

FCC TEST REPORT

(PART 27)

REPORT NO.: RF120309C35-2 R1

MODEL NO.: FZ-A1BDAAAAM

FCC ID: ACJ9TGFZ-A13

RECEIVED: Mar. 09, 2012

TESTED: Apr. 13 ~ Jun. 15, 2012

ISSUED: Jun. 15, 2012

APPLICANT: Panasonic Corporation of North America

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 CERTIFICATION	5
2 SUMMARY OF TEST RESULTS	6
2.1 MEASUREMENT UNCERTAINTY	7
2.2 TEST SITE AND INSTRUMENTS	8
3 GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 CONFIGURATION OF SYSTEM UNDER TEST	11
3.3 DESCRIPTION OF TEST MODES	12
3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS	14
4 TEST TYPES AND RESULTS	15
4.1 OUTPUT POWER MEASUREMENT	15
4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	15
4.1.2 TEST PROCEDURES	15
4.1.3 TEST SETUP	16
4.1.4 TEST RESULTS	17
4.2 FREQUENCY STABILITY MEASUREMENT	25
4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	25
4.2.2 TEST PROCEDURE	25
4.2.3 TEST SETUP	25
4.2.4 TEST RESULTS	26
4.3 OCCUPIED BANDWIDTH MEASUREMENT	27
4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	27
4.3.2 TEST SETUP	27
4.3.3 TEST PROCEDURES	27
4.3.4 TEST RESULTS	28
4.4 PEAK TO AVERAGE RATIO	30
4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	30
4.4.2 TEST SETUP	30
4.4.3 TEST PROCEDURES	30
4.4.4 TEST RESULTS	31
4.5 BAND EDGE MEASUREMENT	33
4.5.1 LIMITS OF BAND EDGE MEASUREMENT	33
4.5.2 TEST SETUP	33
4.5.3 TEST PROCEDURES	34
4.5.4 TEST RESULTS	35
4.6 CONDUCTED SPURIOUS EMISSIONS	39
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	39
4.6.2 TEST PROCEDURE	39
4.6.3 TEST SETUP	39



A D T

4.6.4	TEST RESULTS.....	40
4.7	RADIATED EMISSION MEASUREMENT	49
4.7.1	LIMITS OF RADIATED EMISSION MEASUREMENT	49
4.7.2	TEST PROCEDURES.....	49
4.7.3	DEVIATION FROM TEST STANDARD	49
4.7.4	TEST SETUP	50
4.7.5	TEST RESULTS.....	51
5	INFORMATION ON THE TESTING LABORATORIES	83
6	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	84

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120309C35-2	Original release	May 31, 2012
RF120309C35-2 R1	Revised the output power table, emission designator, limits of band edge, 26dB bandwidth and typing error.	Jun. 15, 2012



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1 CERTIFICATION

PRODUCT: Tablet PC

MODEL NO.: FZ-A1BDAAAAM

BRAND: Panasonic

APPLICANT: Panasonic Corporation of North America

TESTED: Apr. 13 ~ Jun. 15, 2012

TEST SAMPLE: Production Unit

TEST STANDARDS: FCC Part 27, Subpart C, L

FCC Part 2

ANSI C63.4-2003

The above equipment (model: FZ-A1BDAAAAM) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Ivonne Wu , **DATE:** Jun. 15, 2012
Ivonne Wu / Senior Specialist

APPROVED BY : Gary Chang , **DATE:** Jun. 15, 2012
Gary Chang / Technical Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

OPERATING BAND: 704–716 MHz			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(C)(10)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(g)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(g)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(g)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(g)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -26.06dB at 30.00MHz.

OPERATING BAND: 1710~1755 MHz			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -15.30dB at 30.00MHz.

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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver Agilent	N9038A	MY51210203	Dec. 22, 2011	Dec. 21, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2011	Dec. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 20, 2011	Dec. 19, 2012
Preamplifier EMCI	EMC 012645	980115	Dec. 30, 2011	Dec. 29, 2012
Preamplifier EMCI	EMC 330H	980112	Dec. 30, 2011	Dec. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 21, 2011	Oct. 20, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Jan. 02, 2012	Jan. 01, 2013
RF signal cable Worken	RG-213	NA	Jan. 02, 2012	Jan. 01, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Mar. 23, 2012	Mar. 22, 2013
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY50266653	Sep. 28, 2011	Sep. 27, 2012
Radio Communication Analyzer	MT8820C	6201010284	Aug. 01, 2011	Jul. 31, 2012

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 9.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 460141.

5. The IC Site Registration No. is IC 7450F-4.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tablet PC	
MODEL NO.	FZ-A1BDAAAAM	
POWER SUPPLY	12Vdc (adapter) 7.4Vdc (battery)	
MODULATION TECHNOLOGY	LTE Band 17	QPSK, 16QAM
	LTE Band 4	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 17 Channel Bandwidth: 5MHz	706.5MHz ~ 713.5MHz
	LTE Band 17 Channel Bandwidth: 10MHz	709MHz ~ 711MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~1750.0MHz
EMISSION DESIGNATOR	LTE Band 17 Channel Bandwidth: 5MHz	QPSK: 4M51G7D
		16QAM: 4M51W7D
	LTE Band 17 Channel Bandwidth: 10MHz	QPSK: 9M12G7D
		16QAM: 9M06W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M51G7D
		16QAM: 4M50W7D
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 9M12G7D
		16QAM: 9M06W7D
MAX. ERP POWER (W)	LTE Band 17 Channel Bandwidth: 5MHz	QPSK: 0.13W
		16QAM: 0.13W
	LTE Band 17 Channel Bandwidth: 10MHz	QPSK: 0.12W
		16QAM: 0.12W
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 0.40W
		16QAM: 0.38W
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 0.37W
		16QAM: 0.37W
CATEGORY	LTE: 3	



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ANTENNA TYPE	LTE Band 17: Internal monopole antenna with 0.47dBi gain LTE Band 4: Internal monopole antenna with 3.28dBi gain
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to users' manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

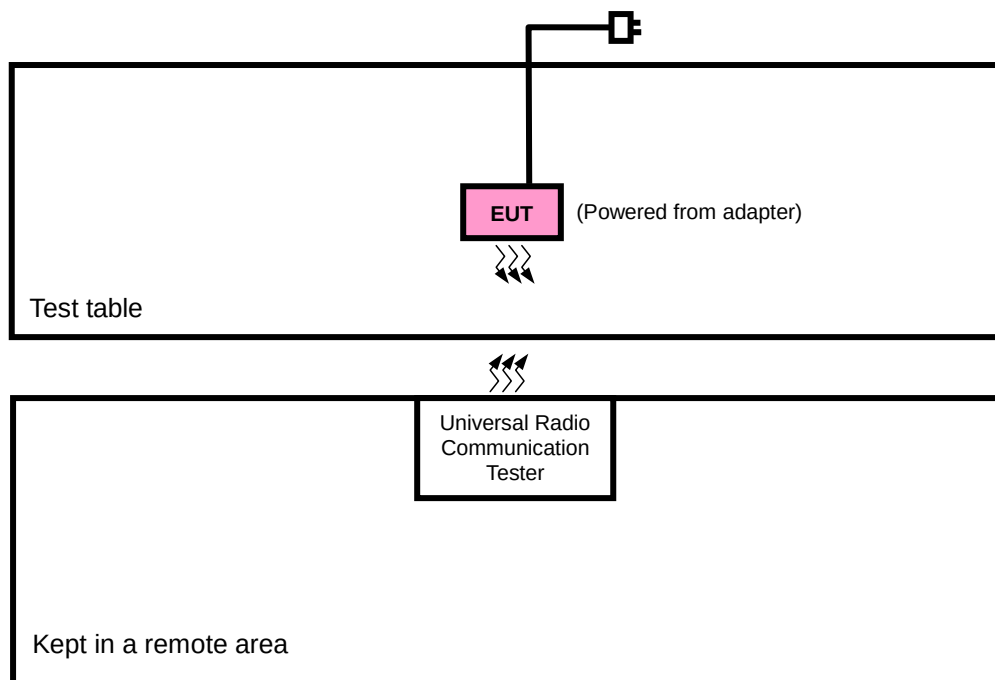
1. The EUT contains the following accessories.

AC Adapter	Brand Name	JRC
	Model Name	NJD-9370
	Power Rating	I/P:100-240Vac, 0.5A ~ 0.3A, 50/60Hz; O/P: 12Vdc, 2.0A
	DC Power Cord Type	0.7 meter non-shielded cable without ferrite core
Battery	Brand Name	SANYO
	Model Name	2UF484462-3-T0775
	Power Rating	7.4Vdc
	Type	Li-ion
LCD Panel	Brand Name	Hannstar
	Model Name	HSD100PXN1
Main Camera	Brand Name	D-Max Technology
	Model Name	HAC-001502-W1A
2nd Camera	Brand Name	D-Max Technology
	Model Name	HAC-002103-W1A

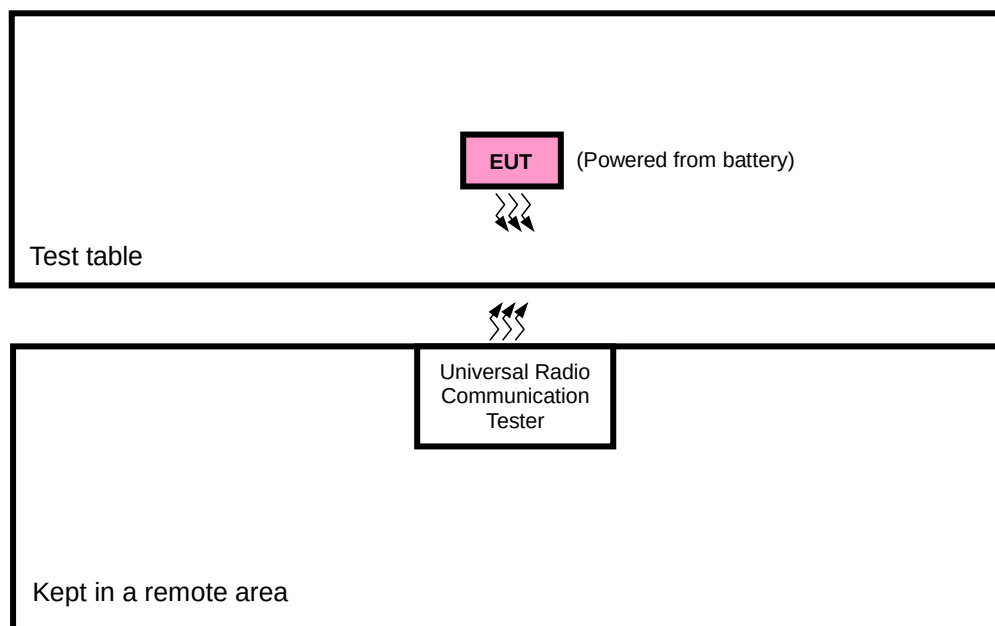
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

<For Radiated Emission Test>



<For Output Power Test>



3.3 DESCRIPTION OF TEST MODES

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 on X-plane for ERP (LTE Band 17), Z-plane for ERP (LTE Band 4) and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

LTE Band 17

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset
FREQUENCY STABILITY	23755 to 23825	23790	5MHz	QPSK	1 RB / 0 RB Offset
	23780 to 23800	23790	10MHz	QPSK	1 RB / 49 RB Offset
OCCUPIED BANDWIDTH	23755 to 23825	23790	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23790	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK	1 RB / 0 RB Offset
					Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB / 0 RB Offset
					Full RB
CONDUCTED EMISSION	23755 to 23825	23790	5MHz	QPSK	1 RB / 0 RB Offset
					1 RB / 24 RB Offset
	23780 to 23800	23790	10MHz	QPSK	1 RB / 0 RB Offset
					1 RB / 49 RB Offset
RADIATED EMISSION	23755 to 23825	23790	5MHz	QPSK	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
				16QAM	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
	23780 to 23800	23790	10MHz	QPSK	1 RB / 49 RB Offset
					50 RB / 0 RB Offset
				16QAM	1 RB / 49 RB Offset
					50 RB / 0 RB Offset



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LTE Band 4

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
FREQUENCY STABILITY	19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
	20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
OCCUPIED BANDWIDTH	19975 to 20375	20175	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20175	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
BAND EDGE	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB, / 0 RB Offset
					Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB / 0 RB Offset
					Full RB
CONDCUDED EMISSION	19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
					1 RB / 24 RB Offset
	20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
					1 RB / 49 RB Offset
RADIATED EMISSION	19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
				16QAM	1 RB / 0 RB Offset
					25 RB / 0 RB Offset
	20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
					50 RB / 0 RB Offset
				16QAM	1 RB / 0 RB Offset
					50 RB / 0 RB Offset

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	25deg. C, 65%RH	7.4Vdc	Phoenix Chen
FREQUENCY STABILITY	25deg. C, 65%RH	7.4Vdc	Phoenix Chen
OCCUPIED BANDWIDTH	25deg. C, 65%RH	7.4Vdc	Phoenix Chen
BAND EDGE	25deg. C, 65%RH	7.4Vdc	Phoenix Chen
CONDCUDED EMISSION	25deg. C, 65%RH	7.4Vdc	Phoenix Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu

3.4 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 27

ANSI C63.4-2003

ANSI/TIA/EIA-603-C 2004

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

4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 704-716 MHz band are limited to 3 watts ERP

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

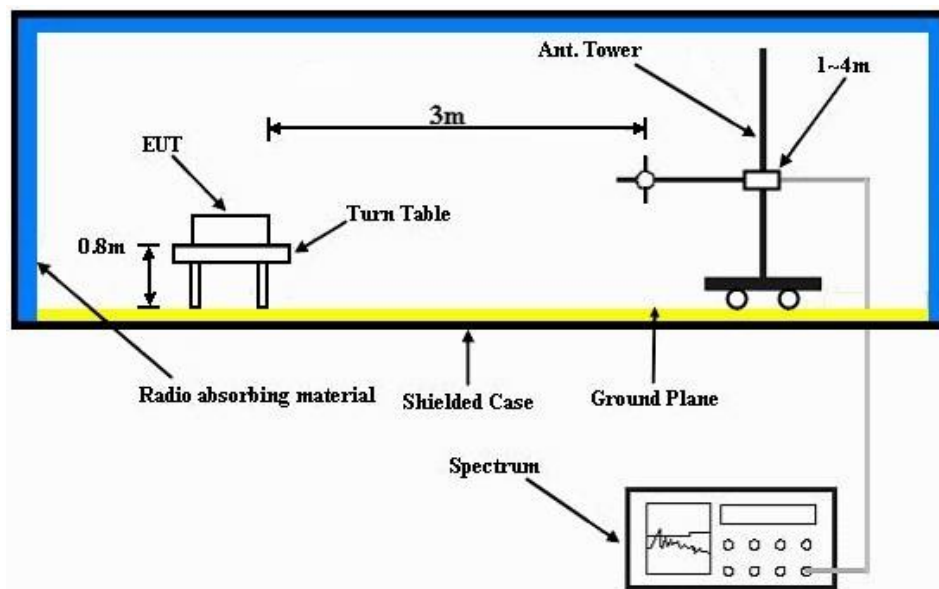
- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE.
- b. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. 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. $E.R.P = E.I.R.P - 2.15 \text{ dB}$

CONDUCTED POWER MEASUREMENT:

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

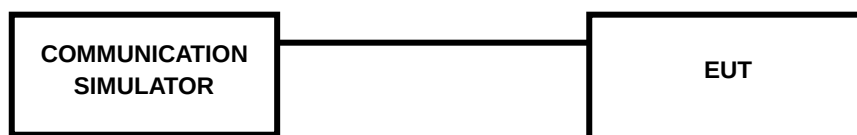
4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



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

CONDUCTED POWER MEASUREMENT:



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

4.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 17								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
5 MHz	QPSK	23755	706.5	1	0	0	23	22.86
		23790	710	1	0	0	23	22.71
		23825	713.5	1	0	0	23	22.72
		23755	706.5	1	24	0	23	22.8
		23790	710	1	24	0	23	22.72
		23825	713.5	1	24	0	23	22.74
		23755	706.5	12	6	1	23	21.55
		23790	710	12	6	1	23	21.43
		23825	713.5	12	6	1	23	21.53
		23755	706.5	25	0	1	23	21.57
		23790	710	25	0	1	23	21.56
		23825	713.5	25	0	1	23	21.54
	16QAM	23755	706.5	1	0	1	23	22.04
		23790	710	1	0	1	23	22.01
		23825	713.5	1	0	1	23	21.93
		23755	706.5	1	24	1	23	22.02
		23790	710	1	24	1	23	21.99
		23825	713.5	1	24	1	23	21.97
		23755	706.5	12	6	2	23	20.56
		23790	710	12	6	2	23	20.41
		23825	713.5	12	6	2	23	20.55
		23755	706.5	25	0	2	23	20.99
		23790	710	25	0	2	23	20.87
		23825	713.5	25	0	2	23	20.97

LTE Band 17								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
10MHz	QPSK	23780	709	1	0	0	23	22.75
		23790	710	1	0	0	23	22.69
		23800	711	1	0	0	23	22.74
		23780	709	1	49	0	23	22.81
		23790	710	1	49	0	23	22.76
		23800	711	1	49	0	23	22.64
		23780	709	25	12	1	23	21.63
		23790	710	25	12	1	23	21.57
		23800	711	25	12	1	23	21.54
		23780	709	50	0	1	23	21.63
		23790	710	50	0	1	23	21.56
		23800	711	50	0	1	23	21.54
	16QAM	23780	709	1	0	1	23	22.1
		23790	710	1	0	1	23	21.99
		23800	711	1	0	1	23	22
		23780	709	1	49	1	23	22.13
		23790	710	1	49	1	23	22.09
		23800	711	1	49	1	23	22.02
		23780	709	25	12	2	23	20.79
		23790	710	25	12	2	23	20.71
		23800	711	25	12	2	23	20.78
		23780	709	50	0	2	23	20.6
		23790	710	50	0	2	23	20.57
		23800	711	50	0	2	23	20.58

LTE Band 4								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
5 MHz	QPSK	19975	1712.5	1	0	0	23	23.03
		20175	1732.5	1	0	0	23	23.19
		20375	1752.5	1	0	0	23	23.11
		19975	1712.5	1	24	0	23	23.1
		20175	1732.5	1	24	0	23	23.06
		20375	1752.5	1	24	0	23	22.89
		19975	1712.5	12	6	1	23	21.9
		20175	1732.5	12	6	1	23	21.92
		20375	1752.5	12	6	1	23	21.75
		19975	1712.5	25	0	1	23	21.86
		20175	1732.5	25	0	1	23	21.99
		20375	1752.5	25	0	1	23	21.84
	16QAM	19975	1712.5	1	0	1	23	22.55
		20175	1732.5	1	0	1	23	22.5
		20375	1752.5	1	0	1	23	22.29
		19975	1712.5	1	24	1	23	22.46
		20175	1732.5	1	24	1	23	22.35
		20375	1752.5	1	24	1	23	22.25
		19975	1712.5	12	6	2	23	20.88
		20175	1732.5	12	6	2	23	20.95
		20375	1752.5	12	6	2	23	20.81
		19975	1712.5	25	0	2	23	21.35
		20175	1732.5	25	0	2	23	21.44
		20375	1752.5	25	0	2	23	21.33

