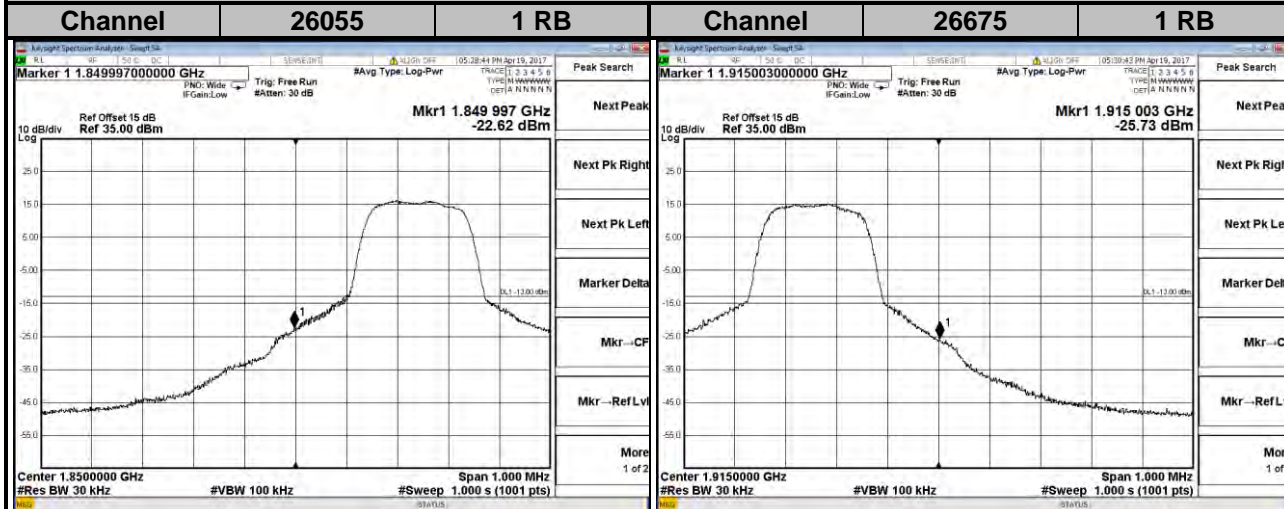
LTE Band 2

Channel Bandwidth: 20 MHz

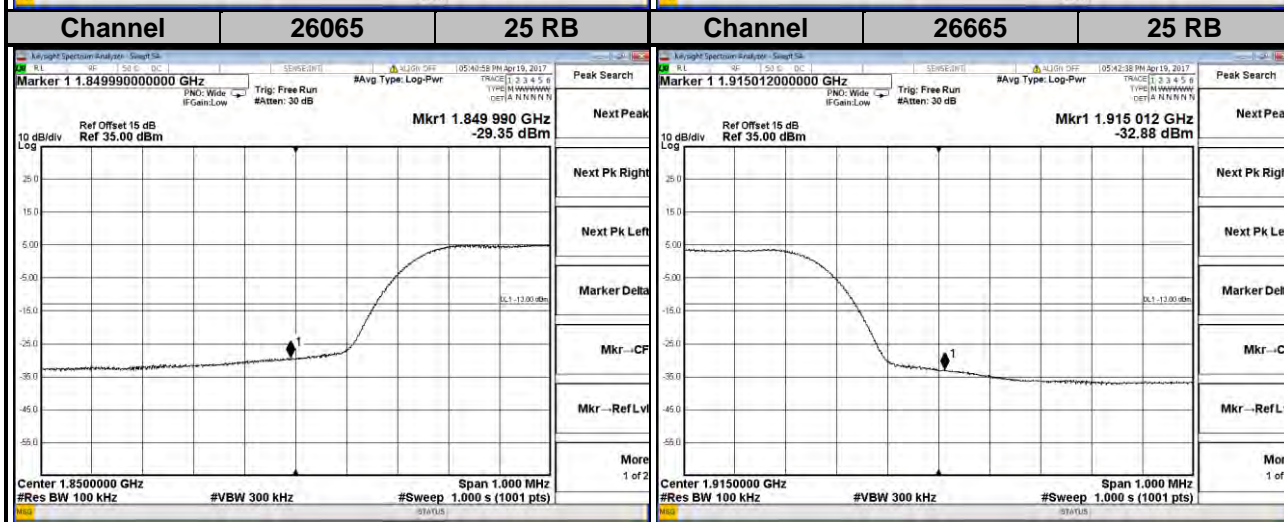
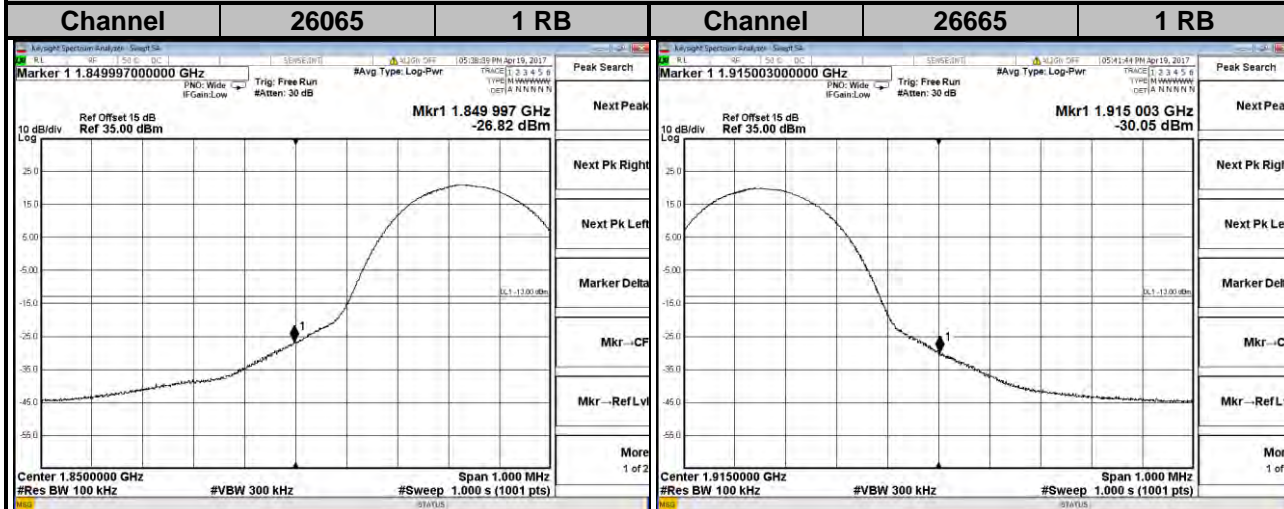




LTE Band 25
Channel Bandwidth: 3 MHz

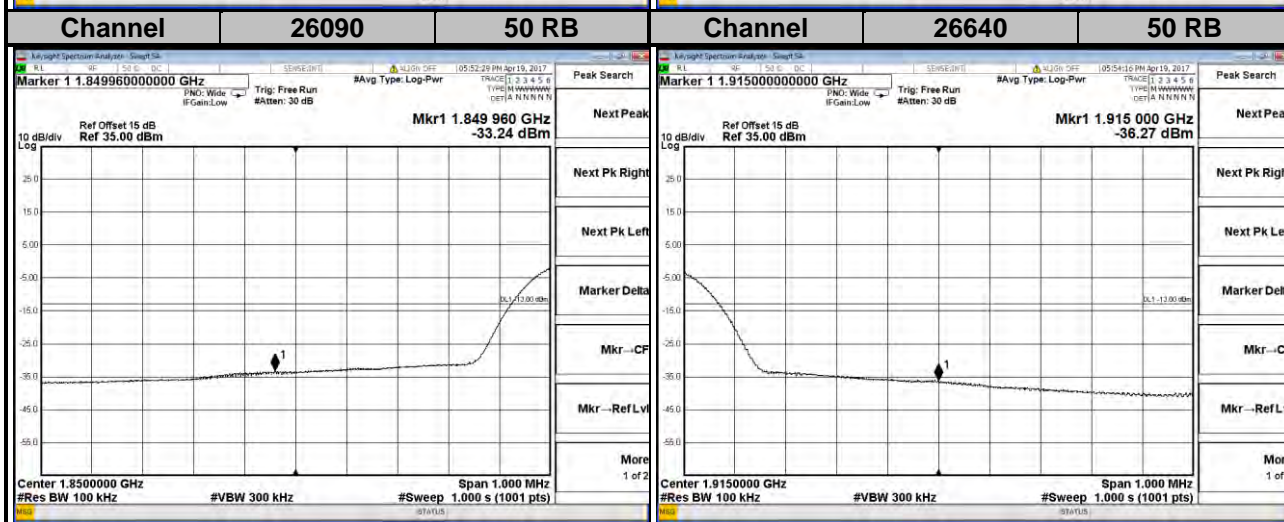
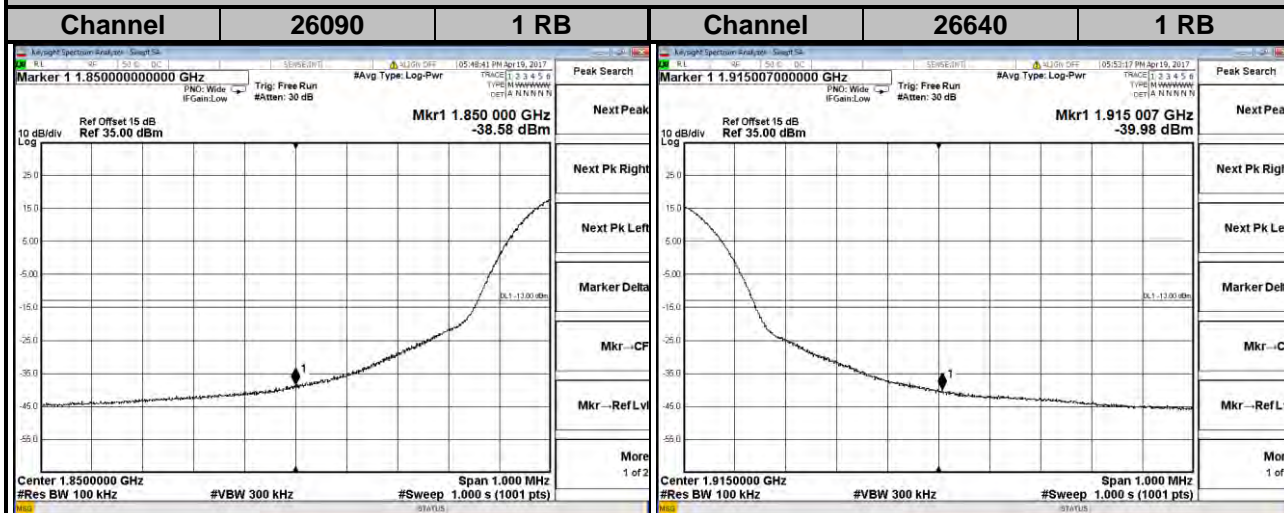


LTE Band 25
Channel Bandwidth: 5 MHz



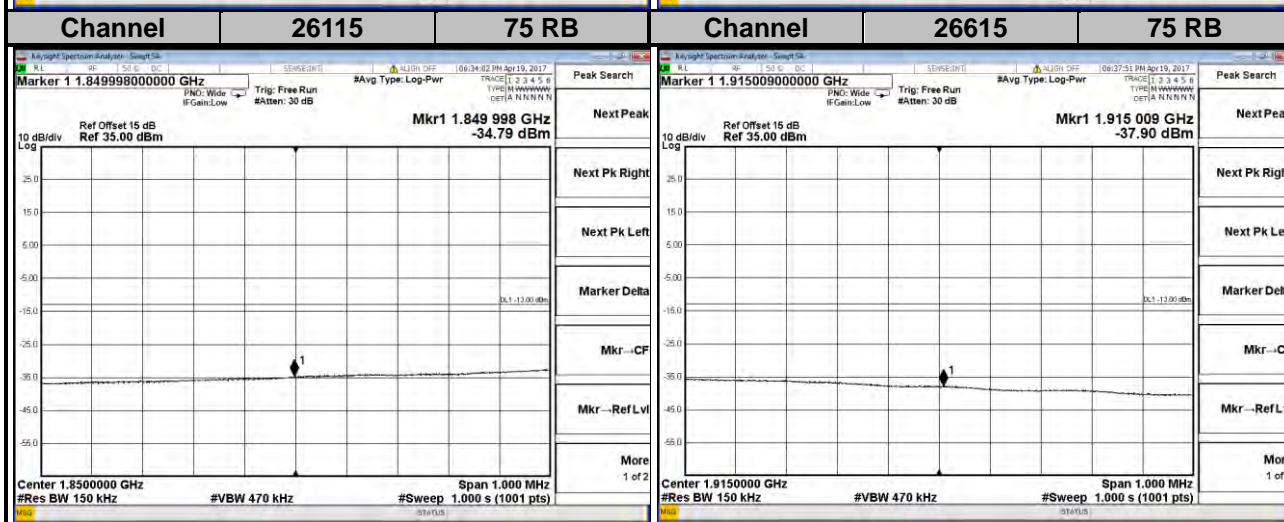
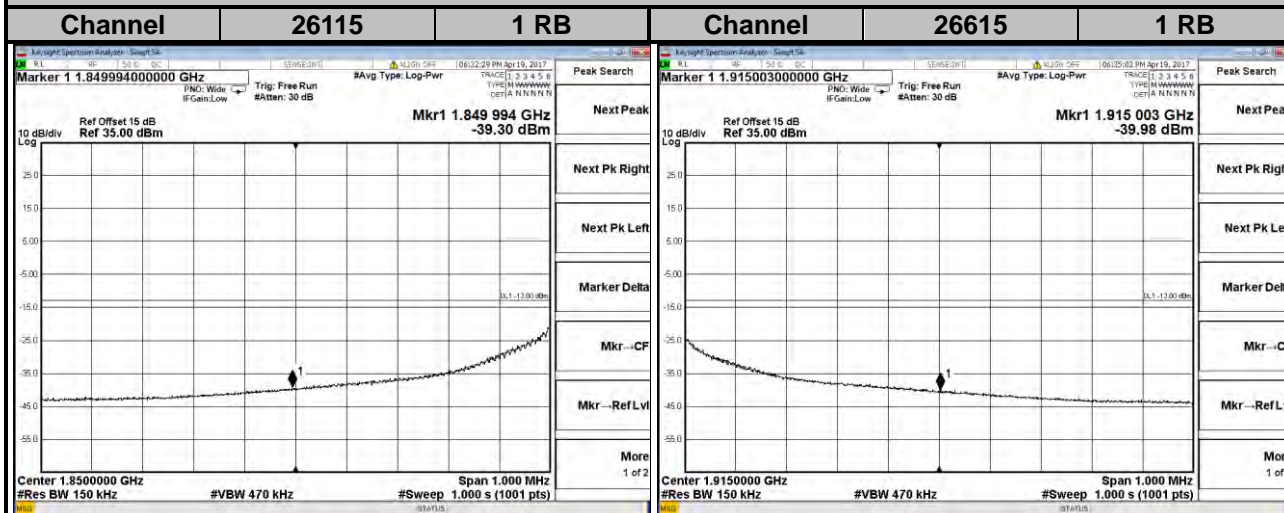
LTE Band 25

Channel Bandwidth: 10 MHz



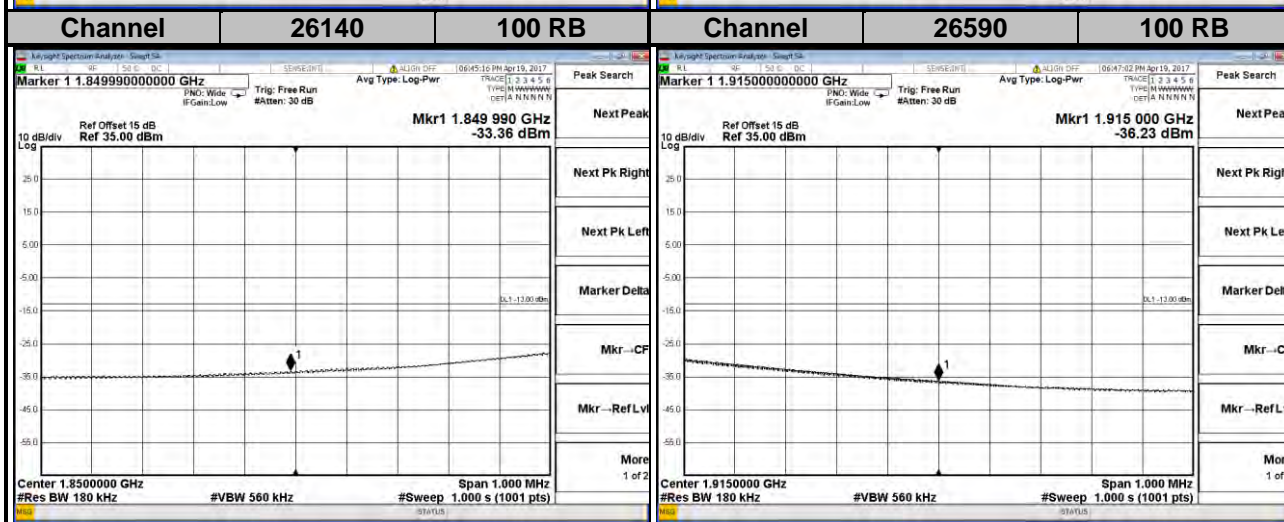
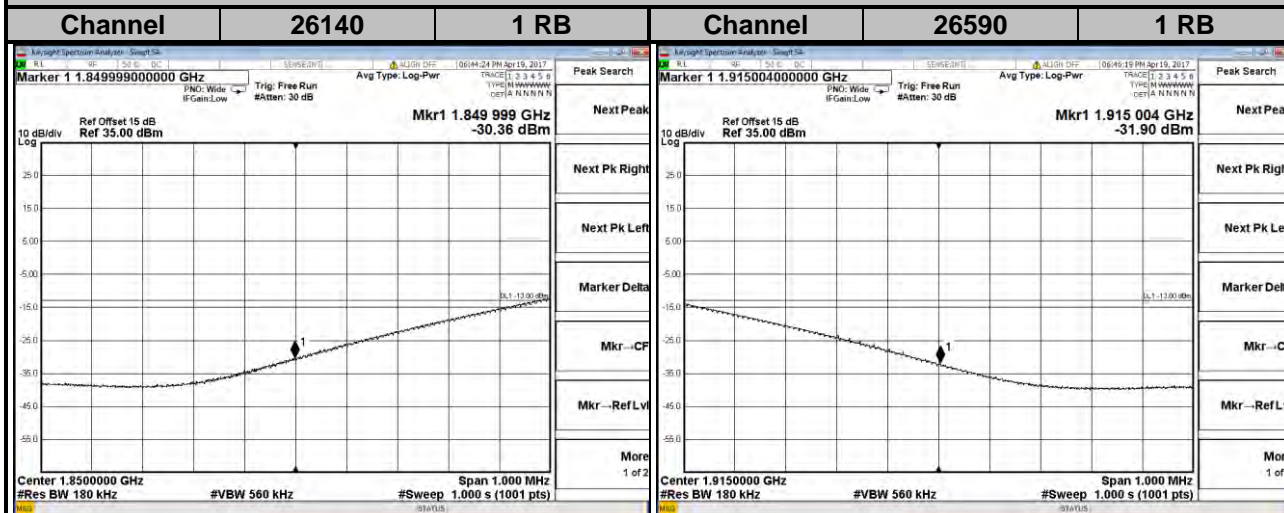
LTE Band 25

Channel Bandwidth: 15 MHz



LTE Band 25

Channel Bandwidth: 20 MHz

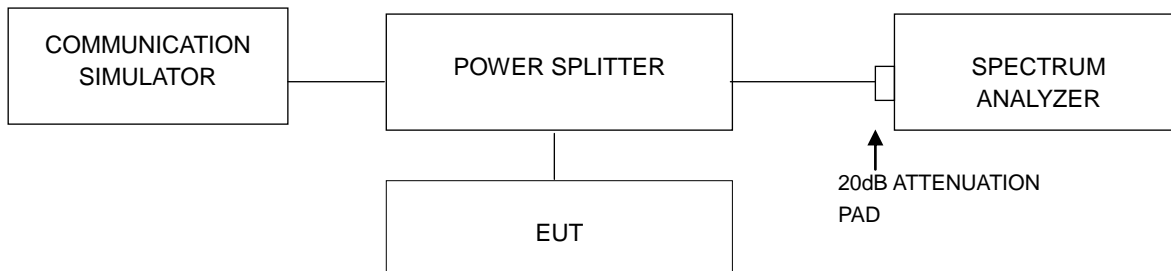


4.5 Peak to Average Ratio

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

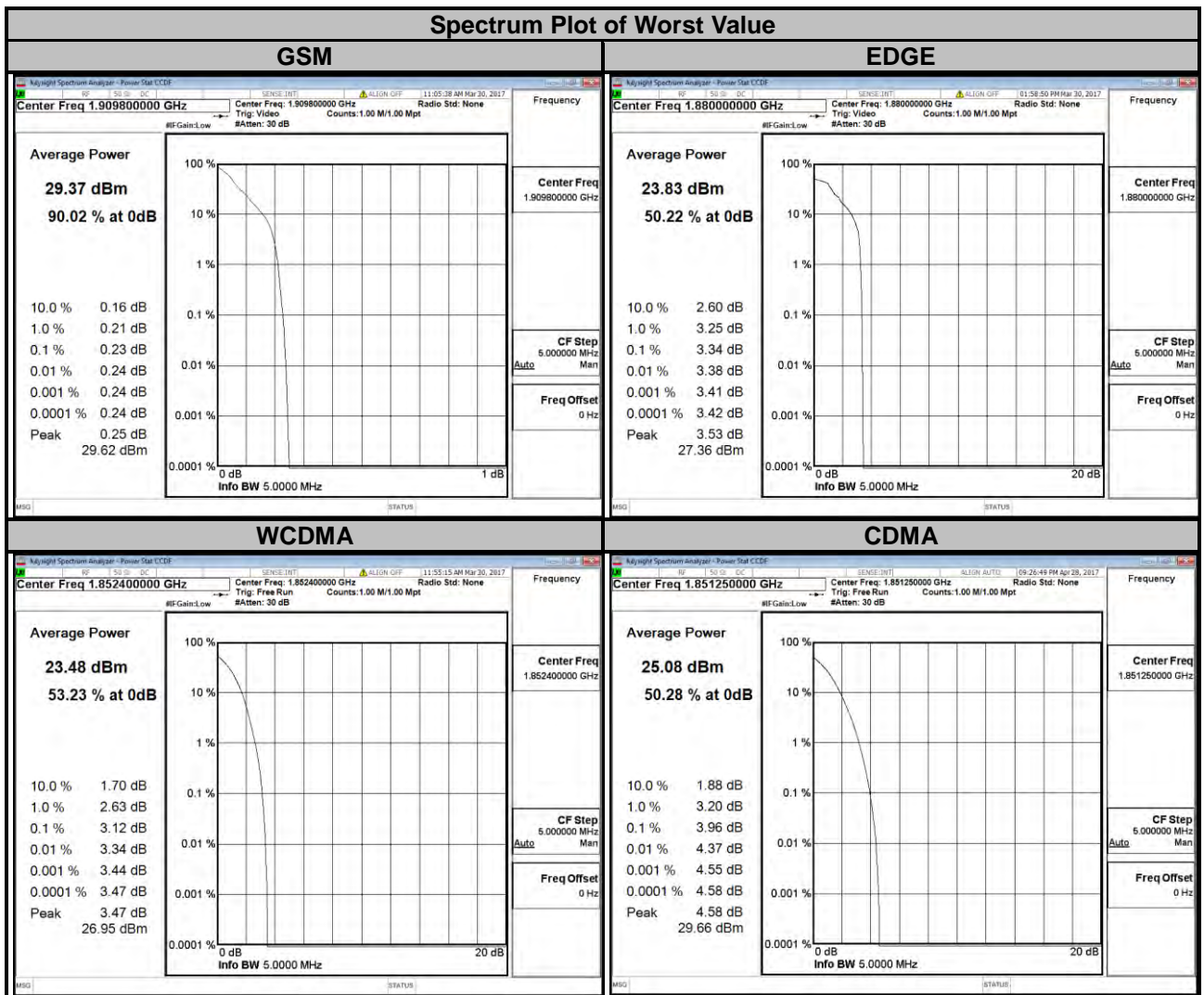


4.5.3 Test Procedures

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			
512	1850.2	0.18	3.33	9262	1852.4	3.12
661	1880.0	0.21	3.29	9400	1880.0	3.04
810	1909.8	0.23	3.34	9538	1907.6	3.02
Channel	Frequency (MHz)	Peak to Average Ratio (dB)				
		CDMA				
25	1851.25	3.96				
600	1880.00	3.95				
1175	1908.75	3.23				



LTE Band 2

Channel Bandwidth: 1.4 MHz

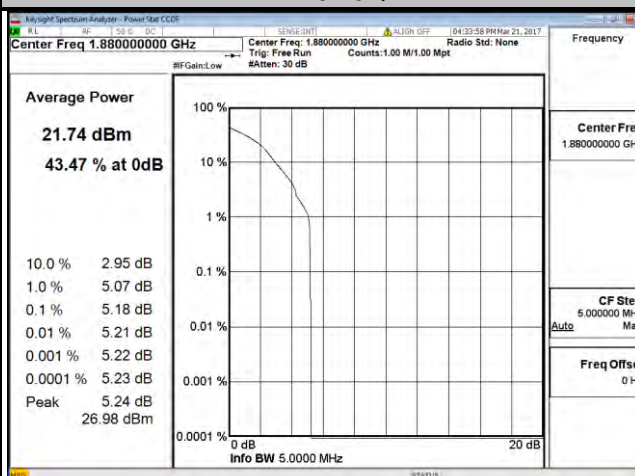
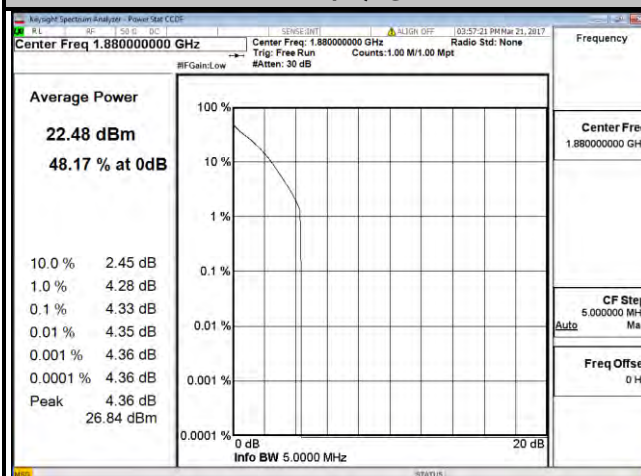
Channel Bandwidth: 3 MHz

Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	4.32	5.14	18615	1851.5	4.24	5.03
18900	1880.0	4.33	5.18	18900	1880.0	4.28	5.07
19193	1909.3	3.51	4.24	19185	1908.5	3.55	4.35

Spectrum Plot of Worst Value

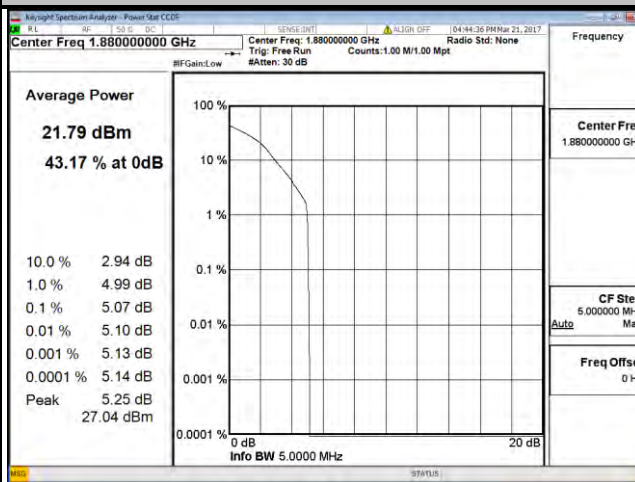
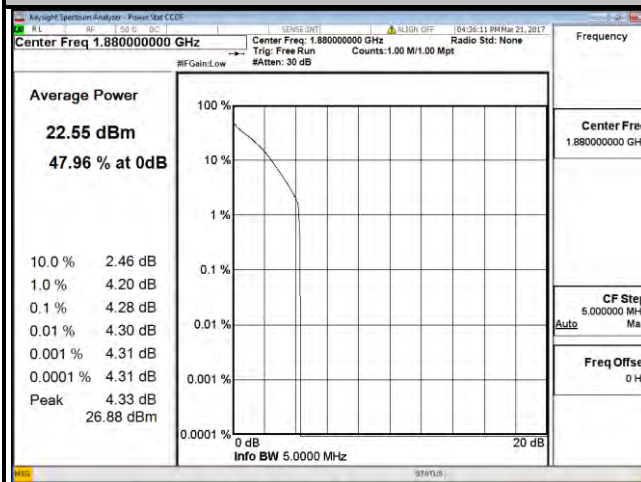
1.4 MHz / QPSK

1.4 MHz / 16QAM



3 MHz / QPSK

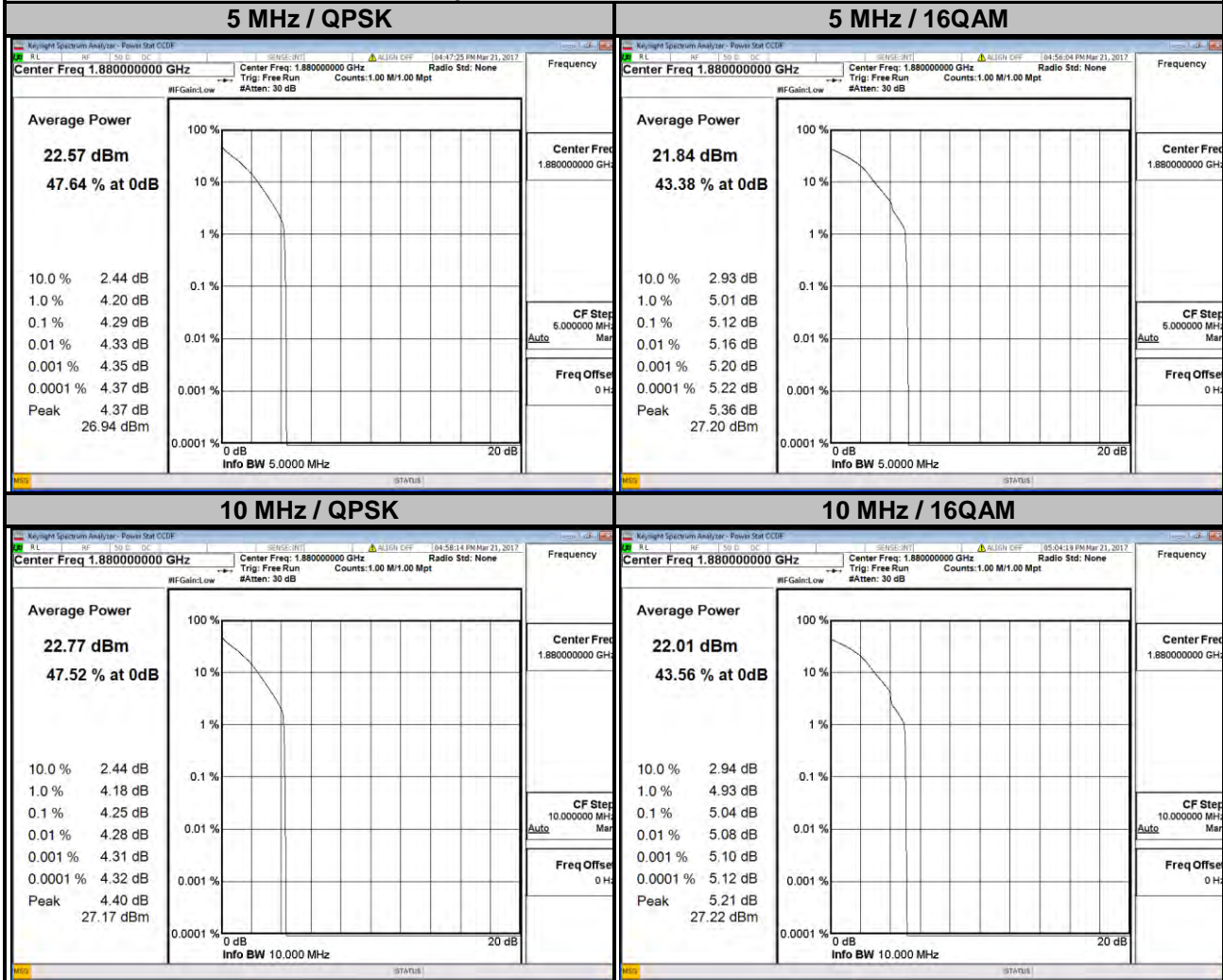
3 MHz / 16QAM



LTE Band 2

Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.20	4.99	18650	1855.0	3.96	4.76
18900	1880.0	4.29	5.12	18900	1880.0	4.25	5.04
19175	1907.5	3.82	4.65	19150	1905.0	4.20	4.97

Spectrum Plot of Worst Value



LTE Band 2

Channel Bandwidth: 15 MHz

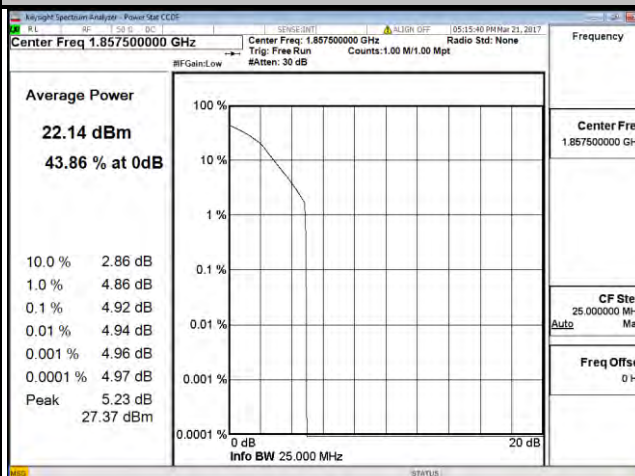
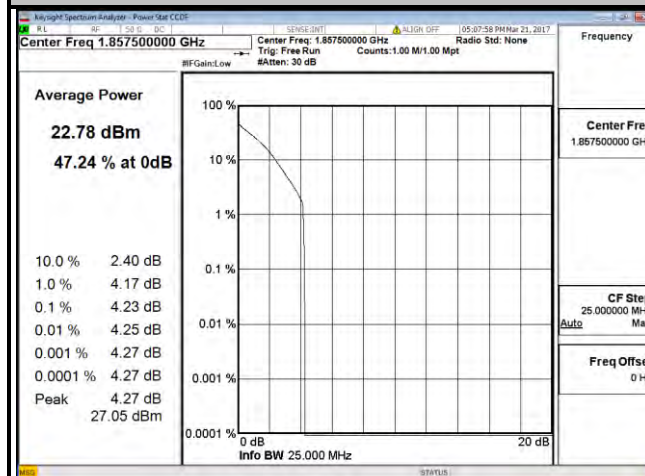
Channel Bandwidth: 20 MHz

Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	4.23	4.92	18700	1860.0	4.07	4.82
18900	1880.0	3.73	4.49	18900	1880.0	3.72	4.54
19125	1902.5	3.80	4.58	19100	1900.0	3.61	4.36

Spectrum Plot of Worst Value

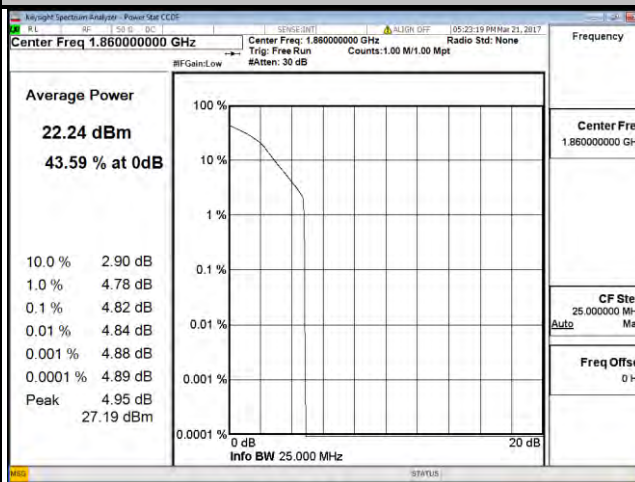
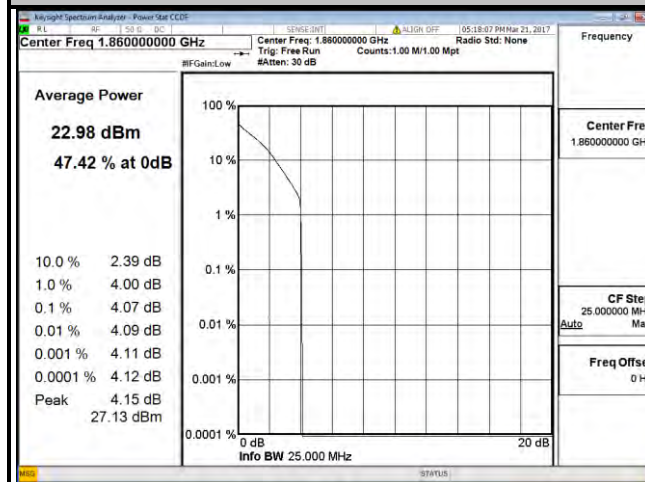
15 MHz / QPSK

15 MHz / 16QAM



20 MHz / QPSK

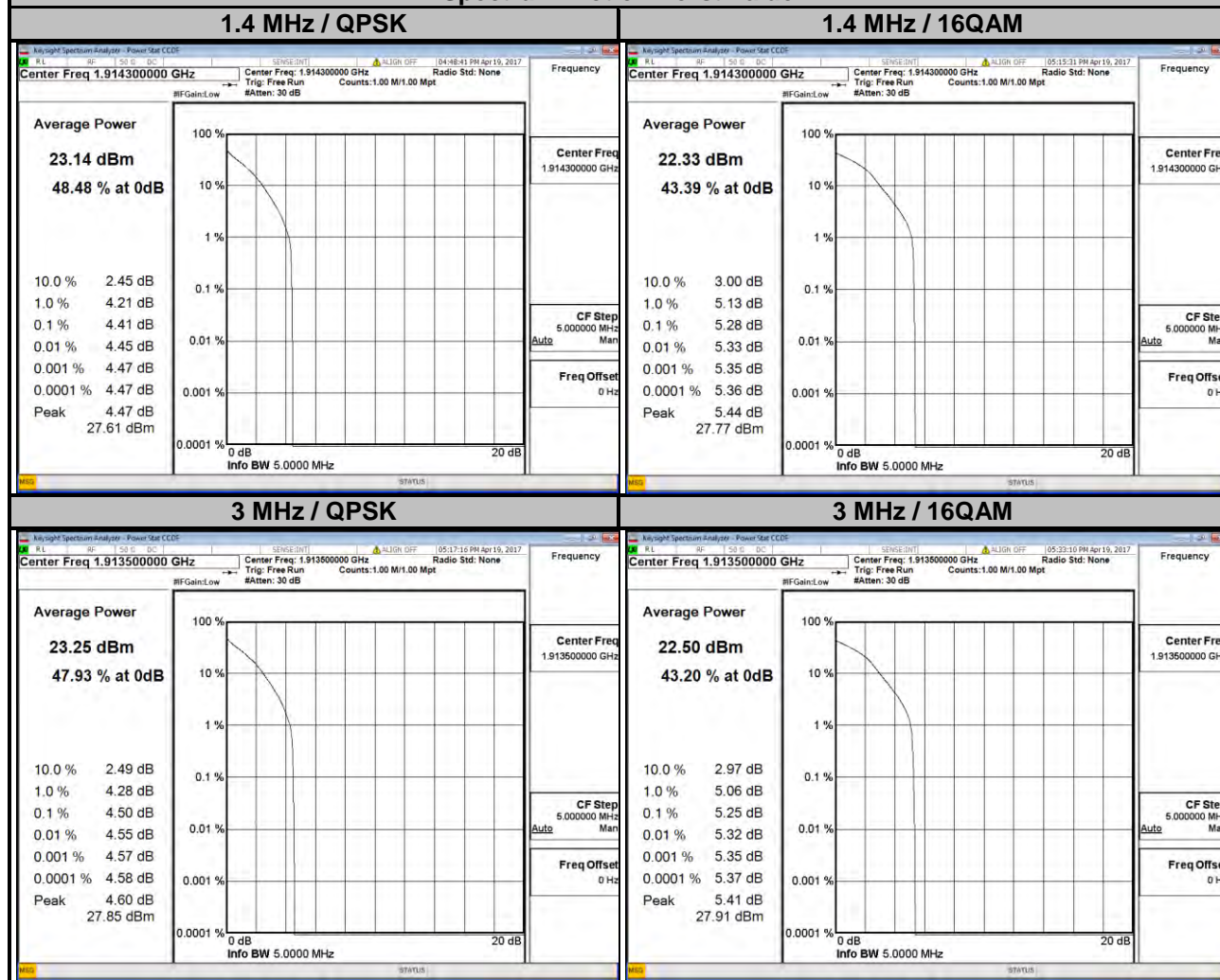
20 MHz / 16QAM



LTE Band 25

Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	4.15	4.93	26055	1851.5	4.22	4.94
26365	1882.5	4.37	5.12	26365	1882.5	4.39	5.13
26683	1914.3	4.41	5.28	26675	1913.5	4.50	5.25

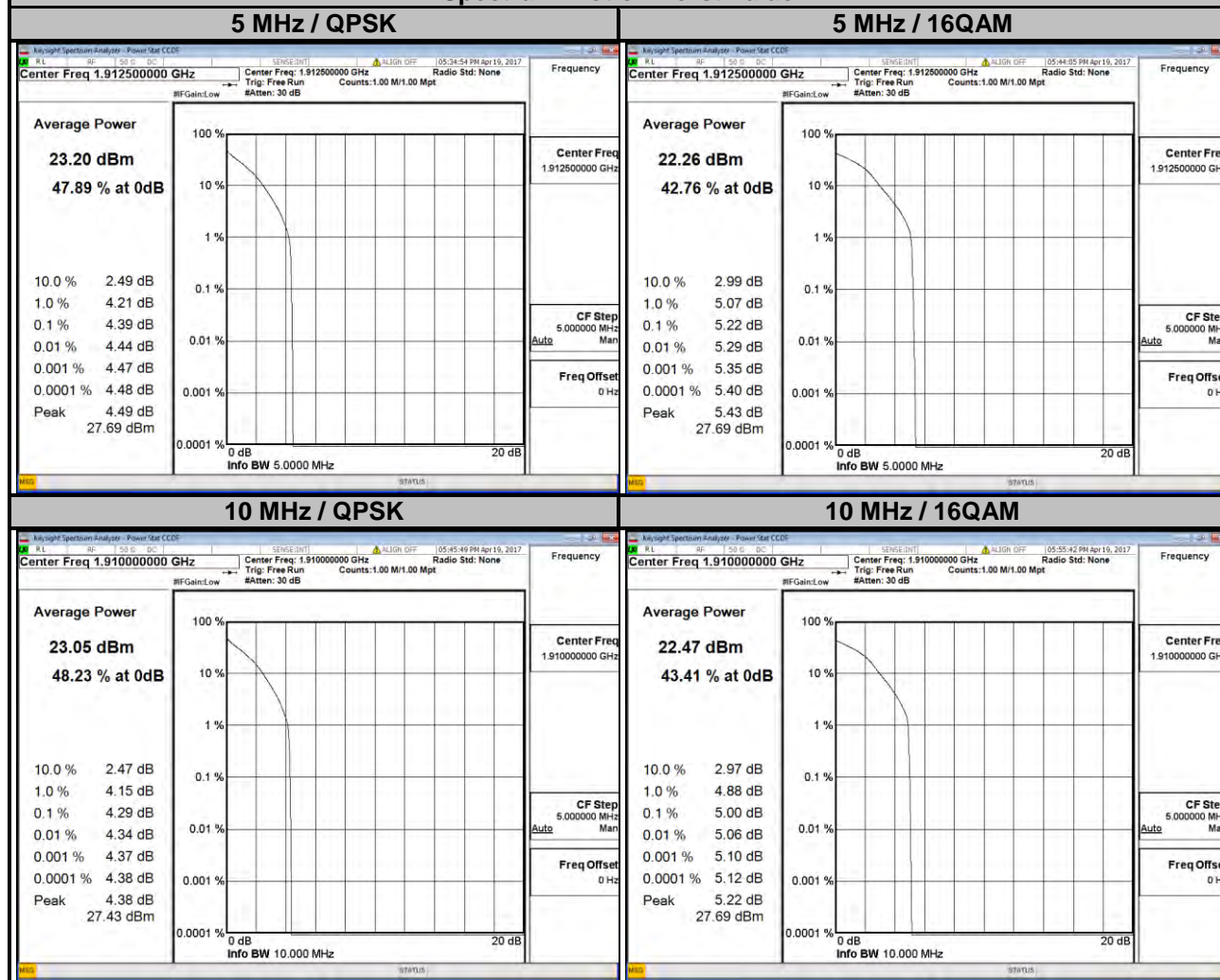
Spectrum Plot of Worst Value



LTE Band 25

Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.17	5.21	26090	1855.0	4.03	4.74
26365	1882.5	4.37	5.13	26365	1882.5	4.20	4.91
26665	1912.5	4.39	5.22	26640	1910.0	4.29	5.00

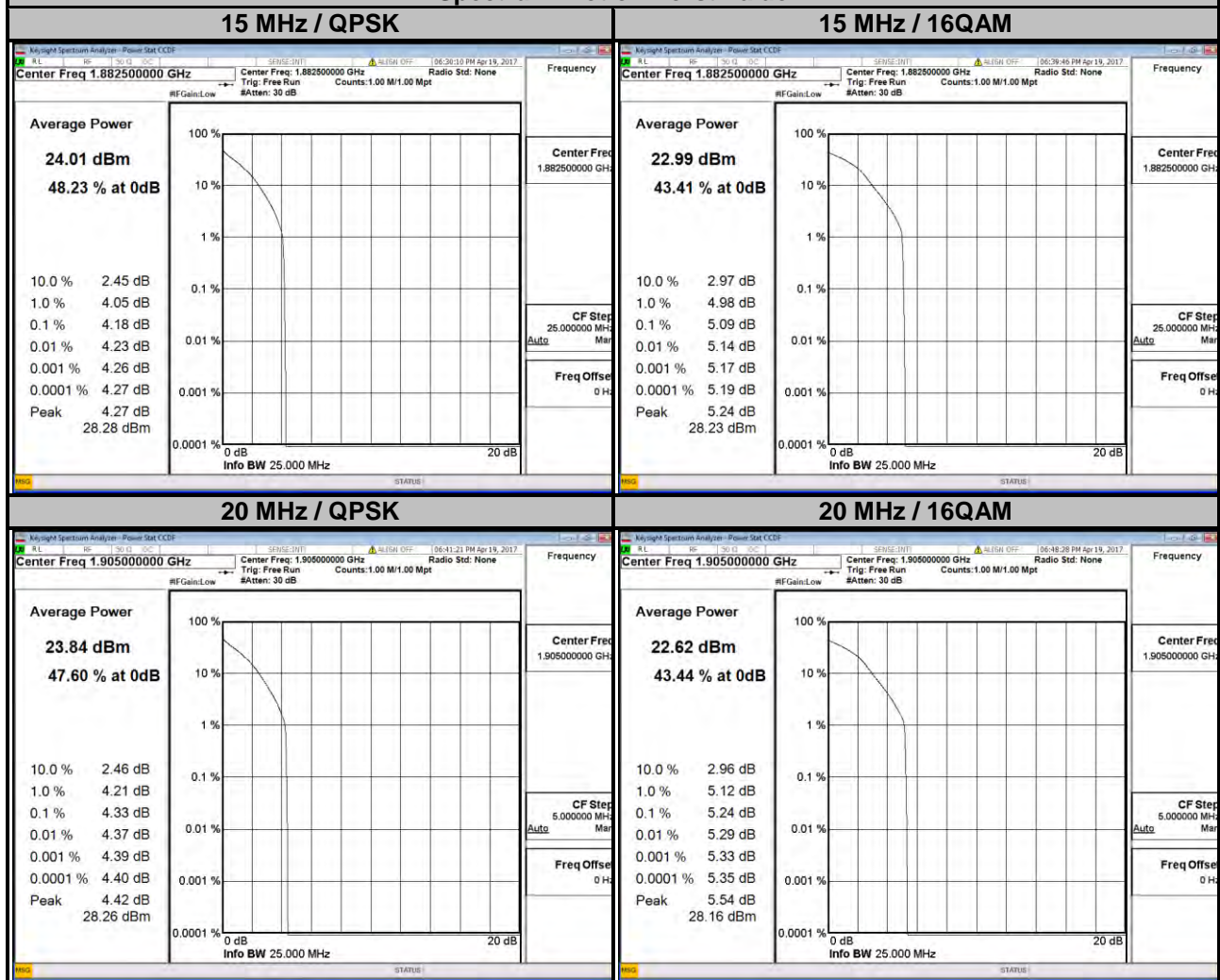
Spectrum Plot of Worst Value



LTE Band 25

Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	4.01	4.78	26140	1860	4.06	4.77
26365	1882.5	4.18	5.09	26365	1882.5	4.11	4.80
26615	1907.5	4.17	4.98	26590	1905	4.33	5.24

Spectrum Plot of Worst Value

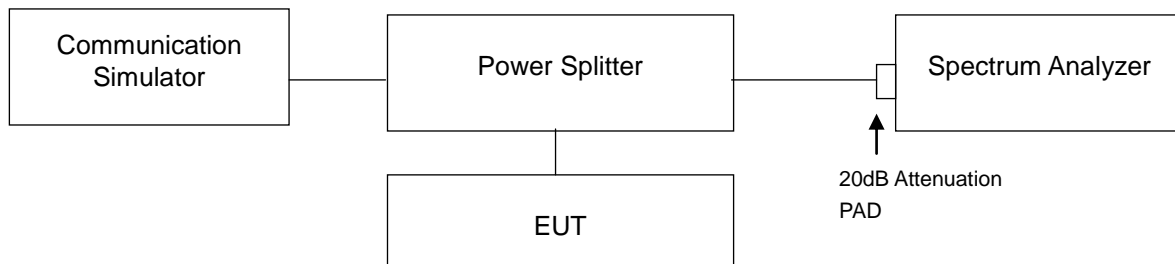


4.6 Conducted Spurious Emissions

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 -13 dBm.

