

FCC Test Report

(PART 27)

Report No.: RF190606E05-2

FCC ID: NKR-LVSK-P1

Test Model: LVP1

Received Date: Jun. 06, 2019

Test Date: Jul. 05, 2019 ~ Jul. 18, 2019

Issued Date: Jul. 18, 2019

Applicant: Wistron NeWeb Corporation

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

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

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



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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty	6
2.2 Test Site and Instruments	7
3 General Information	8
3.1 General Description of EUT	8
3.2 Configuration of System under Test	9
3.2.1 Description of Support Units	9
3.3 Test Mode Applicability and Tested Channel Detail	10
3.4 EUT Operating Conditions	11
3.5 General Description of Applied Standards	11
4 Test Types and Results	12
4.1 Output Power Measurement	12
4.1.1 Limits of Output Power Measurement	12
4.1.2 Test Procedures	12
4.1.3 Test Setup	13
4.1.4 Test Results	14
4.2 Radiated Emission Measurement	21
4.2.1 Limits of Radiated Emission Measurement	21
4.2.2 Test Procedure	21
4.2.3 Deviation from Test Standard	21
4.2.4 Test Setup	22
4.2.5 Test Results	23
5 Pictures of Test Arrangements	49
Appendix – Information of the Testing Laboratories	50

Release Control Record

Issue No.	Description	Date Issued
RF190606E05-2	Original Release	Jul. 18, 2019

1 Certificate of Conformity

Product: Home Phone Base

Brand: WNC

Test Model: LVP1

Sample Status: Engineering Sample

Applicant: Wistron NeWeb Corporation

Test Date: Jul. 05, 2019 ~ Jul. 18, 2019

Standards: FCC Part 27, Subpart F, L

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

Prepared by : Rona Chen, **Date:** Jul. 18, 2019
Rona Chen / Specialist

Approved by : Dylan Chiou, **Date:** Jul. 18, 2019
Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2 (LTE 4)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement.
2.1055 27.54	Frequency Stability	Pass	Meet the requirement of limit.
2.1049	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 -27.34 dB at 87.23 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 13)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(b)(10)	Maximum Peak Output Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	Pass	Meet the requirement.
2.1055 27.54	Frequency Stability	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
---	Peak to Average Ratio	Pass	Meet the requirement of limit.
27.53(c)(2)(4)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(c)(2)&(f)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(c)(2)&(f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -18.39 dB at 1564.00 MHz.

Note:

1. This is a partial report. Only test item of Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RF180504E08-2 for module (Brand: Wistron NeWeb Corporation, Model: IMG2)
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) ($\pm$)
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.0400 dB
	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	N9038A	MY51210203	Mar. 18, 2019	Mar. 17, 2020
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 13, 2018	Dec. 12, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 15, 2019	Apr. 14, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSW26	102023	Oct. 11, 2018	Oct. 10, 2019
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 25, 2018	Nov. 24, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Nov. 23, 2018	Nov. 22, 2019
Horn Antenna SCHWARZBECK	BBHA 9170	148	Nov. 25, 2018	Nov. 24, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 19, 2018	Nov. 18, 2019
Preamplifier EMCI	EMC 012645	980115	Oct. 12, 2018	Oct. 11, 2019
Preamplifier EMCI	EMC 330H	980112	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-800 0&3000	140811+170717	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1 000(140807)	Oct. 12, 2018	Oct. 11, 2019
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 12, 2018	Oct. 11, 2019
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jul. 01, 2019	Jun. 30, 2020
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 16, 2017	Aug. 15, 2019
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 05, 2018	Sep. 04, 2019
DC Power Supply Topward	33010D	807748	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.

3 General Information

3.1 General Description of EUT

Product	Home Phone Base	
Brand	WNC	
Test Model	LVP1	
Status of EUT	Engineering Sample	
Power Supply Rating	5.0 Vdc (Adapter) 3.6 Vdc (Li-ion battery)	
Modulation Type	LTE	QPSK, 16QAM
Frequency Range	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	1710.7 ~ 1754.3 MHz
	LTE Band 4 (Channel Bandwidth: 3 MHz)	1711.5 ~ 1753.5 MHz
	LTE Band 4 (Channel Bandwidth: 5 MHz)	1712.5 ~ 1752.5 MHz
	LTE Band 4 (Channel Bandwidth: 10 MHz)	1715.0 ~ 1750.0 MHz
	LTE Band 4 (Channel Bandwidth: 15 MHz)	1717.5 ~ 1747.5 MHz
	LTE Band 4 (Channel Bandwidth: 20 MHz)	1720.0 ~ 1745.0 MHz
	LTE Band 13 (Channel Bandwidth: 5 MHz)	779.5 ~ 784.5 MHz
	LTE Band 13 (Channel Bandwidth: 10 MHz)	782.0 MHz
Max. ERP Power	LTE Band 13 (Channel Bandwidth: 5 MHz)	199.99 mW
	LTE Band 13 (Channel Bandwidth: 10 MHz)	214.78 mW
Max. EIRP Power	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	279.90 mW
	LTE Band 4 (Channel Bandwidth: 3 MHz)	295.80 mW
	LTE Band 4 (Channel Bandwidth: 5 MHz)	312.61 mW
	LTE Band 4 (Channel Bandwidth: 10 MHz)	331.89 mW
	LTE Band 4 (Channel Bandwidth: 15 MHz)	347.54 mW
	LTE Band 4 (Channel Bandwidth: 20 MHz)	369.83 mW
Antenna Type	PIFA Antenna	
Antenna Gain	LTE Band 4	2 dBi (Main) / 2.84 dBi (Aux.)
	LTE Band 13	1.25 dBi (Main) / 1.16 dBi (Aux.)
Accessory Device	Refer to Note as below	
Data Cable Supplied	1m shielded USB cable without core	

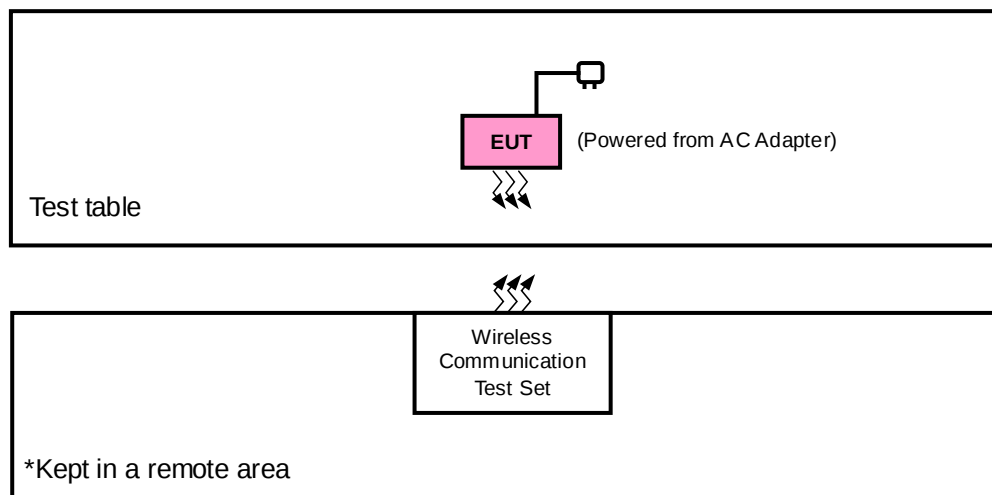
Note:

1. The module (Brand: Wistron NeWeb Corporation, FCC ID: NKR-IMG2, Model: IMG2) was installed in EUT. The EUT has different antenna with module.
2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	Lucent Trans	1A52-US0502	I/P: 100-240 Vac, 50-60 Hz, 0.4 A O/P: 5.0 Vdc, 2 A
Battery	WNC	BTY-LRV5000	3.6 Vdc, 2330 mAh

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

3.2 Configuration of System under Test



3.2.1 Description of Support Units

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

3.3 Test Mode Applicability and Tested Channel Detail

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

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

Band	ERP / EIRP	Radiated Emission
LTE Band 4	Z-plane	X-plane
LTE Band 13	X-plane	X-plane