LTE Band 4								
BW	Modulation	CH	Frequency	RB	RB Offset	MPR	Target	Measured
			(MHz)				Power	Power
10MHz	QPSK	20000	1715	1	0	0	23	23.27
		20175	1732.5	1	0	0	23	23.25
		20350	1750	1	0	0	23	23.18
		20000	1715	1	49	0	23	23.01
		20175	1732.5	1	49	0	23	23
		20350	1750	1	49	0	23	22.86
		20000	1715	25	12	1	23	22.13
		20175	1732.5	25	12	1	23	22.06
		20350	1750	25	12	1	23	21.98
		20000	1715	50	0	1	23	21.99
		20175	1732.5	50	0	1	23	21.92
		20350	1750	50	0	1	23	21.88
	16QAM	20000	1715	1	0	1	23	22.58
		20175	1732.5	1	0	1	23	22.55
		20350	1750	1	0	1	23	22.48
		20000	1715	1	49	1	23	22.35
		20175	1732.5	1	49	1	23	22.33
		20350	1750	1	49	1	23	22.24
		20000	1715	25	12	2	23	21.41
		20175	1732.5	25	12	2	23	21.38
		20350	1750	25	12	2	23	21.39
		20000	1715	50	0	2	23	21.14
		20175	1732.5	50	0	2	23	21.06
		20350	1750	50	0	2	23	21.05

AVERAGE ERP (dBm)

LTE BAND 17

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23755	706.5	-7.22	30.36	20.99	0.13	H
	23790	710.0	-7.37	30.17	20.65	0.12	
	23825	713.5	-7.19	30.17	20.83	0.12	
	23755	706.5	-15.65	32.03	14.23	0.03	V
	23790	710.0	-15.41	31.98	14.42	0.03	
	23825	713.5	-15.36	32.06	14.55	0.03	

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23780	709.0	-7.20	30.17	20.82	0.12	H
	23790	710.0	-7.49	30.17	20.53	0.11	
	23800	711.0	-7.59	30.18	20.44	0.11	
	23780	709.0	-15.81	31.96	14.00	0.03	V
	23790	710.0	-15.01	31.98	14.82	0.03	
	23800	711.0	-15.63	32.03	14.25	0.03	

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23755	706.5	-7.87	30.36	20.34	0.11	H
	23790	710.0	-7.03	30.17	20.99	0.13	
	23825	713.5	-7.23	30.17	20.79	0.12	
	23755	706.5	-15.35	32.03	14.53	0.03	V
	23790	710.0	-15.35	31.98	14.48	0.03	
	23825	713.5	-15.40	32.06	14.51	0.03	

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
X	23780	709.0	-7.76	30.17	20.26	0.11	H
	23790	710.0	-7.32	30.17	20.70	0.12	
	23800	711.0	-7.26	30.18	20.77	0.12	
	23780	709.0	-15.85	31.96	13.96	0.02	V
	23790	710.0	-15.12	31.98	14.71	0.03	
	23800	711.0	-15.32	32.03	14.56	0.03	

AVERAGE EIRP (dBm)

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	ERP(W)	Polarization (H/V)
Z	19975	1712.5	-12.66	37.90	25.24	0.33	H
	20175	1732.5	-12.05	37.99	25.94	0.39	
	20375	1752.5	-12.32	38.31	25.99	0.40	
	19975	1712.5	-16.29	37.81	21.52	0.14	V
	20175	1732.5	-16.29	37.40	21.11	0.13	
	20375	1752.5	-16.16	38.22	22.06	0.16	

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	ERP(W)	Polarization (H/V)
Z	20000	1715.0	-12.26	37.99	25.73	0.37	H
	20175	1732.5	-12.70	37.99	25.29	0.34	
	20350	1750.0	-12.65	38.36	25.71	0.37	
	20000	1715.0	-18.70	37.91	19.21	0.08	V
	20175	1732.5	-18.76	38.00	19.24	0.08	
	20350	1750.0	-18.49	38.28	19.79	0.10	

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	ERP(W)	Polarization (H/V)
Z	19975	1712.5	-12.14	37.90	25.76	0.38	H
	20175	1732.5	-12.23	37.99	25.76	0.38	
	20375	1752.5	-13.15	38.31	25.16	0.33	
	19975	1712.5	-17.96	37.81	19.85	0.10	V
	20175	1732.5	-17.35	37.40	20.05	0.10	
	20375	1752.5	-17.22	38.22	21.00	0.13	

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	ERP(W)	Polarization (H/V)
Z	20000	1715.0	-12.45	37.99	25.54	0.36	H
	20175	1732.5	-12.85	37.99	25.14	0.33	
	20350	1750.0	-12.72	38.36	25.64	0.37	
	20000	1715.0	-18.71	37.91	19.20	0.08	V
	20175	1732.5	-18.52	38.00	19.48	0.09	
	20350	1750.0	-19.05	38.28	19.23	0.08	

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

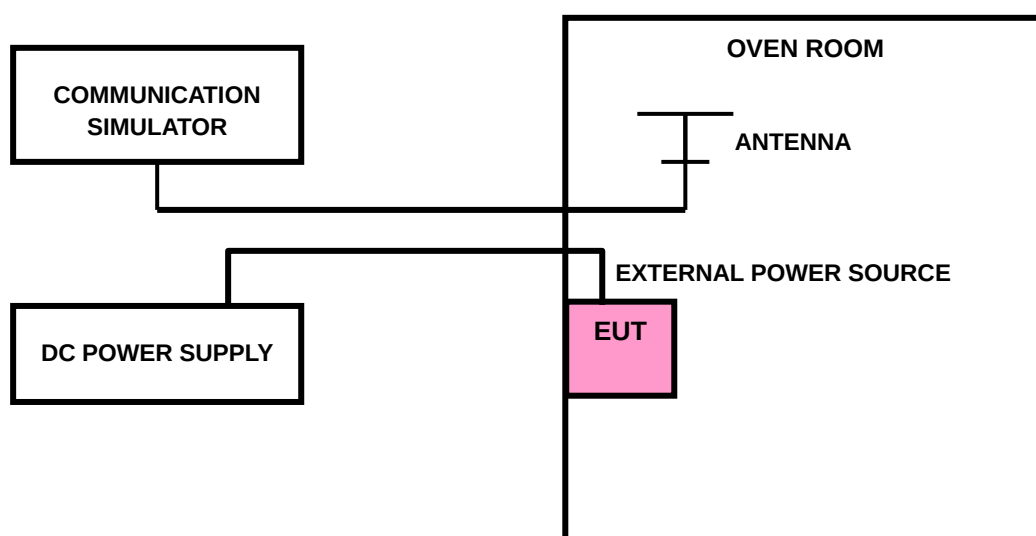
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 $\pm 0.5^{\circ}\text{C}$ 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

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)				LIMIT (ppm)
	LTE BAND 17		LTE BAND 4		
	5MHz	10MHz	5MHz	10MHz	
7.7	-0.0025	0.0023	-0.0061	-0.0038	2.5
7.0	-0.0028	0.0028	-0.0070	-0.0027	2.5
8.4	-0.0025	-0.0027	-0.0056	-0.0036	2.5

NOTE: The applicant defined the normal working voltage of the host equipment is from 7.0Vdc to 8.7Vdc.

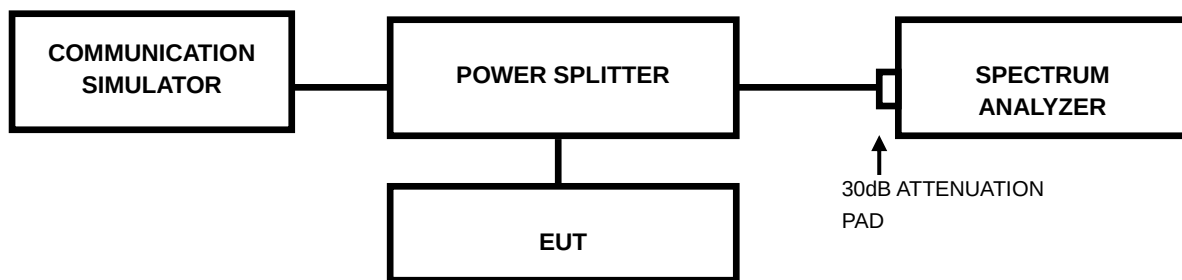
TEMP. (°C)	FREQUENCY ERROR (ppm)				LIMIT (ppm)
	LTE BAND 17		LTE BAND 4		
	5MHz	10MHz	5MHz	10MHz	
-10	-0.0028	-0.0052	-0.0060	-0.0037	2.5
0	-0.0032	-0.0015	-0.0052	-0.0041	2.5
10	0.0030	-0.0020	-0.0033	-0.0029	2.5
20	0.0035	-0.0037	0.0042	-0.0054	2.5
30	0.0026	-0.0020	-0.0045	-0.0037	2.5
40	-0.0037	-0.0014	0.0038	0.0035	2.5
50	-0.0038	-0.0049	0.0040	0.0069	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

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

4.3.2 TEST SETUP



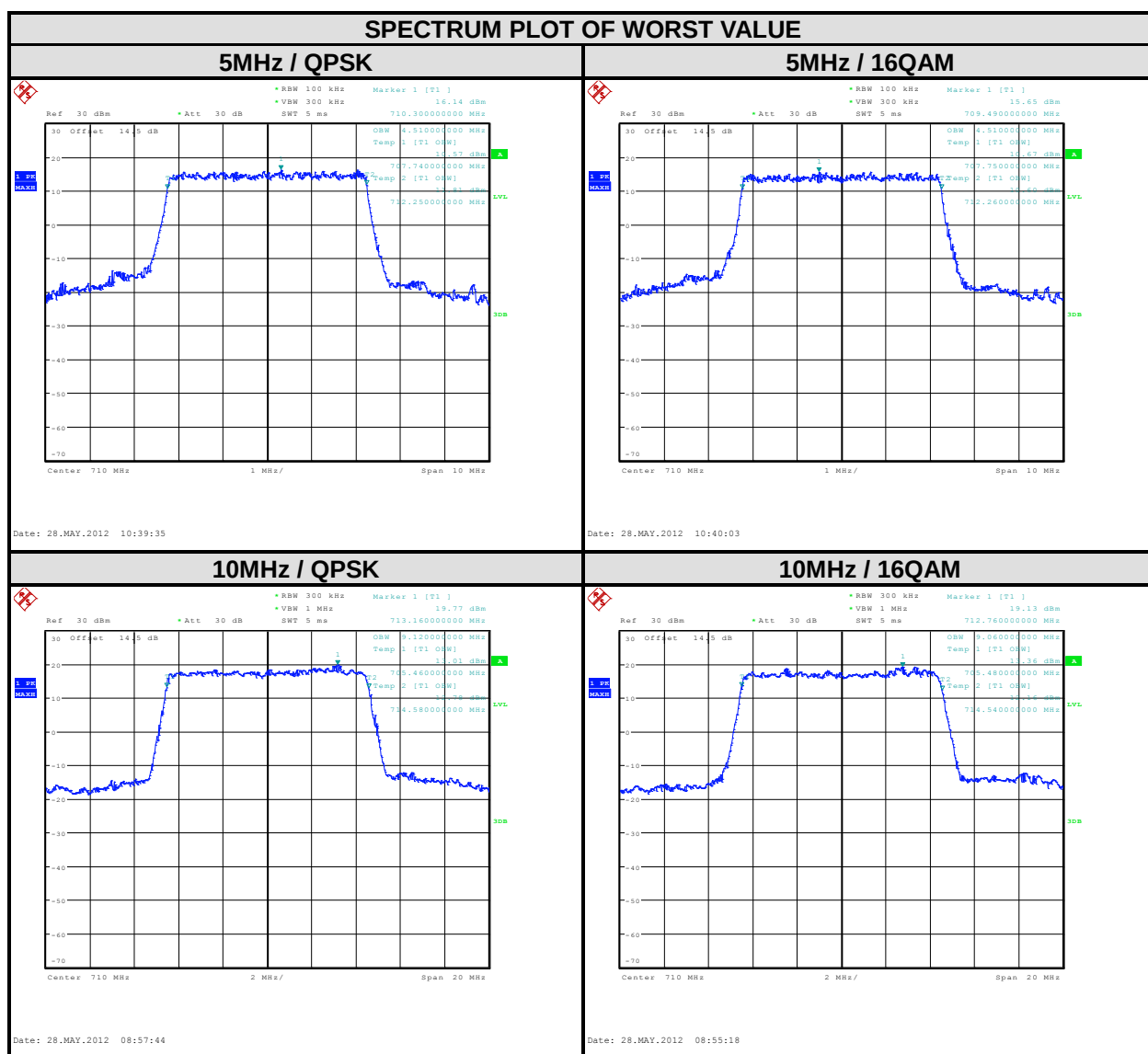
4.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.4 TEST RESULTS

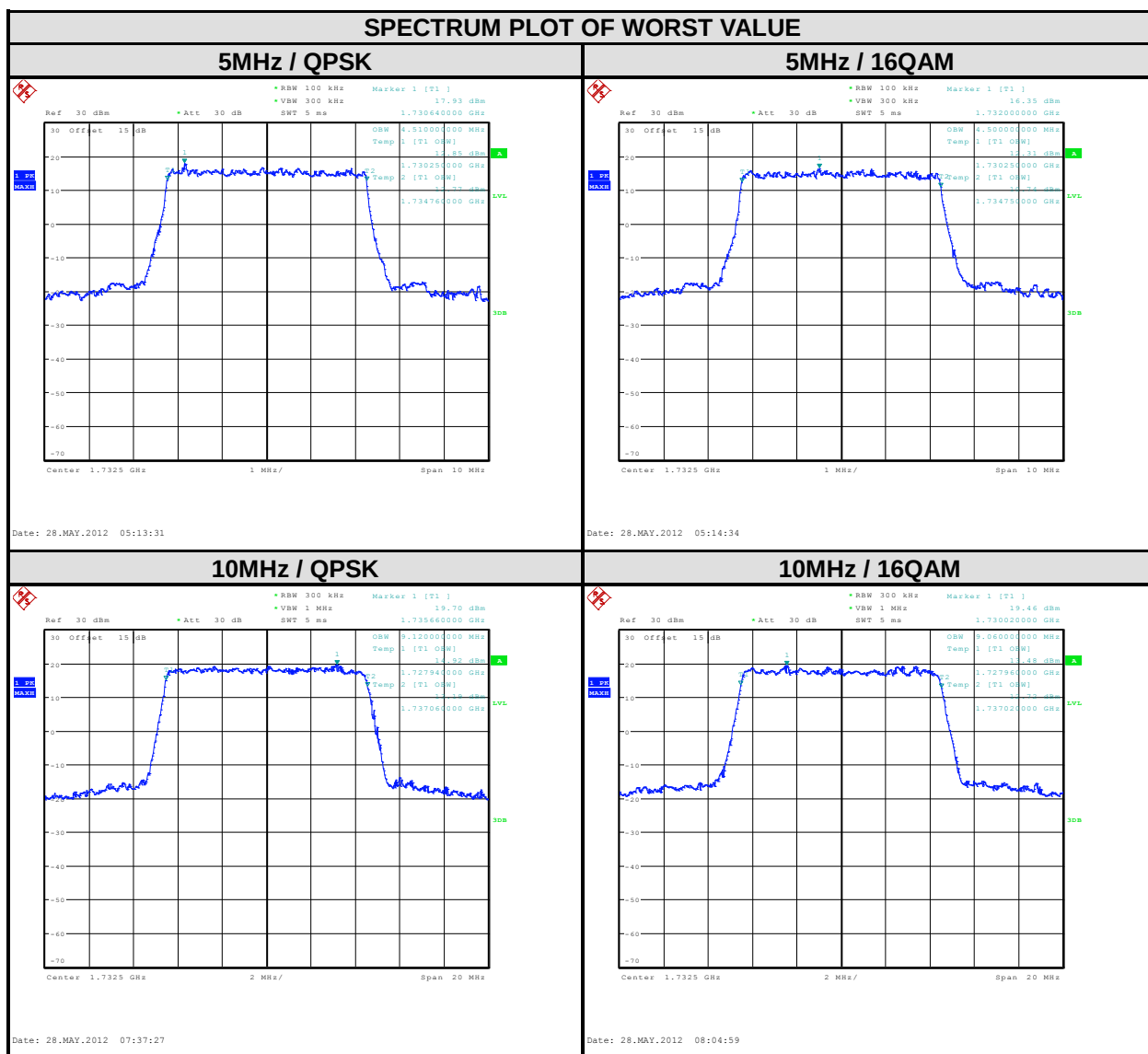
LTE BAND 17

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
23790	710.0	4.51	4.51	23790	710.0	9.12	9.06
CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
23790	710.0	5.16	5.11	23790	710.0	10.26	10.18



LTE BAND 4

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	4.51	4.50	20175	1732.5	9.12	9.06
CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20175	1732.5	5.08	5.14	20175	1732.5	10.28	10.26

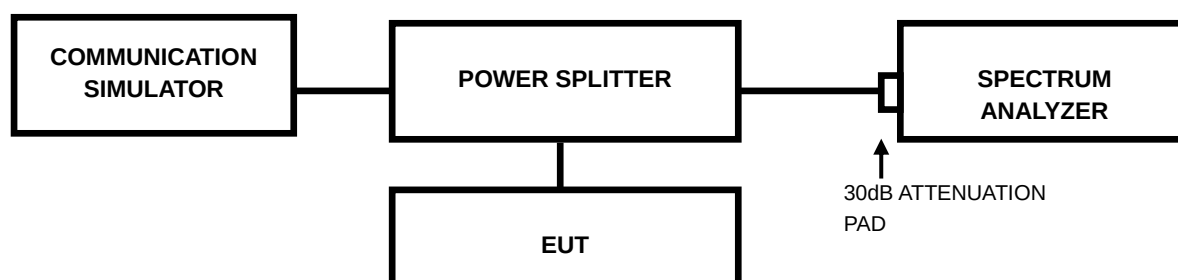


4.4 PEAK TO AVERAGE RATIO

4.4.1 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

4.4.2 TEST SETUP



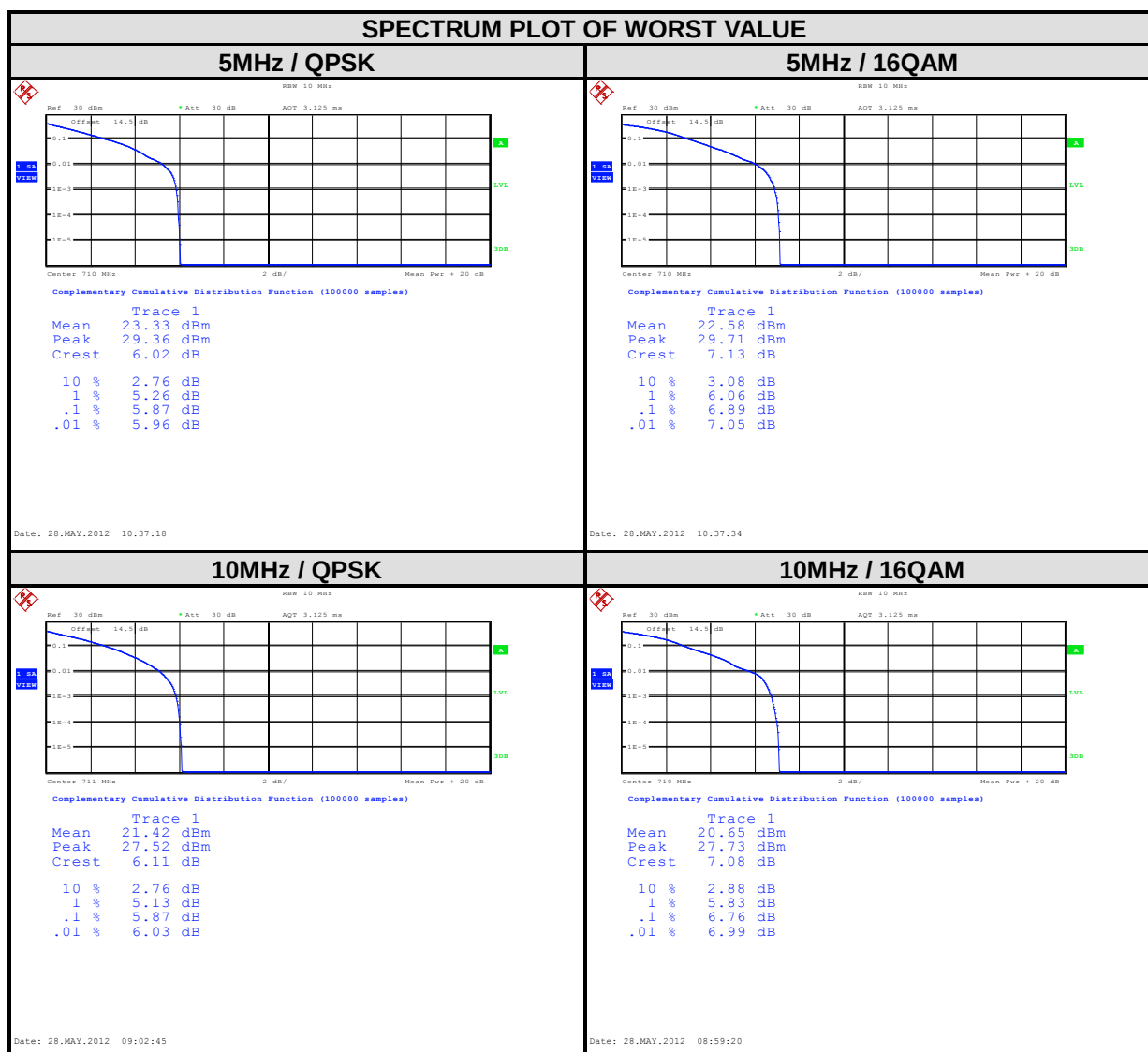
4.4.3 TEST PROCEDURES

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%.