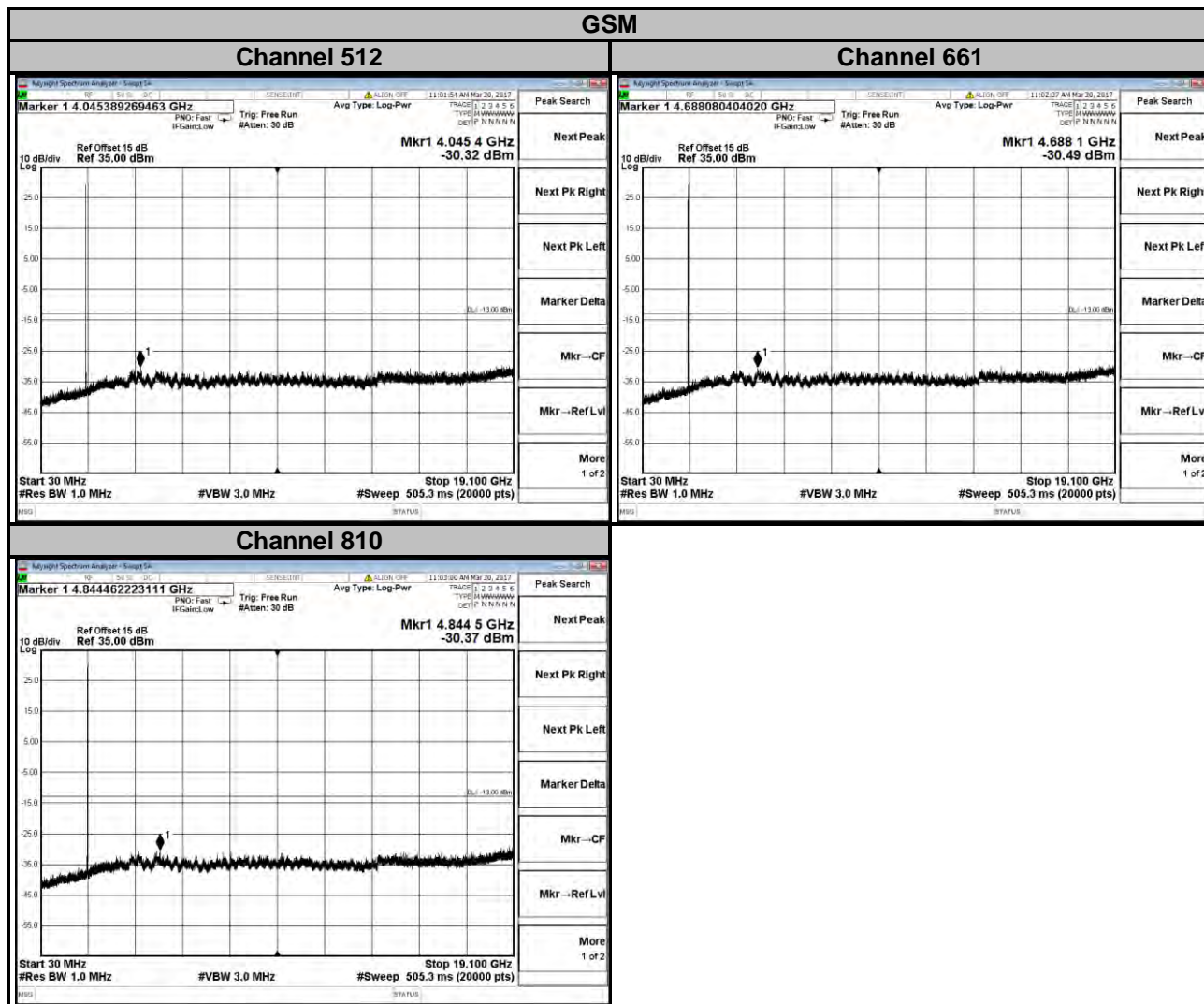
4.6.2 Test Setup



4.6.3 Test Procedure

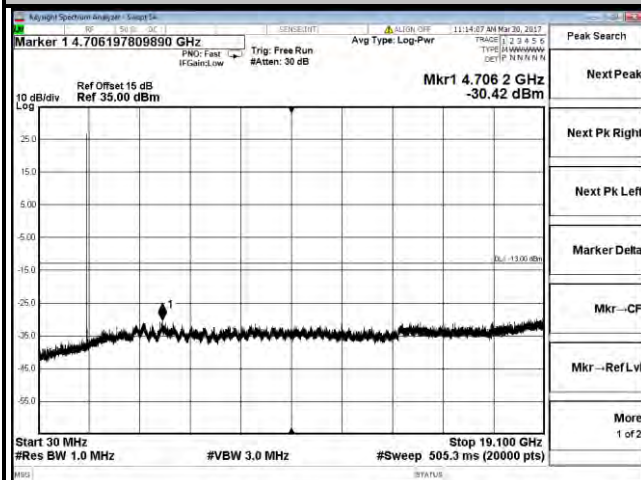
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 9 GHz. 20 dB attenuation pad is connected with spectrum. RBW=1 MHz and VBW=3 MHz is used for conducted emission measurement.

4.6.4 Test Results

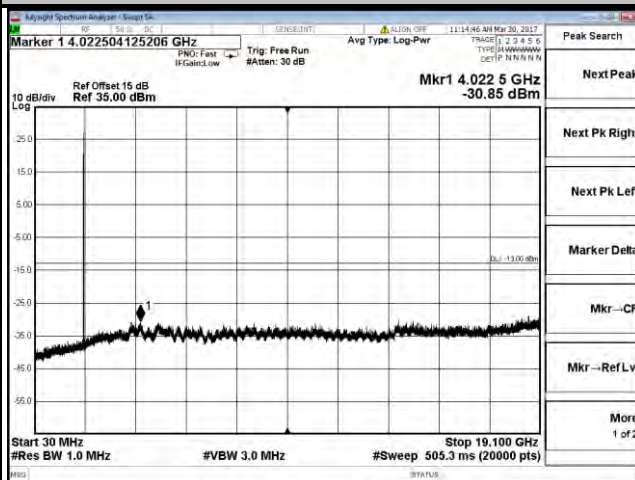


EDGE

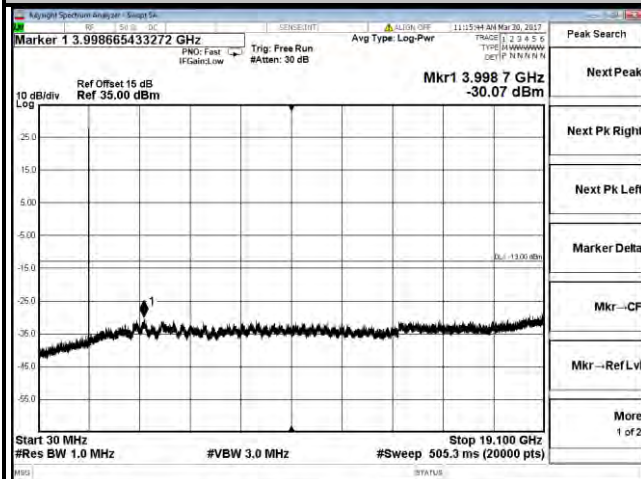
Channel 512



Channel 661

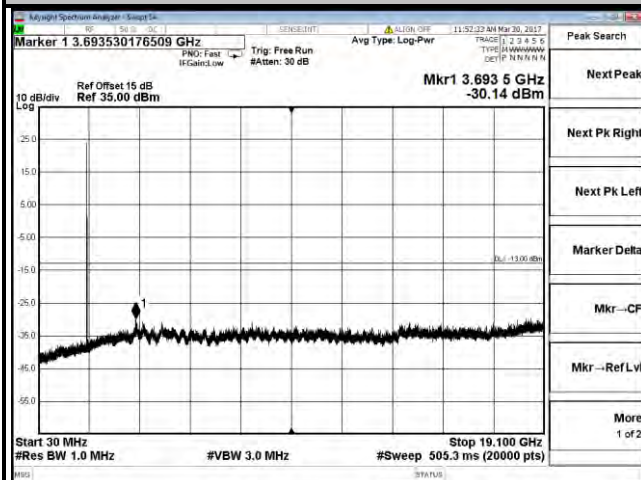


Channel 810

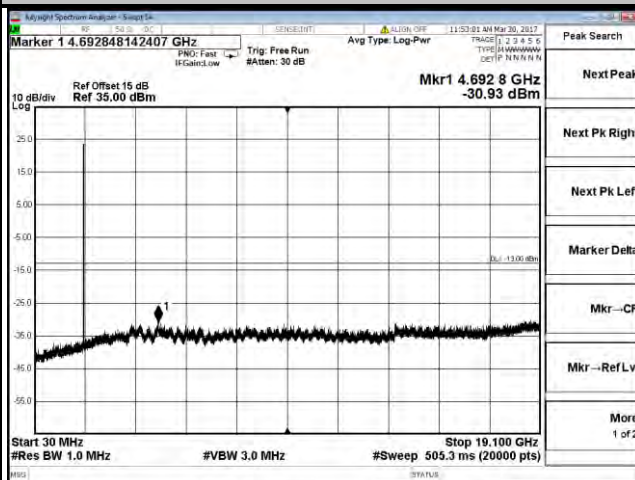


WCDMA

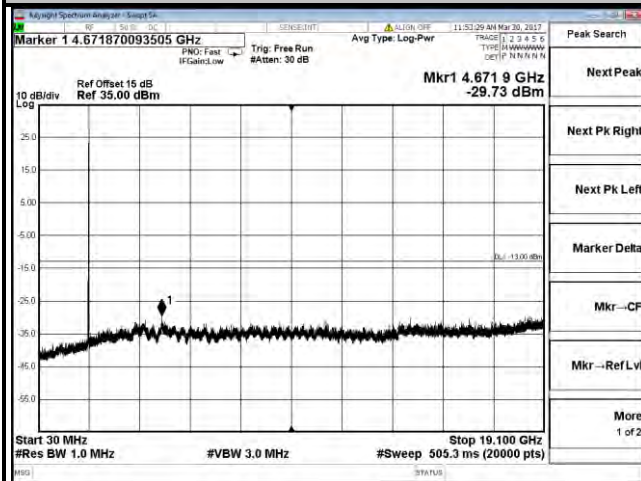
Channel 9262



Channel 9400

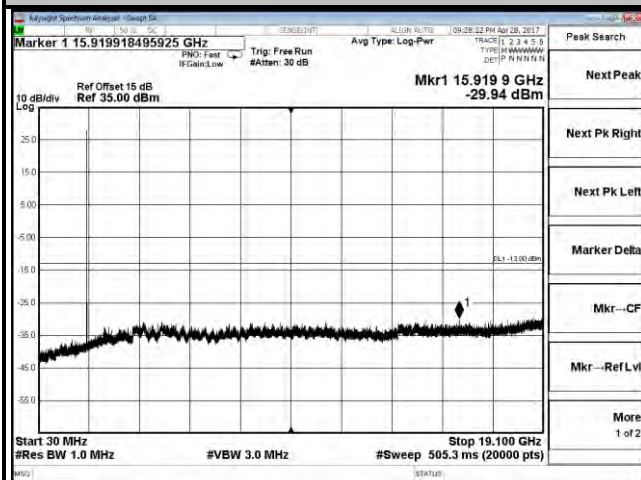


Channel 9538

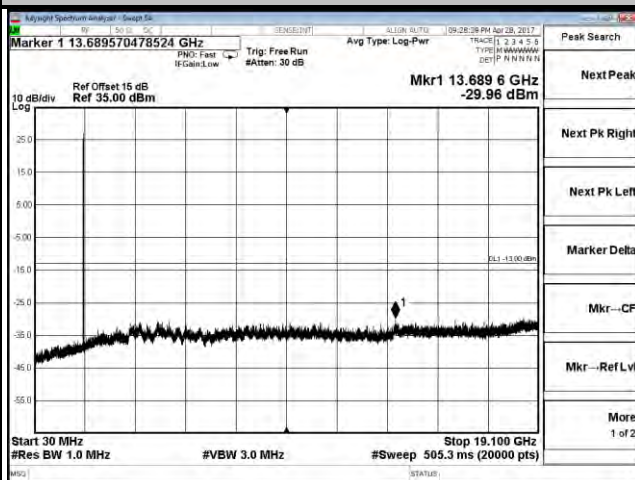


CDMA

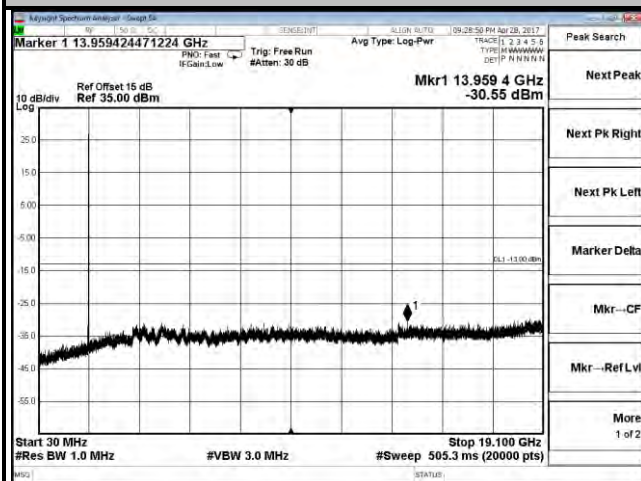
Channel 25



Channel 600

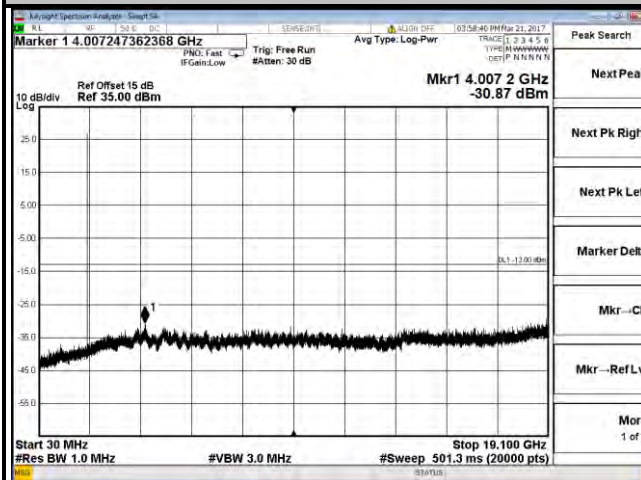


Channel 1175

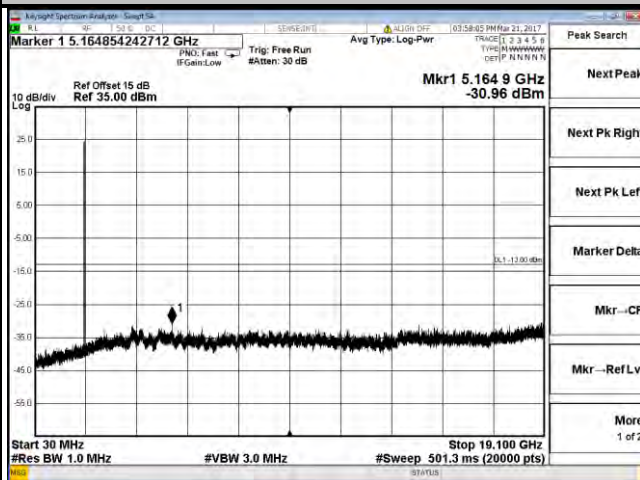


LTE Band 2
Channel Bandwidth: 1.4 MHz

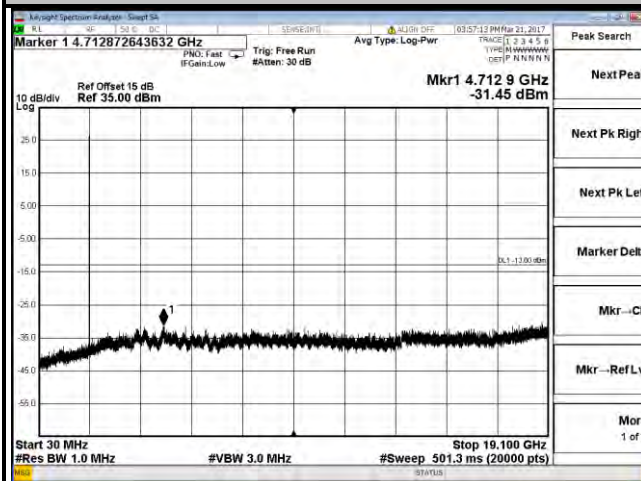
Channel 18607



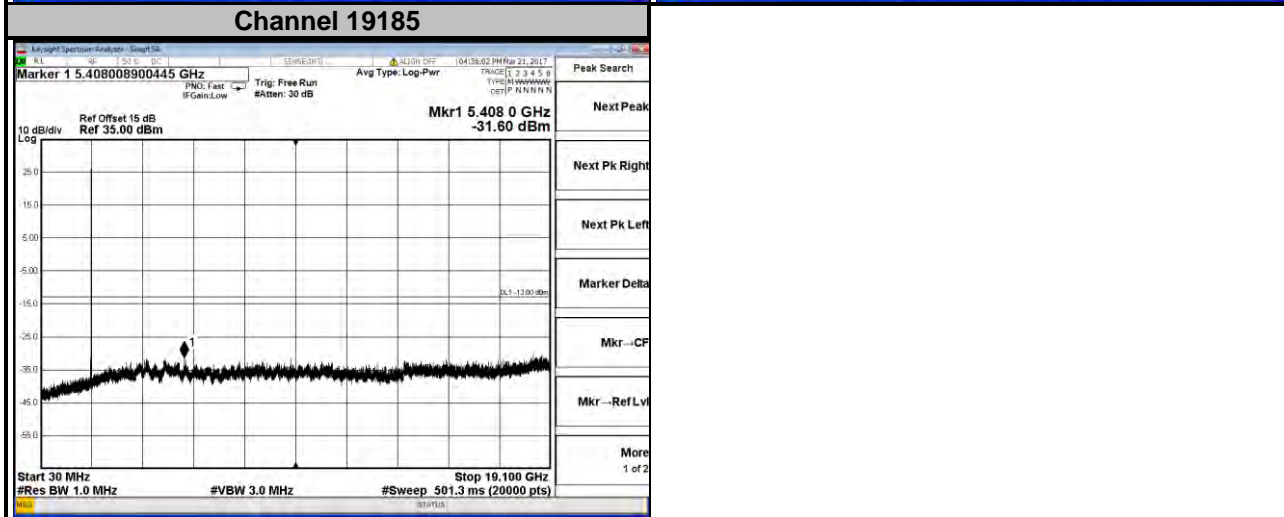
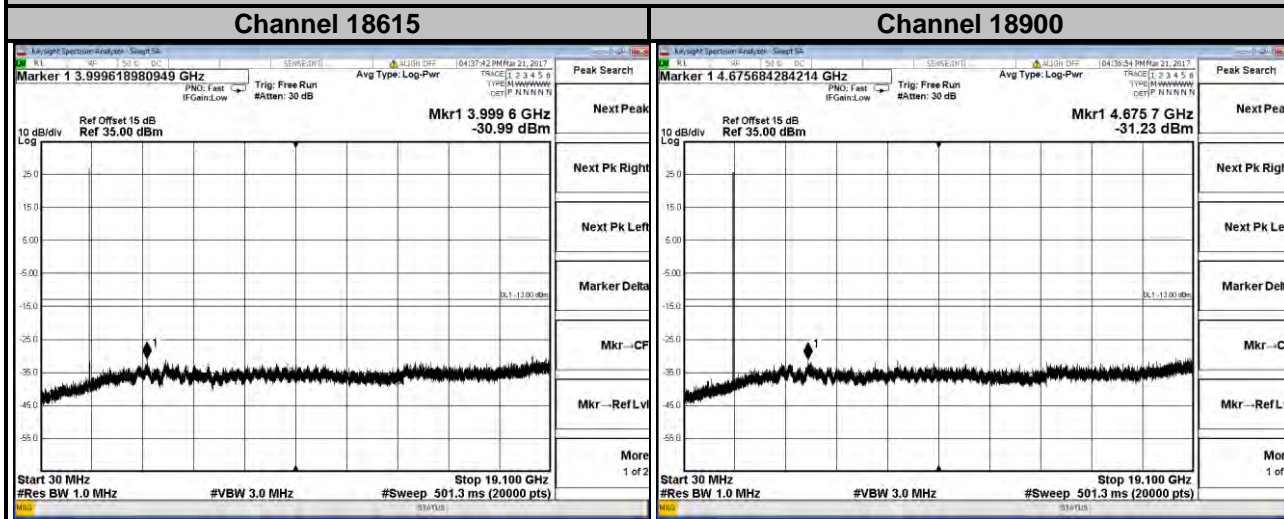
Channel 18900



Channel 19193



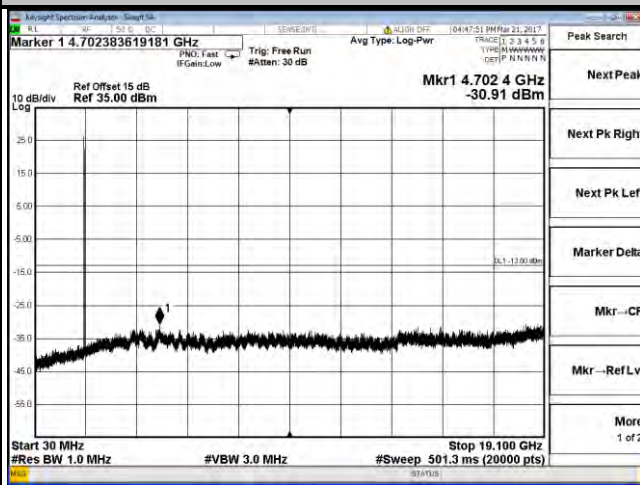
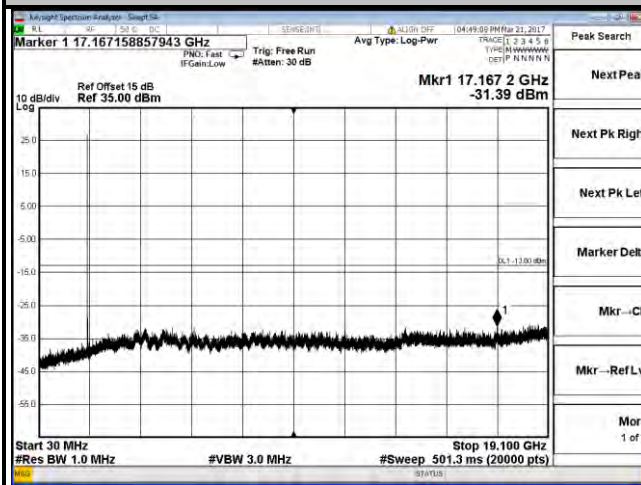
LTE Band 2
Channel Bandwidth: 3 MHz



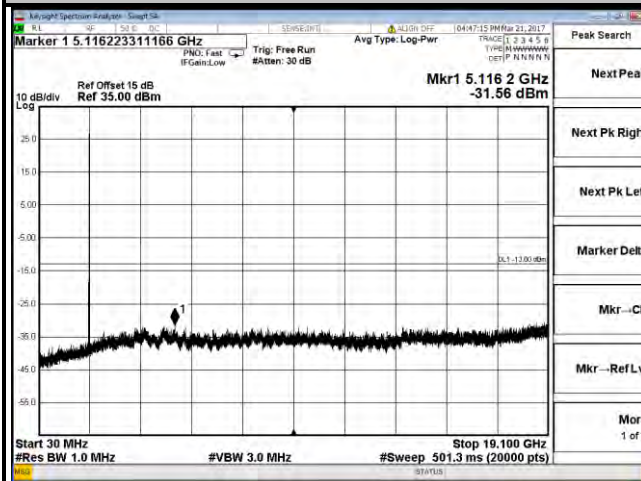
LTE Band 2
Channel Bandwidth: 5 MHz

Channel 18625

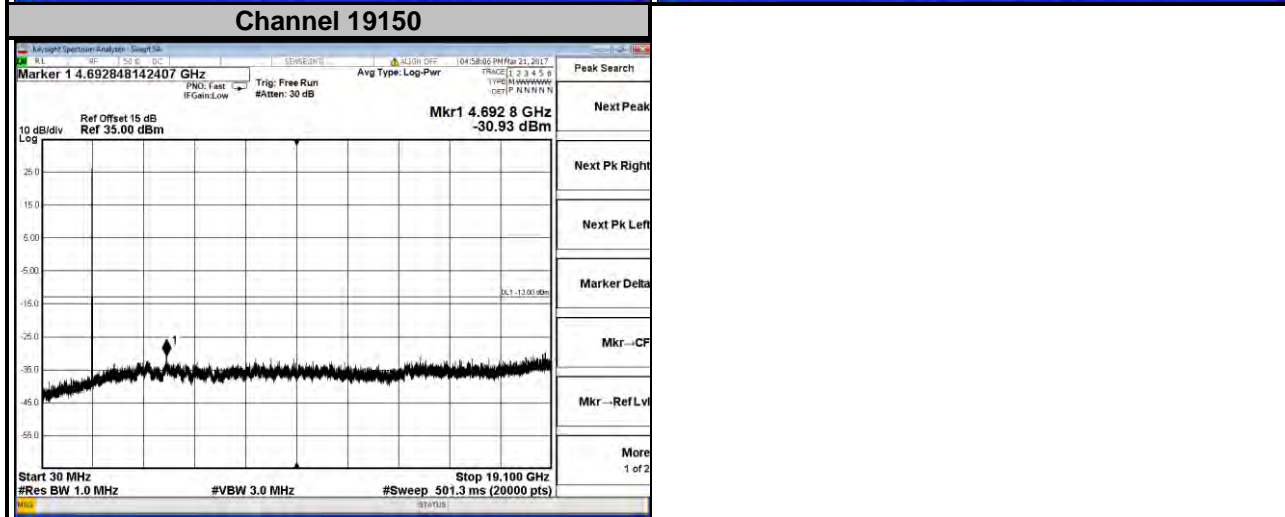
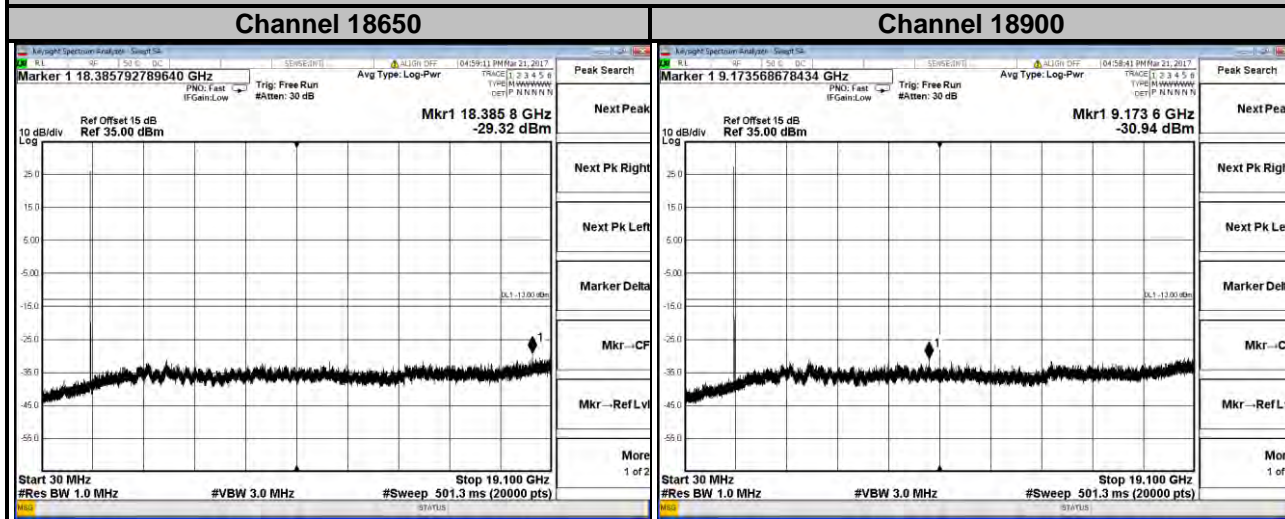
Channel 18900