LTE Band 4

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10 MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

LTE Band 13

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	23205 to 23255	23205, 23230, 23255	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23230	23230	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	23205 to 23255	23205, 23230, 23255	5 MHz	QPSK	1 RB / 0 RB Offset
		23230	23230	10 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP / EIRP	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang

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 27

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 746-757 MHz, 776-788 MHz and 805-806 MHz band are limited to 3 watts ERP

Portable stations (hand-held device) operating in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

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 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

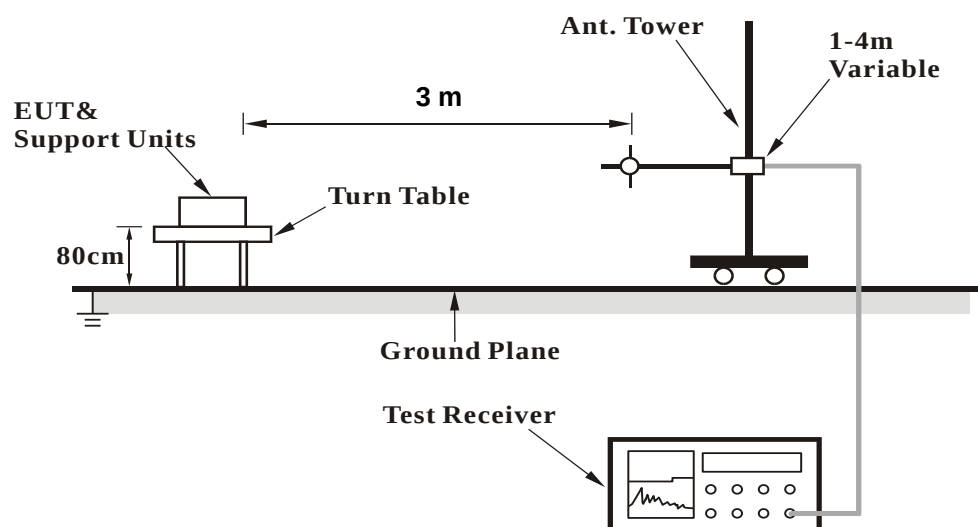
Conducted Power Measurement:

- 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.

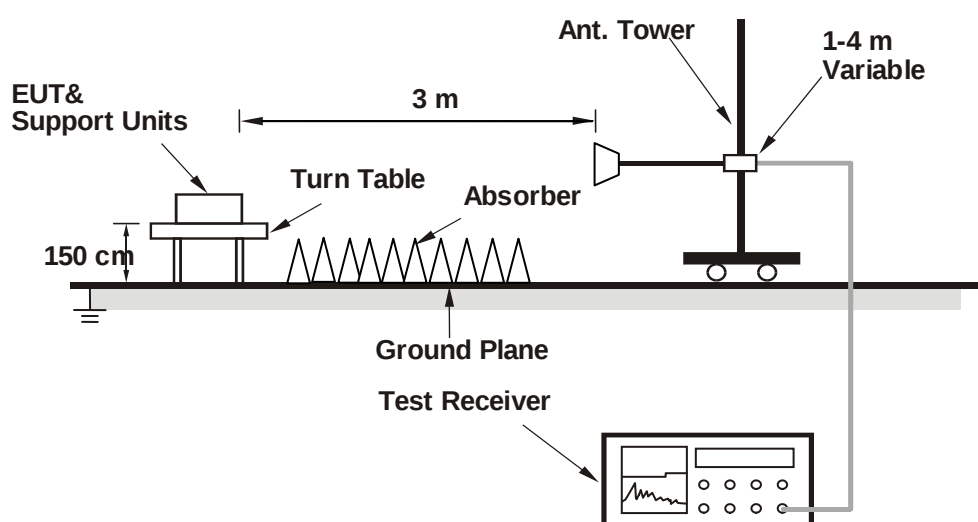
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

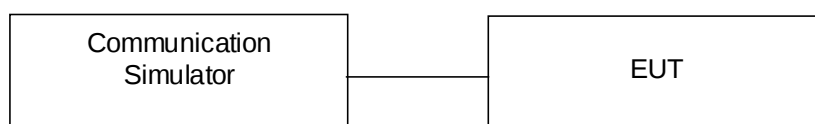


<Radiated Emission above 1 GHz>



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

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 19957	Mid Ch 20175	High Ch 20393		Low Ch 19957	Mid Ch 20175	High Ch 20393	
			1710.7 MHz	1732.5 MHz	1754.3 MHz		1710.7 MHz	1732.5 MHz	1754.3 MHz	
4 / 1.4M	1	0	23.20	23.70	23.28	0	22.20	22.57	22.28	1
	1	2	23.10	23.45	23.14	0	22.06	22.44	22.11	1
	1	5	22.97	23.31	22.94	0	21.89	22.28	21.80	1
	3	0	23.22	23.65	23.28	0	22.18	22.54	22.18	1
	3	1	23.12	23.44	23.14	0	22.04	22.43	22.14	1
	3	3	22.93	23.26	22.90	0	21.90	22.27	21.81	1
	6	0	22.11	22.44	22.13	1	21.08	21.39	21.01	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 19965	Mid Ch 20175	High Ch 20385		Low Ch 19965	Mid Ch 20175	High Ch 20385	
			1711.5 MHz	1732.5 MHz	1753.5 MHz		1711.5 MHz	1732.5 MHz	1753.5 MHz	
4 / 3M	1	0	23.21	23.75	23.37	0	21.94	22.34	21.99	1
	1	7	23.14	23.51	23.22	0	22.08	22.23	22.15	1
	1	14	22.96	23.45	23.01	0	21.91	22.21	21.98	1
	8	0	22.13	22.49	22.27	1	20.96	21.50	21.14	2
	8	3	21.97	22.35	22.08	1	20.88	21.37	20.96	2
	8	7	21.88	22.23	22.02	1	20.78	21.29	20.96	2
	15	0	22.13	22.48	22.21	1	21.04	21.50	21.11	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 19975	Mid Ch 20175	High Ch 20375		Low CH 19975	Mid CH 20175	High CH 20375	
			1712.5 MHz	1732.5 MHz	1752.5 MHz		1712.5 MHz	1732.5 MHz	1752.5 MHz	
4 / 5M	1	0	23.32	23.72	23.39	0	22.14	22.43	22.17	1
	1	12	23.23	23.57	23.33	0	22.10	22.41	22.31	1
	1	24	22.98	23.46	23.17	0	21.84	22.37	22.14	1
	12	0	22.15	22.58	22.32	1	21.08	21.39	21.22	2
	12	6	21.99	22.41	22.12	1	21.02	21.40	21.01	2
	12	13	21.87	22.38	22.00	1	20.88	21.27	20.94	2
	25	0	22.10	22.54	22.22	1	21.06	21.50	21.19	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20000	Mid Ch 20175	High Ch 20350		Low Ch 20000	Mid Ch 20175	High Ch 20350	
			1715.0 MHz	1732.5 MHz	1750.0 MHz		1715.0 MHz	1732.5 MHz	1750.0 MHz	
4 / 10M	1	0	23.38	23.78	23.42	0	22.11	22.59	22.29	1
	1	24	23.30	23.63	23.30	0	22.24	22.51	22.29	1
	1	49	23.02	23.53	23.12	0	22.03	22.42	22.10	1
	25	0	22.25	22.65	22.30	1	21.30	21.53	21.25	2
	25	12	21.97	22.45	22.12	1	21.01	21.42	21.11	2
	25	25	21.97	22.40	22.09	1	20.94	21.36	20.94	2
	50	0	22.25	22.61	22.35	1	21.24	21.63	21.26	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20025	Mid Ch 20175	High Ch 20325		Low Ch 20025	Mid Ch 20175	High Ch 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
4 / 15M	1	0	23.42	23.81	23.53	0	22.25	22.61	22.39	1
	1	37	23.34	23.69	23.41	0	22.24	22.55	22.38	1
	1	74	23.14	23.50	23.27	0	22.12	22.56	22.27	1
	36	0	22.33	22.71	22.40	1	21.07	21.66	21.38	2
	36	19	22.13	22.49	22.17	1	21.06	21.56	21.14	2
	36	39	22.04	22.45	22.11	1	20.89	21.35	21.07	2
	75	0	22.23	22.64	22.30	1	21.14	21.58	21.25	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20050	Mid Ch 20175	High Ch 20300		Low Ch 20050	Mid Ch 20175	High Ch 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
4 / 20M	1	0	23.49	23.89	23.57	0	22.46	22.82	22.55	1
	1	50	23.40	23.79	23.45	0	22.36	22.73	22.42	1
	1	99	23.18	23.63	23.20	0	22.19	22.45	22.11	1
	50	0	22.34	22.79	22.41	1	21.25	21.62	21.40	2
	50	25	22.12	22.60	22.22	1	21.15	21.50	21.14	2
	50	50	22.08	22.47	22.10	1	21.06	21.51	21.13	2
	100	0	22.38	22.68	22.41	1	21.25	21.70	21.38	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 23205	Mid Ch 23230	High Ch 23255		Low Ch 23205	Mid Ch 23230	High Ch 23255	
			779.5 MHz	782.0 MHz	784.5 MHz		779.5 MHz	782.0 MHz	784.5 MHz	
13 / 5M	1	0	24.71	24.81	23.79	0	23.54	24.04	23.24	1
	1	12	24.78	24.73	23.71	0	23.49	23.58	21.90	1
	1	24	24.54	24.56	23.56	0	23.38	23.39	21.56	1
	12	0	23.41	23.32	22.71	1	23.44	23.88	22.53	2
	12	6	23.39	23.45	22.75	1	23.33	23.23	21.85	2
	12	13	23.34	23.52	22.65	1	23.42	22.18	21.41	2
	25	0	23.29	23.51	22.69	1	22.33	21.69	20.47	2