4.4.4 TEST RESULTS

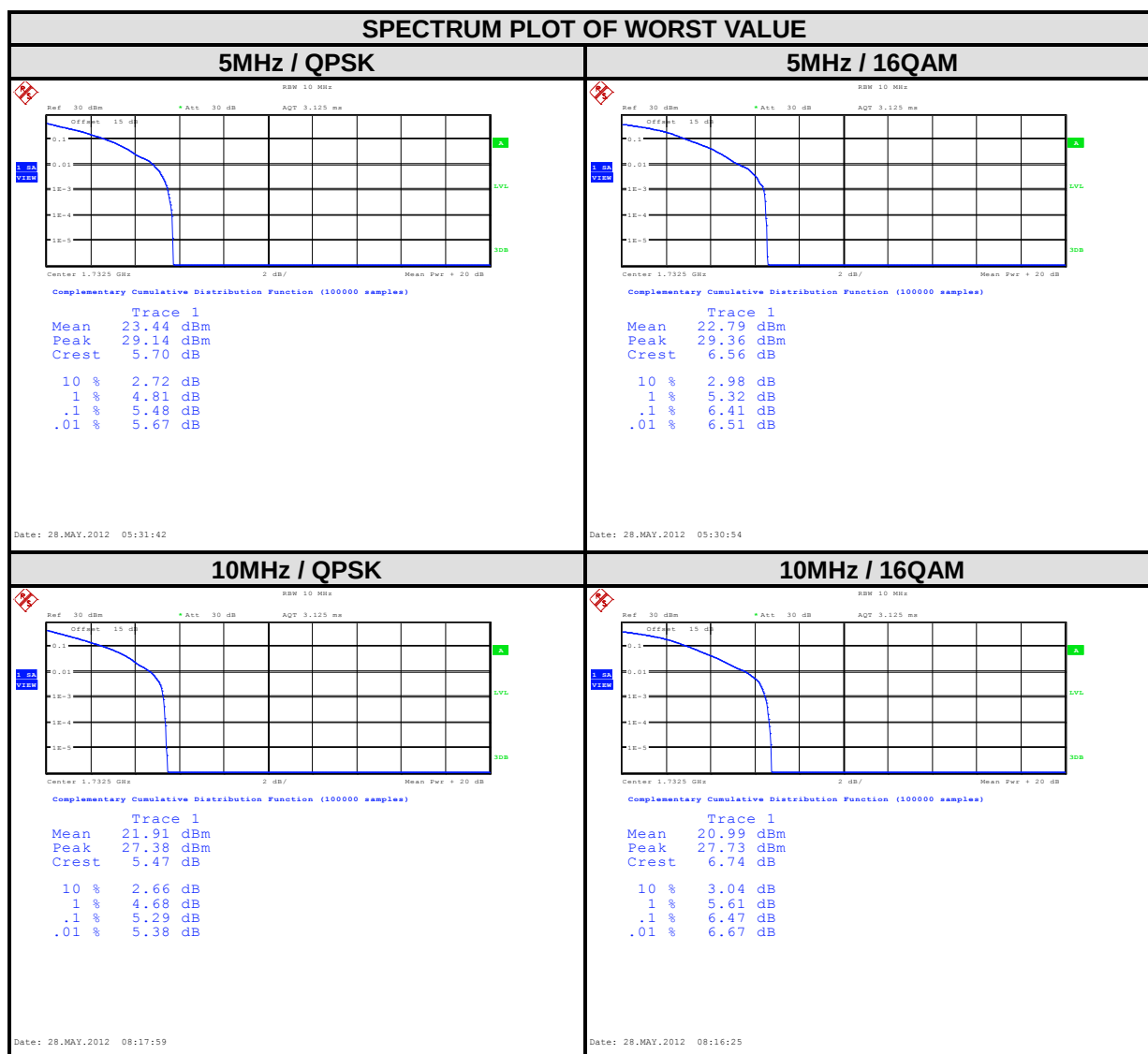
LTE BAND 17

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
23755	706.5	5.67	6.57	23780	709.0	5.61	6.70
23790	710.0	5.87	6.89	23790	710.0	5.74	6.76
23825	713.5	5.87	6.83	23800	711.0	5.87	6.73



LTE BAND 4

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	5.13	6.38	20000	1715.0	5.13	6.19
20175	1732.5	5.48	6.41	20175	1732.5	5.29	6.47
20375	1752.5	5.03	6.12	20350	1750.0	4.94	5.96



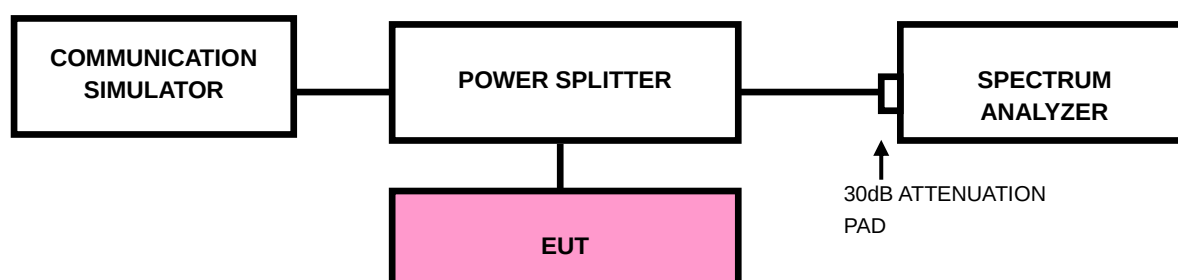
4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

For operations in the 698 – 746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For operations in the 1710 – 1755 MHz and 2110 – 2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

4.5.2 TEST SETUP

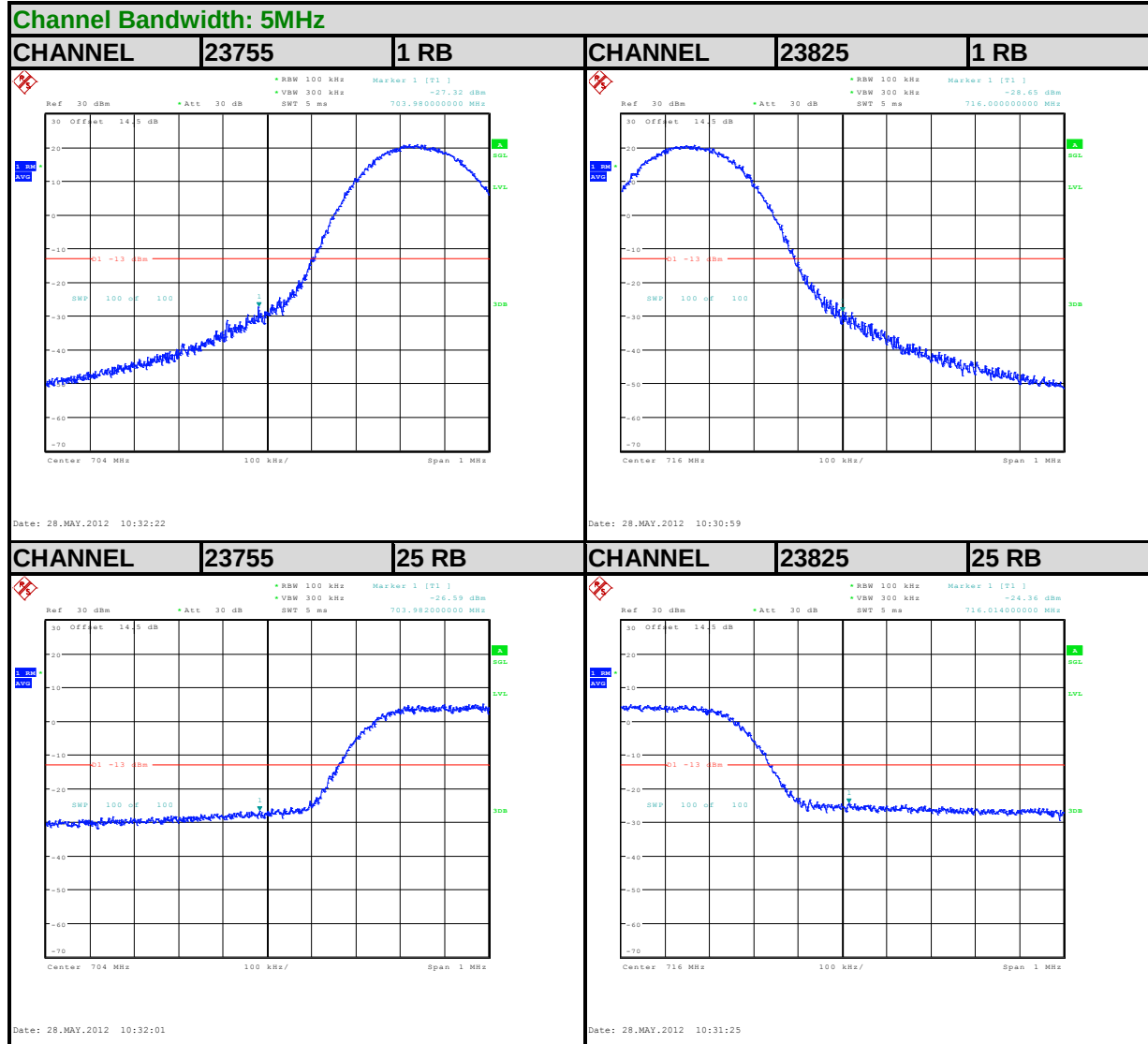


4.5.3 TEST PROCEDURES

- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz.
- d. Record the max trace plot into the test report.

4.5.4 TEST RESULTS

LTE BAND 17

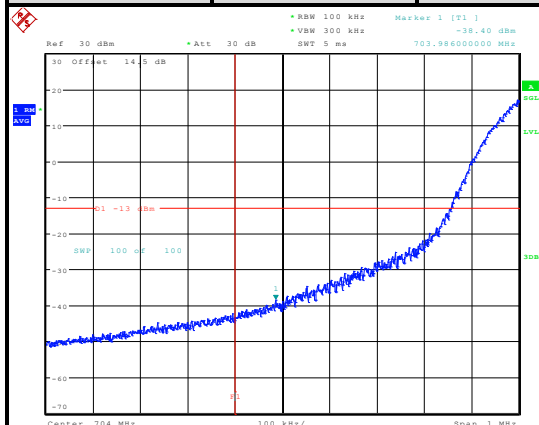




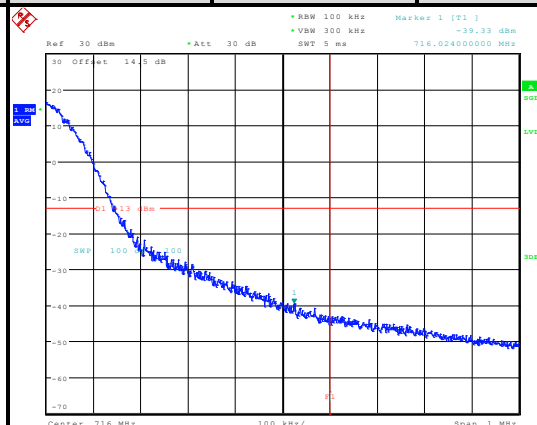
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Channel Bandwidth: 10MHz

CHANNEL	23780	1 RB	CHANNEL	23800	1 RB
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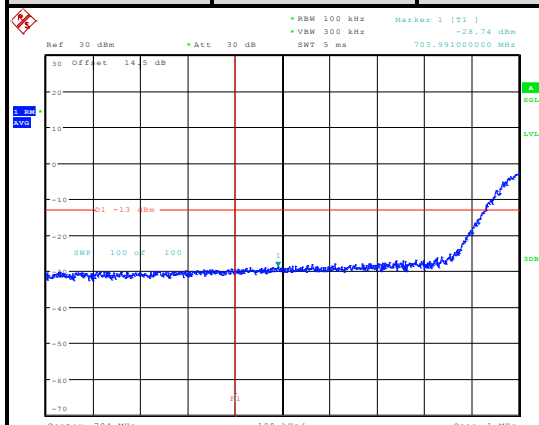


Date: 28.MAY.2012 09:07:06

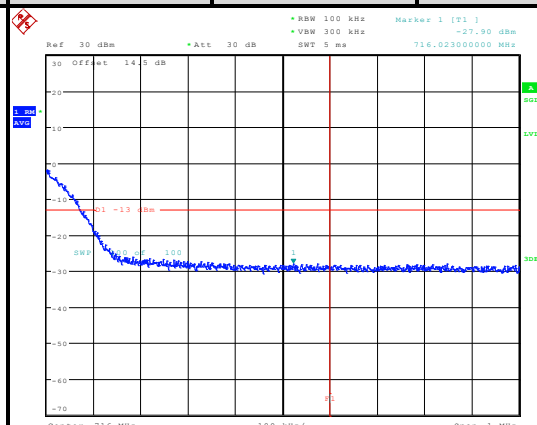


Date: 28.MAY.2012 09:08:39

CHANNEL	23780	50 RB	CHANNEL	23800	50 RB
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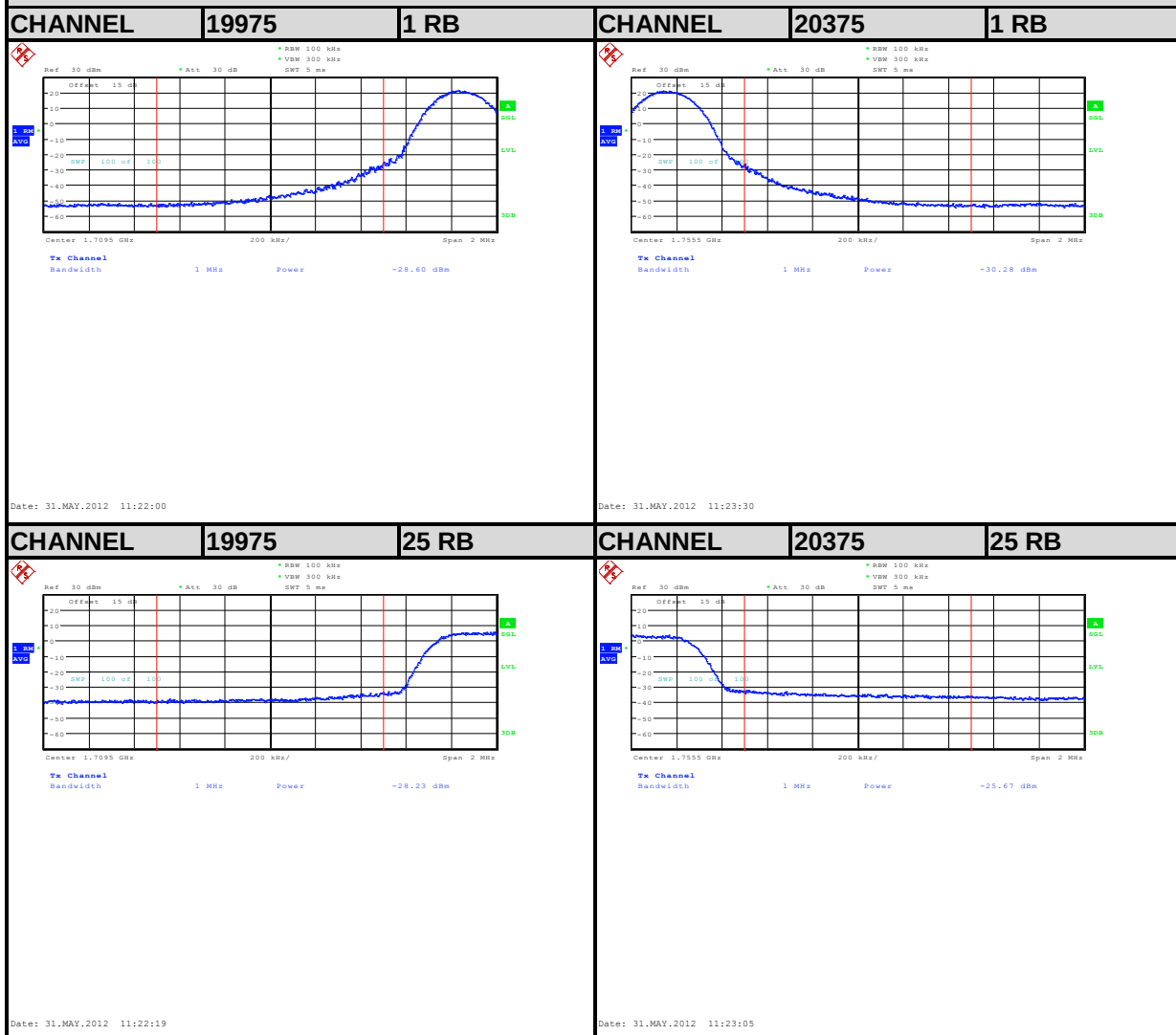
Date: 28.MAY.2012 09:07:23