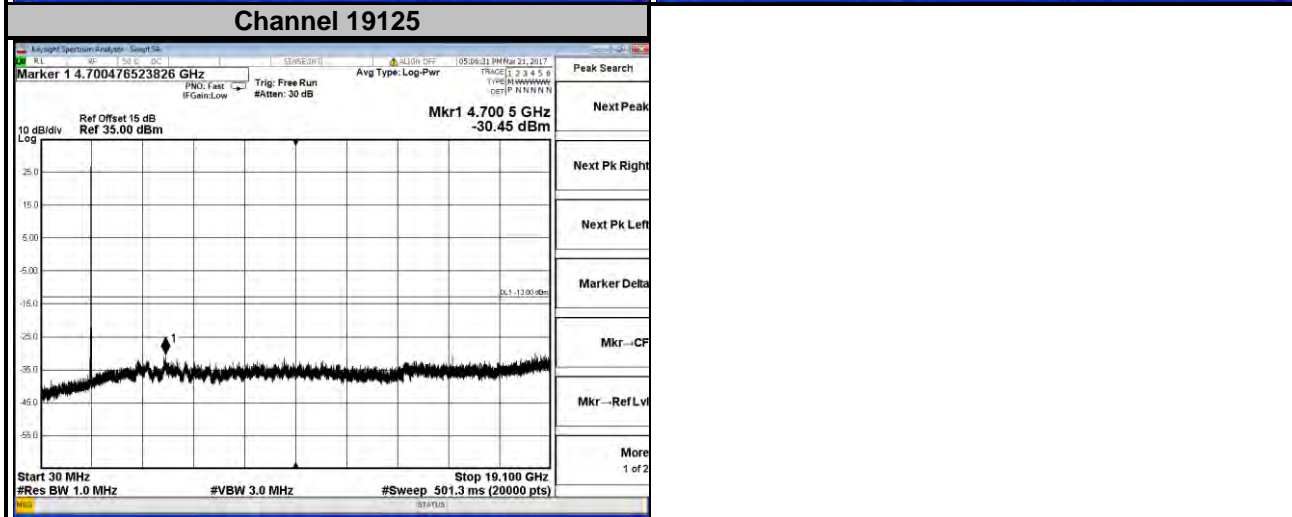
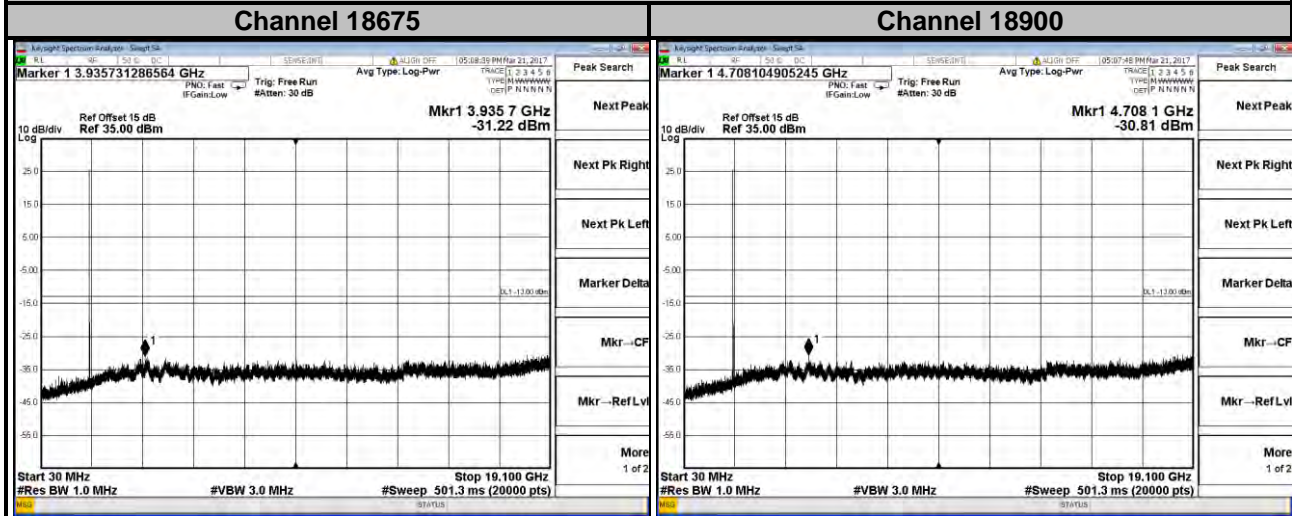
Channel 19175



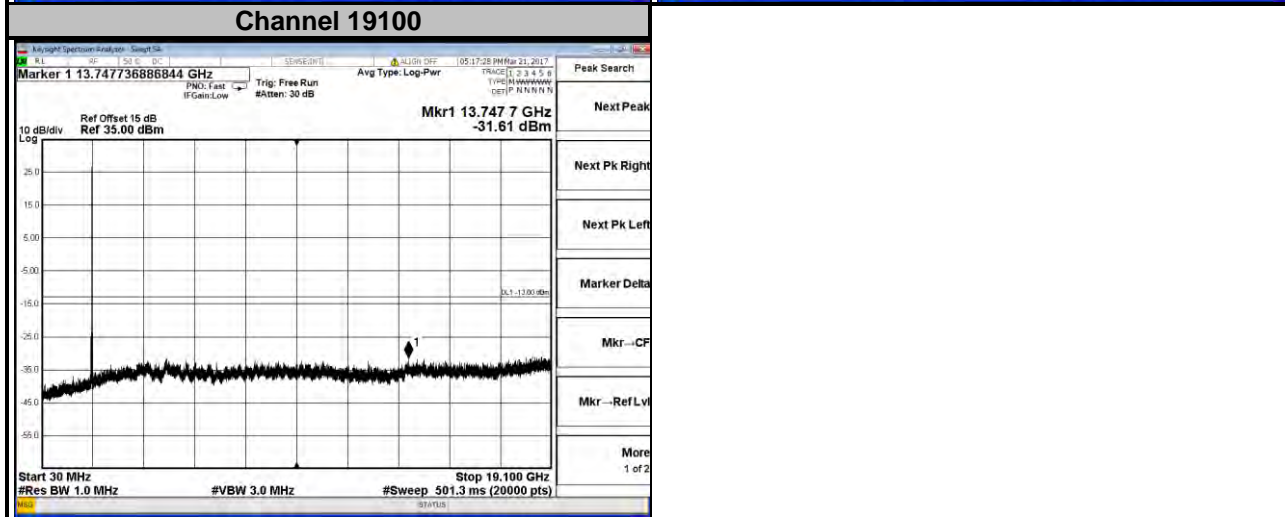
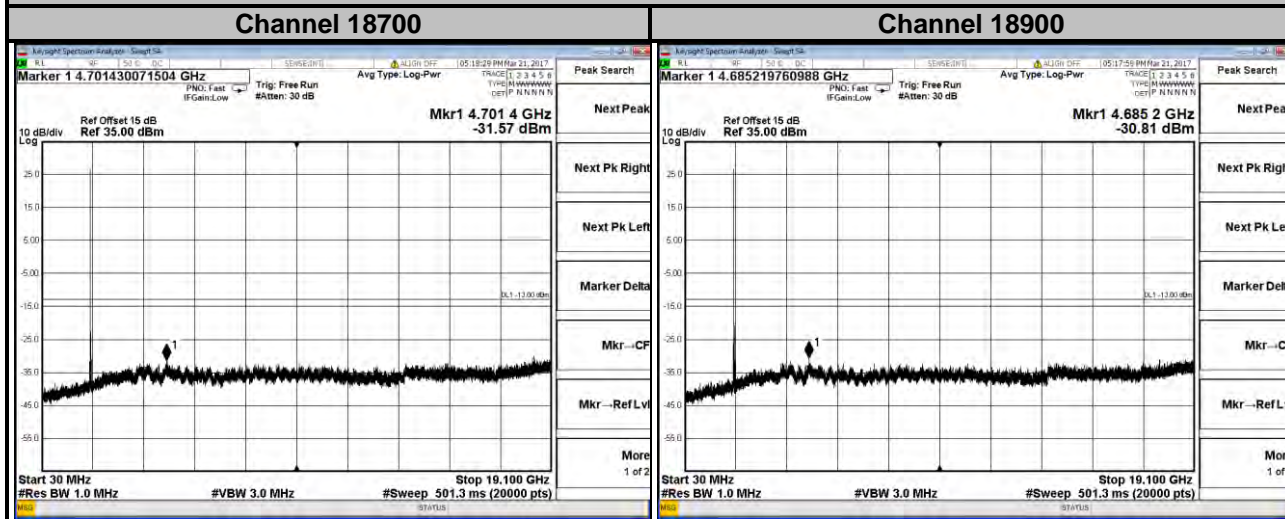
LTE Band 2
Channel Bandwidth: 10 MHz



LTE Band 2
Channel Bandwidth: 15 MHz



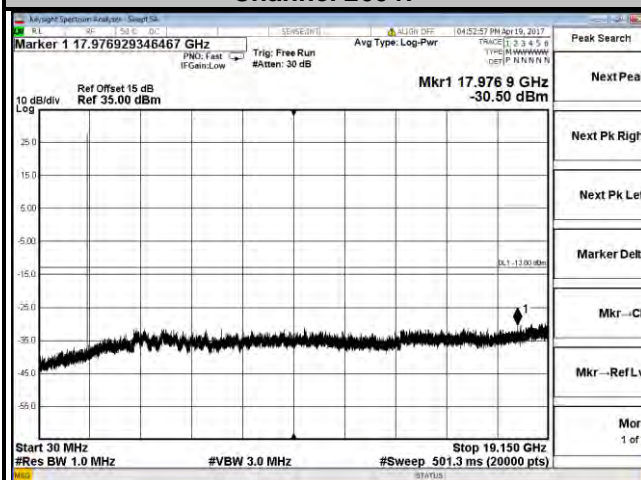
LTE Band 2
Channel Bandwidth: 20 MHz



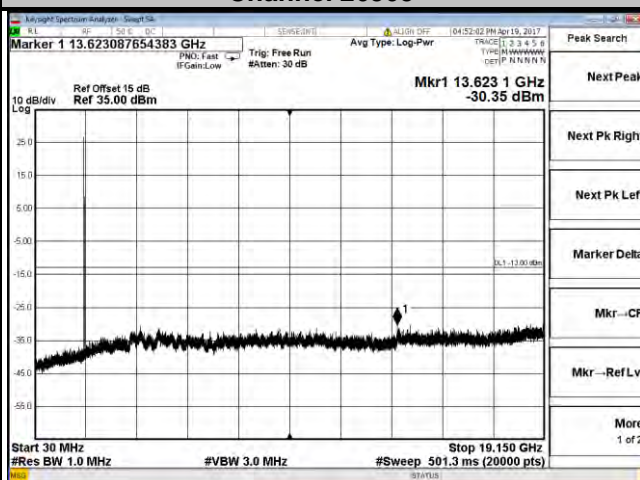
LTE Band 25

Channel Bandwidth: 1.4 MHz

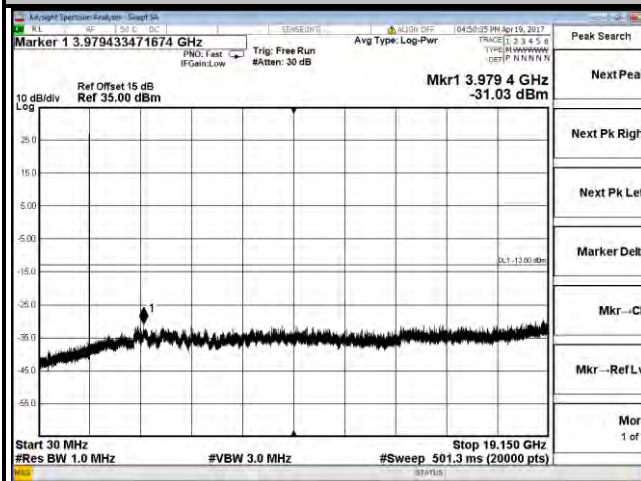
Channel 26047



Channel 26365



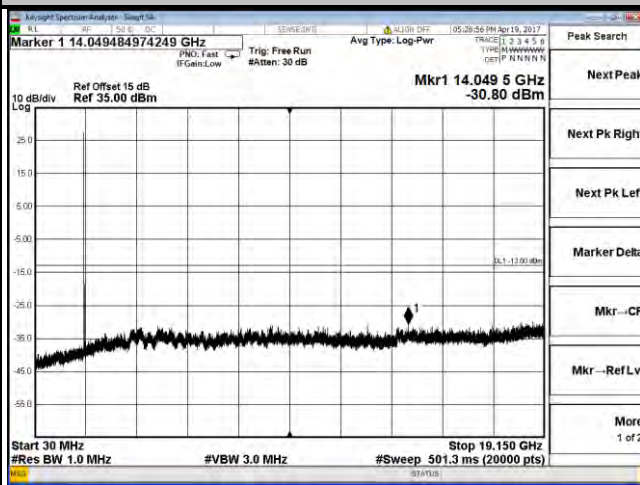
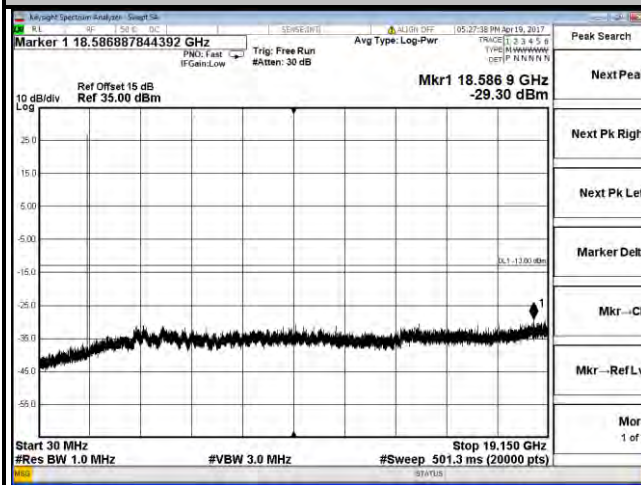
Channel 26683



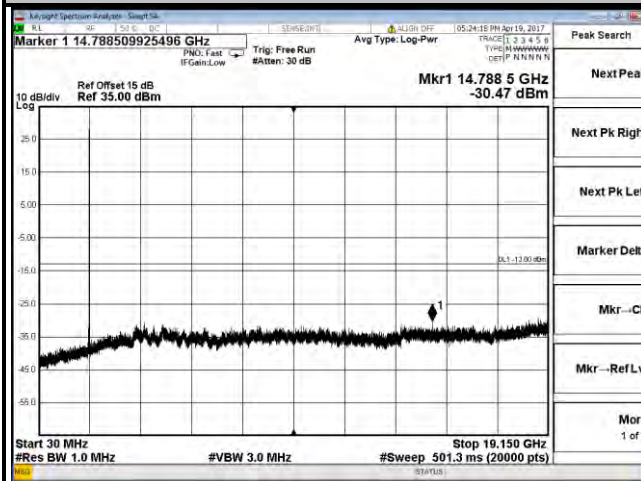
LTE Band 25
Channel Bandwidth: 3 MHz

Channel 26055

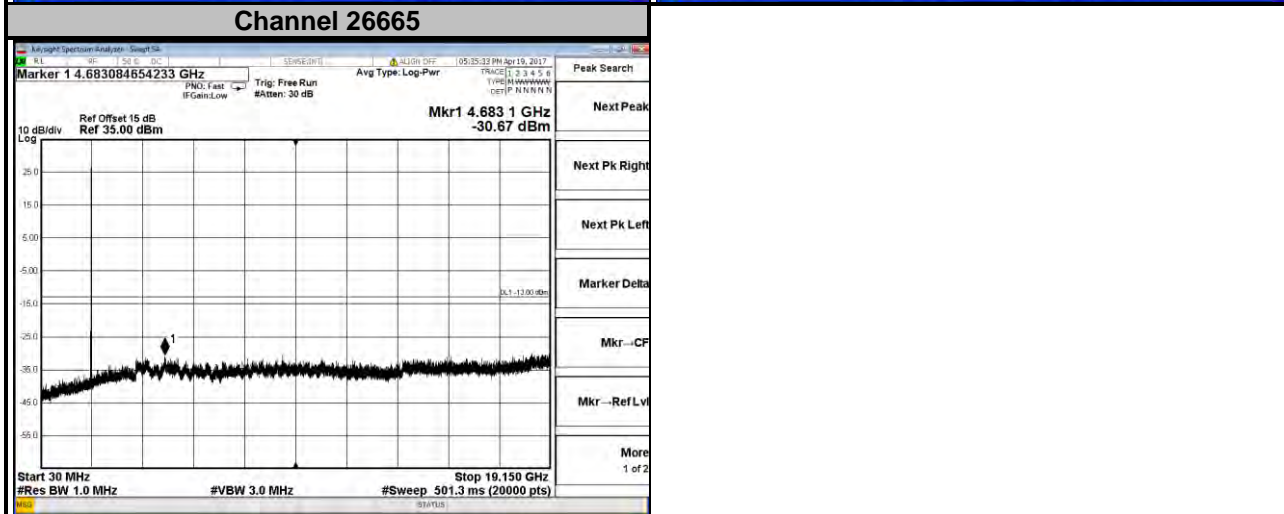
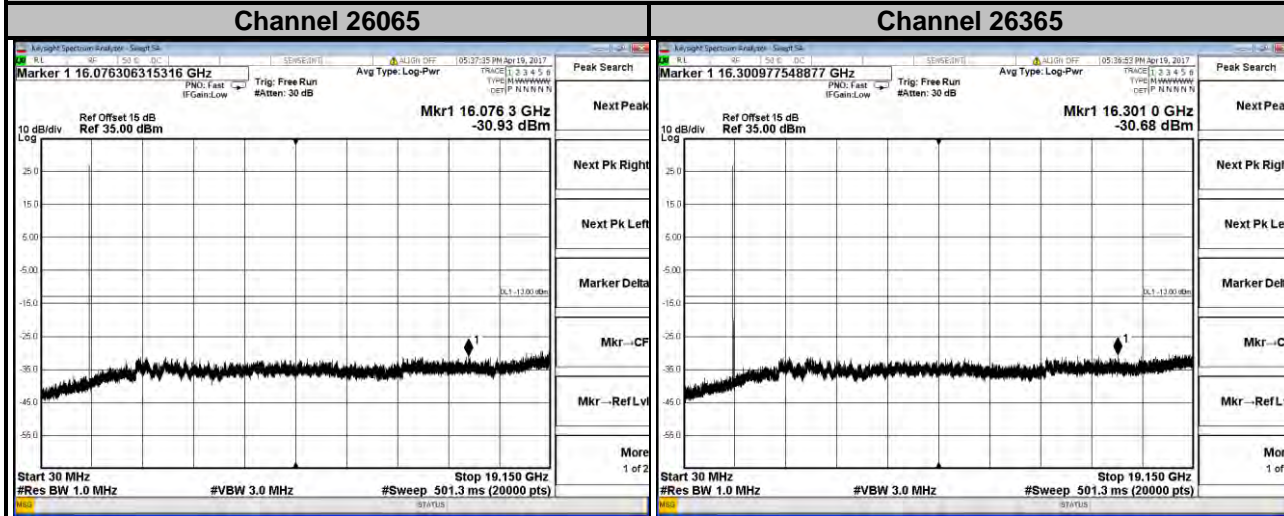
Channel 26365



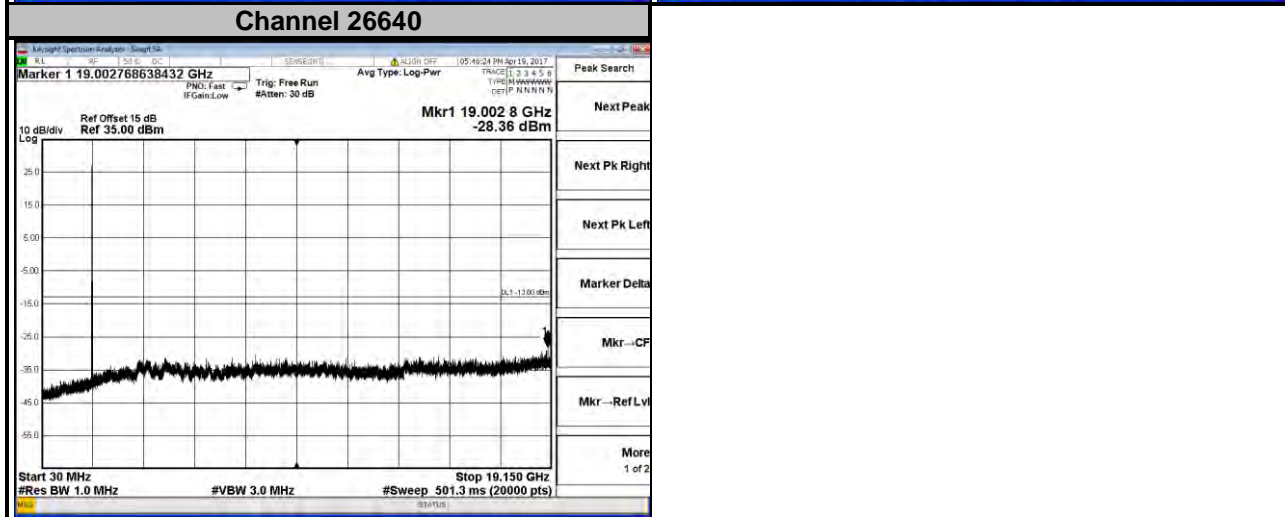
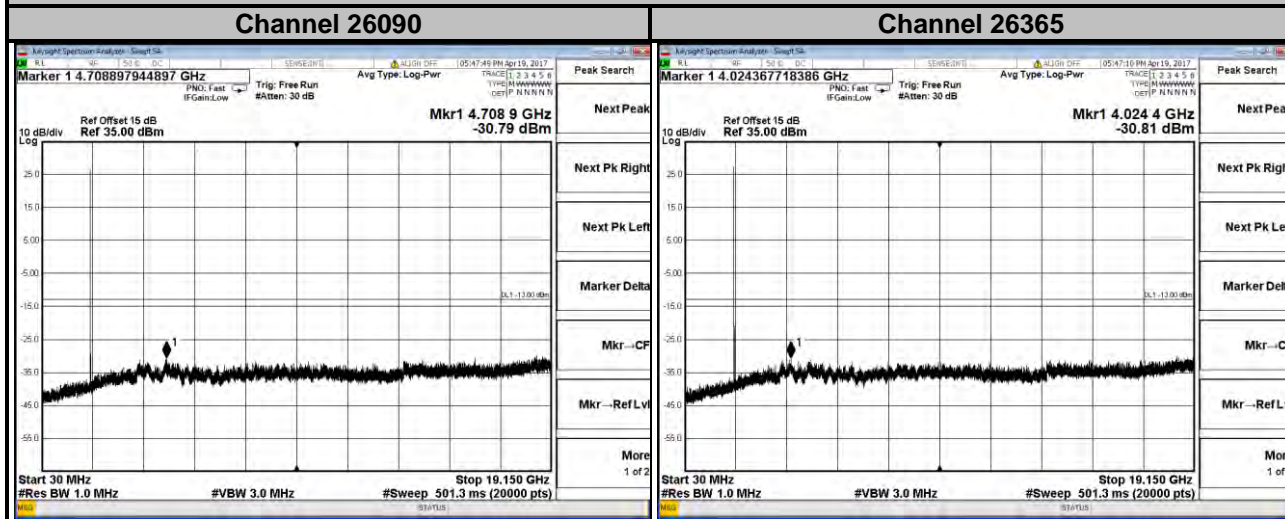
Channel 26675