Band / BW	RB Size	RB Offset	QPSK	3GPP MPR (dB)	16QAM	3GPP MPR (dB)
			Mid Ch 23230		Mid Ch 23230	
			782.0 MHz		782.0 MHz	
13 / 10M	1	0	23.65	0	23.03	1
	1	24	23.61	0	22.93	1
	1	49	23.45	0	22.81	1
	25	0	22.61	1	21.81	2
	25	12	22.59	1	21.74	2
	25	25	22.41	1	21.56	2
	50	0	22.34	1	21.37	2

ERP Power (dBm)

LTE Band 13							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	23205	779.5	-7.25	32.24	22.84	192.31	H
	23230	782.0	-7.01	32.17	23.01	199.99	
	23255	784.5	-7.04	32.11	22.92	195.88	
	23205	779.5	-14.21	32.43	16.07	40.46	V
	23230	782.0	-14.06	32.42	16.21	41.78	
	23255	784.5	-14.17	32.46	16.14	41.11	
Channel Bandwidth: 5 MHz / 16QAM							
X	23205	779.5	-8.30	32.24	21.79	151.01	H
	23230	782.0	-8.10	32.17	21.92	155.60	
	23255	784.5	-8.16	32.11	21.80	151.36	
	23205	779.5	-15.42	32.43	14.86	30.62	V
	23230	782.0	-15.08	32.42	15.19	33.04	
	23255	784.5	-15.18	32.46	15.13	32.58	

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

LTE Band 13							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
X	23230	782.0	-6.70	32.17	23.32	214.78	H
	23230	782.0	-13.78	32.42	16.49	44.57	V
Channel Bandwidth: 10 MHz / 16QAM							
X	23230	782.0	-7.77	32.17	22.25	167.88	H
	23230	782.0	-14.96	32.42	15.31	33.96	V

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

EIRP Power (dBm)

LTE Band 4							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	19957	1710.7	-20.21	36.45	16.24	42.07	H
	20175	1732.5	-20.52	36.80	16.28	42.46	
	20393	1754.3	-20.77	36.94	16.17	41.40	
	19957	1710.7	-12.90	37.28	24.38	274.16	V
	20175	1732.5	-13.16	37.63	24.47	279.90	
	20393	1754.3	-13.63	37.64	24.01	251.77	
Channel Bandwidth: 1.4 MHz / 16QAM							
Z	19957	1710.7	-21.18	36.45	15.27	33.65	H
	20175	1732.5	-21.46	36.80	15.34	34.18	
	20393	1754.3	-21.92	36.94	15.02	31.77	
	19957	1710.7	-14.06	37.28	23.22	209.89	V
	20175	1732.5	-14.27	37.63	23.36	216.77	
	20393	1754.3	-14.65	37.64	22.99	199.07	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 4							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	19965	1711.5	-19.88	36.45	16.57	45.39	H
	20175	1732.5	-20.17	36.80	16.63	46.03	
	20385	1753.5	-20.47	36.94	16.47	44.36	
	19965	1711.5	-12.63	37.28	24.65	291.74	V
	20175	1732.5	-12.92	37.63	24.71	295.80	
	20385	1753.5	-13.38	37.64	24.26	266.69	
Channel Bandwidth: 3 MHz / 16QAM							
Z	19965	1711.5	-20.86	36.45	15.59	36.22	H
	20175	1732.5	-21.19	36.80	15.61	36.39	
	20385	1753.5	-21.66	36.94	15.28	33.73	
	19965	1711.5	-13.73	37.28	23.55	226.46	V
	20175	1732.5	-13.99	37.63	23.64	231.21	
	20385	1753.5	-14.35	37.64	23.29	213.30	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 4							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	19975	1712.5	-19.58	36.45	16.87	48.64	H
	20175	1732.5	-19.83	36.80	16.97	49.77	
	20375	1752.5	-20.19	36.94	16.75	47.32	
	19975	1712.5	-12.42	37.28	24.86	306.20	V
	20175	1732.5	-12.68	37.63	24.95	312.61	
	20375	1752.5	-13.05	37.64	24.59	287.74	
Channel Bandwidth: 5 MHz / 16QAM							
Z	19975	1712.5	-20.62	36.45	15.83	38.28	H
	20175	1732.5	-20.89	36.80	15.91	38.99	
	20375	1752.5	-21.35	36.94	15.59	36.22	
	19975	1712.5	-13.50	37.28	23.78	238.78	V
	20175	1732.5	-13.78	37.63	23.85	242.66	
	20375	1752.5	-14.04	37.64	23.60	229.09	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 4							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	20000	1715.0	-19.52	36.64	17.12	51.52	H
	20175	1732.5	-19.50	36.80	17.30	53.70	
	20350	1750.0	-19.82	36.80	16.98	49.89	
	20000	1715.0	-12.35	37.44	25.09	322.85	V
	20175	1732.5	-12.42	37.63	25.21	331.89	
	20350	1750.0	-12.72	37.64	24.92	310.46	
Channel Bandwidth: 10 MHz / 16QAM							
Z	20000	1715.0	-20.51	36.64	16.13	41.02	H
	20175	1732.5	-20.58	36.80	16.22	41.88	
	20350	1750.0	-20.90	36.80	15.90	38.90	
	20000	1715.0	-13.45	37.44	23.99	250.61	V
	20175	1732.5	-13.51	37.63	24.12	258.23	
	20350	1750.0	-13.84	37.64	23.80	239.88	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 4							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	20025	1717.5	-19.10	36.45	17.35	54.33	H
	20175	1732.5	-19.28	36.80	17.52	56.49	
	20325	1747.5	-19.66	36.94	17.28	53.46	
	20025	1717.5	-11.91	37.28	25.37	344.35	V
	20175	1732.5	-12.22	37.63	25.41	347.54	
	20325	1747.5	-12.39	37.64	25.25	334.97	
Channel Bandwidth: 15 MHz / 16QAM							
Z	20025	1717.5	-20.09	36.45	16.36	43.25	H
	20175	1732.5	-20.29	36.80	16.51	44.77	
	20325	1747.5	-20.72	36.94	16.22	41.88	
	20025	1717.5	-13.03	37.28	24.25	266.07	V
	20175	1732.5	-13.23	37.63	24.40	275.42	
	20325	1747.5	-13.62	37.64	24.02	252.35	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