Date: 28.MAY.2012 09:08:06

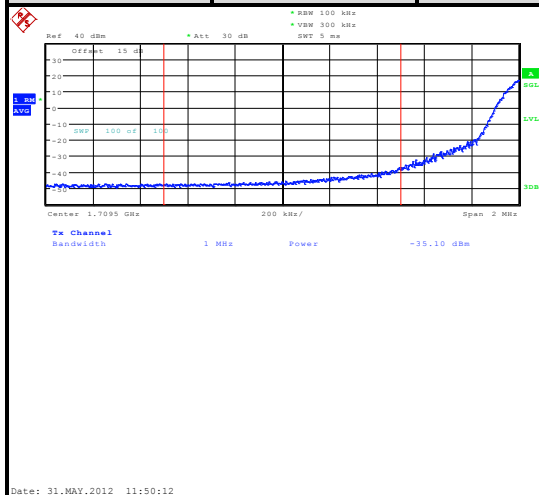
LTE BAND 4

Channel Bandwidth: 5MHz

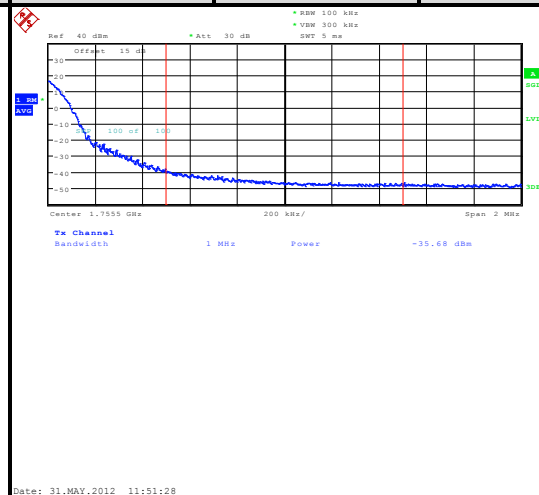


Channel Bandwidth: 10MHz

CHANNEL	20000	1 RB	CHANNEL	20350	1 RB
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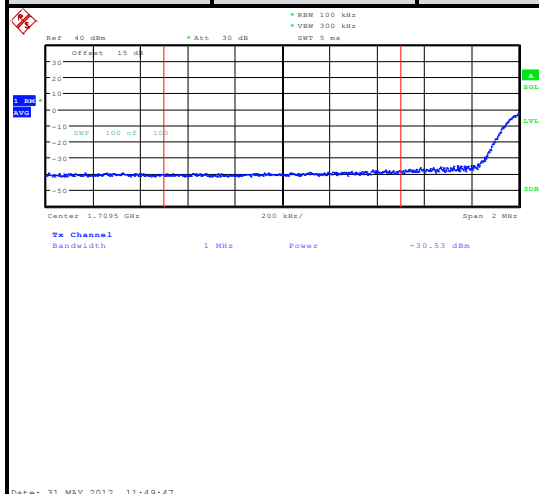


Date: 31.MAY.2012 11:50:12

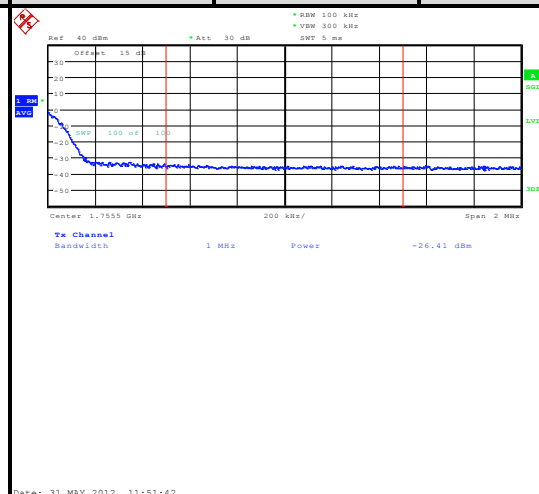


Date: 31.MAY.2012 11:51:28

CHANNEL	20000	50 RB	CHANNEL	20350	50 RB
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Date: 31.MAY.2012 11:49:47



Date: 31.MAY.2012 11:51:42

4.6 CONDUCTED SPURIOUS EMISSIONS

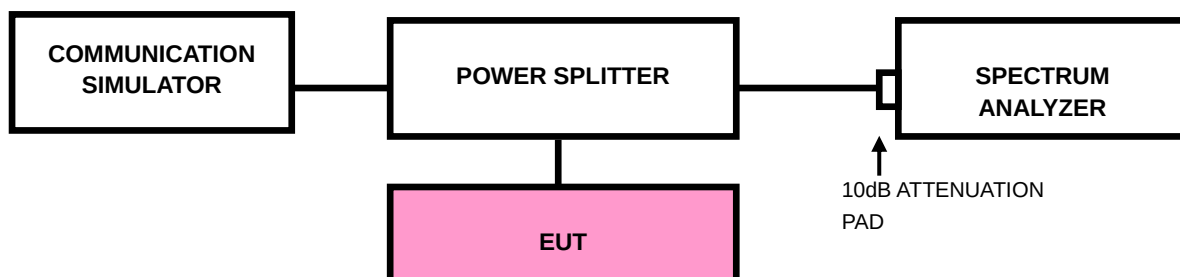
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

4.6.2 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 30 MHz to 8GHz for LTE Band 17 and from 30MHz to 18GHz for LTE Band 4. 10dB attenuation pad is connected with spectrum. RBW=100kHz and VBW=300kHz for LTE Band 17 and RBW=1MHz and VBW=3MHz for LTE Band 4 are used for conducted emission measurement.

4.6.3 TEST SETUP





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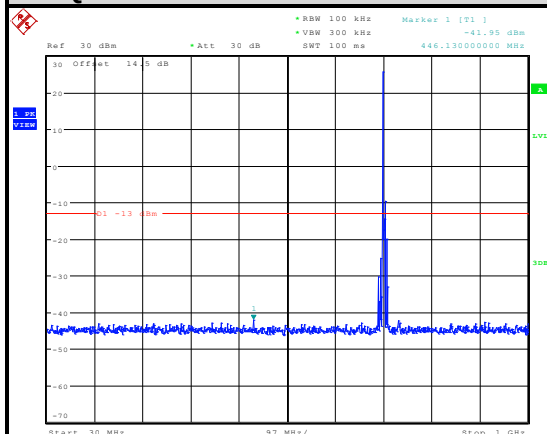
4.6.4 TEST RESULTS

LTE BAND 17

5MHz / QPSK / 0 RB Offset

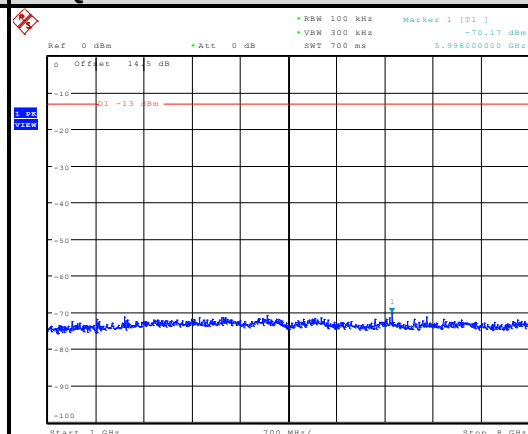
CHANNEL 23755

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 10:20:51

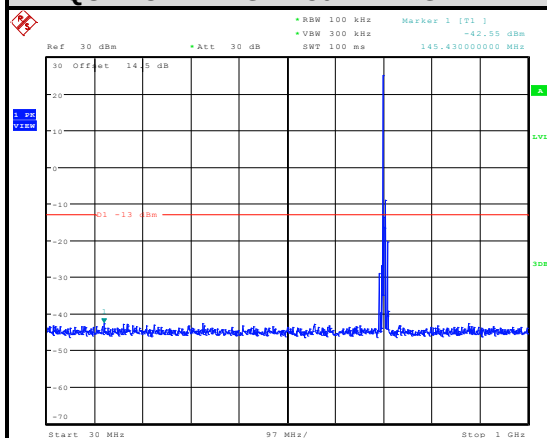
FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 10:24:07

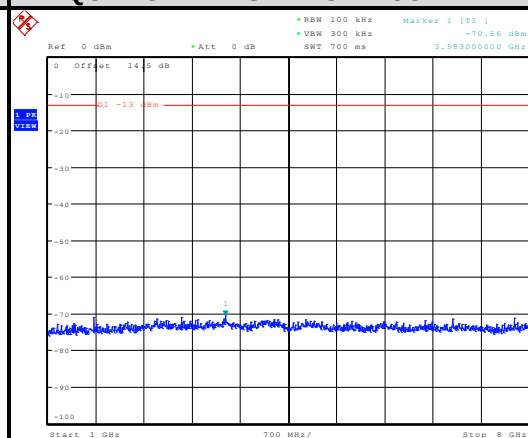
CHANNEL 23790

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 10:25:24

FREQUENCY RANGE : 1GHz~8GHz



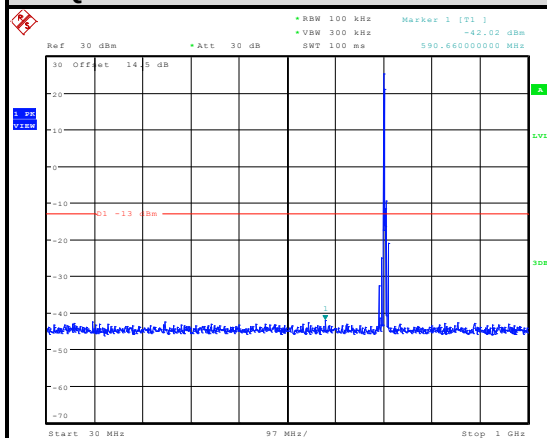
Date: 28.MAY.2012 10:12:24



A D T

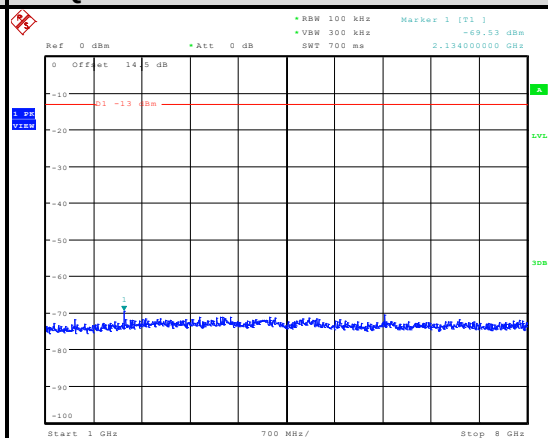
CHANNEL 23825

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 10:27:53

FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 10:11:01

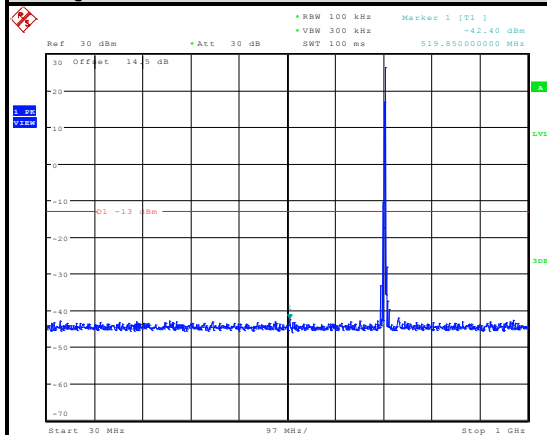


A D T

5MHz / QPSK / 24 RB Offset

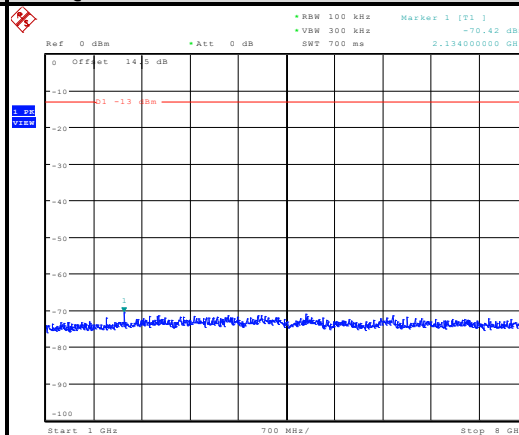
CHANNEL 23755

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 10:21:40

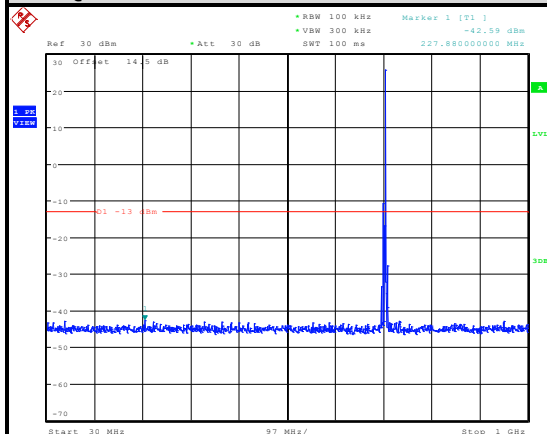
FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 10:23:12

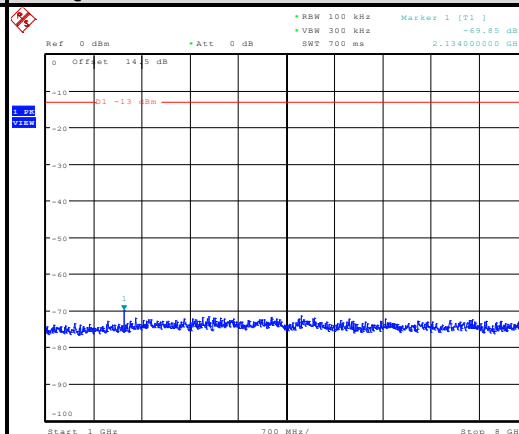
CHANNEL 23790

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 10:25:50

FREQUENCY RANGE : 1GHz~8GHz



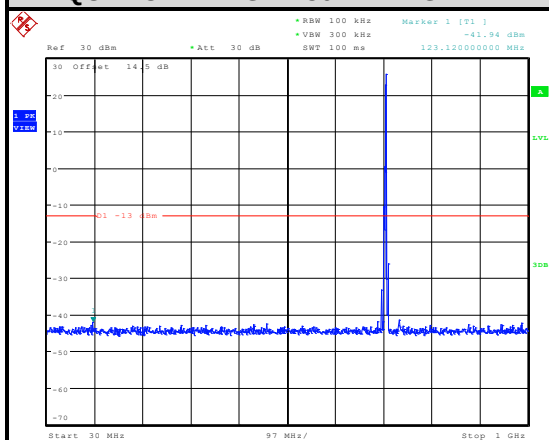
Date: 28.MAY.2012 10:11:52



A D T

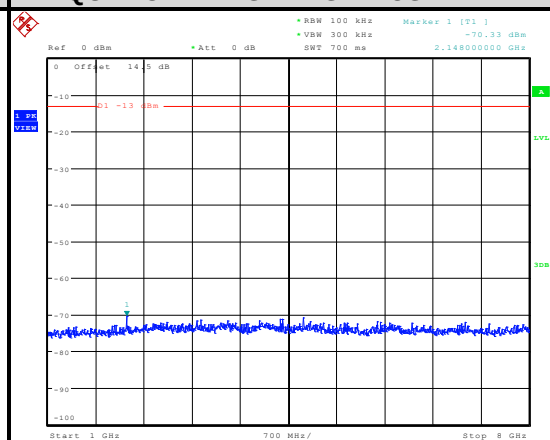
CHANNEL 23825

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 10:27:16

FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 10:11:22

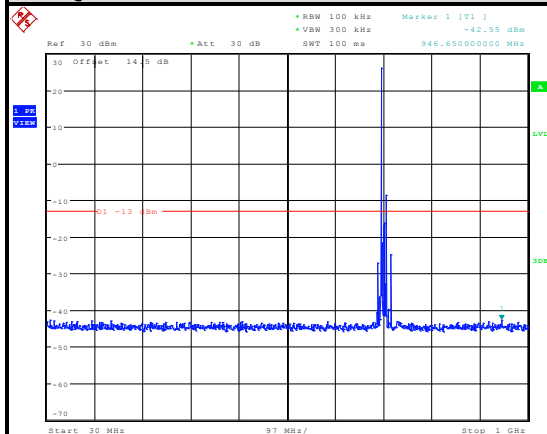


A D T

10MHz / QPSK / 0 RB Offset

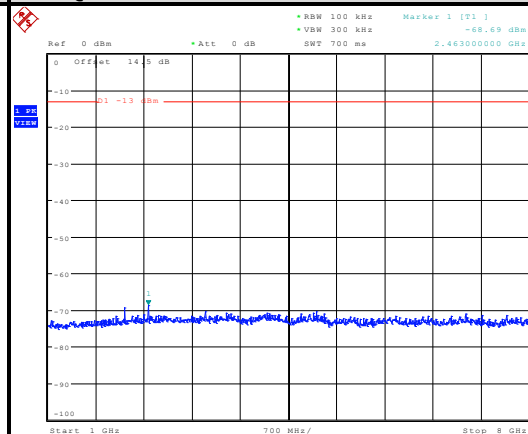
CHANNEL 23780

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 09:41:38

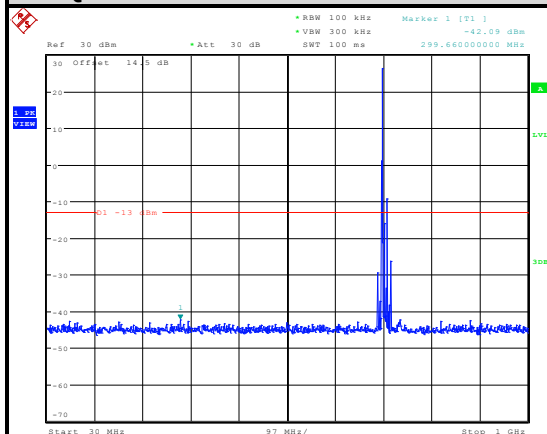
FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 09:46:03