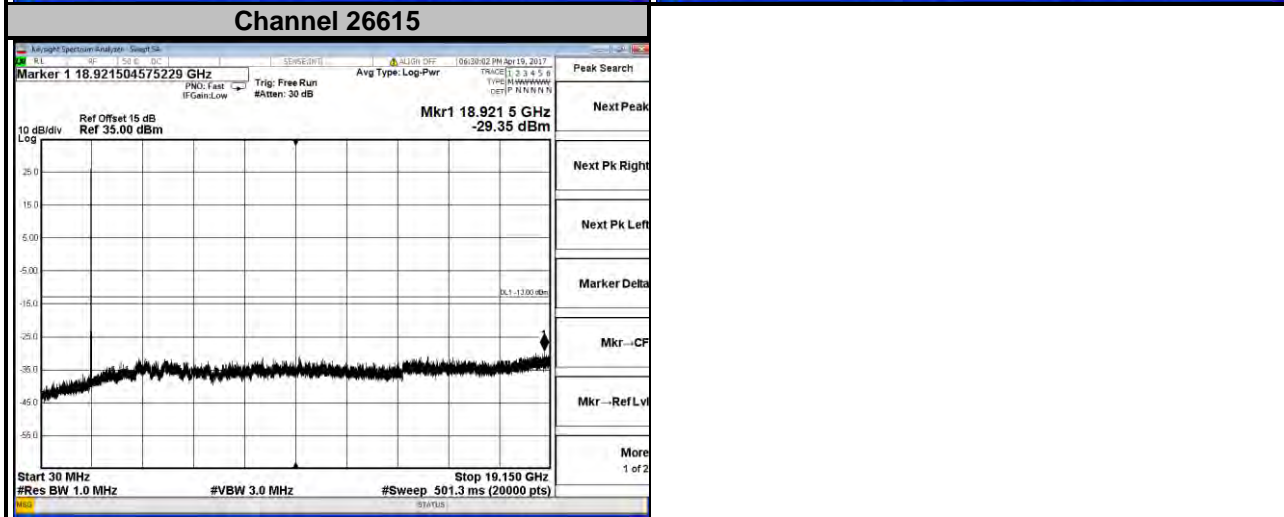
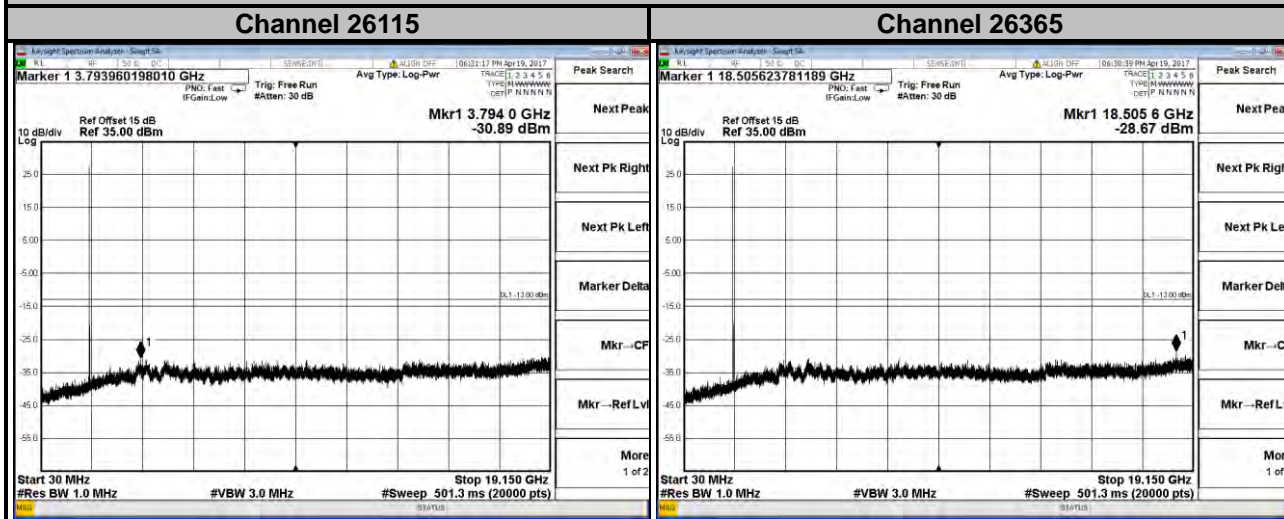
LTE Band 25
Channel Bandwidth: 5 MHz



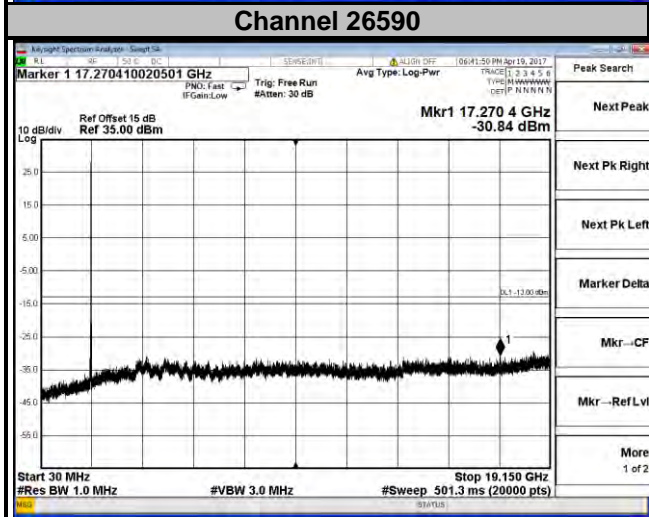
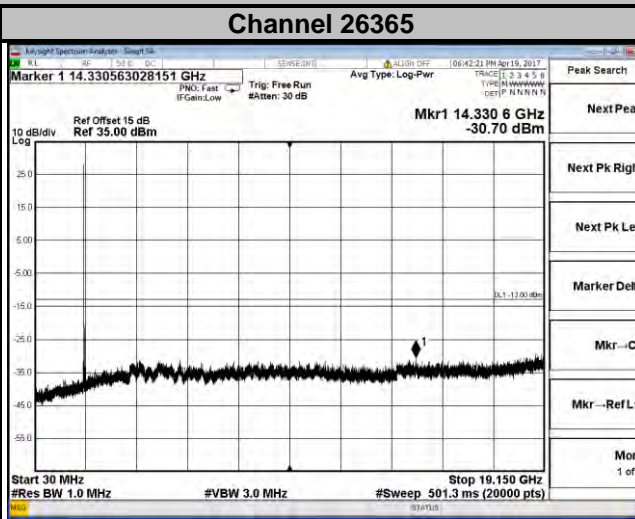
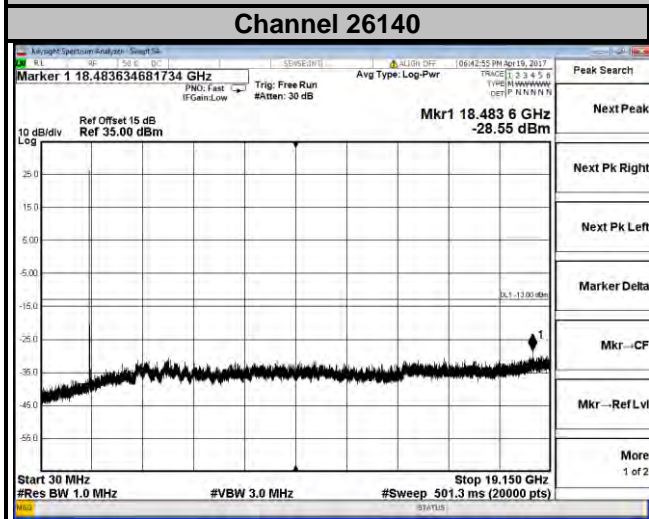
LTE Band 25
Channel Bandwidth: 10 MHz



LTE Band 25
Channel Bandwidth: 15 MHz



LTE Band 25
Channel Bandwidth: 20 MHz



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 is equal to -13 dBm.

4.7.2 Test Procedure

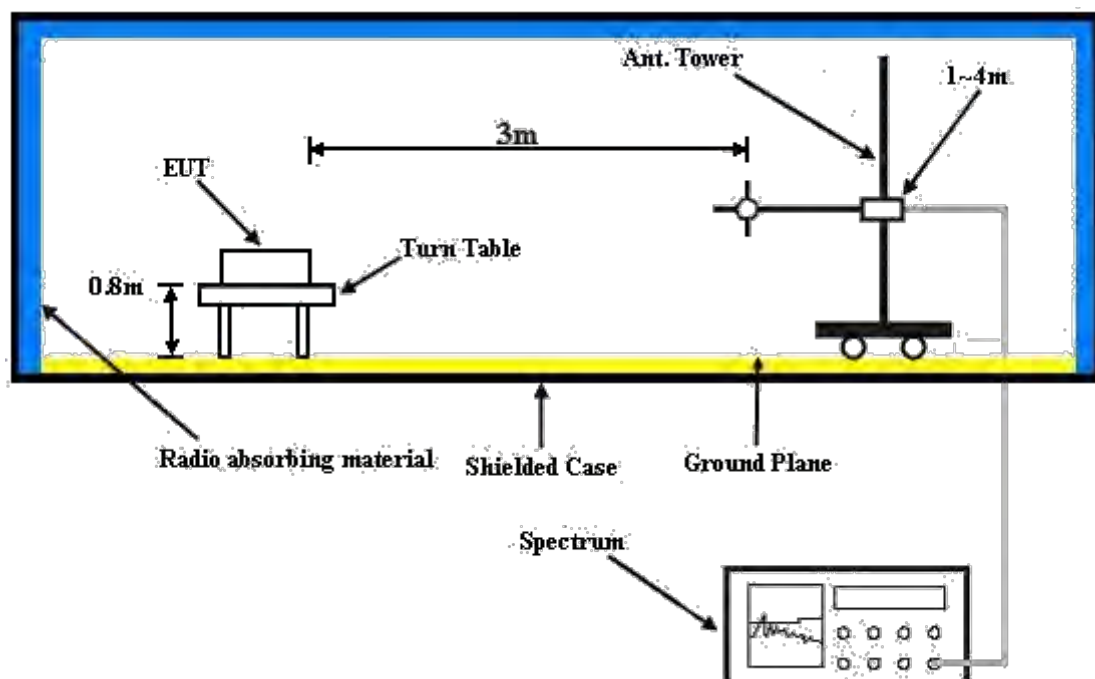
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$.

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

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:

Low Channel

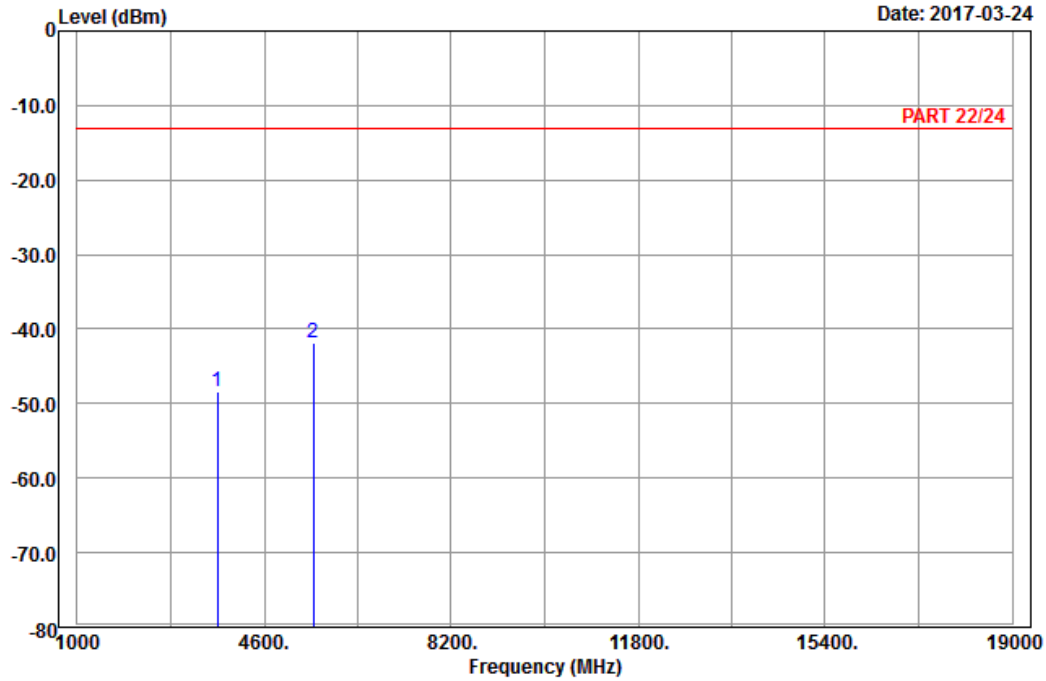


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : PCS 1900_Link_CH512
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3700.40	-48.32	-64.20	-13.00	-35.32	15.88	Peak
2 pp	5550.60	-41.86	-62.20	-13.00	-28.86	20.34	Peak

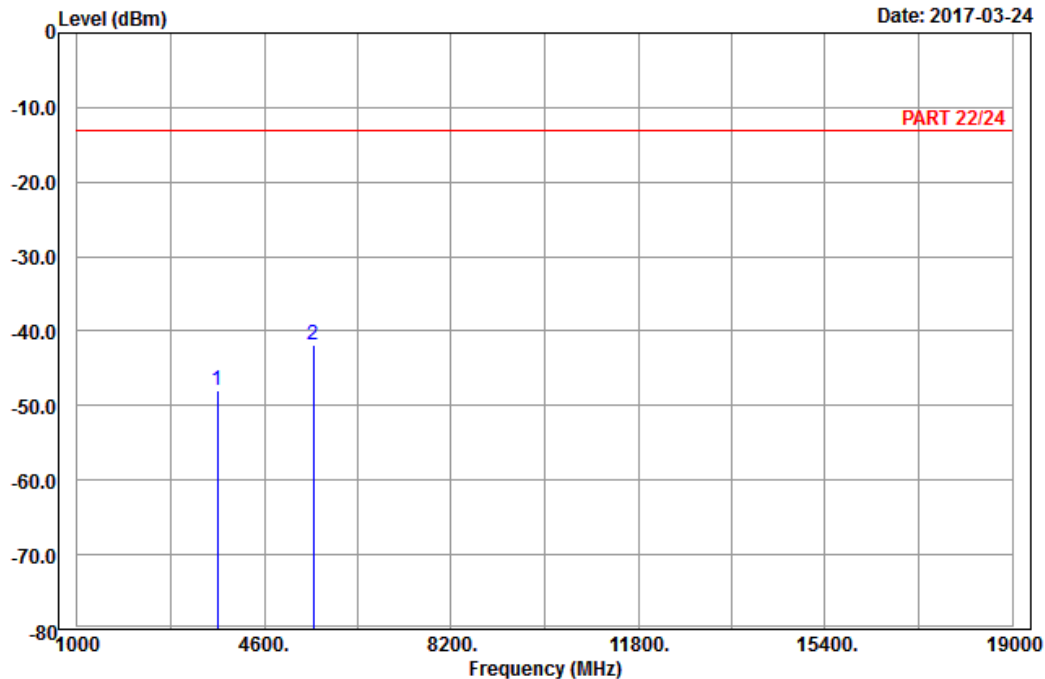


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : PCS 1900_Link_CH512
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3700.40	-47.99	-63.87	-13.00	-34.99	15.88	Peak
2 pp	5550.60	-41.83	-62.17	-13.00	-28.83	20.34	Peak

Middle Channel

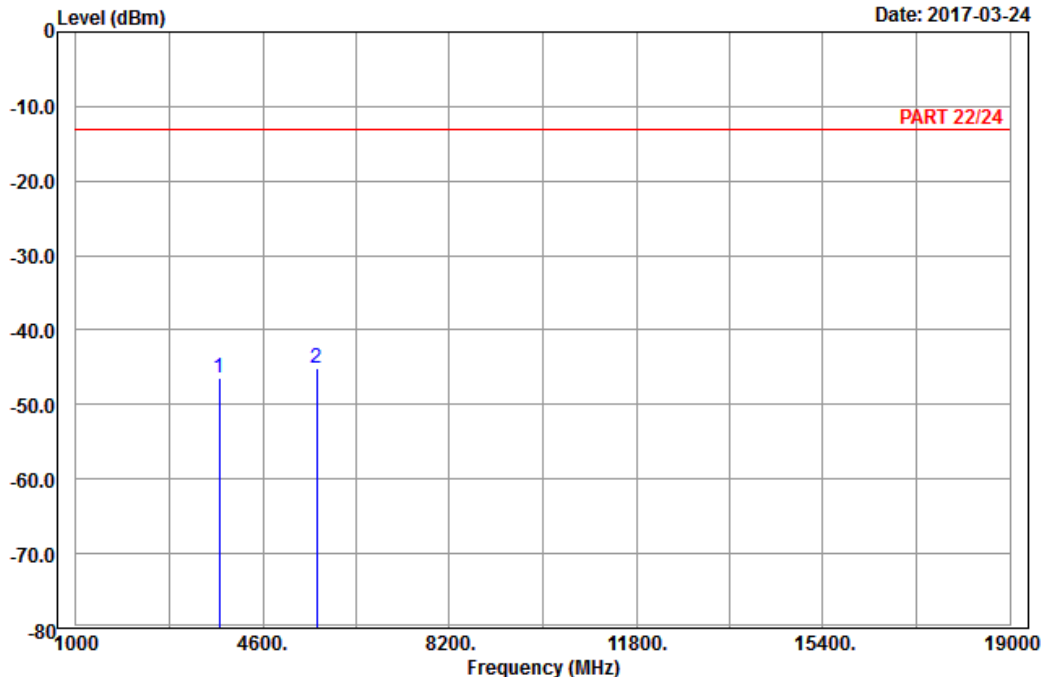


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : PCS 1900_Link_CH661
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3760.00	-46.35	-62.49	-13.00	-33.35	16.14	Peak
2	5640.00	-45.07	-65.54	-13.00	-32.07	20.47	Peak

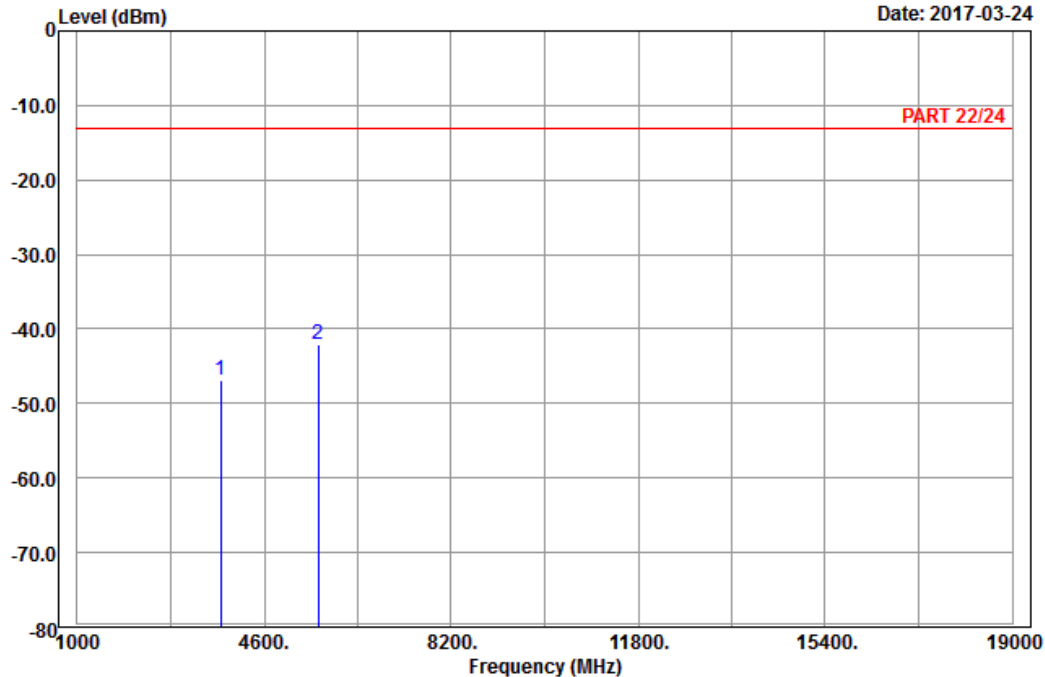


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : PCS 1900_Link_CH661
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	3760.00	-46.96	-63.10	-13.00	-33.96	16.14	Peak
2 pp	5640.00	-42.08	-62.55	-13.00	-29.08	20.47	Peak

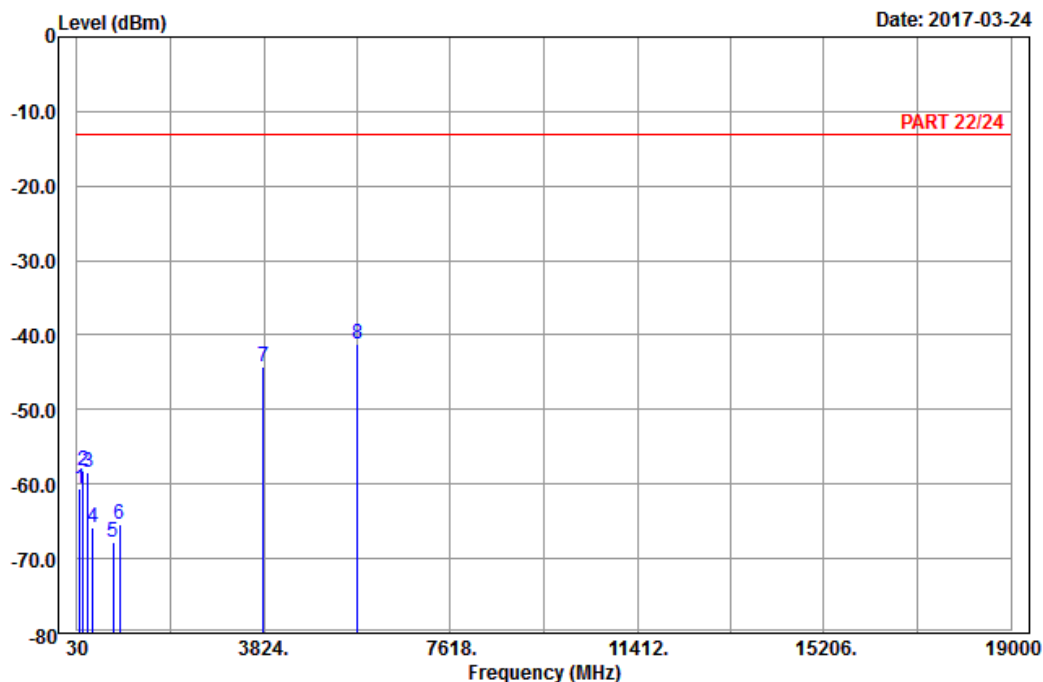
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : PCS 1900_Link_CH810
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	94.80	-60.52	-50.12	-13.00	-47.52	-10.40	Peak
2	147.45	-58.26	-50.38	-13.00	-45.26	-7.88	Peak
3	248.16	-58.47	-52.94	-13.00	-45.47	-5.53	Peak
4	351.10	-65.77	-60.44	-13.00	-52.77	-5.33	Peak
5	771.80	-67.74	-67.90	-13.00	-54.74	0.16	Peak
6	903.40	-65.44	-68.46	-13.00	-52.44	3.02	Peak
7	3819.60	-44.27	-60.77	-13.00	-31.27	16.50	Peak
8 pp	5729.40	-41.09	-61.43	-13.00	-28.09	20.34	Peak

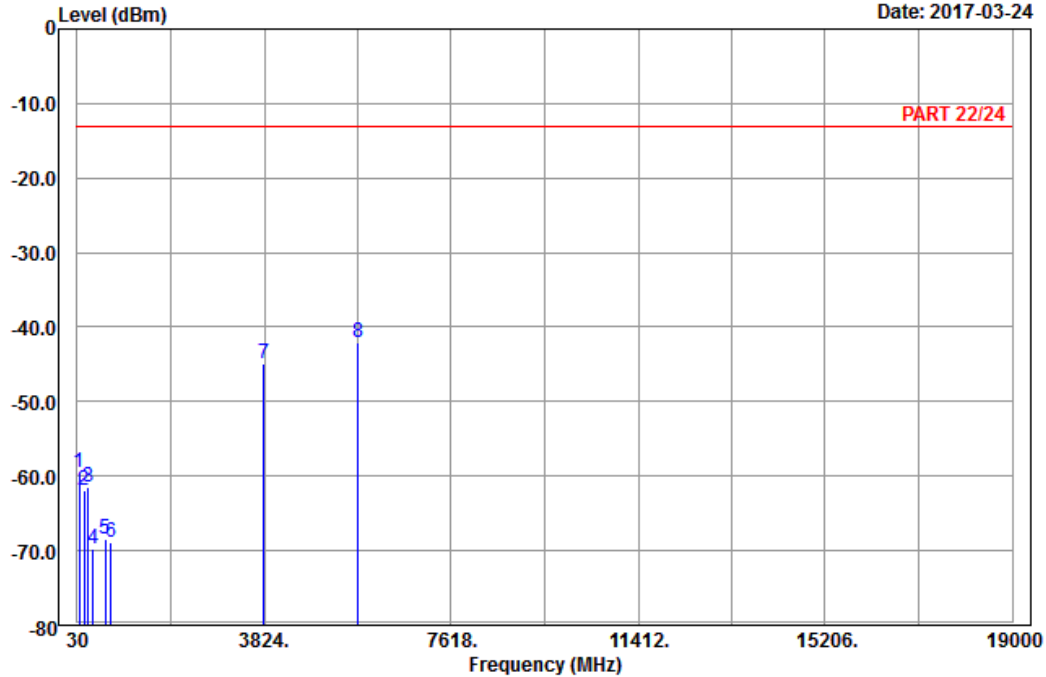


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : PCS 1900_Link_CH810
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	73.20	-59.40	-47.05	-13.00	-46.40	-12.35	Peak
2	162.84	-61.99	-54.61	-13.00	-48.99	-7.38	Peak
3	249.24	-61.45	-55.93	-13.00	-48.45	-5.52	Peak
4	356.70	-69.69	-64.67	-13.00	-56.69	-5.02	Peak
5	603.80	-68.39	-68.77	-13.00	-55.39	0.38	Peak
6	721.40	-68.86	-68.08	-13.00	-55.86	-0.78	Peak
7	3819.60	-44.95	-61.45	-13.00	-31.95	16.50	Peak
8 pp	5729.40	-42.17	-62.51	-13.00	-29.17	20.34	Peak