LTE Band 4							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Z	20050	1720.0	-18.79	36.45	17.66	58.34	H
	20175	1732.5	-19.05	36.80	17.75	59.57	
	20300	1745.0	-19.37	36.94	17.57	57.15	
	20050	1720.0	-11.69	37.28	25.59	362.24	V
	20175	1732.5	-11.95	37.63	25.68	369.83	
	20300	1745.0	-12.16	37.64	25.48	353.18	
Channel Bandwidth: 20 MHz / 16QAM							
Z	20050	1720.0	-34.78	36.45	16.70	46.77	H
	20175	1732.5	-19.98	36.80	16.82	48.08	
	20300	1745.0	-20.39	36.94	16.55	45.19	
	20050	1720.0	-12.77	37.28	24.51	282.49	V
	20175	1732.5	-12.93	37.63	24.70	295.12	
	20300	1745.0	-13.35	37.64	24.29	268.53	

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

- a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.
- b. For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

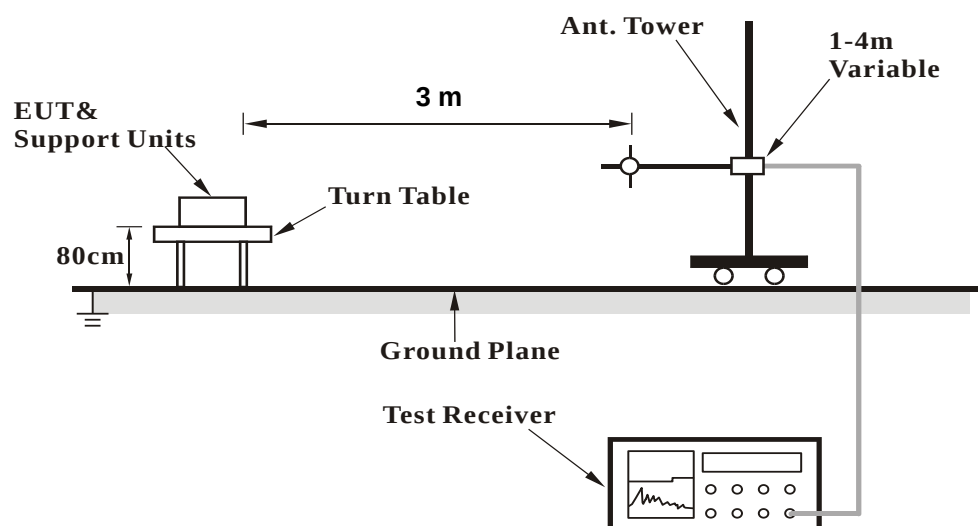
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.2.3 Deviation from Test Standard

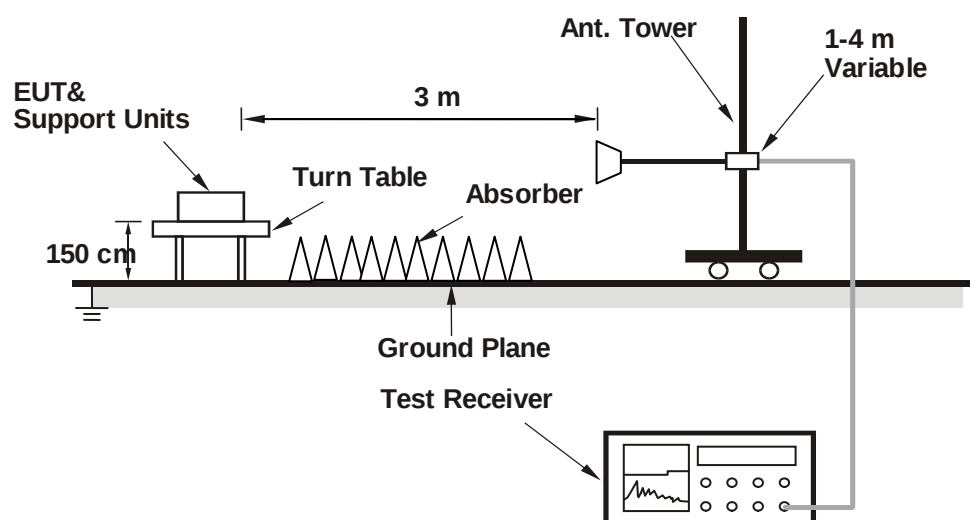
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

LTE Band 4

Channel Bandwidth: 1.4 MHz / QPSK

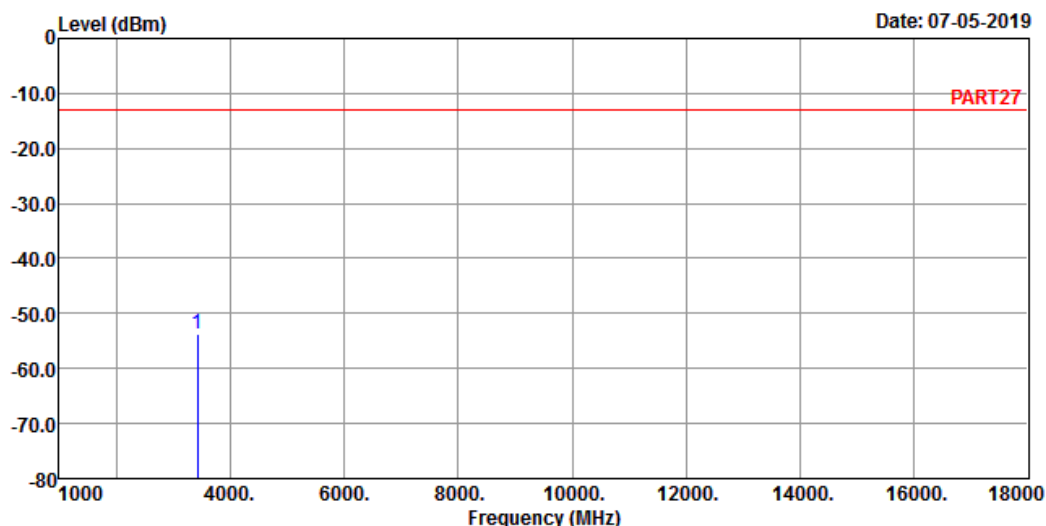
Low Channel



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A D T

Data: 3



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : LTE Band 4 QPSK_1.4M Link_L-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

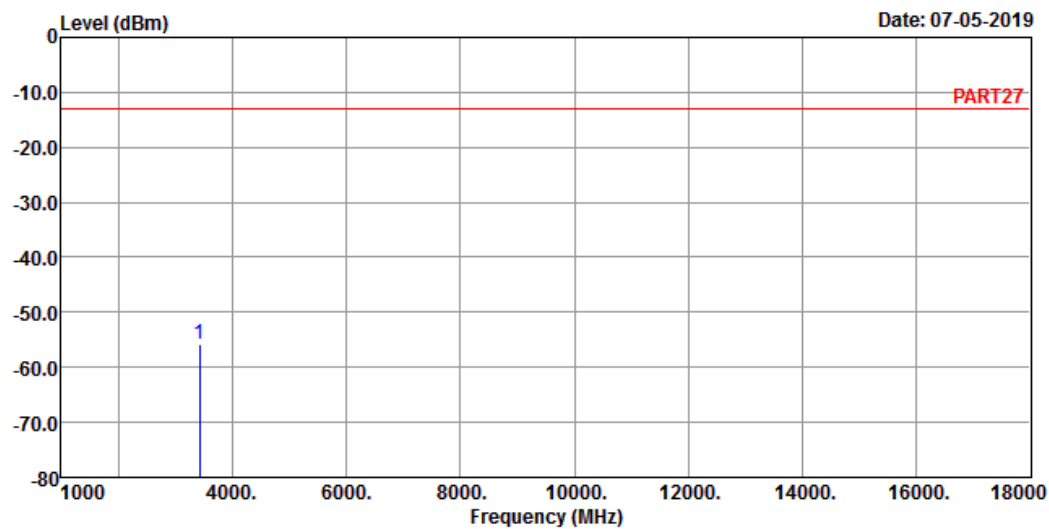
1 pp 3421.40 -53.86 -45.52 -13.00 -8.34 -40.86 Peak