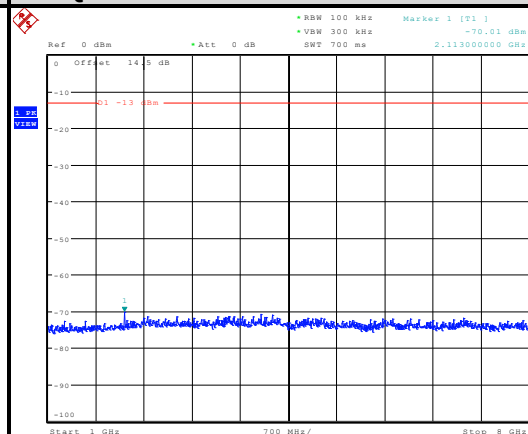
CHANNEL 23790

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 09:38:55

FREQUENCY RANGE : 1GHz~8GHz



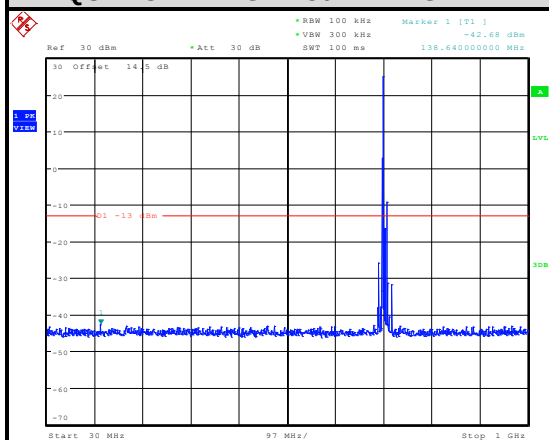
Date: 28.MAY.2012 09:48:51



A D T

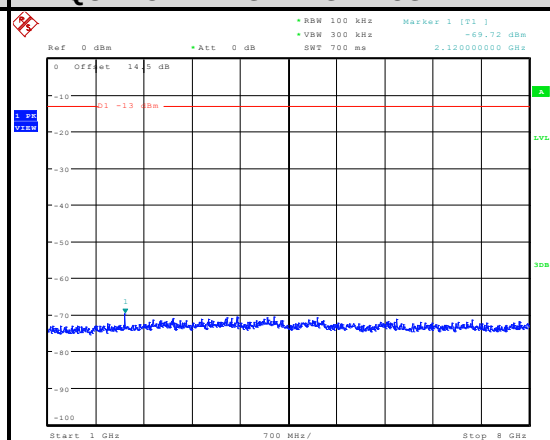
CHANNEL 23800

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 09:20:40

FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 09:53:49

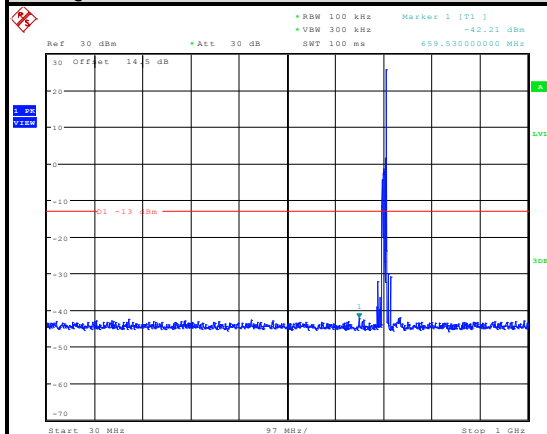


A D T

10MHz / QPSK / 49 RB Offset

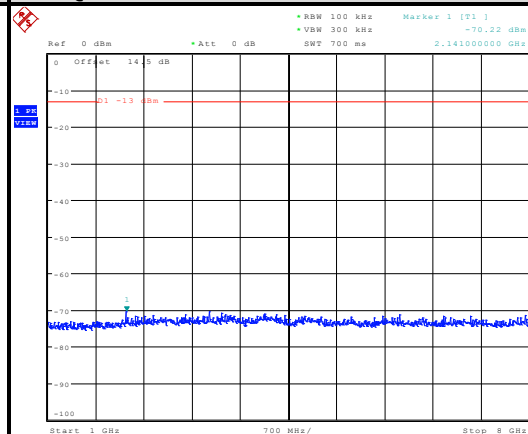
CHANNEL 23780

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 09:40:49

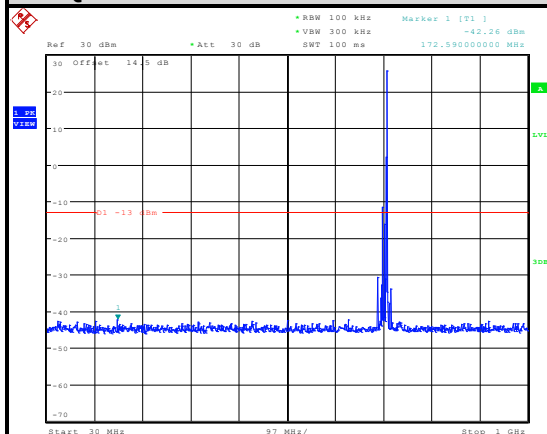
FREQUENCY RANGE : 1GHz~8GHz



Date: 28.MAY.2012 09:47:06

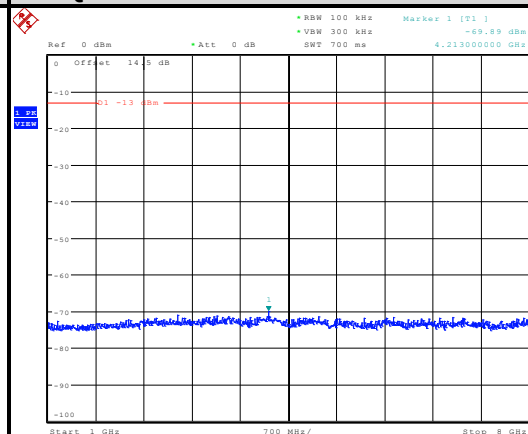
CHANNEL 23790

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 09:39:34

FREQUENCY RANGE : 1GHz~8GHz



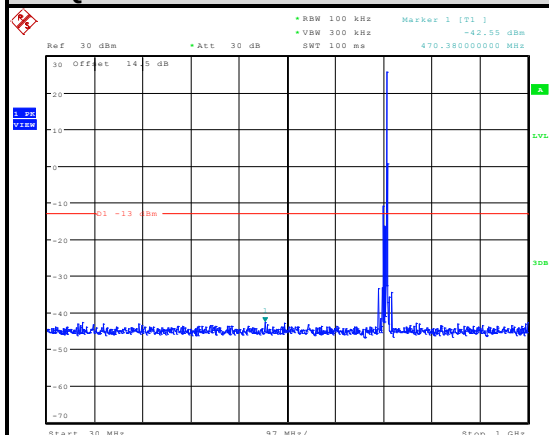
Date: 28.MAY.2012 09:48:15



A D T

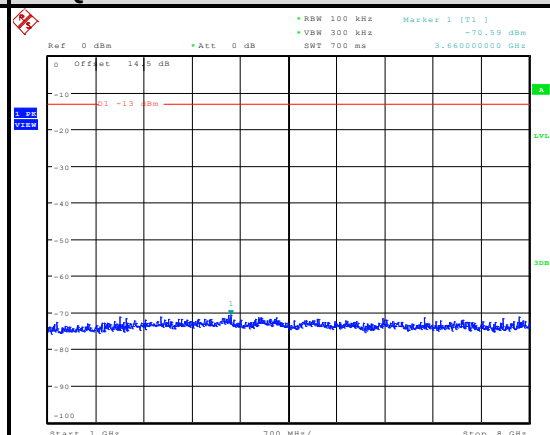
CHANNEL 23800

FREQUENCY RANGE : 30MHz~1GHz



Date: 28.MAY.2012 09:21:13

FREQUENCY RANGE : 1GHz~8GHz



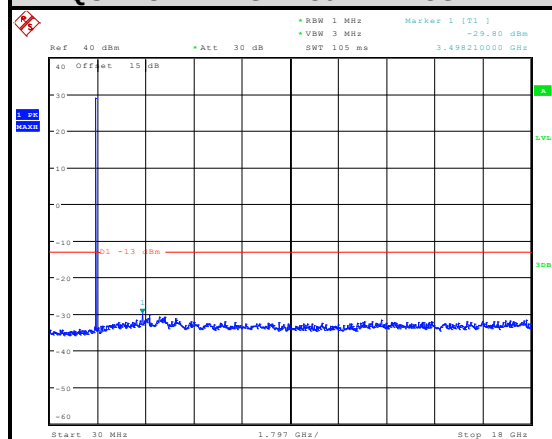
Date: 28.MAY.2012 09:54:55

LTE BAND 4

CHANNEL 19975

5MHz / QPSK

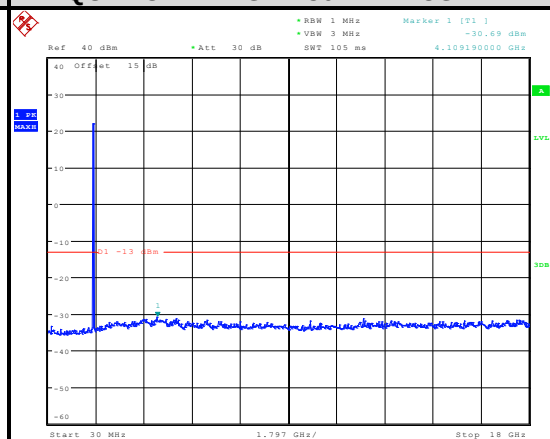
FREQUENCY RANGE : 30MHz~18GHz



Date: 31.MAY.2012 11:38:50

10MHz / QPSK

FREQUENCY RANGE : 30MHz~18GHz



Date: 31.MAY.2012 11:48:04

4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

4.7.2 TEST PROCEDURES

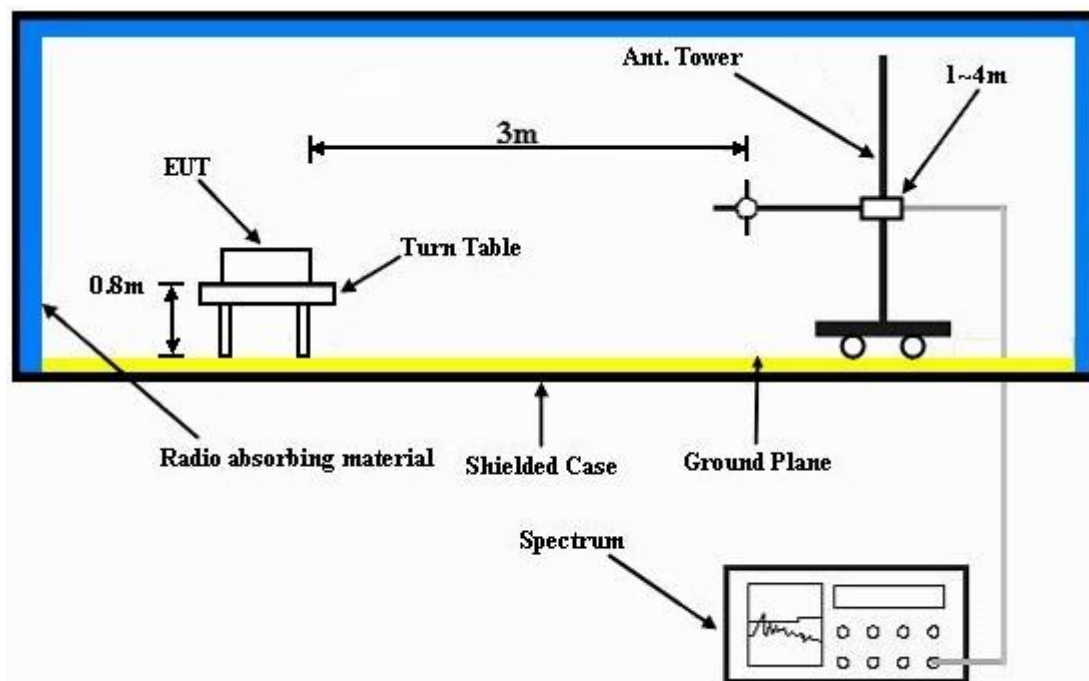
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



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



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4.7.5 TEST RESULTS

LTE BAND 17

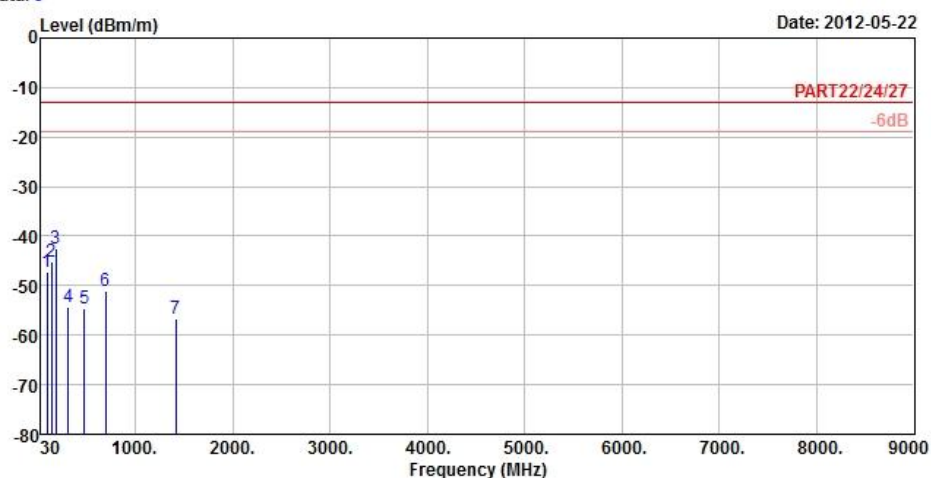
CHANNEL BANDWIDTH: 5MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 5M QPSK(1,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.18	-47.28	-36.75	-13.00	-34.28	-10.53 Peak
2	136.38	-45.14	-38.69	-13.00	-32.14	-6.45 Peak
3 pp	179.85	-42.62	-36.76	-13.00	-29.62	-5.86 Peak
4	314.00	-54.20	-47.93	-13.00	-41.20	-6.27 Peak
5	474.30	-54.65	-50.90	-13.00	-41.65	-3.75 Peak
6	690.60	-50.94	-52.22	-13.00	-37.94	1.28 Peak
7	1414.00	-56.59	-44.08	-13.00	-43.59	-12.51 Peak



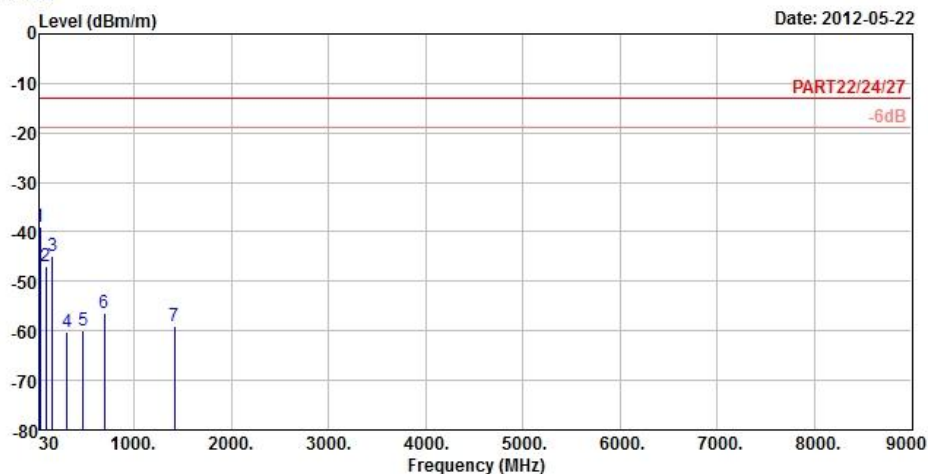
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 5M QPSK(1,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-39.06	-40.13	-13.00	-26.06	1.07 Peak
2	92.91	-46.98	-36.45	-13.00	-33.98	-10.53 Peak
3	161.76	-44.86	-38.31	-13.00	-31.86	-6.55 Peak
4	309.80	-60.29	-53.98	-13.00	-47.29	-6.31 Peak
5	475.00	-59.96	-56.23	-13.00	-46.96	-3.73 Peak
6	690.60	-56.38	-57.66	-13.00	-43.38	1.28 Peak
7	1414.00	-59.12	-46.61	-13.00	-46.12	-12.51 Peak



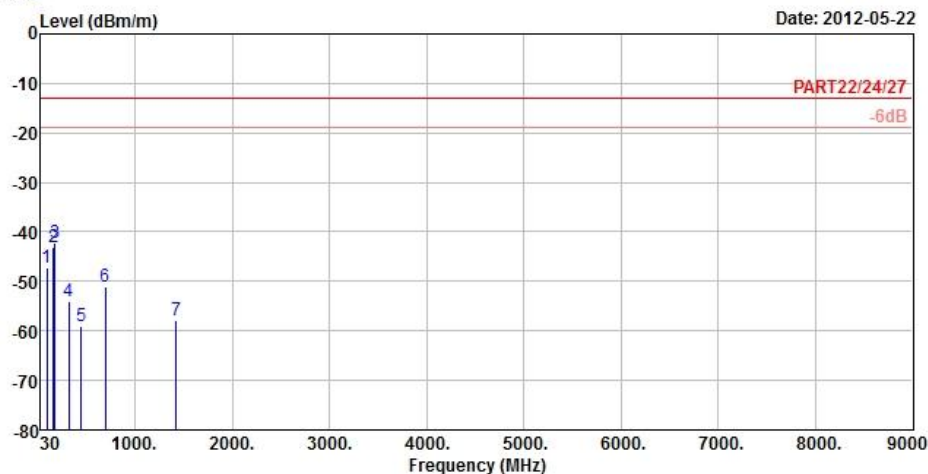
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 5M QPSK(25,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	92.64	-47.22	-36.69	-13.00	-34.22	-10.53 Peak
2	160.95	-42.97	-36.44	-13.00	-29.97	-6.53 Peak
3 pp	178.77	-42.22	-36.18	-13.00	-29.22	-6.04 Peak
4	316.80	-54.09	-47.84	-13.00	-41.09	-6.25 Peak
5	444.20	-59.16	-54.65	-13.00	-46.16	-4.51 Peak
6	690.60	-51.20	-52.48	-13.00	-38.20	1.28 Peak
7	1420.00	-57.75	-45.24	-13.00	-44.75	-12.51 Peak



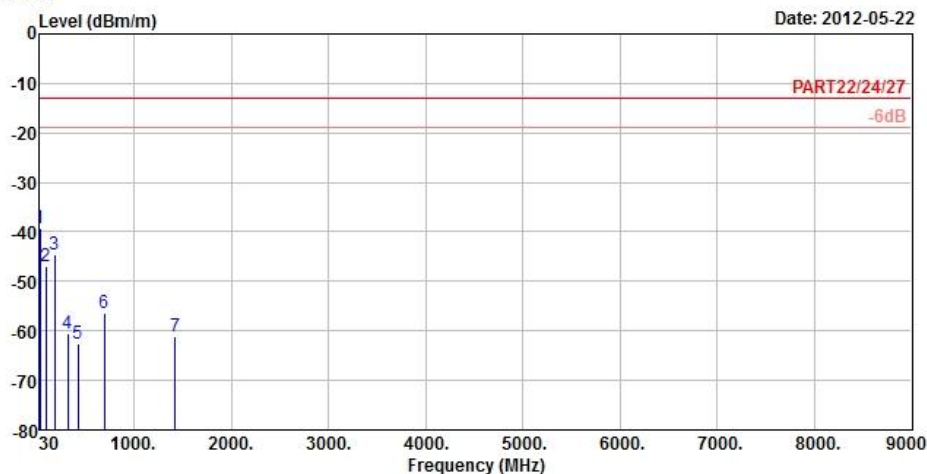
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 5M QPSK(25,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp	30.00	-39.24	-40.31	-13.00	-26.24	1.07 Peak
2	93.18	-46.93	-36.40	-13.00	-33.93	-10.53 Peak
3	184.17	-44.53	-38.40	-13.00	-31.53	-6.13 Peak
4	319.60	-60.44	-54.21	-13.00	-47.44	-6.23 Peak
5	424.60	-62.48	-57.48	-13.00	-49.48	-5.00 Peak
6	690.60	-56.28	-57.56	-13.00	-43.28	1.28 Peak
7	1420.00	-61.23	-48.72	-13.00	-48.23	-12.51 Peak