EDGE:
Low Channel

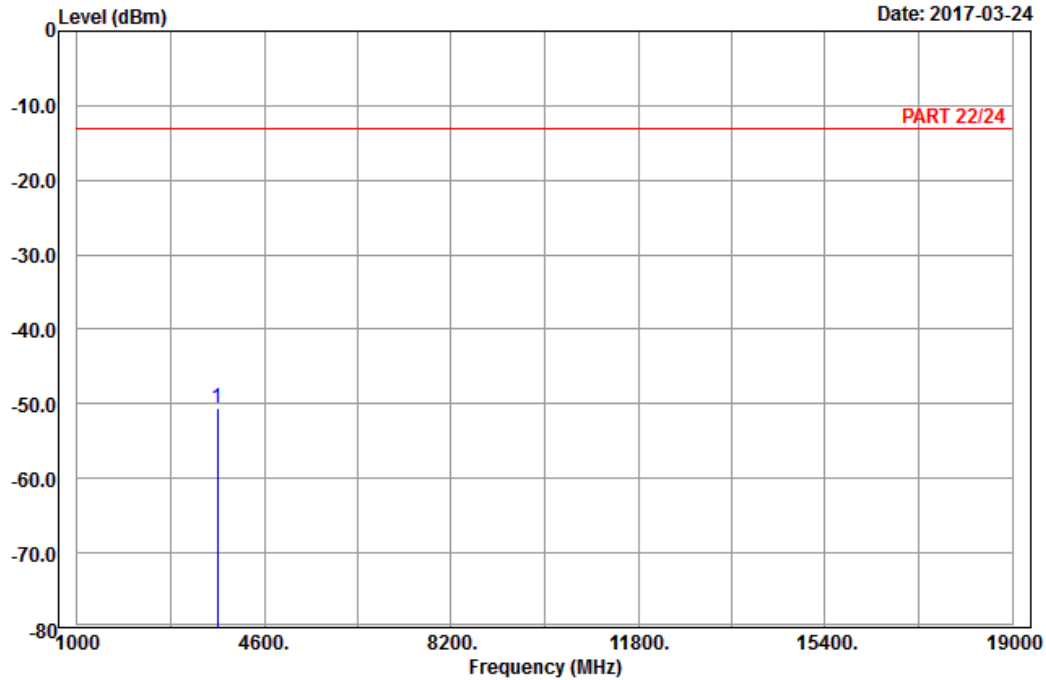


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : EDGE 1900_Link_CH512
Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-50.56	-66.44	-13.00	-37.56	15.88	Peak

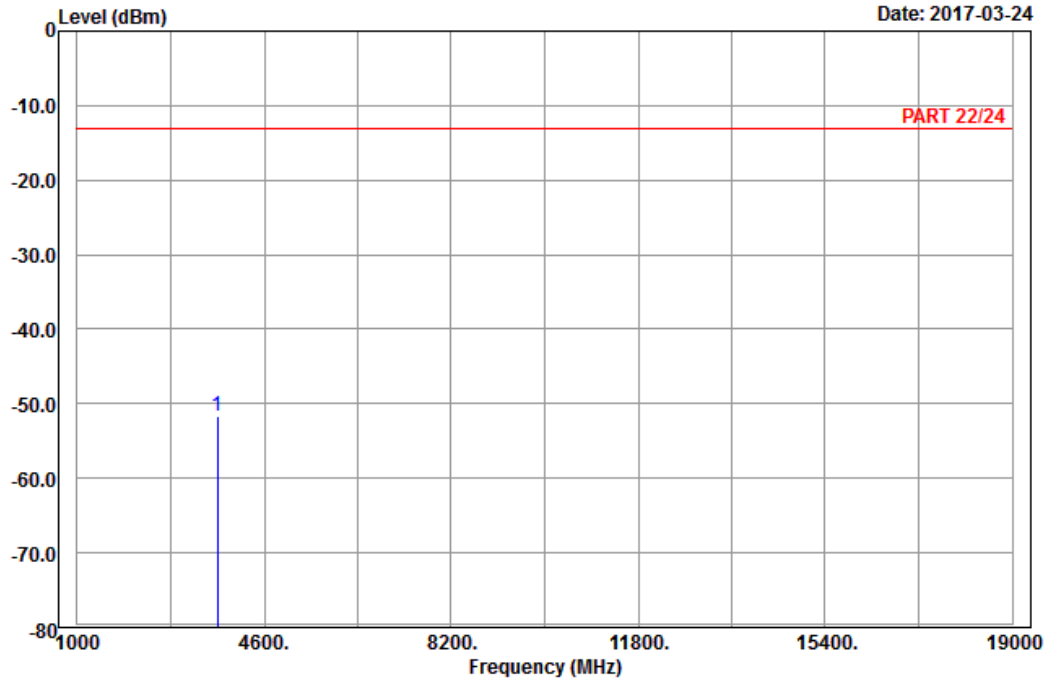


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : EDGE 1900_Link_CH512
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3700.40	-51.57	-67.45	-13.00	-38.57	15.88	Peak

Middle Channel

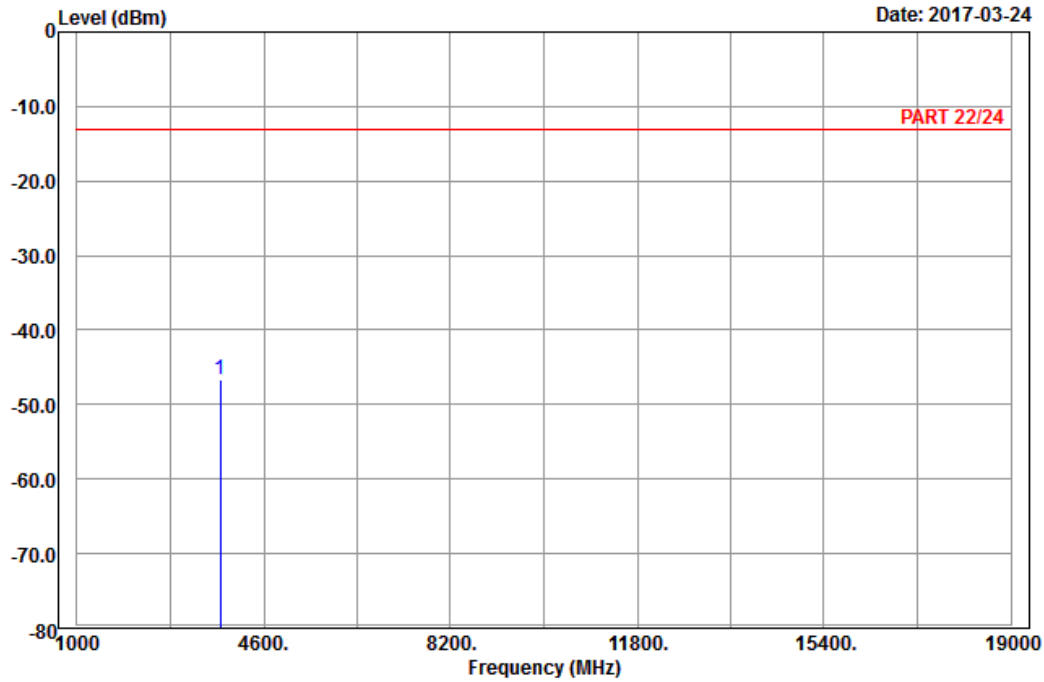


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : EDGE 1900_Link_CH661
 Tested by: Charles Hsiao

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-46.75	-62.89	-13.00	-33.75	16.14	Peak

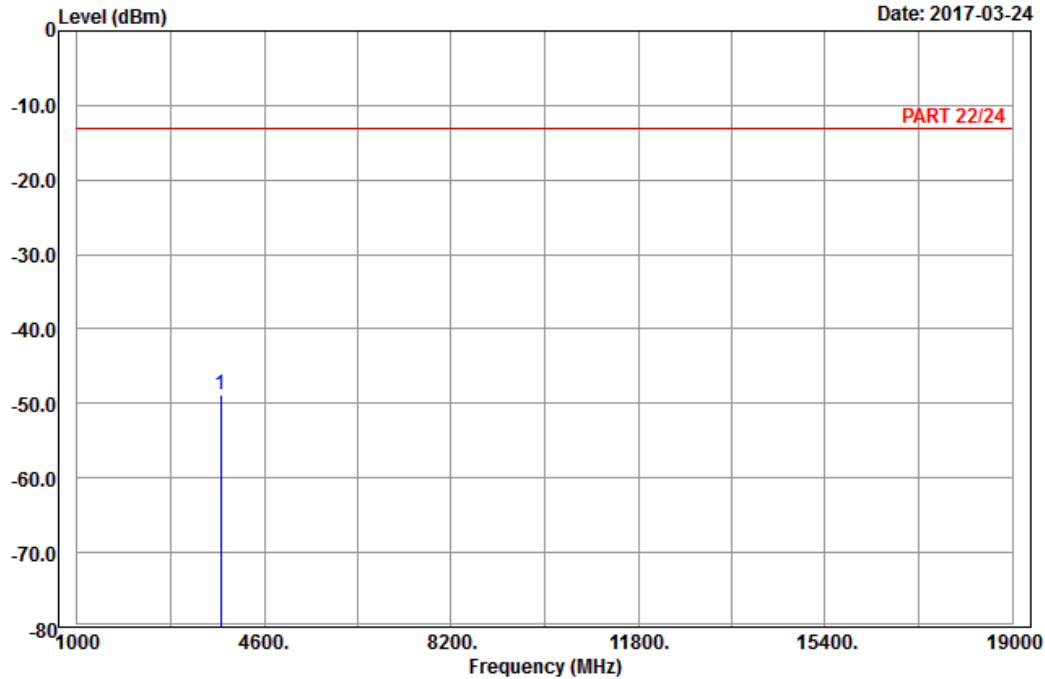


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : EDGE 1900_Link_CH661
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3760.00	-48.75	-64.89	-13.00	-35.75	16.14	Peak

High Channel

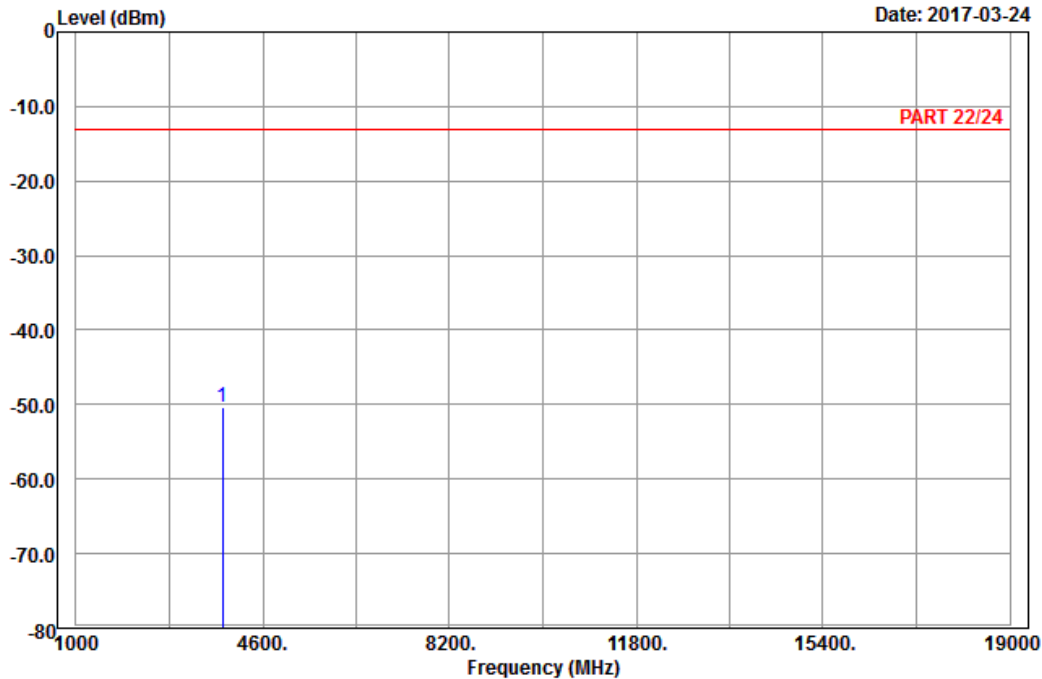


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : EDGE 1900_Link_CH810
 Tested by: Charles Hsiao

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3819.60	-50.36	-66.86	-13.00	-37.36	16.50	Peak

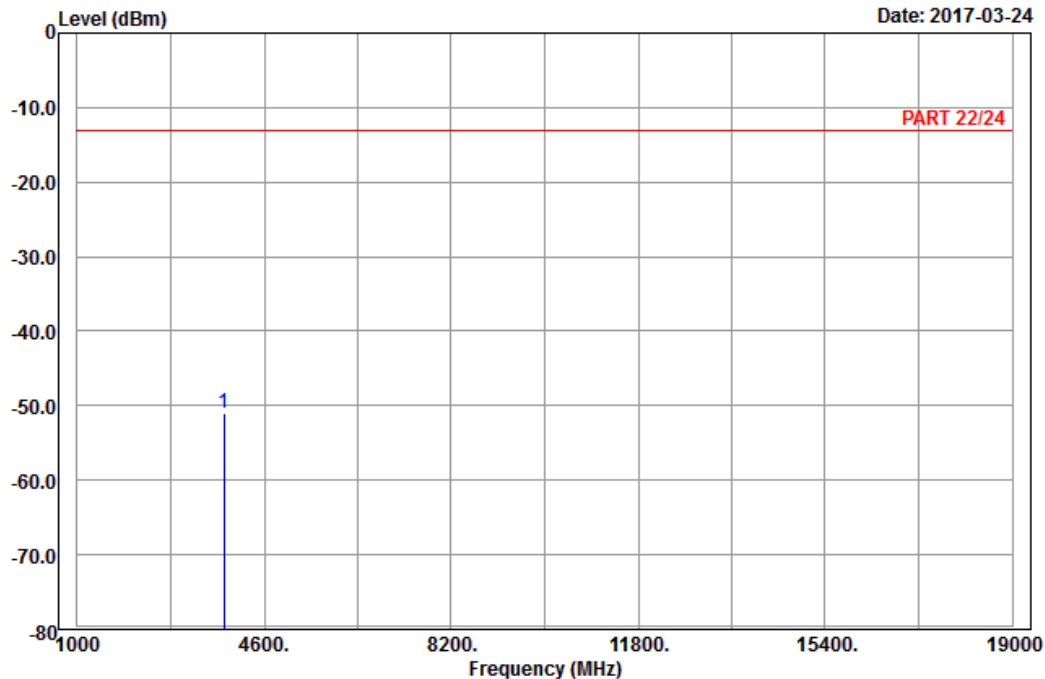


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : EDGE 1900_Link_CH810
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3819.60	-50.96	-67.46	-13.00	-37.96	16.50	Peak

WCDMA:
Low Channel

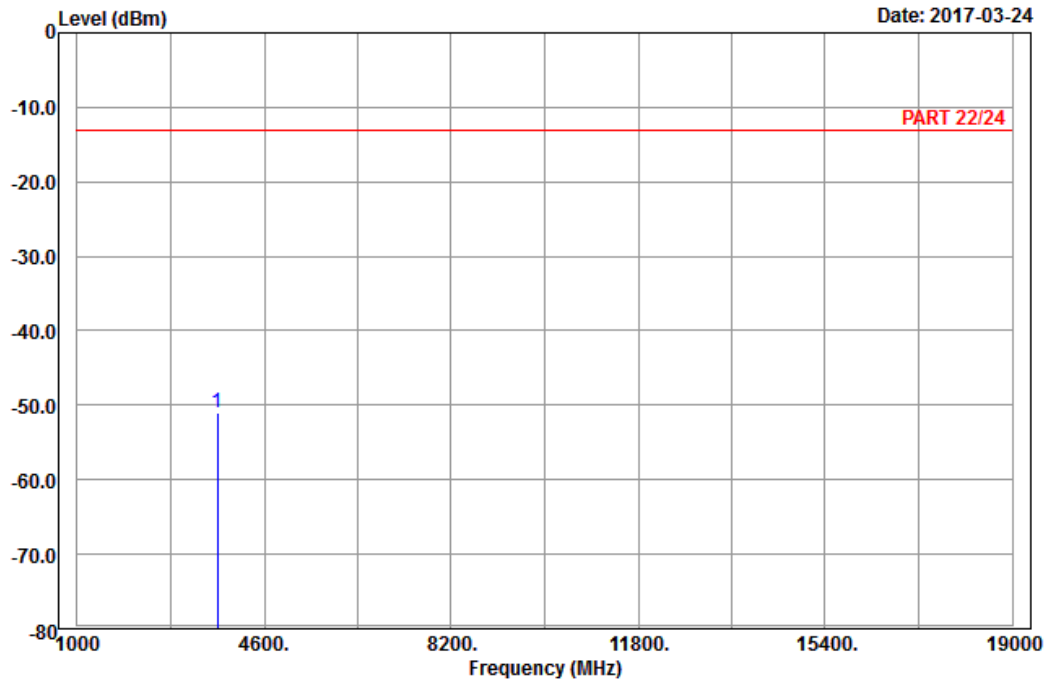


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Band II_Link_CH9262
Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-50.98	-66.86	-13.00	-37.98	15.88	Peak

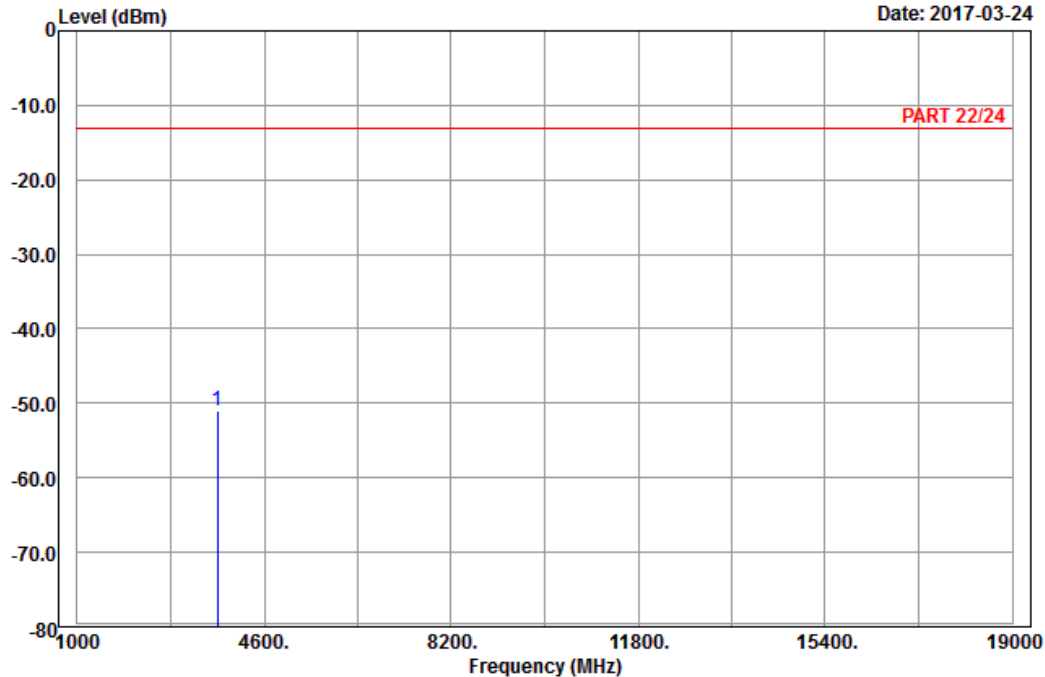


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band II_Link_CH9262
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3704.80	-51.03	-66.91	-13.00	-38.03	15.88	Peak

Middle Channel

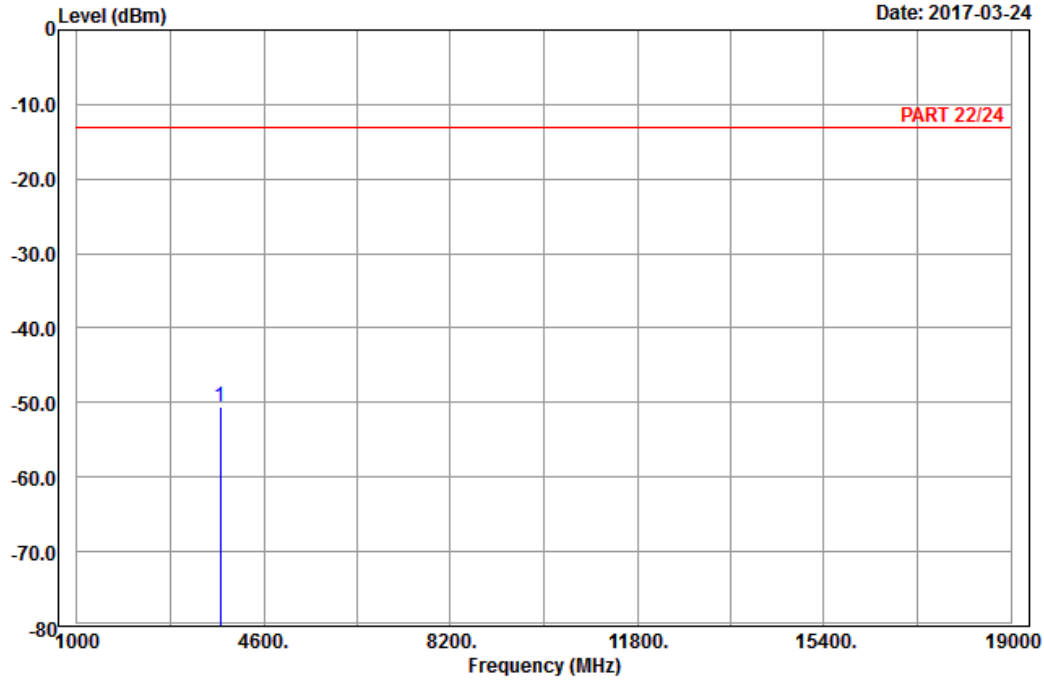


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band II_Link_CH9400
 Tested by: Charles Hsiao

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.53	-66.67	-13.00	-37.53	16.14	Peak

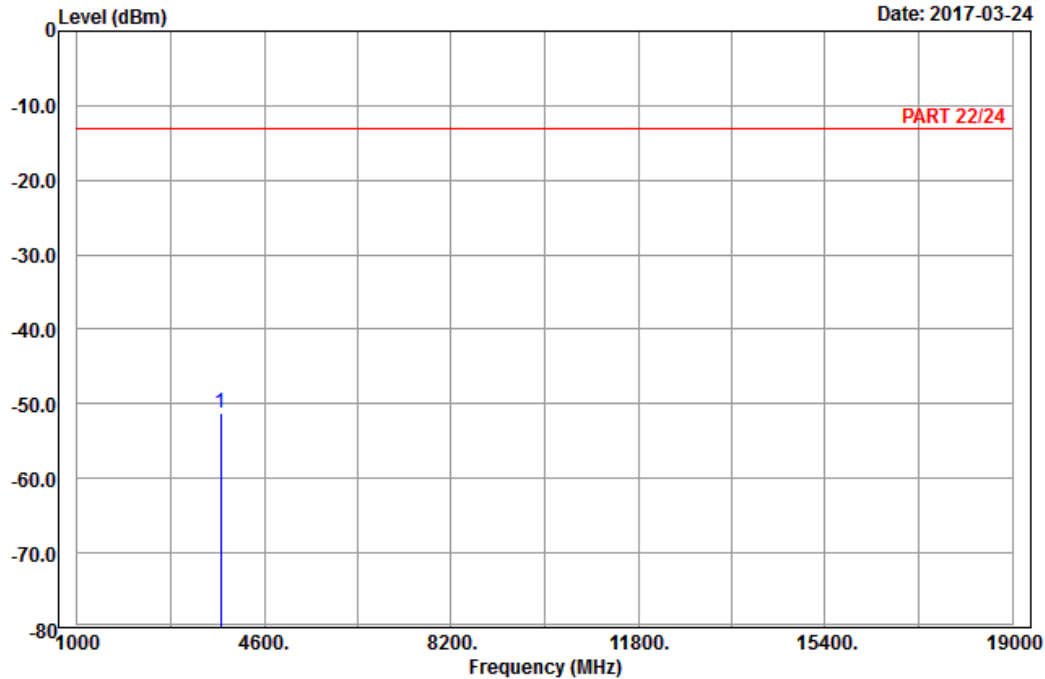


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band II_Link_CH9400
 Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-51.22	-67.36	-13.00	-38.22	16.14	Peak