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A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_1.4M Link_L-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3421.40	-55.67	-47.33	-13.00	-8.34	-42.67	Peak

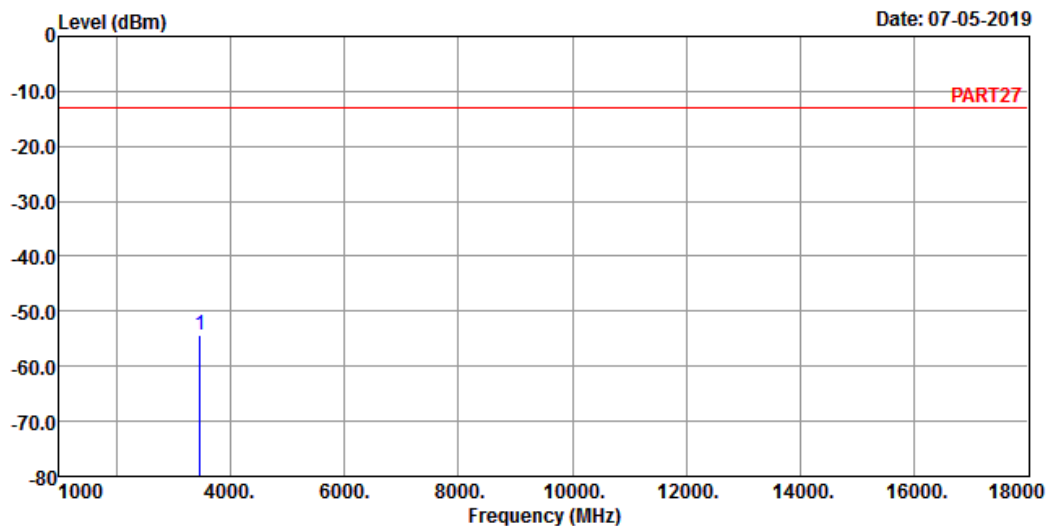
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

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Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_1.4M Link_M-CH
Tested by: Getaz Yang

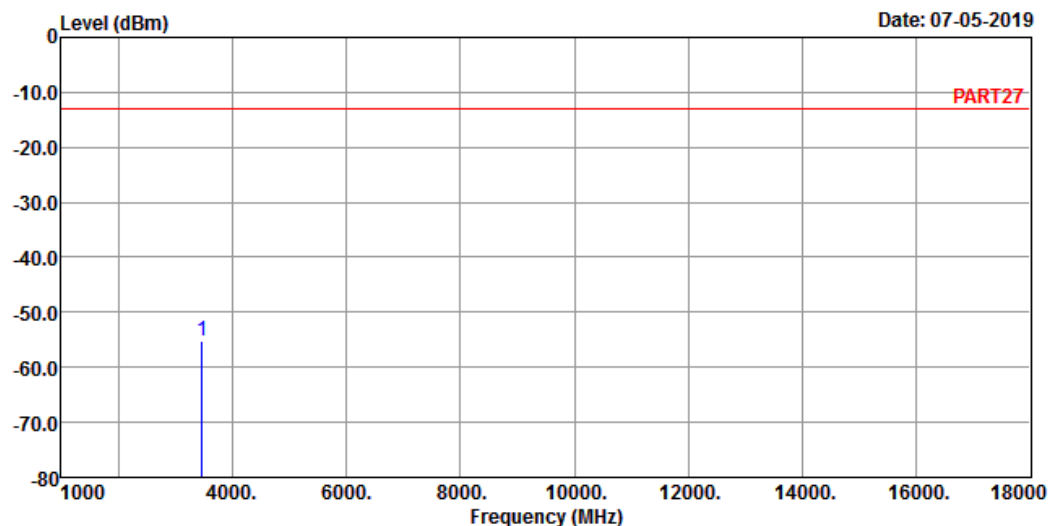
		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-54.19	-46.31	-13.00	-7.88	-41.19	Peak



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Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_1.4M Link_M-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-55.13	-47.25	-13.00	-7.88	-42.13	Peak

High Channel

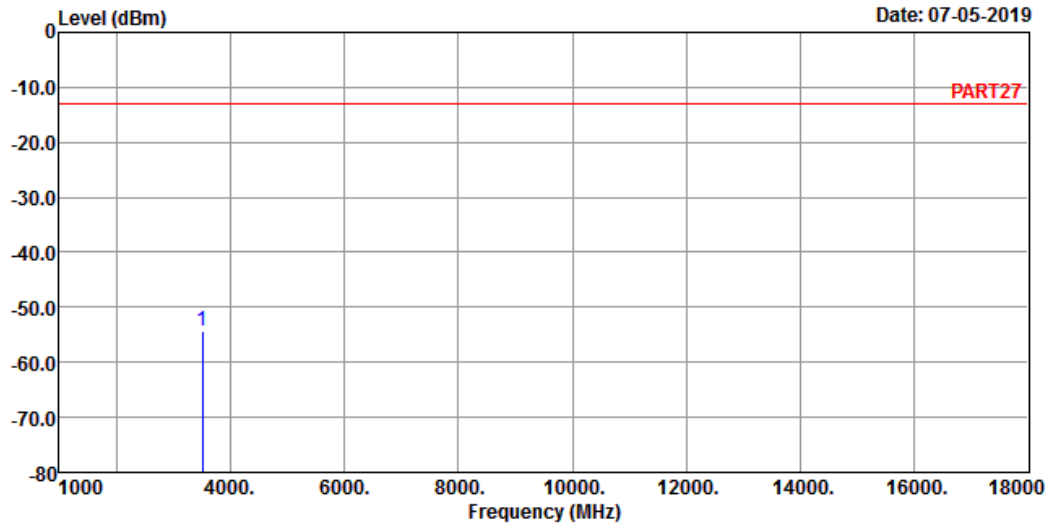


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Data: 3

Date: 07-05-2019



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_10M Link_H-CH
 Tested by: Getaz Yang

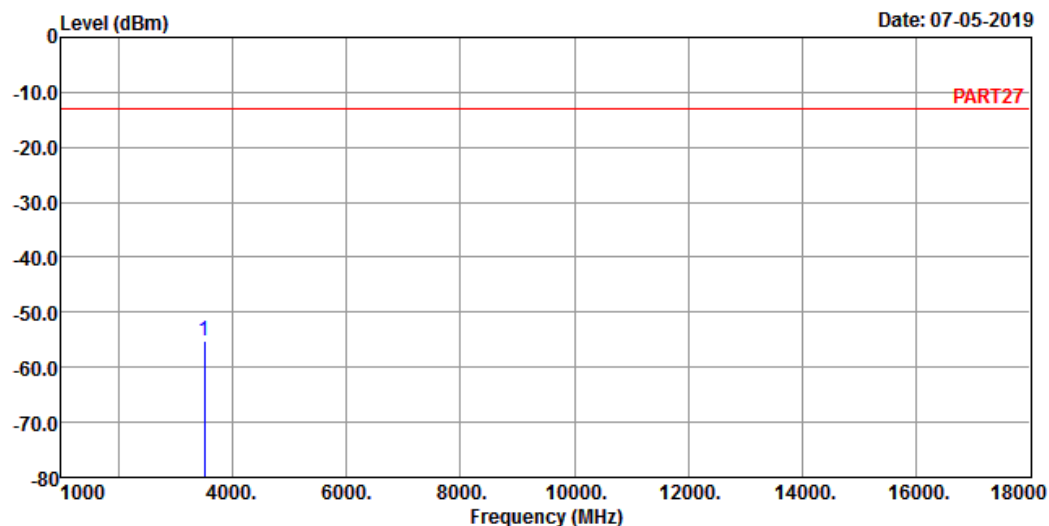
Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3508.60	-54.40	-46.95	-13.00	-7.45	-41.40	Peak



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A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_10M Link_H-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3508.60	-55.23	-47.78	-13.00	-7.45	-42.23	Peak