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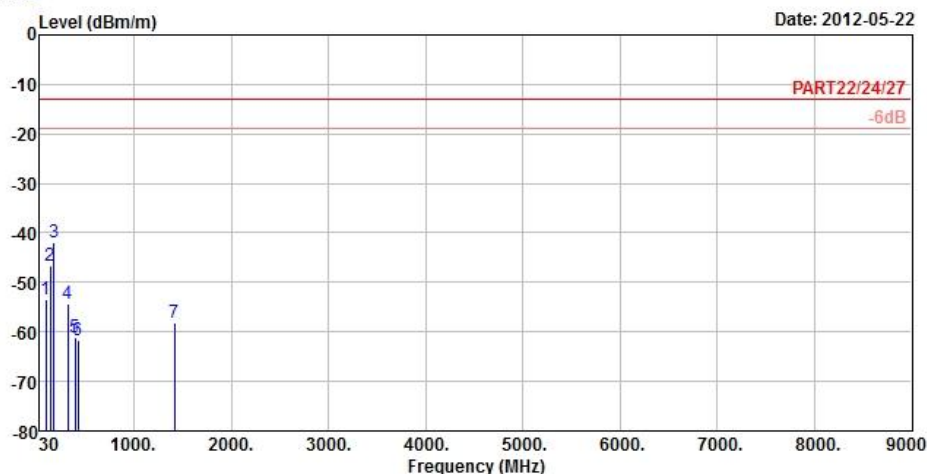
CHANNEL BANDWIDTH: 5MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 5M 16QAM(1,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.18	-53.41	-42.88	-13.00	-40.41	-10.53 Peak
2	136.92	-46.69	-40.24	-13.00	-33.69	-6.45 Peak
3 pp	178.77	-41.90	-35.86	-13.00	-28.90	-6.04 Peak
4	316.80	-54.46	-48.21	-13.00	-41.46	-6.25 Peak
5	393.10	-61.24	-55.55	-13.00	-48.24	-5.69 Peak
6	423.90	-61.60	-56.57	-13.00	-48.60	-5.03 Peak
7	1414.00	-58.02	-45.51	-13.00	-45.02	-12.51 Peak



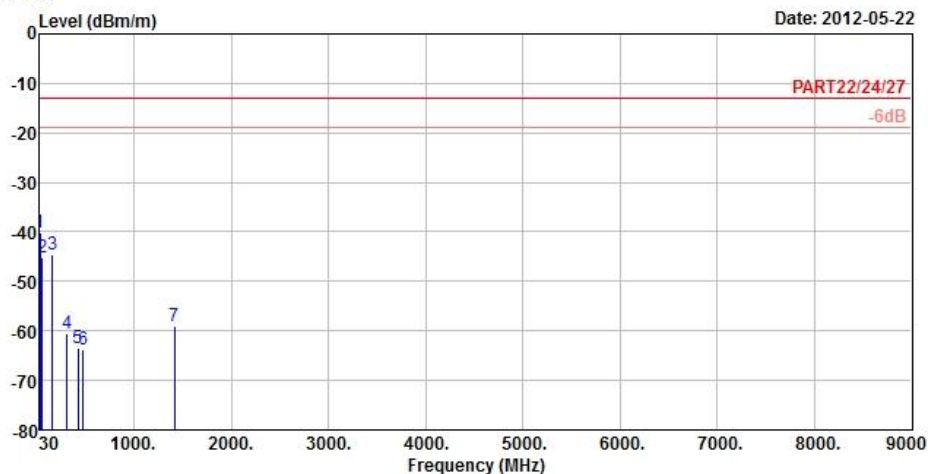
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 5M 16QAM(1,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	pp	31.89	-40.19	-39.80	-13.00	-27.19 -0.39 Peak
2		56.73	-45.20	-39.55	-13.00	-32.20 -5.65 Peak
3		161.49	-44.71	-38.16	-13.00	-31.71 -6.55 Peak
4		312.60	-60.39	-54.10	-13.00	-47.39 -6.29 Peak
5		419.70	-63.57	-58.44	-13.00	-50.57 -5.13 Peak
6		479.20	-63.73	-60.10	-13.00	-50.73 -3.63 Peak
7		1414.00	-59.05	-46.54	-13.00	-46.05 -12.51 Peak



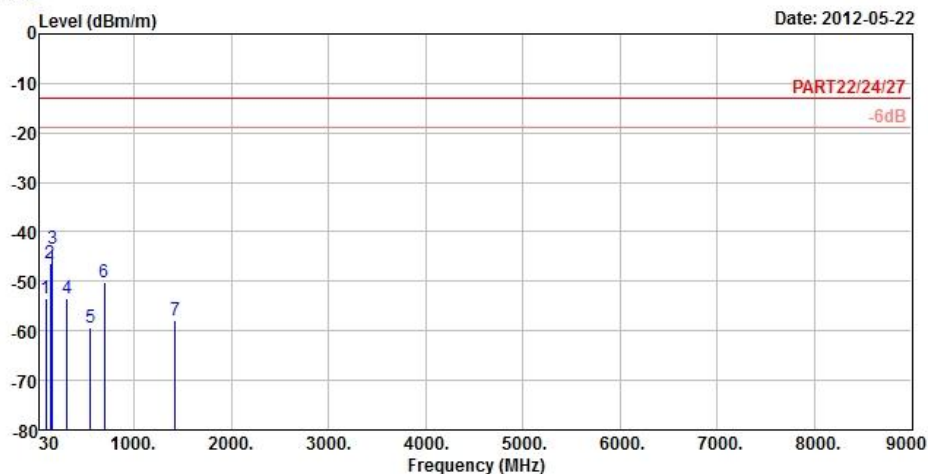
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 5M 16QAM(25,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.18	-53.40	-42.87	-13.00	-40.40	-10.53 Peak
2	136.92	-46.45	-40.00	-13.00	-33.45	-6.45 Peak
3 pp	160.95	-43.51	-36.98	-13.00	-30.51	-6.53 Peak
4	314.00	-53.30	-47.03	-13.00	-40.30	-6.27 Peak
5	549.20	-59.22	-57.46	-13.00	-46.22	-1.76 Peak
6	691.30	-50.26	-51.55	-13.00	-37.26	1.29 Peak
7	1420.00	-57.75	-45.24	-13.00	-44.75	-12.51 Peak



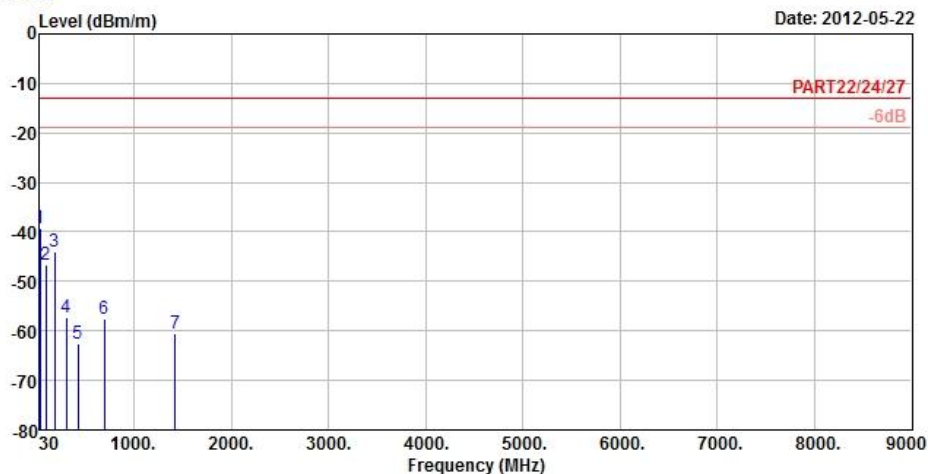
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 5M 16QAM(25,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-39.30	-40.37	-13.00	-26.30	1.07 Peak
2	92.64	-46.68	-36.15	-13.00	-33.68	-10.53 Peak
3	180.12	-43.90	-38.23	-13.00	-30.90	-5.67 Peak
4	304.90	-57.13	-50.79	-13.00	-44.13	-6.34 Peak
5	426.00	-62.67	-57.69	-13.00	-49.67	-4.98 Peak
6	691.30	-57.63	-58.92	-13.00	-44.63	1.29 Peak
7	1420.00	-60.64	-48.13	-13.00	-47.64	-12.51 Peak



A D T

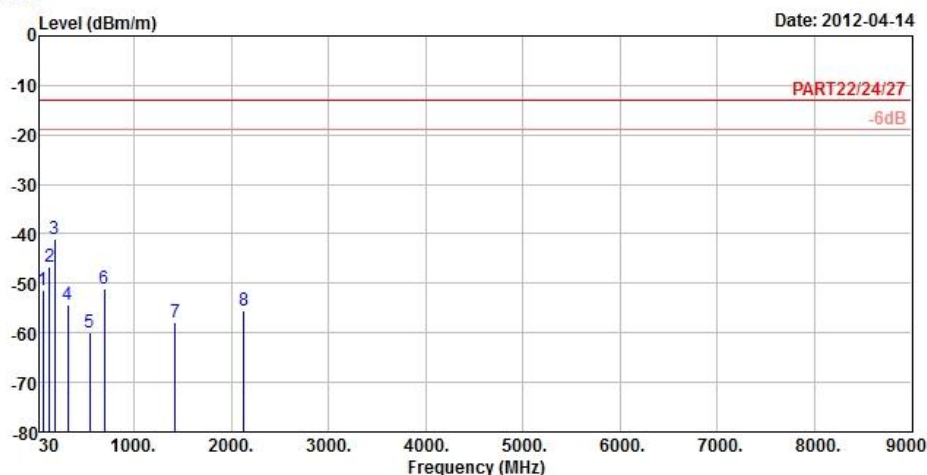
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 10M QPSK(1,49) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	58.62	-51.51	-45.56	-13.00	-38.51	-5.95 Peak
2	130.71	-46.50	-38.50	-13.00	-33.50	-8.00 Peak
3 pp	180.12	-41.10	-35.43	-13.00	-28.10	-5.67 Peak
4	316.80	-54.22	-47.97	-13.00	-41.22	-6.25 Peak
5	546.40	-59.93	-58.09	-13.00	-46.93	-1.84 Peak
6	691.30	-50.98	-52.27	-13.00	-37.98	1.29 Peak
7	1420.00	-57.80	-45.29	-13.00	-44.80	-12.51 Peak
8	2130.00	-55.52	-45.16	-13.00	-42.52	-10.36 Peak



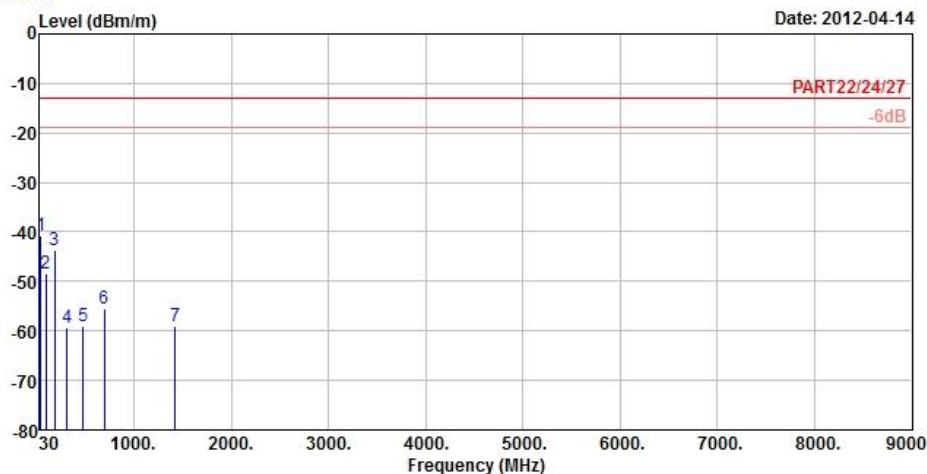
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 10M QPSK(1,49) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

			Read	Limit	Over	
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp	38.91	-40.75	-39.01	-13.00	-27.75	-1.74 Peak
2	94.26	-48.37	-37.86	-13.00	-35.37	-10.51 Peak
3	179.85	-43.77	-37.91	-13.00	-30.77	-5.86 Peak
4	313.30	-59.37	-53.09	-13.00	-46.37	-6.28 Peak
5	473.60	-58.97	-55.19	-13.00	-45.97	-3.78 Peak
6	692.00	-55.44	-56.73	-13.00	-42.44	1.29 Peak
7	1420.00	-59.17	-46.66	-13.00	-46.17	-12.51 Peak



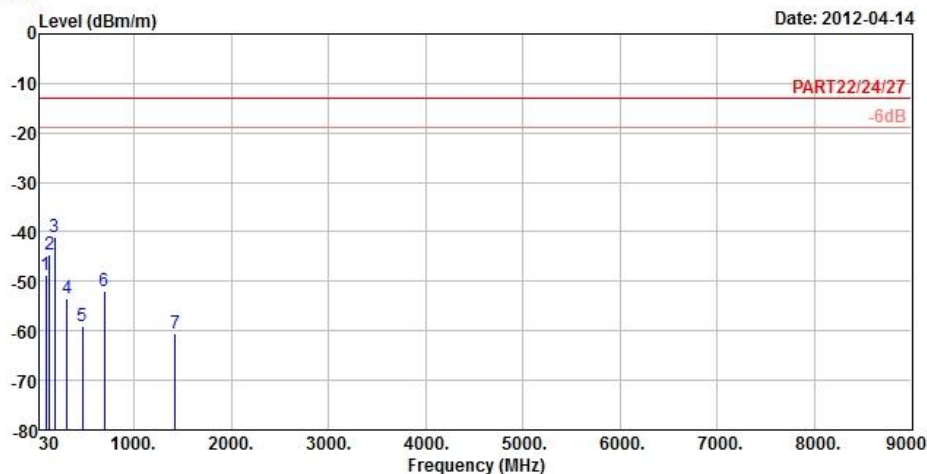
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 10M QPSK(50,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.45	-48.71	-38.18	-13.00	-35.71	-10.53 Peak
2	130.71	-44.43	-36.43	-13.00	-31.43	-8.00 Peak
3 pp	180.12	-41.00	-35.33	-13.00	-28.00	-5.67 Peak
4	311.90	-53.56	-47.27	-13.00	-40.56	-6.29 Peak
5	467.30	-59.03	-55.11	-13.00	-46.03	-3.92 Peak
6	691.30	-51.95	-53.24	-13.00	-38.95	1.29 Peak
7	1420.00	-60.64	-48.13	-13.00	-47.64	-12.51 Peak



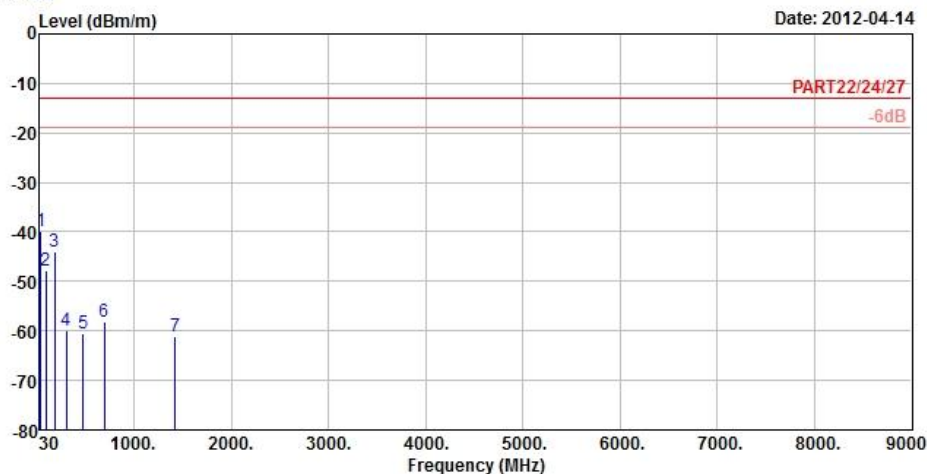
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 10M QPSK(50,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	39.72	-39.97	-38.44	-13.00	-26.97	-1.53 Peak
2	93.72	-47.94	-37.43	-13.00	-34.94	-10.51 Peak
3	179.58	-43.96	-38.10	-13.00	-30.96	-5.86 Peak
4	306.30	-60.04	-53.71	-13.00	-47.04	-6.33 Peak
5	476.40	-60.63	-56.93	-13.00	-47.63	-3.70 Peak
6	691.30	-58.17	-59.46	-13.00	-45.17	1.29 Peak
7	1420.00	-61.19	-48.68	-13.00	-48.19	-12.51 Peak



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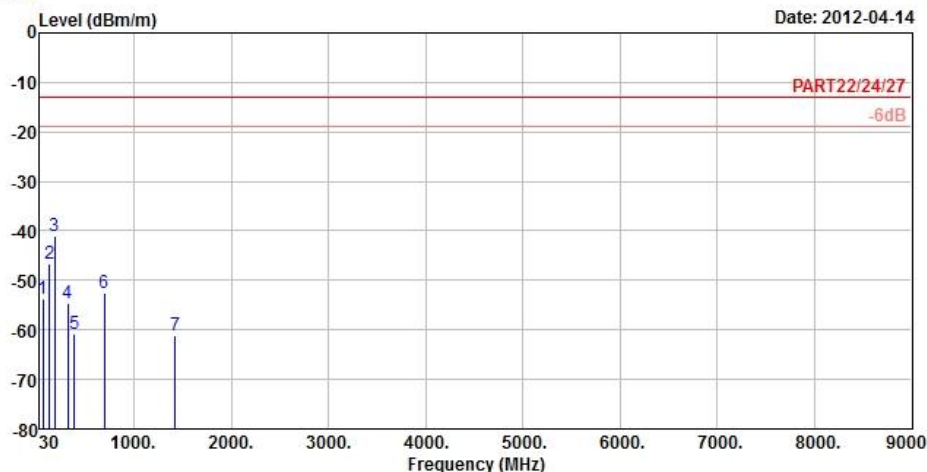
CHANNEL BANDWIDTH: 10MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 10M 16QAM(1,49) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	58.89	-53.65	-47.70	-13.00	-40.65	-5.95 Peak
2	130.98	-46.77	-38.77	-13.00	-33.77	-8.00 Peak
3 pp	179.31	-41.18	-35.32	-13.00	-28.18	-5.86 Peak
4	318.20	-54.56	-48.32	-13.00	-41.56	-6.24 Peak
5	388.90	-60.82	-55.10	-13.00	-47.82	-5.72 Peak
6	691.30	-52.41	-53.70	-13.00	-39.41	1.29 Peak
7	1420.00	-61.17	-48.66	-13.00	-48.17	-12.51 Peak



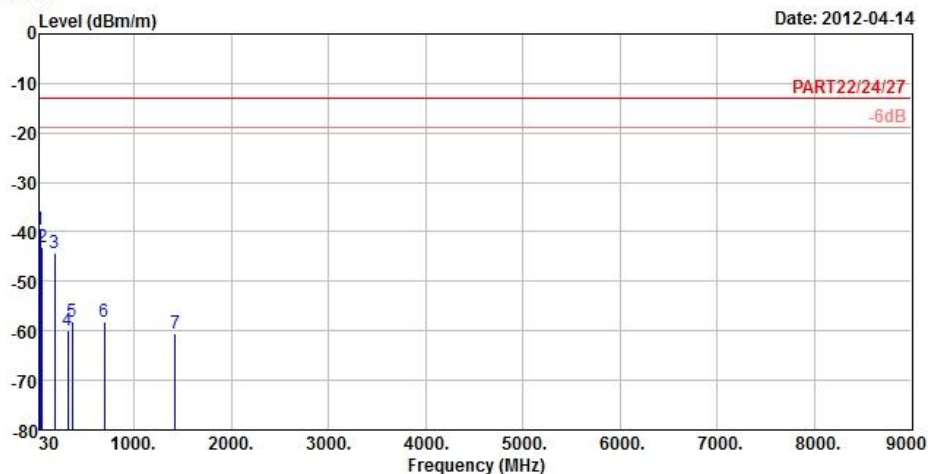
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 10M 16QAM(1,49) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-39.60	-40.67	-13.00	-26.60	1.07 Peak
2	51.87	-43.03	-38.13	-13.00	-30.03	-4.90 Peak
3	179.31	-44.20	-38.34	-13.00	-31.20	-5.86 Peak
4	317.50	-59.98	-53.73	-13.00	-46.98	-6.25 Peak
5	365.80	-58.16	-52.27	-13.00	-45.16	-5.89 Peak
6	690.60	-58.28	-59.56	-13.00	-45.28	1.28 Peak
7	1420.00	-60.61	-48.10	-13.00	-47.61	-12.51 Peak