High Channel

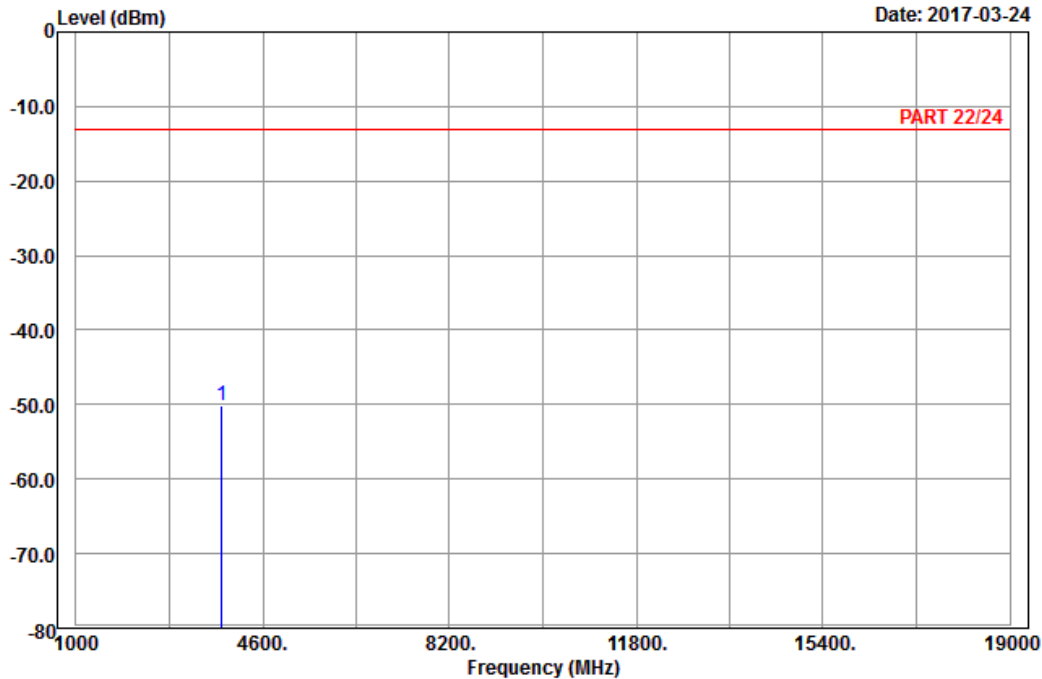


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : Band II_Link_CH9538
 Tested by: Charles Hsiao

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.20	-50.08	-66.49	-13.00	-37.08	16.41	Peak

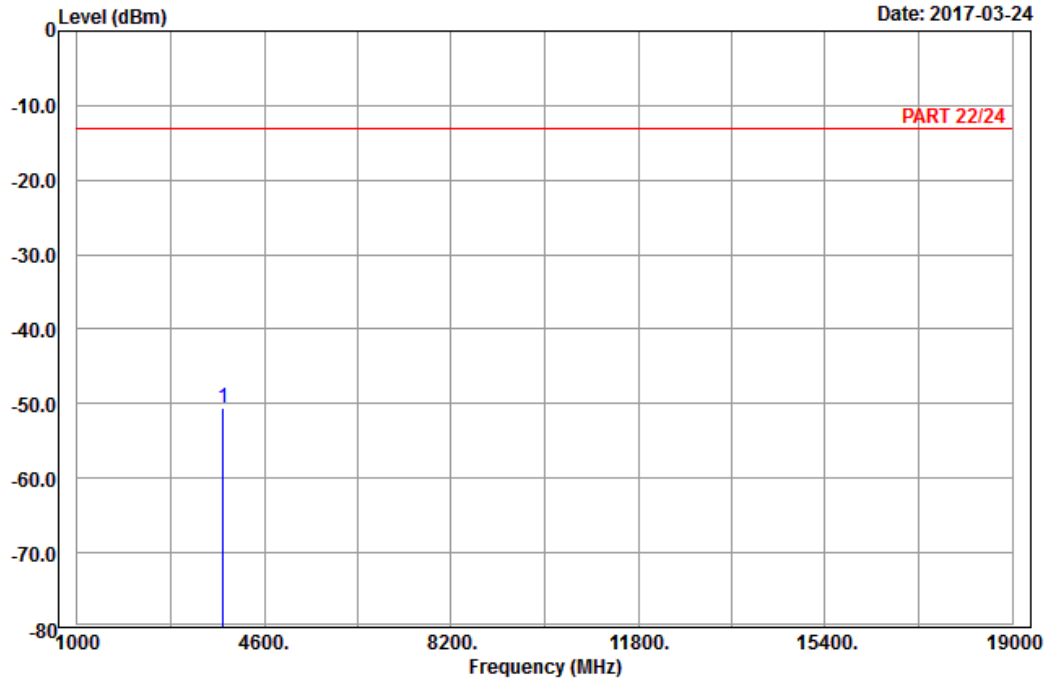


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-24



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : Band II_Link_CH9538
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3815.20	-50.61	-67.02	-13.00	-37.61	16.41	Peak

CDMA:
Low Channel

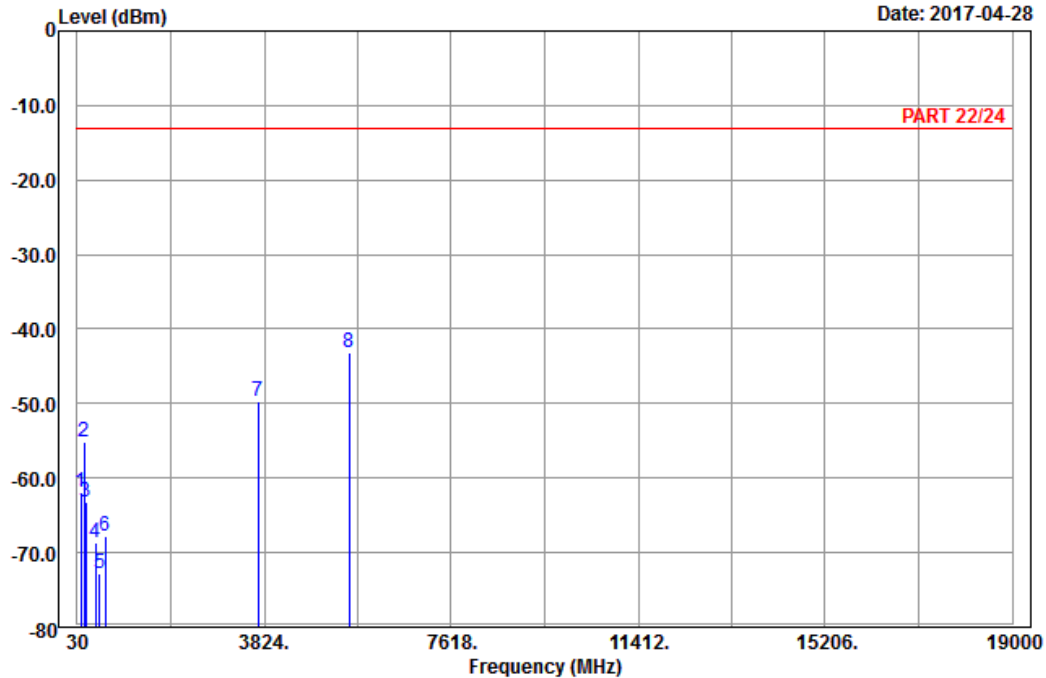


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2017-04-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : BC 1_Link_CH25
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	104.79	-62.01	-52.48	-13.00	-49.01	-9.53	Peak
2	166.89	-55.06	-48.07	-13.00	-42.06	-6.99	Peak
3	205.23	-63.11	-57.00	-13.00	-50.11	-6.11	Peak
4	400.80	-68.72	-65.96	-13.00	-55.72	-2.76	Peak
5	482.00	-72.78	-68.02	-13.00	-59.78	-4.76	Peak
6	605.90	-67.87	-68.23	-13.00	-54.87	0.36	Peak
7	3702.50	-49.61	-65.49	-13.00	-36.61	15.88	Peak
8 pp	5553.75	-43.19	-63.53	-13.00	-30.19	20.34	Peak

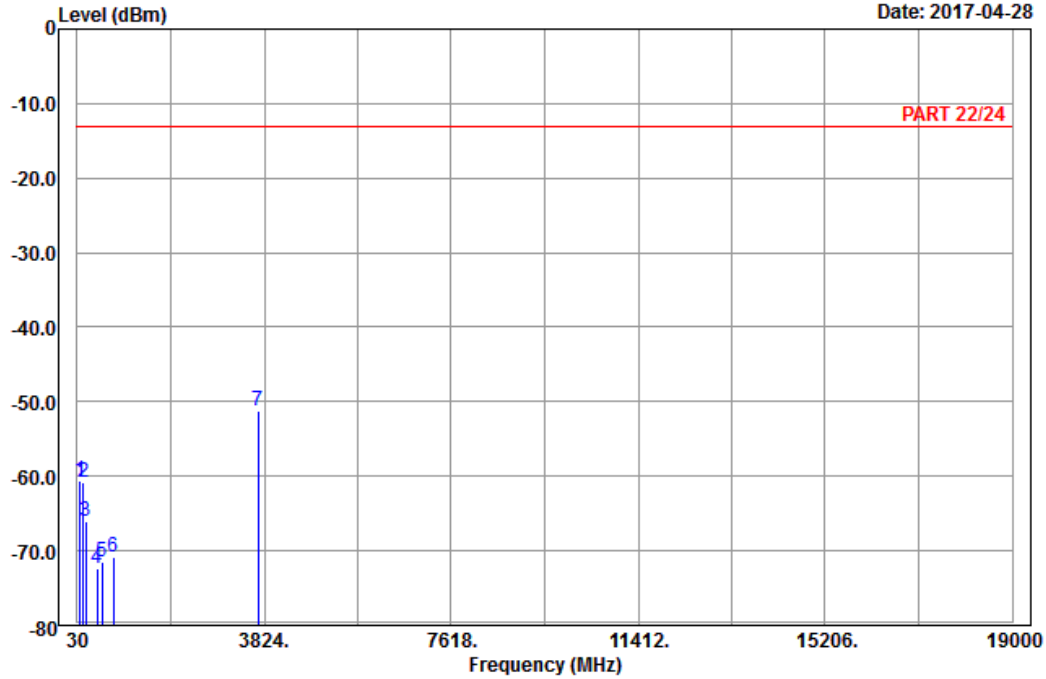


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2017-04-28



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : BC 1_Link_CH25
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	84.27	-60.50	-49.17	-13.00	-47.50	-11.33	Peak
2	150.15	-60.81	-52.86	-13.00	-47.81	-7.95	Peak
3	199.56	-66.07	-59.89	-13.00	-53.07	-6.18	Peak
4	440.70	-72.45	-68.82	-13.00	-59.45	-3.63	Peak
5	538.00	-71.42	-68.91	-13.00	-58.42	-2.51	Peak
6	756.40	-70.91	-70.05	-13.00	-57.91	-0.86	Peak
7 pp	3702.50	-51.19	-67.07	-13.00	-38.19	15.88	Peak

Middle Channel

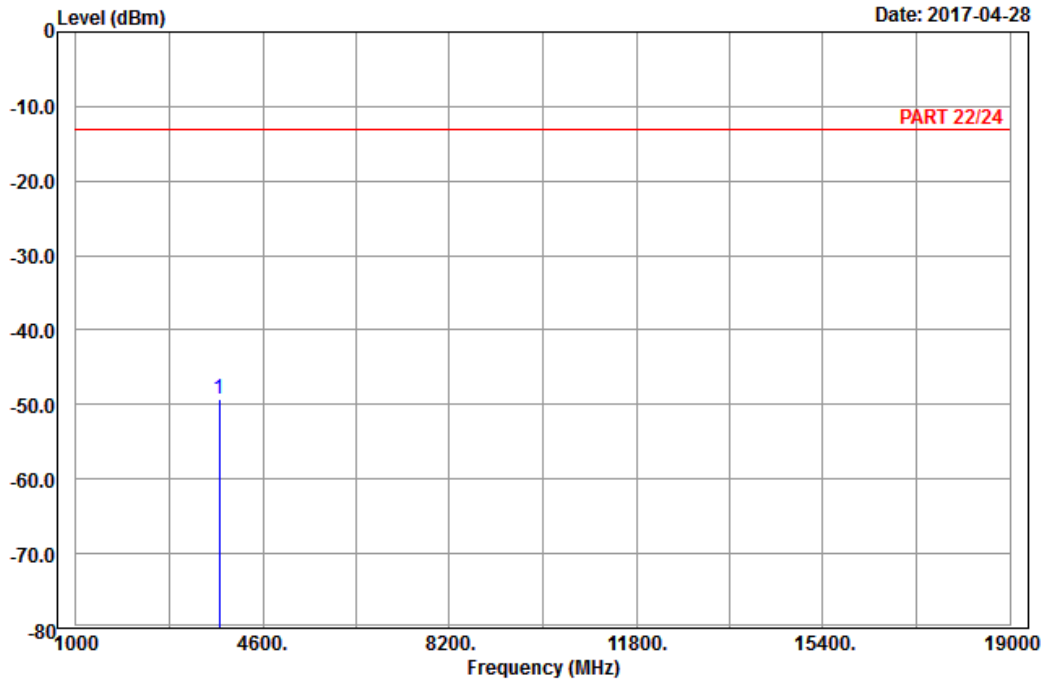


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-04-28



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : BC 1_Link_CH600
 Tested by: Karl Lee

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-49.25	-65.39	-13.00	-36.25	16.14	Peak

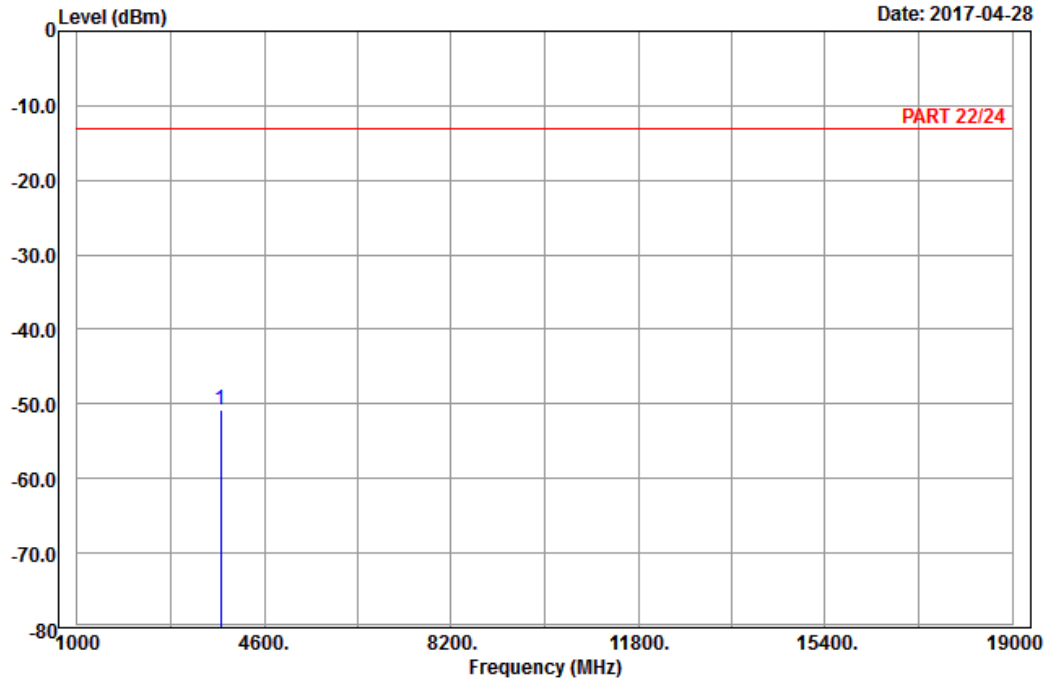


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-04-28



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : BC 1_Link_CH600
 Tested by: Karl Lee

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.82	-66.96	-13.00	-37.82	16.14	Peak

High Channel

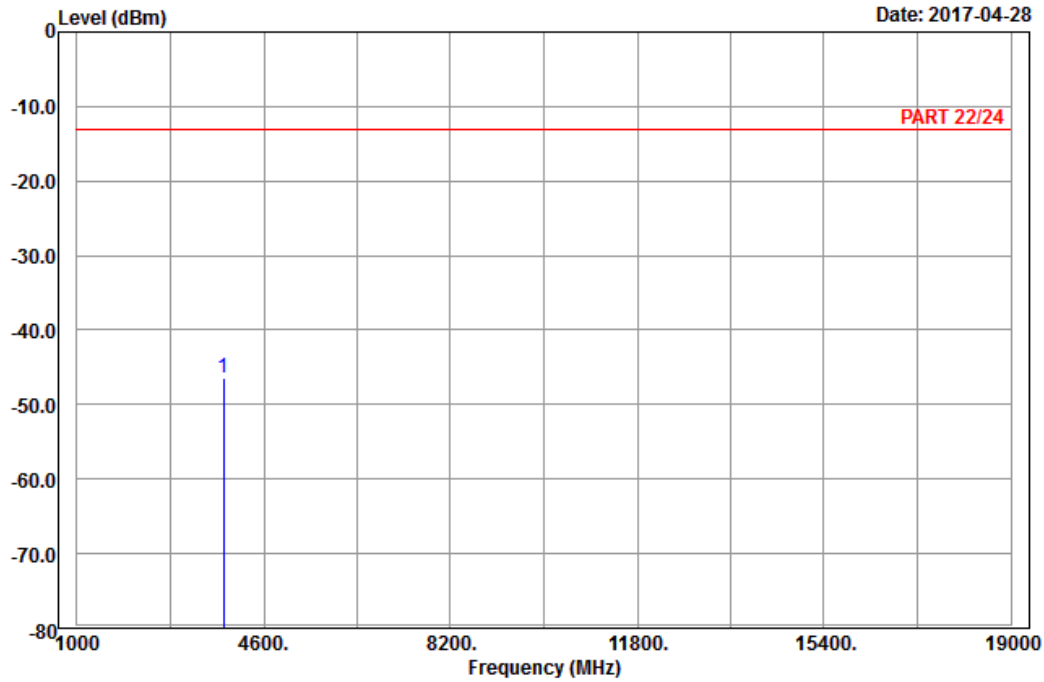


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-04-28



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : BC 1_Link_CH1175
 Tested by: Karl Lee

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3817.50	-46.45	-62.95	-13.00	-33.45	16.50	Peak

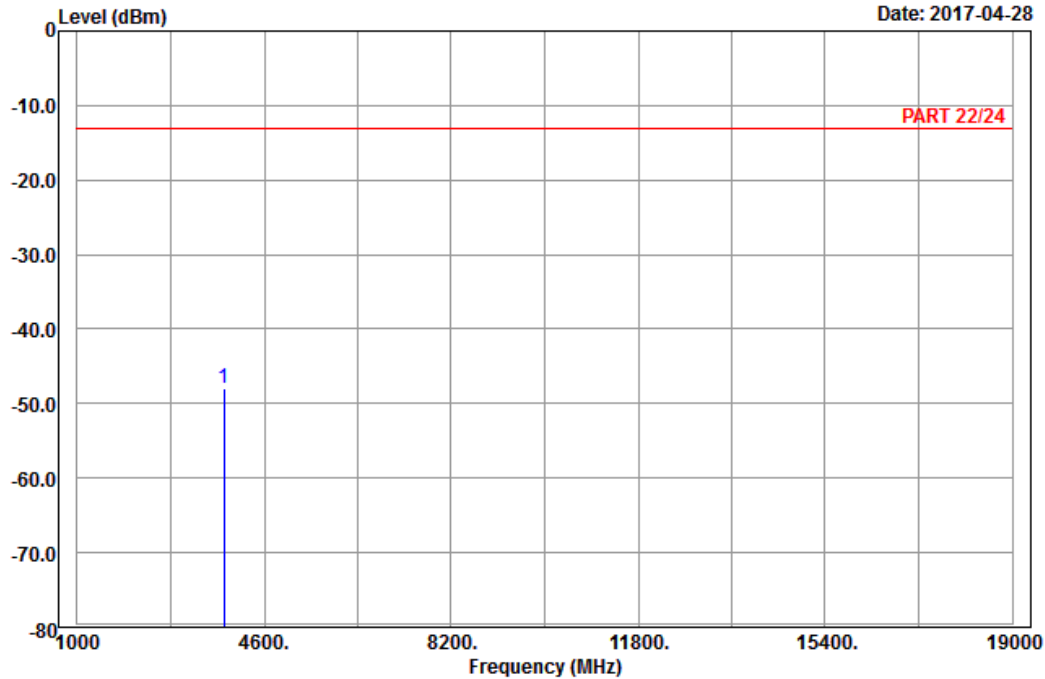


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-04-28



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : BC 1_Link_CH1175
 Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3817.50	-47.95	-64.45	-13.00	-34.95	16.50	Peak

LTE Band 2
 Channel Bandwidth: 20 MHz / QPSK
 Low Channel

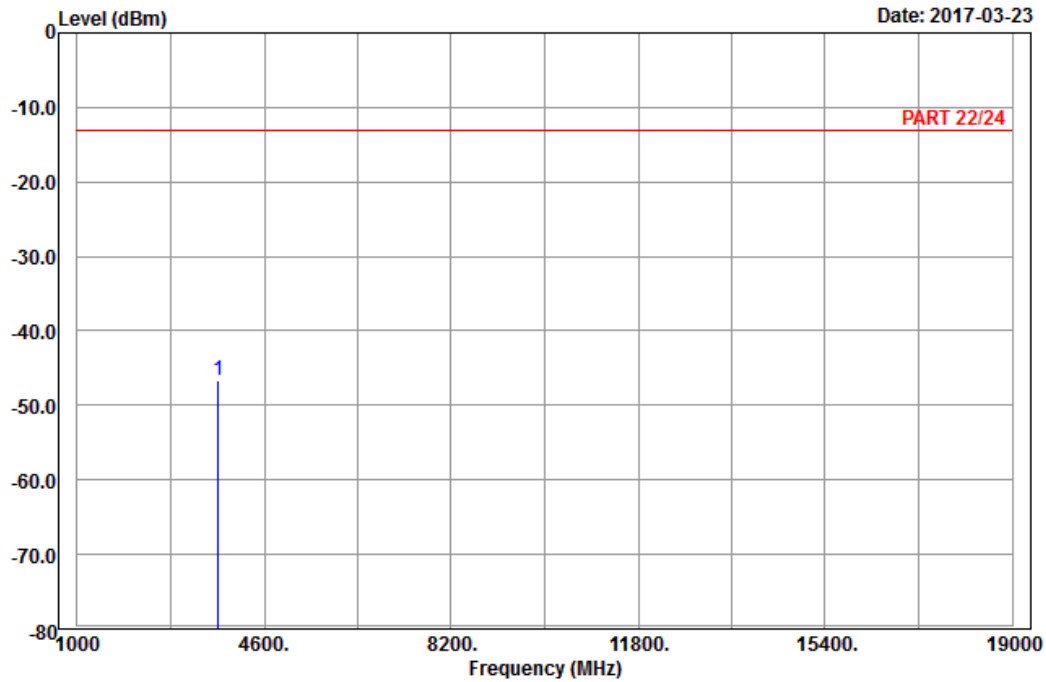


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-23



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 2_Link_CH18700
 Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-46.74	-62.71	-13.00	-33.74	15.97	Peak

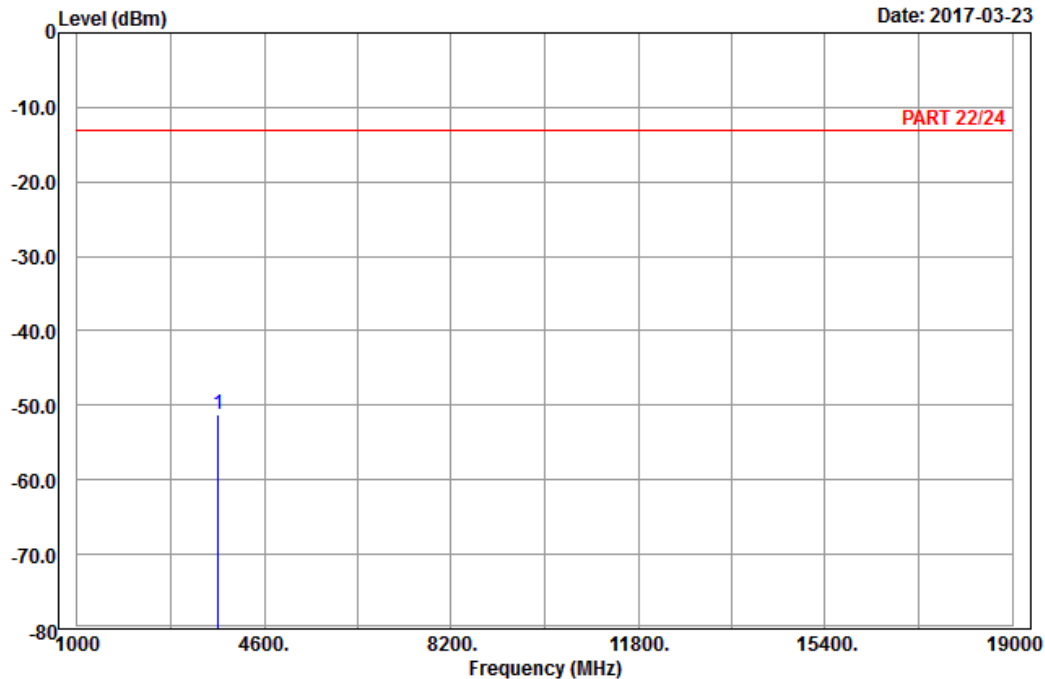


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-23



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 2_Link_CH18700
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3720.00	-51.28	-67.25	-13.00	-38.28	15.97	Peak