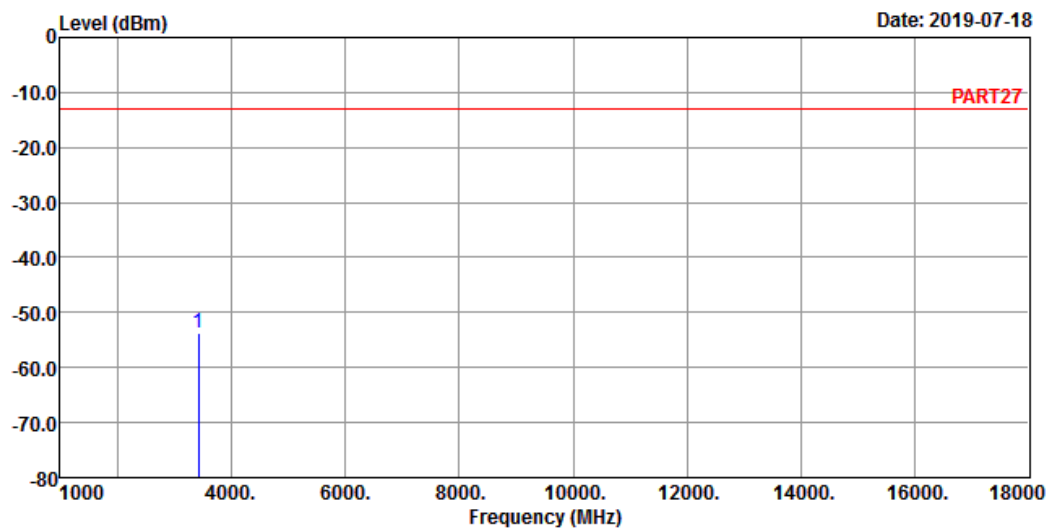
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_10M Link_L-CH
Tested by: Getaz Yang

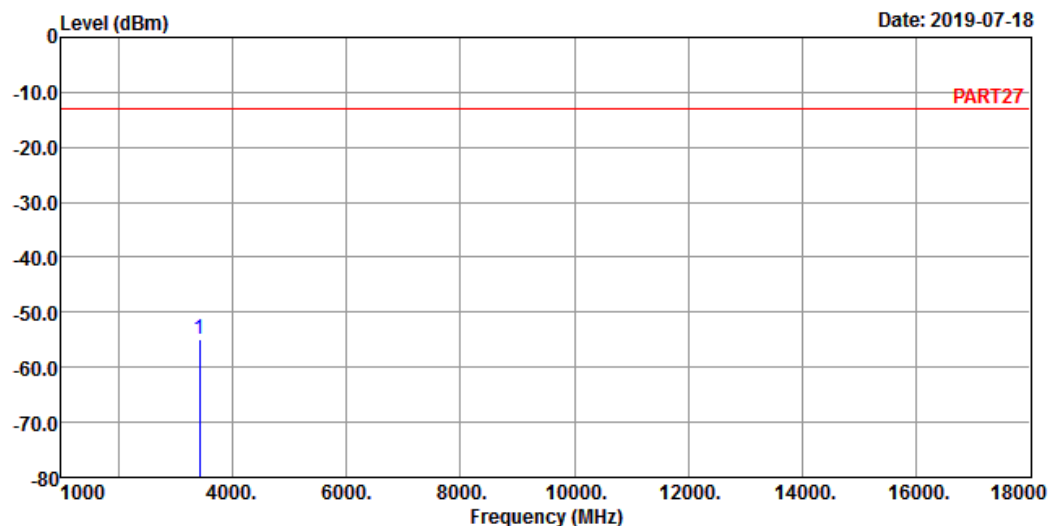
Freq	Level	Read	Limit	Over	Remark
MHz	dBm	Level	Line	Limit	
		dBm	dBm	Factor	
				dB	
1 pp 3430.00	-53.59	-45.25	-13.00	-8.34	-40.59 Peak



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A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_10M Link_L-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3430.00	-54.80	-46.46	-13.00	-8.34	-41.80	Peak

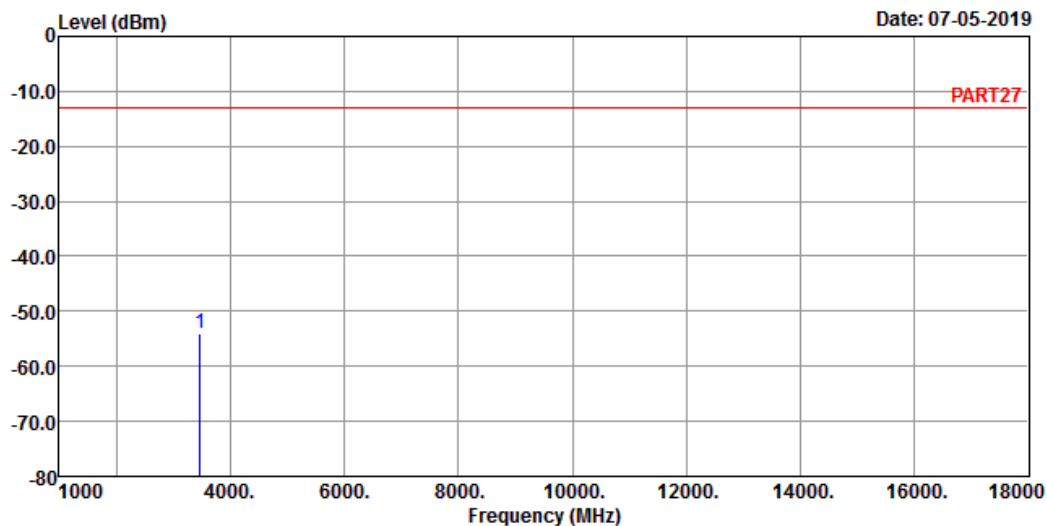
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_10M Link_M-CH
Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

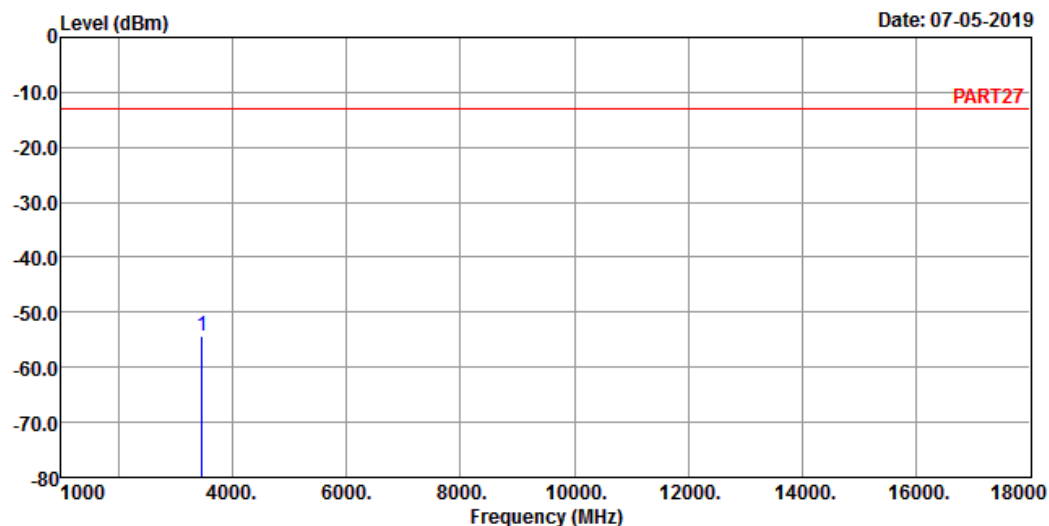
1 pp 3465.00 -53.91 -46.03 -13.00 -7.88 -40.91 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_10M Link_M-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-54.29	-46.41	-13.00	-7.88	-41.29	Peak