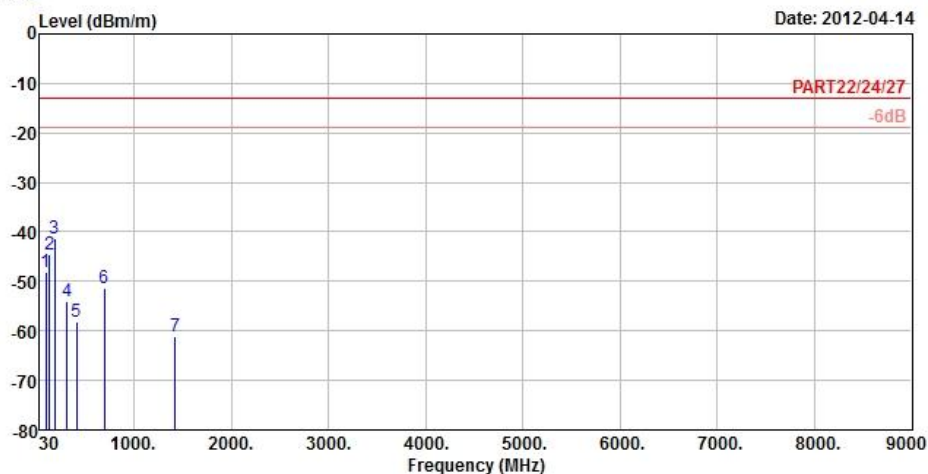
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 17 10M 16QAM(50,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.18	-48.09	-37.56	-13.00	-35.09	-10.53 Peak
2	130.71	-44.48	-36.48	-13.00	-31.48	-8.00 Peak
3 pp	179.31	-41.44	-35.58	-13.00	-28.44	-5.86 Peak
4	311.90	-54.08	-47.79	-13.00	-41.08	-6.29 Peak
5	411.30	-58.08	-52.73	-13.00	-45.08	-5.35 Peak
6	690.60	-51.34	-52.62	-13.00	-38.34	1.28 Peak
7	1420.00	-61.05	-48.54	-13.00	-48.05	-12.51 Peak



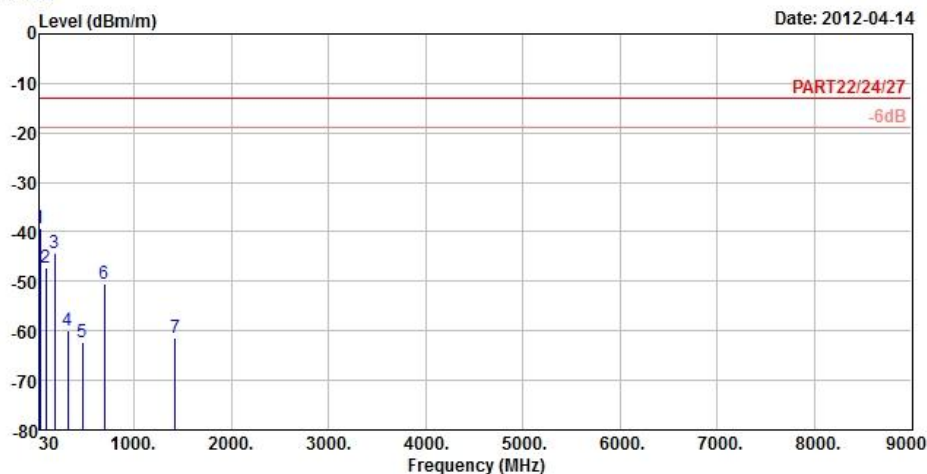
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 17 10M 16QAM(50,0) CH23790 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-39.12	-40.19	-13.00	-26.12	1.07 Peak
2	92.91	-47.20	-36.67	-13.00	-34.20	-10.53 Peak
3	179.58	-44.16	-38.30	-13.00	-31.16	-5.86 Peak
4	314.70	-60.04	-53.77	-13.00	-47.04	-6.27 Peak
5	466.60	-62.43	-58.48	-13.00	-49.43	-3.95 Peak
6	691.30	-50.62	-51.91	-13.00	-37.62	1.29 Peak
7	1420.00	-61.39	-48.88	-13.00	-48.39	-12.51 Peak



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LTE BAND 4

CHANNEL BANDWIDTH: 5MHz / QPSK

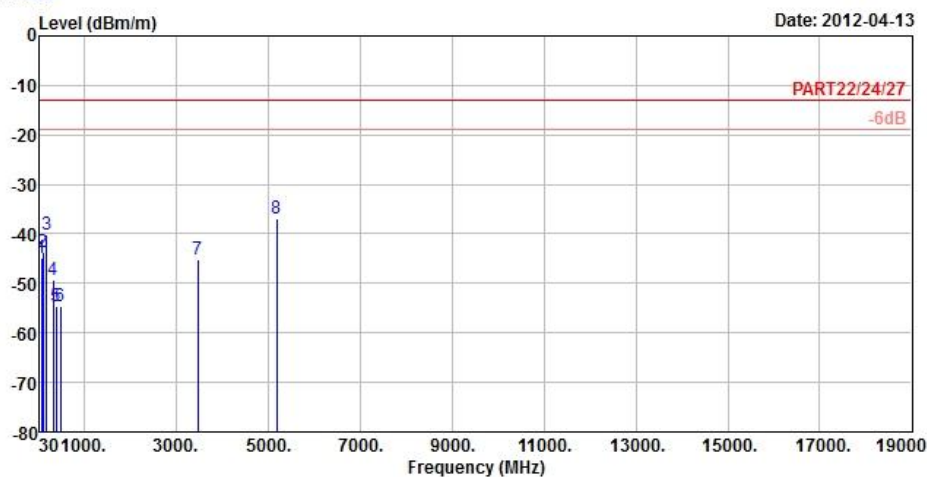


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2012-04-13



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 5M QPSK(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	61.86	-44.80	-38.05	-13.00	-31.80	-6.75	Peak
2	94.53	-43.83	-33.34	-13.00	-30.83	-10.49	Peak
3	177.96	-40.29	-34.25	-13.00	-27.29	-6.04	Peak
4	318.20	-49.25	-43.01	-13.00	-36.25	-6.24	Peak
5	388.20	-54.54	-48.81	-13.00	-41.54	-5.73	Peak
6	472.20	-54.70	-50.90	-13.00	-41.70	-3.80	Peak
7	3460.00	-45.22	-37.59	-13.00	-32.22	-7.63	Peak
8 pp	5190.00	-36.82	-35.74	-13.00	-23.82	-1.08	Peak



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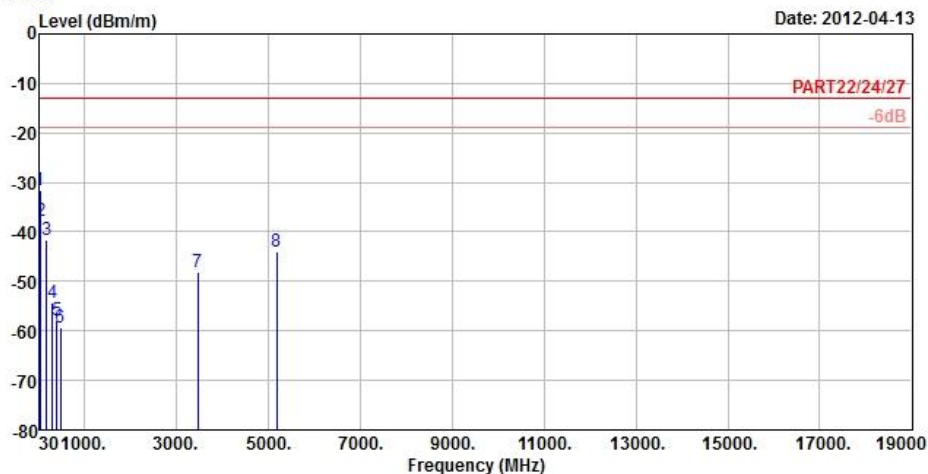


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2012-04-13



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 5M QPSK(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	31.08	-31.56	-31.90	-13.00	-18.56	0.34 Peak
2	55.38	-37.81	-32.46	-13.00	-24.81	-5.35 Peak
3	184.98	-41.68	-35.44	-13.00	-28.68	-6.24 Peak
4	301.40	-54.28	-47.91	-13.00	-41.28	-6.37 Peak
5	398.70	-57.88	-52.23	-13.00	-44.88	-5.65 Peak
6	480.60	-59.39	-55.81	-13.00	-46.39	-3.58 Peak
7	3460.00	-48.08	-40.45	-13.00	-35.08	-7.63 Peak
8	5190.00	-43.90	-42.82	-13.00	-30.90	-1.08 Peak



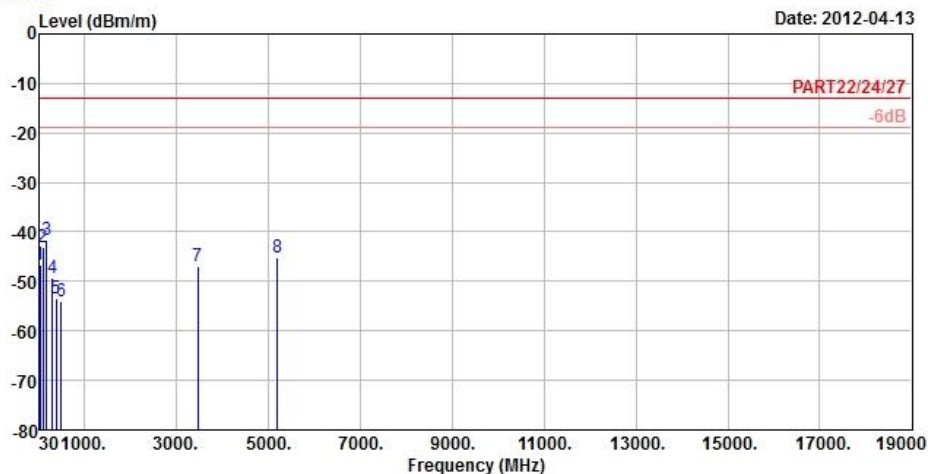
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 5M QPSK(25,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	30.54	-46.53	-46.87	-13.00	-33.53	0.34	Peak
2	93.72	-43.02	-32.51	-13.00	-30.02	-10.51	Peak
3 pp	182.82	-41.52	-35.51	-13.00	-28.52	-6.01	Peak
4	309.80	-49.19	-42.88	-13.00	-36.19	-6.31	Peak
5	380.50	-53.44	-47.66	-13.00	-40.44	-5.78	Peak
6	491.10	-54.00	-50.66	-13.00	-41.00	-3.34	Peak
7	3465.00	-47.02	-39.39	-13.00	-34.02	-7.63	Peak
8	5197.50	-45.03	-43.95	-13.00	-32.03	-1.08	Peak



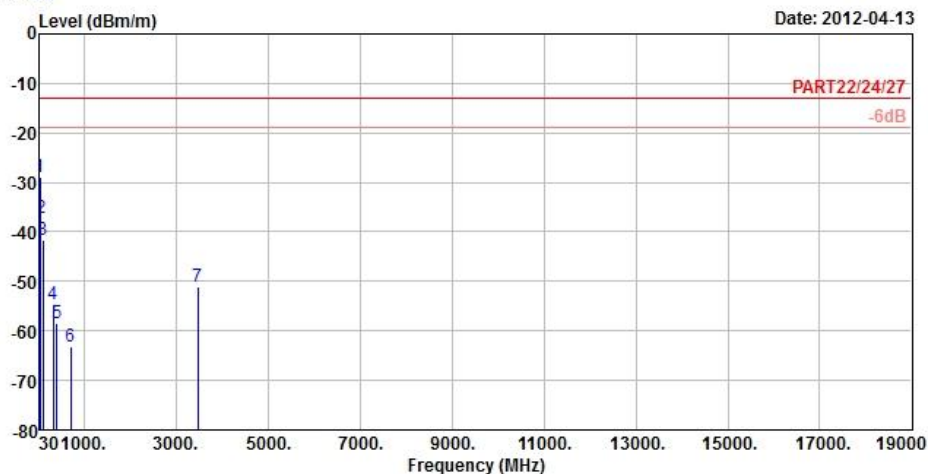
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 5M QPSK(25,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-29.04	-30.11	-13.00	-16.04	1.07 Peak
2	54.84	-37.24	-31.89	-13.00	-24.24	-5.35 Peak
3	93.99	-41.51	-31.00	-13.00	-28.51	-10.51 Peak
4	318.20	-54.58	-48.34	-13.00	-41.58	-6.24 Peak
5	393.10	-58.53	-52.84	-13.00	-45.53	-5.69 Peak
6	694.80	-63.06	-64.41	-13.00	-50.06	1.35 Peak
7	3465.00	-51.00	-43.37	-13.00	-38.00	-7.63 Peak



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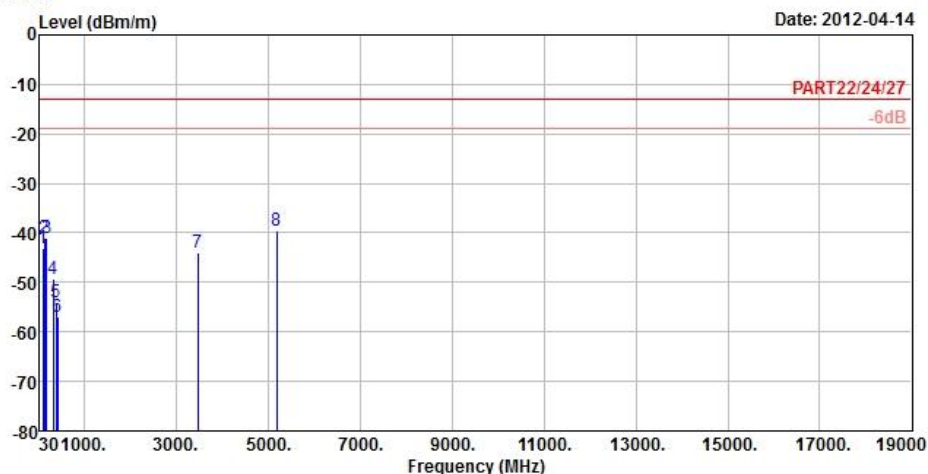
CHANNEL BANDWIDTH: 5MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 5M 16QAM(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.45	-43.11	-32.58	-13.00	-30.11	-10.53 Peak
2	129.90	-40.96	-32.70	-13.00	-27.96	-8.26 Peak
3	182.55	-40.92	-35.02	-13.00	-27.92	-5.90 Peak
4	320.30	-49.39	-43.16	-13.00	-36.39	-6.23 Peak
5	377.70	-54.04	-48.23	-13.00	-41.04	-5.81 Peak
6	419.70	-56.98	-51.85	-13.00	-43.98	-5.13 Peak
7	3460.00	-44.06	-36.43	-13.00	-31.06	-7.63 Peak
8 pp	5190.00	-39.69	-38.61	-13.00	-26.69	-1.08 Peak



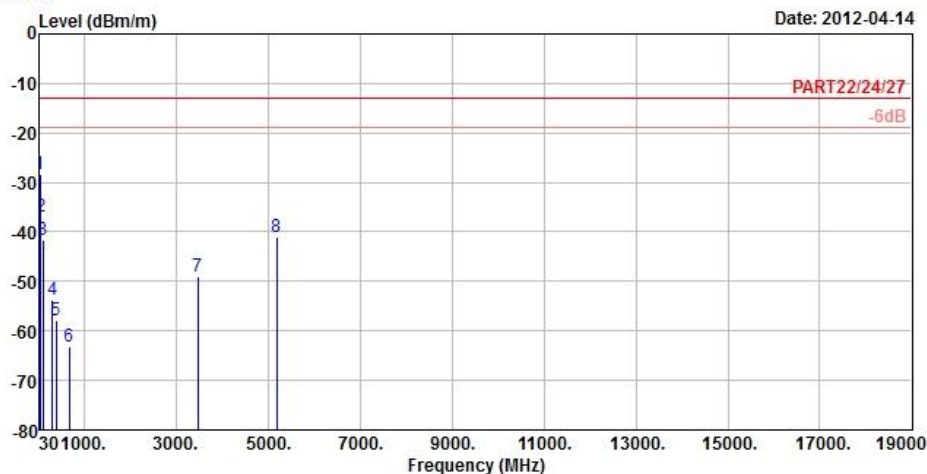
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 5M 16QAM(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-28.47	-29.54	-13.00	-15.47	1.07 Peak
2	54.57	-36.88	-31.68	-13.00	-23.88	-5.20 Peak
3	94.26	-41.69	-31.18	-13.00	-28.69	-10.51 Peak
4	300.70	-53.82	-47.45	-13.00	-40.82	-6.37 Peak
5	389.60	-57.97	-52.26	-13.00	-44.97	-5.71 Peak
6	671.70	-63.08	-64.02	-13.00	-50.08	0.94 Peak
7	3460.00	-48.95	-41.32	-13.00	-35.95	-7.63 Peak
8	5190.00	-40.97	-39.89	-13.00	-27.97	-1.08 Peak



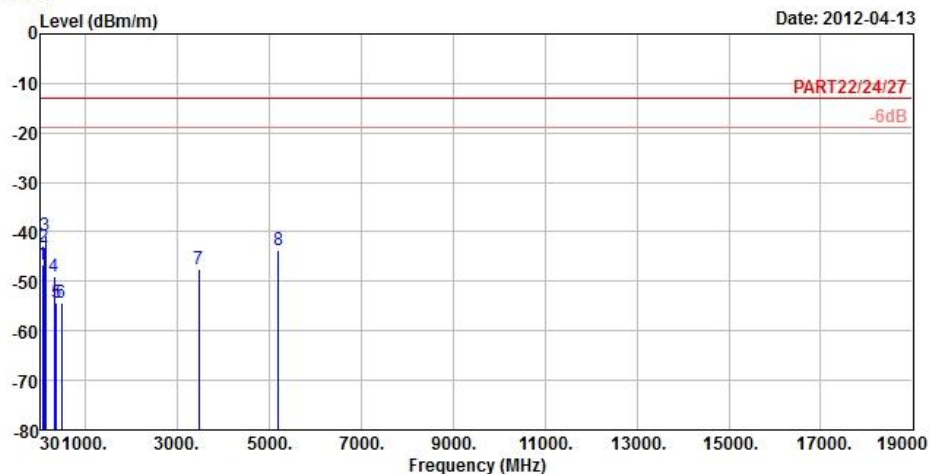
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 5M 16QAM(25,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	60.51	-46.50	-40.40	-13.00	-33.50	-6.10 Peak
2	93.99	-43.08	-32.57	-13.00	-30.08	-10.51 Peak
3 pp	130.17	-40.79	-32.53	-13.00	-27.79	-8.26 Peak
4	320.30	-49.15	-42.92	-13.00	-36.15	-6.23 Peak
5	375.60	-54.21	-48.39	-13.00	-41.21	-5.82 Peak
6	487.60	-54.40	-50.99	-13.00	-41.40	-3.41 Peak
7	3465.00	-47.56	-39.93	-13.00	-34.56	-7.63 Peak
8	5197.50	-43.63	-42.55	-13.00	-30.63	-1.08 Peak