Middle Channel

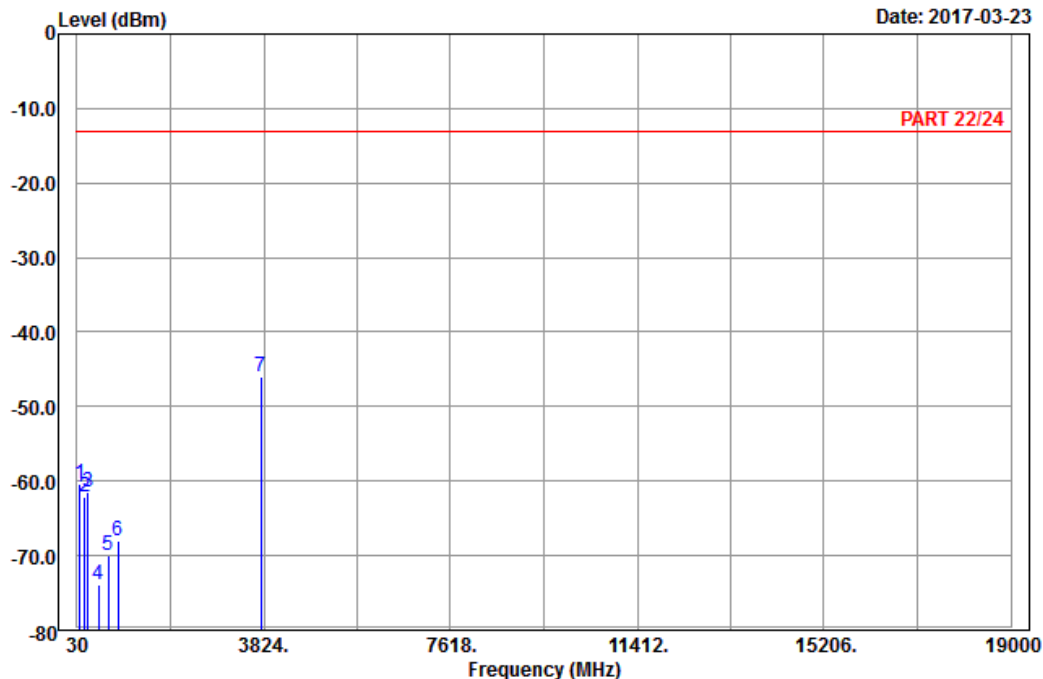


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2017-03-23



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 2_Link_CH18900
 Tested by: Charles Hsiao

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	94.53	-60.44	-50.04	-13.00	-47.44	-10.40	Peak
2	192.27	-62.20	-56.38	-13.00	-49.20	-5.82	Peak
3	245.73	-61.39	-55.82	-13.00	-48.39	-5.57	Peak
4	472.20	-73.93	-69.45	-13.00	-60.93	-4.48	Peak
5	673.10	-69.90	-69.65	-13.00	-56.90	-0.25	Peak
6	867.70	-67.95	-69.92	-13.00	-54.95	1.97	Peak
7 pp	3760.00	-45.96	-62.10	-13.00	-32.96	16.14	Peak

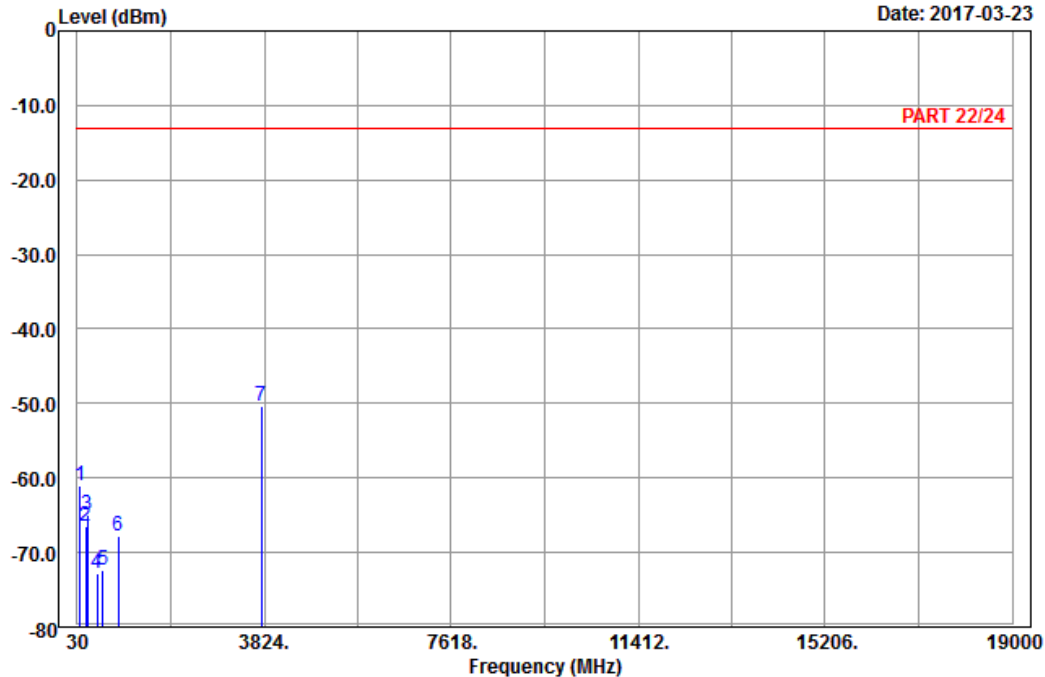


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2017-03-23



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 2_Link_CH18900
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	83.19	-60.97	-49.53	-13.00	-47.97	-11.44	Peak
2	195.51	-66.42	-60.42	-13.00	-53.42	-6.00	Peak
3	239.79	-64.89	-59.24	-13.00	-51.89	-5.65	Peak
4	436.50	-72.76	-69.21	-13.00	-59.76	-3.55	Peak
5	548.50	-72.28	-70.55	-13.00	-59.28	-1.73	Peak
6	871.20	-67.74	-69.80	-13.00	-54.74	2.06	Peak
7 pp	3760.00	-50.37	-66.51	-13.00	-37.37	16.14	Peak

High Channel

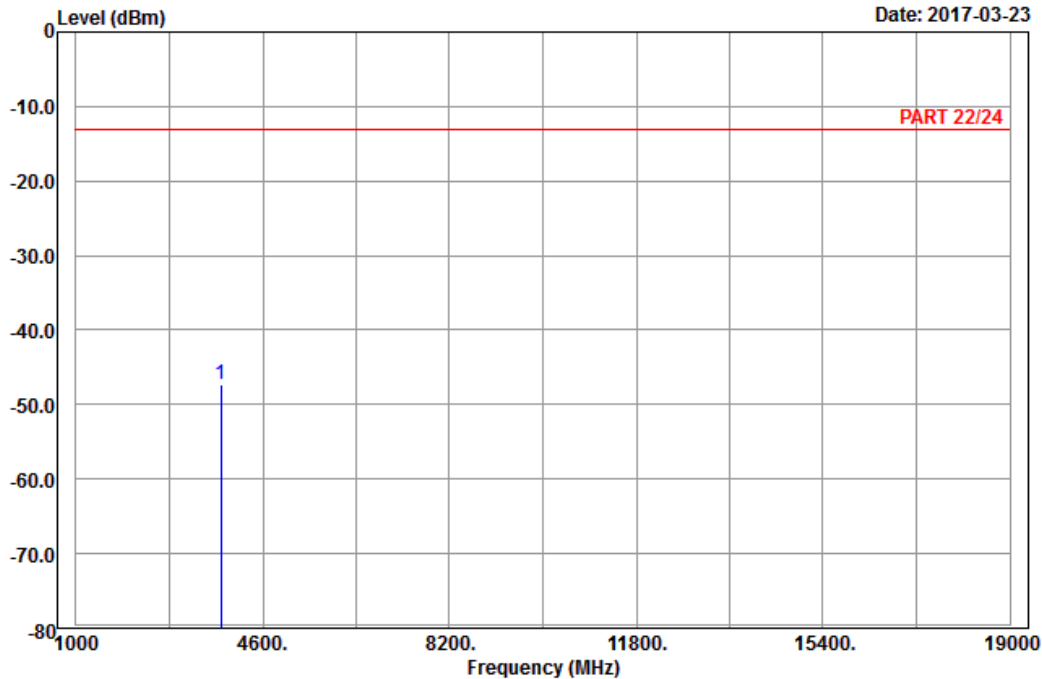


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-23



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 2_Link_CH19100
 Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3800.00	-47.22	-63.63	-13.00	-34.22	16.41	Peak

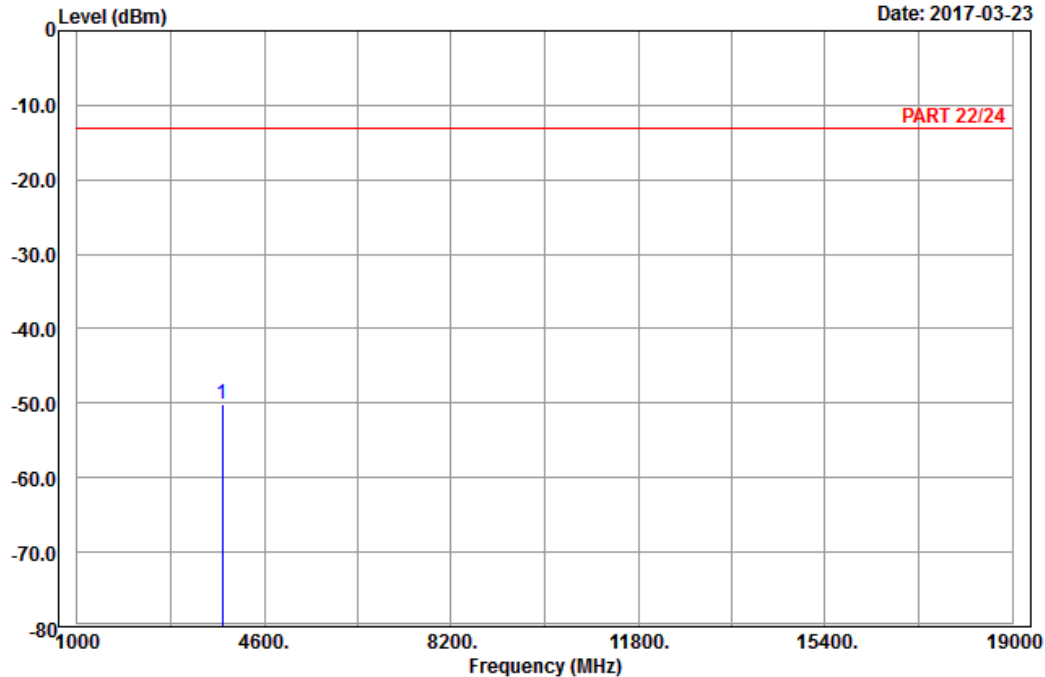


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-23



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 2_Link_CH19100
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3800.00	-50.21	-66.62	-13.00	-37.21	16.41	Peak

LTE Band 25
 Channel Bandwidth: 20 MHz / QPSK
 Low Channel

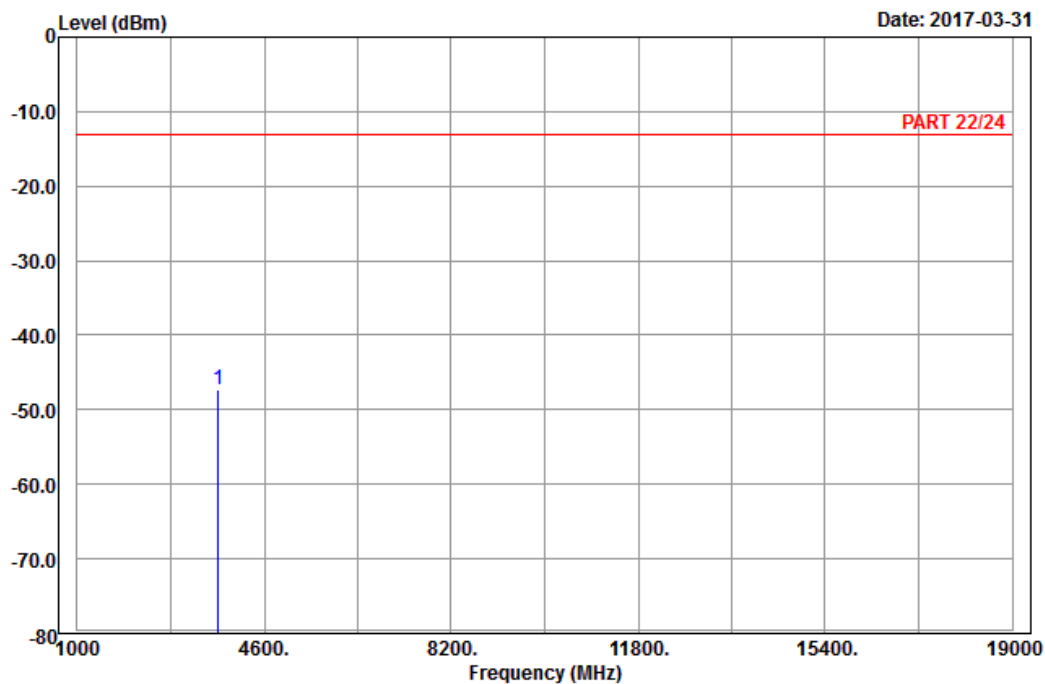


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-31



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 25_Link_CH26140
 Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-47.41	-63.38	-13.00	-34.41	15.97	Peak

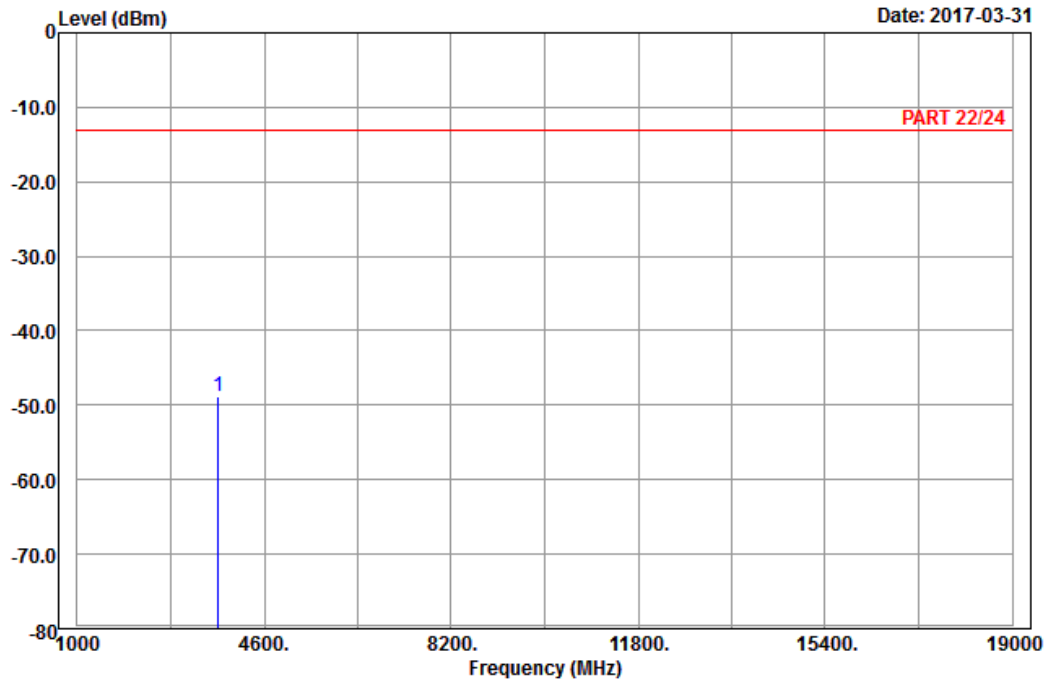


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2017-03-31



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26140
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3720.00	-48.93	-64.90	-13.00	-35.93	15.97	Peak

Middle Channel

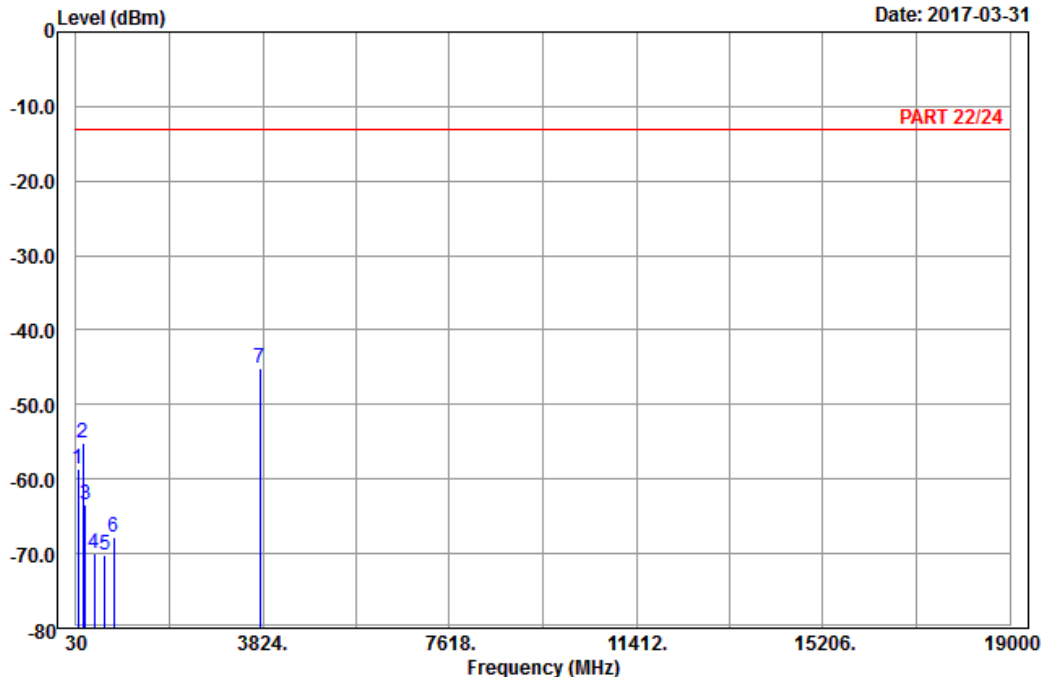


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2017-03-31



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 25_Link_CH26365
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	75.36	-58.58	-46.40	-13.00	-45.58	-12.18	Peak
2	168.51	-55.10	-48.30	-13.00	-42.10	-6.80	Peak
3	222.51	-63.48	-57.60	-13.00	-50.48	-5.88	Peak
4	393.80	-70.03	-66.98	-13.00	-57.03	-3.05	Peak
5	609.40	-70.24	-70.57	-13.00	-57.24	0.33	Peak
6	799.10	-67.77	-69.72	-13.00	-54.77	1.95	Peak
7 pp	3765.00	-45.04	-61.27	-13.00	-32.04	16.23	Peak

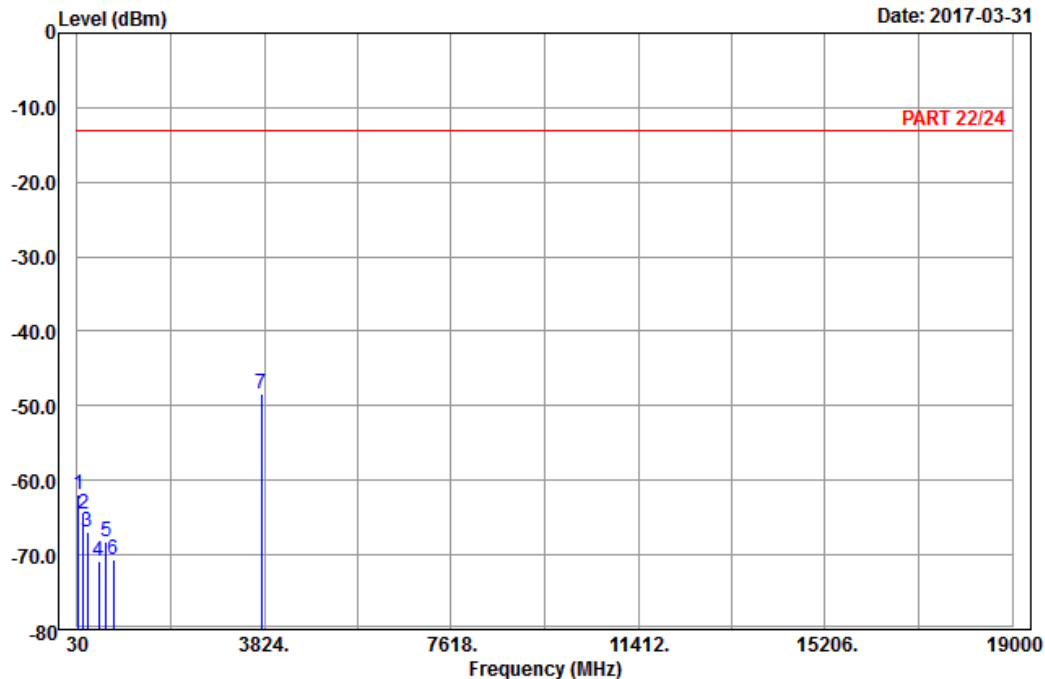


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2017-03-31



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26365
 Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	59.70	-61.81	-47.74	-13.00	-48.81	-14.07	Peak
2	158.79	-64.48	-56.78	-13.00	-51.48	-7.70	Peak
3	239.25	-66.94	-61.29	-13.00	-53.94	-5.65	Peak
4	465.90	-70.81	-66.52	-13.00	-57.81	-4.29	Peak
5	622.00	-68.21	-68.39	-13.00	-55.21	0.18	Peak
6	762.00	-70.55	-70.07	-13.00	-57.55	-0.48	Peak
7 pp	3765.00	-48.31	-64.54	-13.00	-35.31	16.23	Peak

High Channel

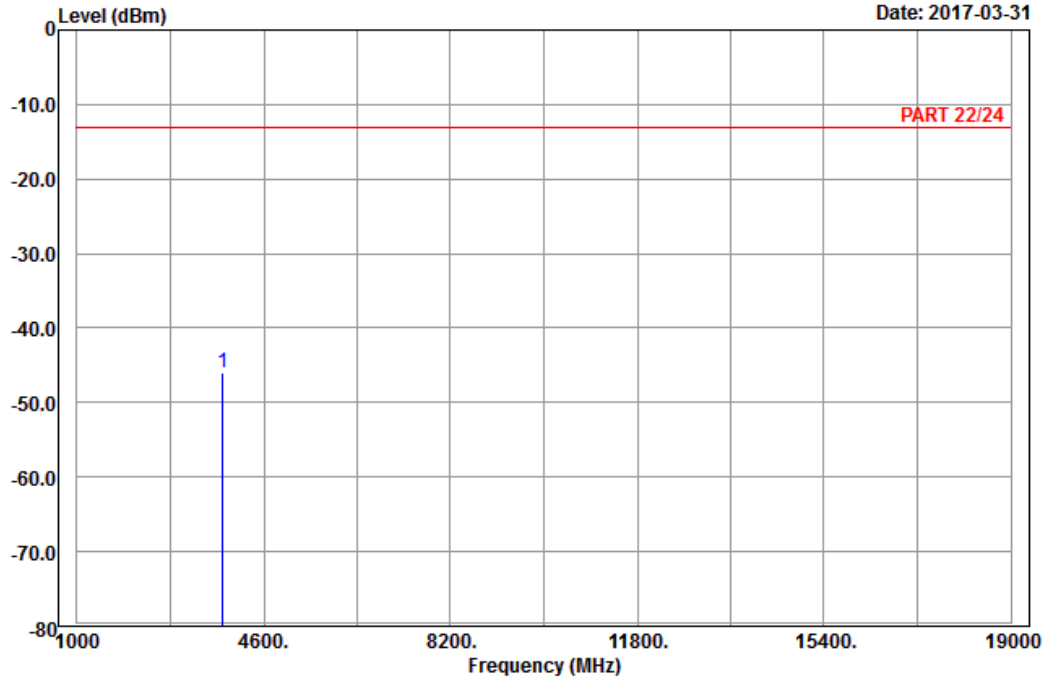


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2017-03-31



Site : 966 chamber 1
 Condition: PART 22/24 Horizontal
 Remark : LTE_Band 25_Link_CH26590
 Tested by: Charles Hsiao

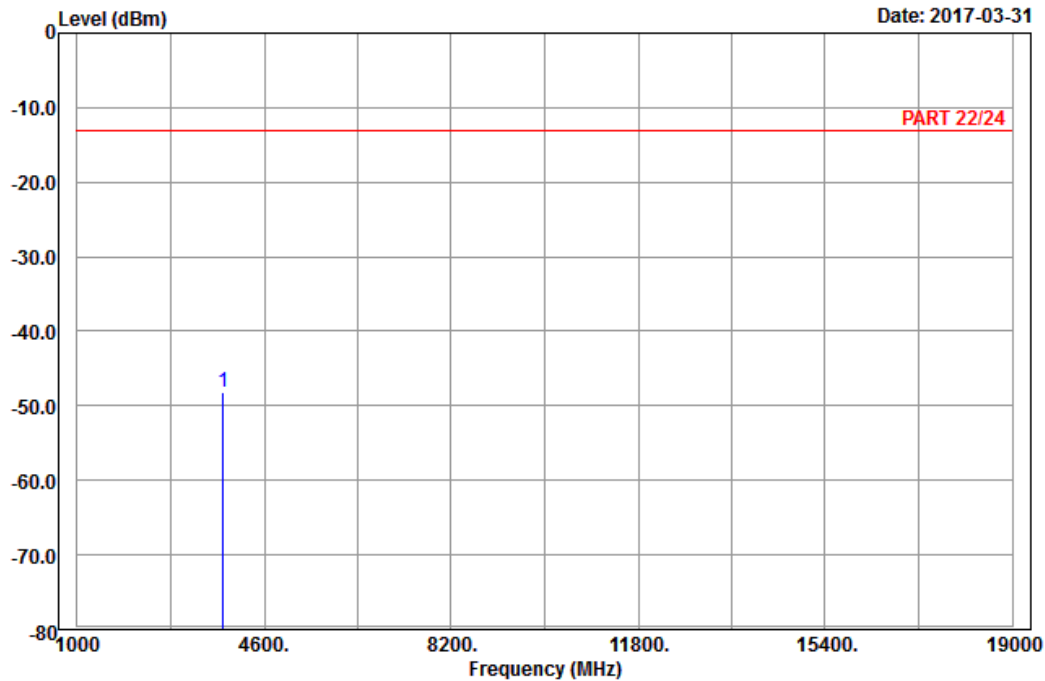
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3810.00	-45.99	-62.40	-13.00	-32.99	16.41	Peak



A D T

Data: 10

Date: 2017-03-31



Site : 966 chamber 1
 Condition: PART 22/24 Vertical
 Remark : LTE_Band 25_Link_CH26590
 Tested by: Charles Hsiao

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3810.00	-48.19	-64.60	-13.00	-35.19	16.41	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 accredited and approved according to ISO/IEC 17025.

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

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Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

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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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