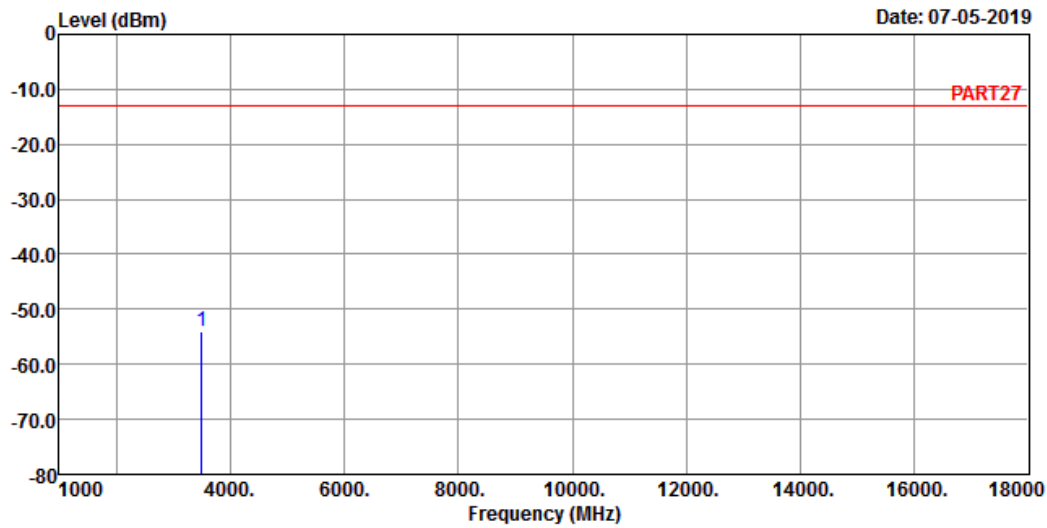
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : LTE Band 4 QPSK_10M Link_H-CH
 Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

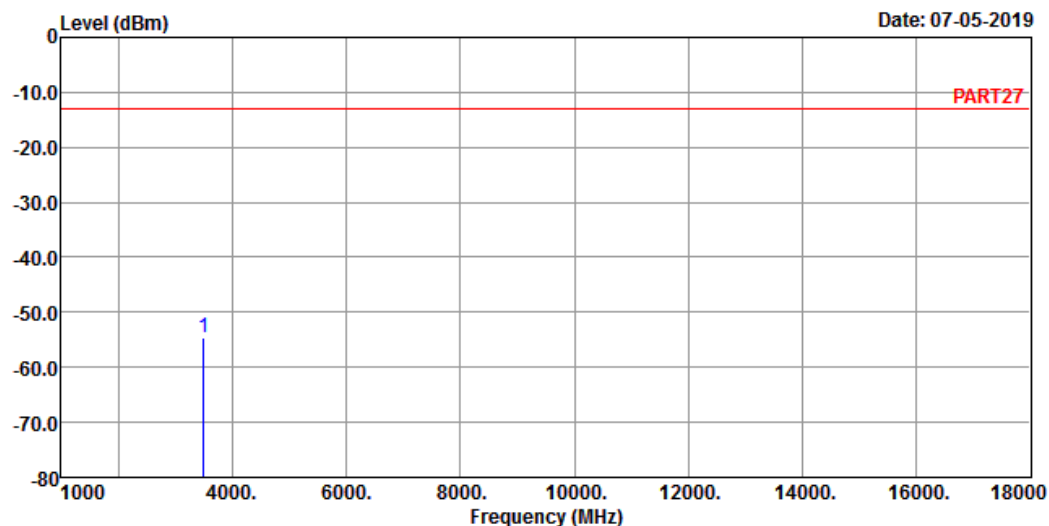
1 pp 3500.00 -53.93 -46.40 -13.00 -7.53 -40.93 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_10M Link_H-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3500.00	-54.76	-47.23	-13.00	-7.53	-41.76	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

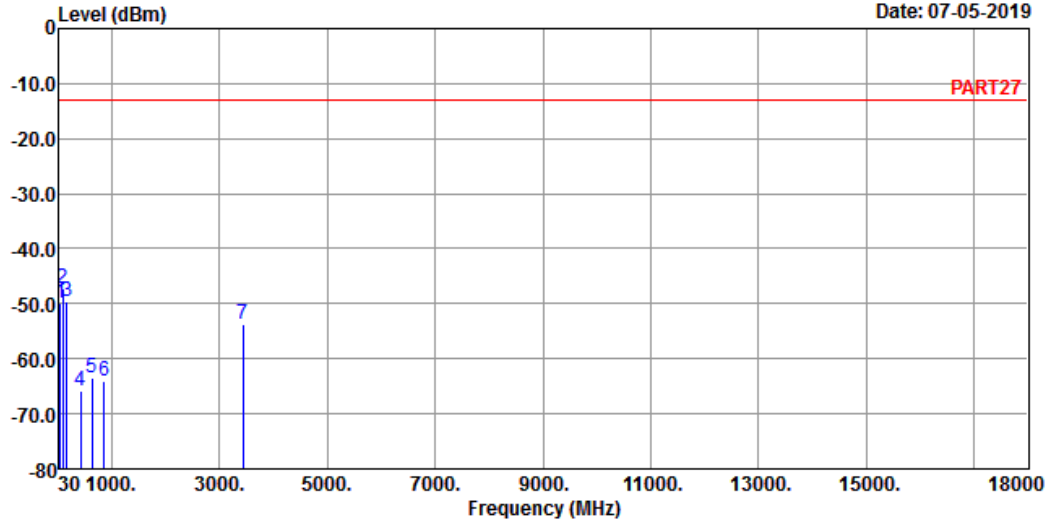


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A D T

Data: 5

Date: 07-05-2019



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Getaz Yang

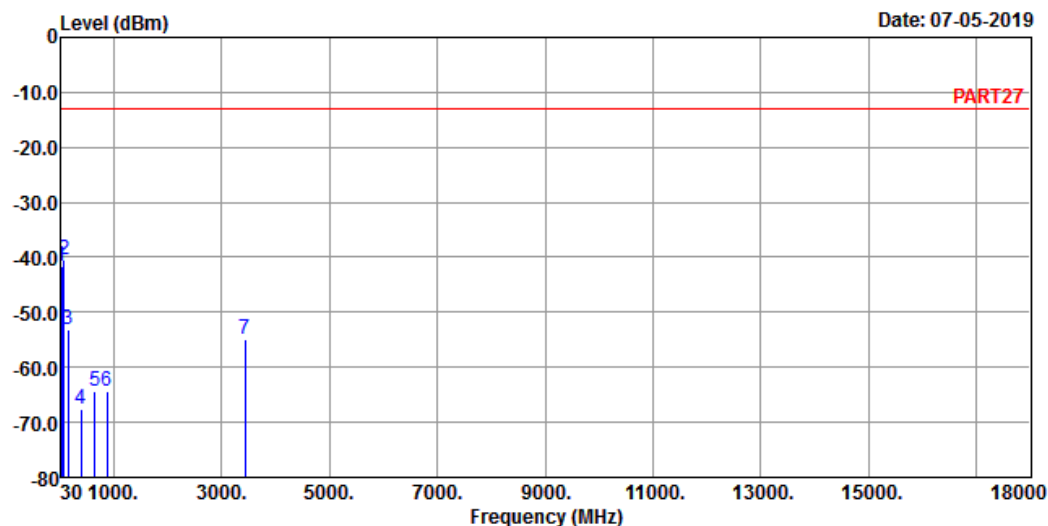
	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-49.81	-48.34	-13.00	-1.47	-36.81	Peak
2 pp	91.11	-47.13	-36.08	-13.00	-11.05	-34.13	Peak
3	162.89	-49.60	-44.55	-13.00	-5.05	-36.60	Peak
4	419.94	-65.85	-60.06	-13.00	-5.79	-52.85	Peak
5	637.22	-63.58	-62.73	-13.00	-0.85	-50.58	Peak
6	858.38	-63.93	-64.27	-13.00	0.34	-50.93	Peak
7	3440.00	-53.59	-45.37	-13.00	-8.22	-40.59	Peak