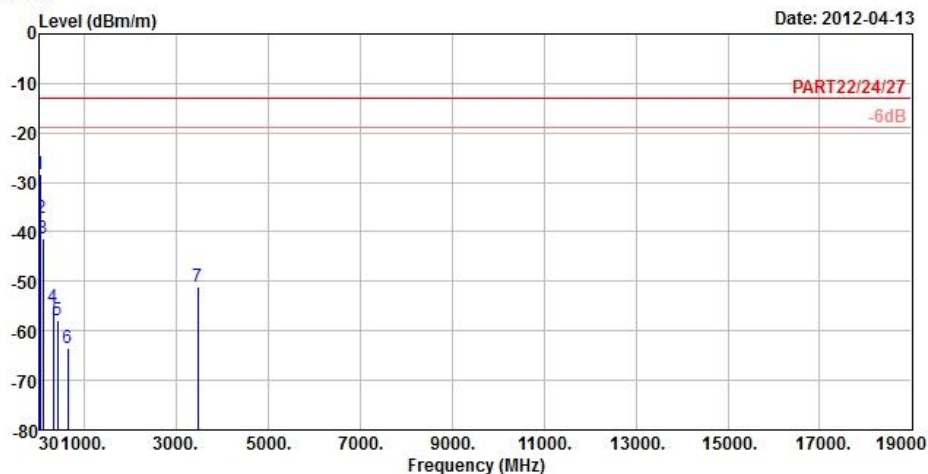
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 5M 16QAM(25,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-28.30	-29.37	-13.00	-15.30	1.07 Peak
2	56.46	-37.10	-31.60	-13.00	-24.10	-5.50 Peak
3	94.26	-41.44	-30.93	-13.00	-28.44	-10.51 Peak
4	318.20	-55.06	-48.82	-13.00	-42.06	-6.24 Peak
5	418.30	-57.74	-52.57	-13.00	-44.74	-5.17 Peak
6	635.30	-63.51	-63.79	-13.00	-50.51	0.28 Peak
7	3465.00	-50.96	-43.33	-13.00	-37.96	-7.63 Peak



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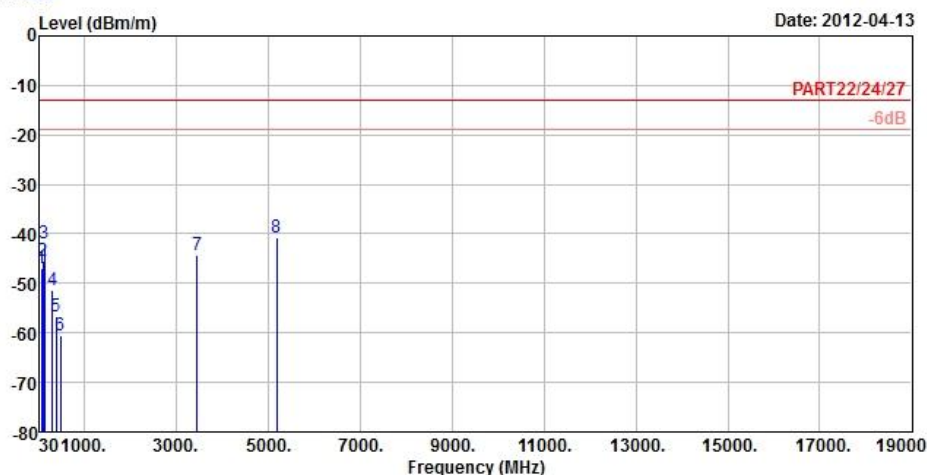
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 10M QPSK(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	61.86	-46.81	-40.06	-13.00	-33.81	-6.75	Peak
2	93.18	-45.43	-34.90	-13.00	-32.43	-10.53	Peak
3	128.55	-41.95	-33.44	-13.00	-28.95	-8.51	Peak
4	312.60	-51.35	-45.06	-13.00	-38.35	-6.29	Peak
5	381.20	-56.64	-50.86	-13.00	-43.64	-5.78	Peak
6	478.50	-60.37	-56.72	-13.00	-47.37	-3.65	Peak
7	3456.00	-44.42	-36.76	-13.00	-31.42	-7.66	Peak
8 pp	5184.00	-40.74	-39.60	-13.00	-27.74	-1.14	Peak



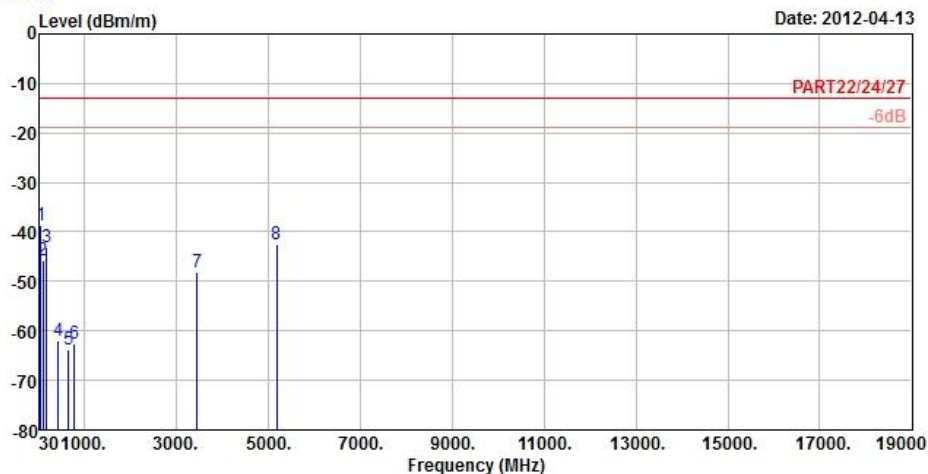
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 10M QPSK(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

			Read	Limit	Over	
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp	55.11	-38.76	-33.41	-13.00	-25.76	-5.35 Peak
2	93.45	-45.72	-35.19	-13.00	-32.72	-10.53 Peak
3	184.71	-43.21	-37.08	-13.00	-30.21	-6.13 Peak
4	428.10	-62.09	-57.16	-13.00	-49.09	-4.93 Peak
5	654.20	-63.89	-64.52	-13.00	-50.89	0.63 Peak
6	776.00	-62.62	-64.58	-13.00	-49.62	1.96 Peak
7	3456.00	-48.03	-40.37	-13.00	-35.03	-7.66 Peak
8	5184.00	-42.54	-41.40	-13.00	-29.54	-1.14 Peak



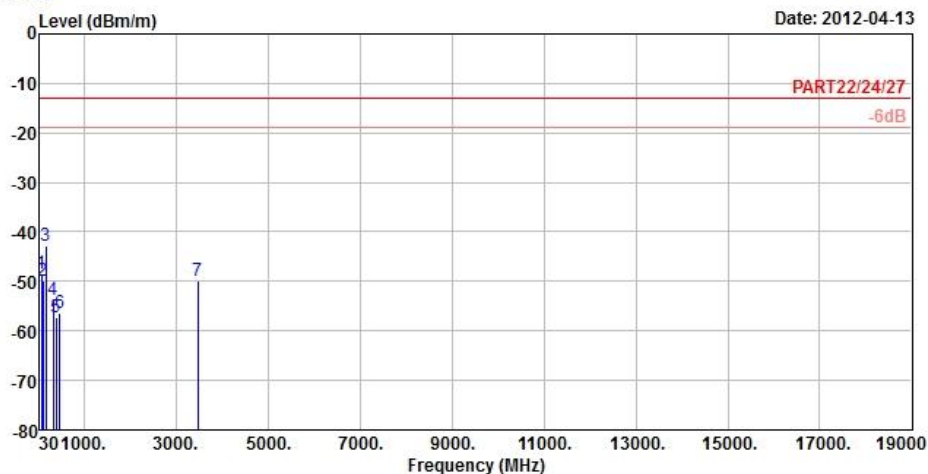
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 10M QPSK(50,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	63.48	-48.38	-40.98	-13.00	-35.38	-7.40 Peak
2	91.83	-49.87	-39.33	-13.00	-36.87	-10.54 Peak
3 pp	158.79	-42.78	-36.28	-13.00	-29.78	-6.50 Peak
4	314.70	-53.64	-47.37	-13.00	-40.64	-6.27 Peak
5	389.60	-57.23	-51.52	-13.00	-44.23	-5.71 Peak
6	466.60	-56.46	-52.51	-13.00	-43.46	-3.95 Peak
7	3465.00	-49.98	-42.35	-13.00	-36.98	-7.63 Peak



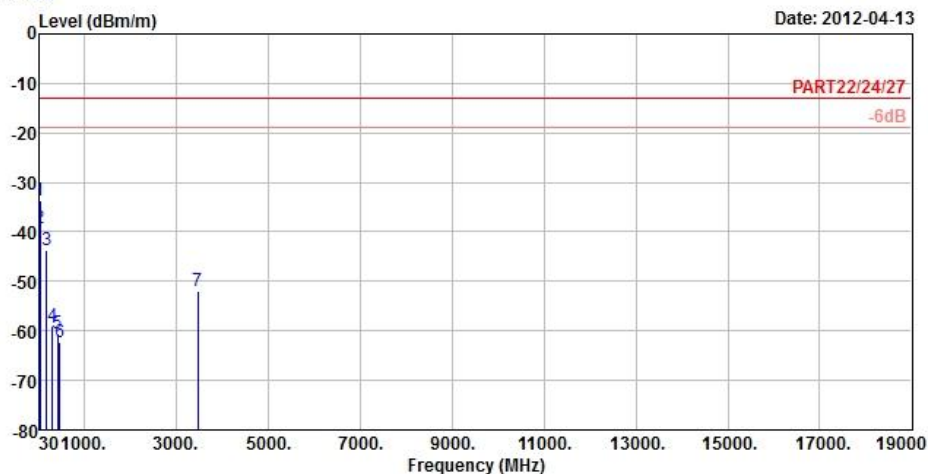
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 10M QPSK(50,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp	30.00	-33.55	-34.62	-13.00	-20.55	1.07 Peak
2	38.64	-39.25	-37.51	-13.00	-26.25	-1.74 Peak
3	182.28	-43.65	-37.75	-13.00	-30.65	-5.90 Peak
4	304.20	-59.03	-52.69	-13.00	-46.03	-6.34 Peak
5	411.30	-60.59	-55.24	-13.00	-47.59	-5.35 Peak
6	468.00	-62.41	-58.51	-13.00	-49.41	-3.90 Peak
7	3465.00	-52.03	-44.40	-13.00	-39.03	-7.63 Peak



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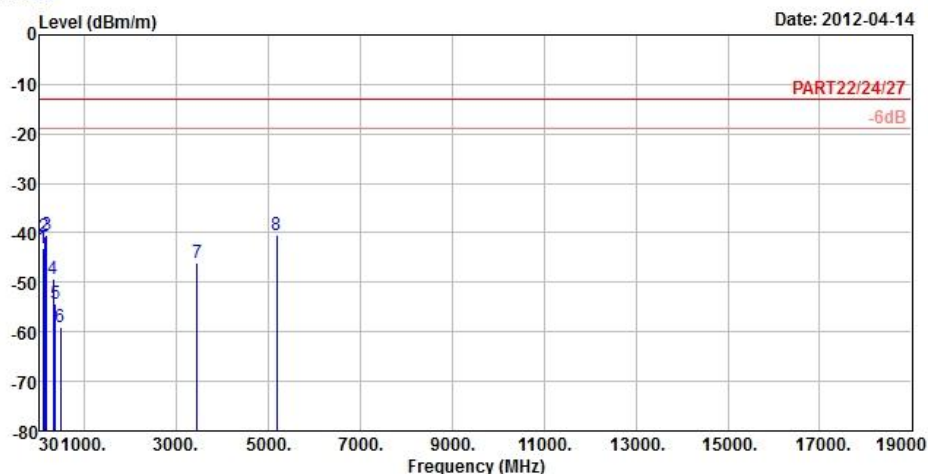
CHANNEL BANDWIDTH: 10MHz / 16QAM



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 10M 16QAM(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.72	-43.22	-32.71	-13.00	-30.22	-10.51 Peak
2	129.90	-40.74	-32.48	-13.00	-27.74	-8.26 Peak
3	181.47	-40.57	-34.79	-13.00	-27.57	-5.78 Peak
4	317.50	-49.38	-43.13	-13.00	-36.38	-6.25 Peak
5	365.10	-54.17	-48.27	-13.00	-41.17	-5.90 Peak
6	472.20	-59.13	-55.33	-13.00	-46.13	-3.80 Peak
7	3456.00	-46.14	-38.48	-13.00	-33.14	-7.66 Peak
8 pp	5184.00	-40.55	-39.41	-13.00	-27.55	-1.14 Peak



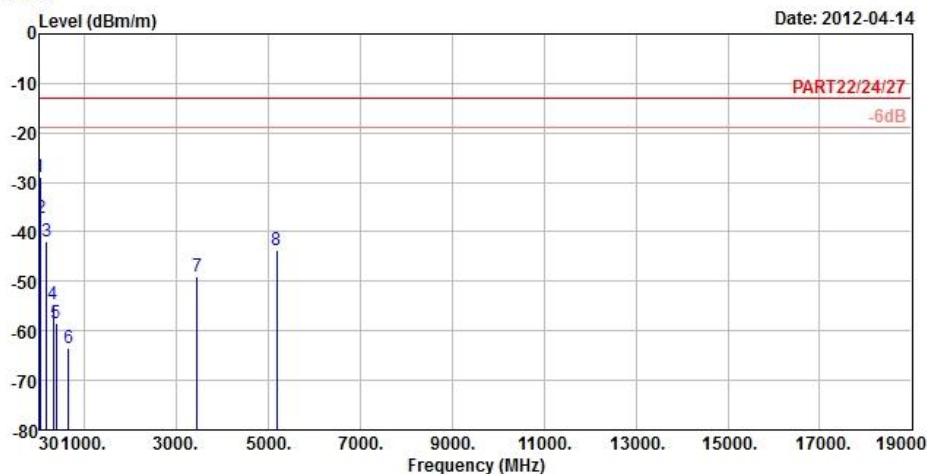
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 10M 16QAM(1,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-28.91	-29.98	-13.00	-15.91	1.07 Peak
2	56.19	-37.15	-31.65	-13.00	-24.15	-5.50 Peak
3	179.85	-41.85	-35.99	-13.00	-28.85	-5.86 Peak
4	318.90	-54.75	-48.51	-13.00	-41.75	-6.24 Peak
5	392.40	-58.56	-52.87	-13.00	-45.56	-5.69 Peak
6	651.40	-63.34	-63.92	-13.00	-50.34	0.58 Peak
7	3456.00	-49.04	-41.38	-13.00	-36.04	-7.66 Peak
8	5184.00	-43.59	-42.45	-13.00	-30.59	-1.14 Peak



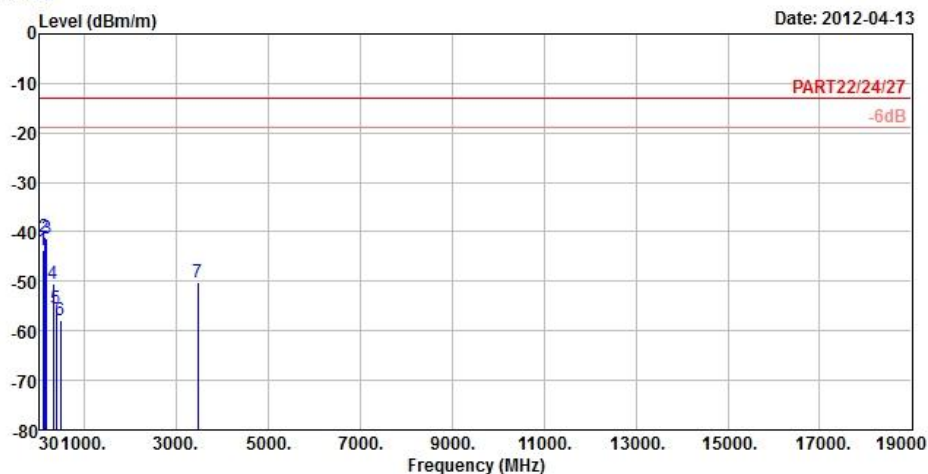
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 HORIZONTAL
Brand/Model: SKU3
Remark : LTE Band 4 10M 16QAM(50,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	93.72	-43.68	-33.17	-13.00	-30.68	-10.51 Peak
2 pp	129.90	-41.01	-32.75	-13.00	-28.01	-8.26 Peak
3	179.58	-41.40	-35.54	-13.00	-28.40	-5.86 Peak
4	314.00	-50.36	-44.09	-13.00	-37.36	-6.27 Peak
5	379.10	-55.47	-49.68	-13.00	-42.47	-5.79 Peak
6	472.90	-57.78	-54.00	-13.00	-44.78	-3.78 Peak
7	3465.00	-50.31	-42.68	-13.00	-37.31	-7.63 Peak



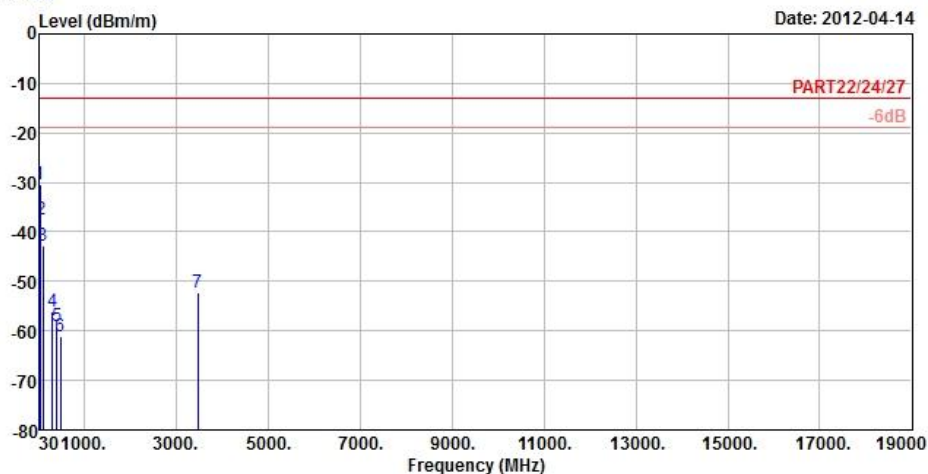
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART22/24/27 3m EIRP_RSE_1G~19G_3 VERTICAL
Brand/Model: SKU3
Remark : LTE Band 4 10M 16QAM(50,0) CH20175 Link
Tested by : Kay Wu
Temperature : 25°C
Humidity : 65%
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1 pp	30.00	-30.36	-31.43	-13.00	-17.36	1.07 Peak
2	55.92	-37.43	-31.93	-13.00	-24.43	-5.50 Peak
3	93.45	-42.89	-32.36	-13.00	-29.89	-10.53 Peak
4	302.10	-55.97	-49.61	-13.00	-42.97	-6.36 Peak
5	405.00	-58.99	-53.50	-13.00	-45.99	-5.49 Peak
6	482.00	-61.02	-57.46	-13.00	-48.02	-3.56 Peak
7	3465.00	-52.14	-44.51	-13.00	-39.14	-7.63 Peak

5 INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

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Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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

6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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