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A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link_L-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-41.67	-41.26	-13.00	-0.41	-28.67	Peak
2 pp	87.23	-40.34	-29.30	-13.00	-11.04	-27.34	Peak
3	152.22	-53.16	-46.13	-13.00	-7.03	-40.16	Peak
4	399.57	-67.66	-61.71	-13.00	-5.95	-54.66	Peak
5	649.83	-64.36	-63.48	-13.00	-0.88	-51.36	Peak
6	875.84	-64.39	-64.83	-13.00	0.44	-51.39	Peak
7	3440.00	-54.80	-46.58	-13.00	-8.22	-41.80	Peak

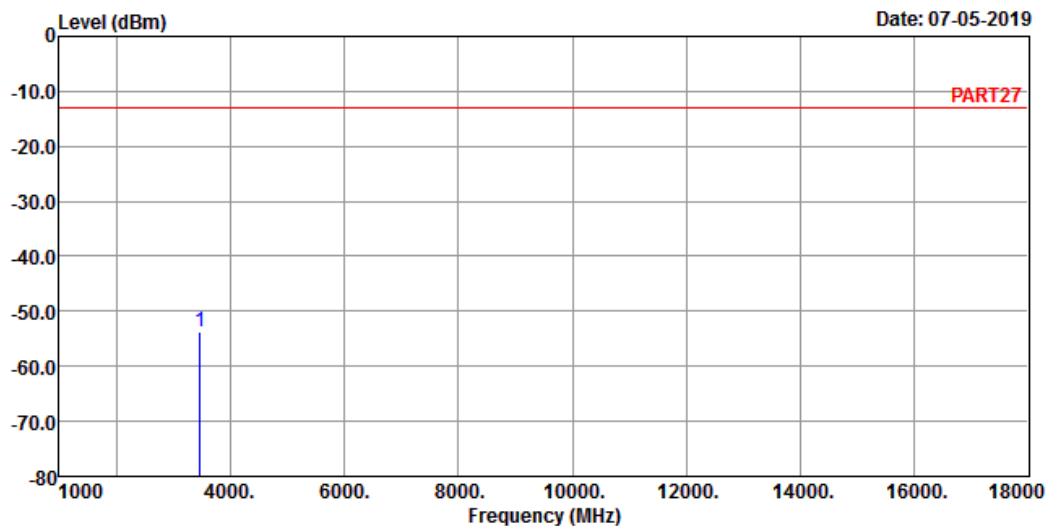
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_M-CH
Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

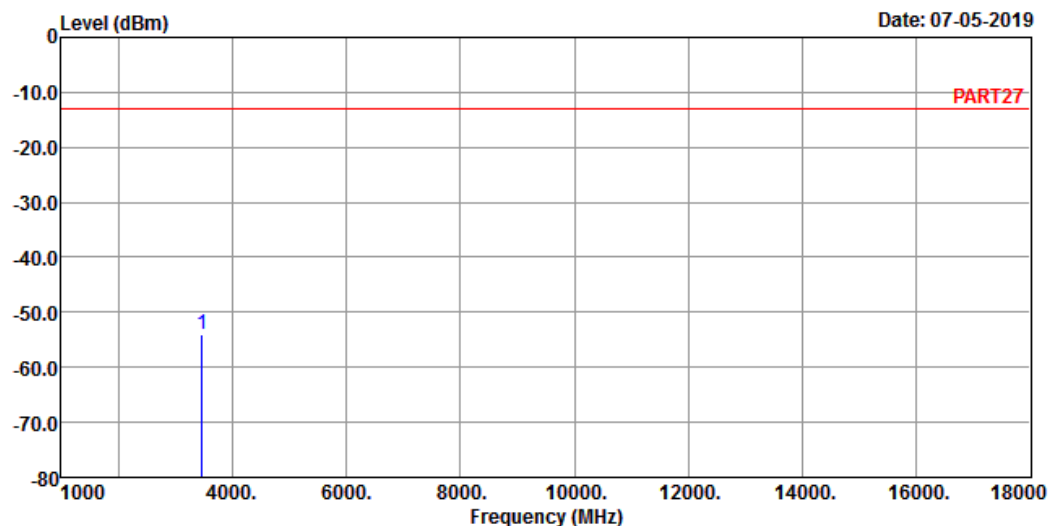
1 pp 3465.00 -53.68 -45.80 -13.00 -7.88 -40.68 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_20M Link_M-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-54.02	-46.14	-13.00	-7.88	-41.02	Peak

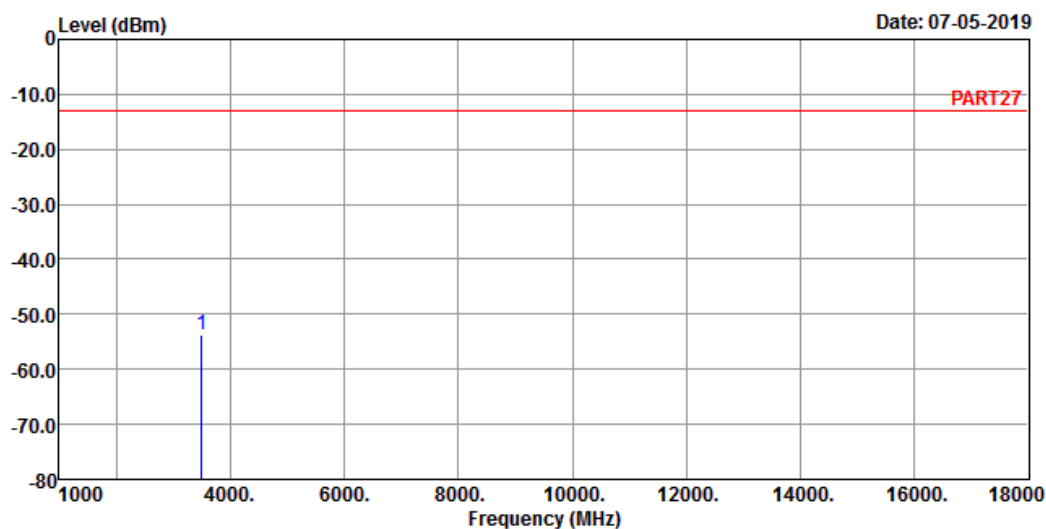
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link_H-CH
Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

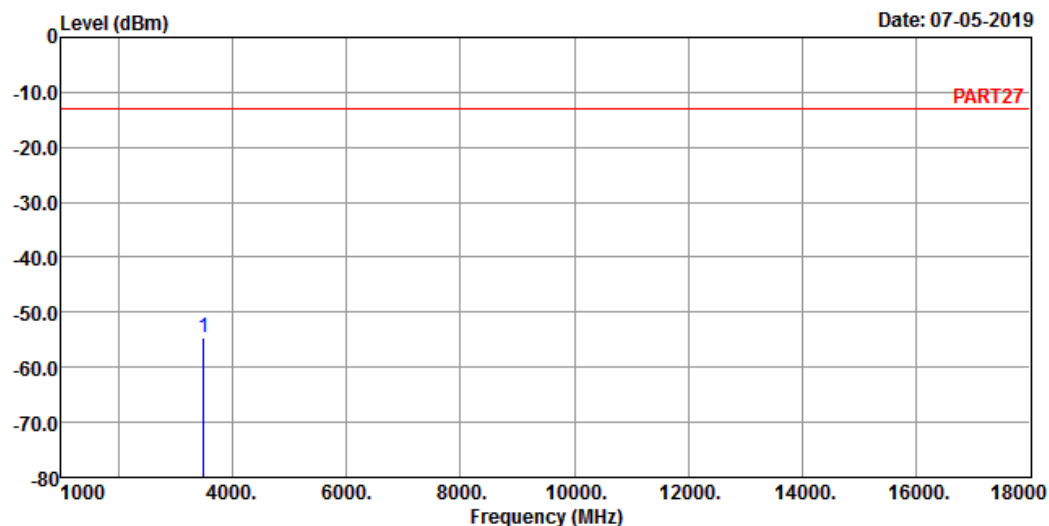
1 pp 3490.00 -53.84 -46.19 -13.00 -7.65 -40.84 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : LTE Band 4 QPSK_20M Link_H-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3490.00	-54.72	-47.07	-13.00	-7.65	-41.72	Peak

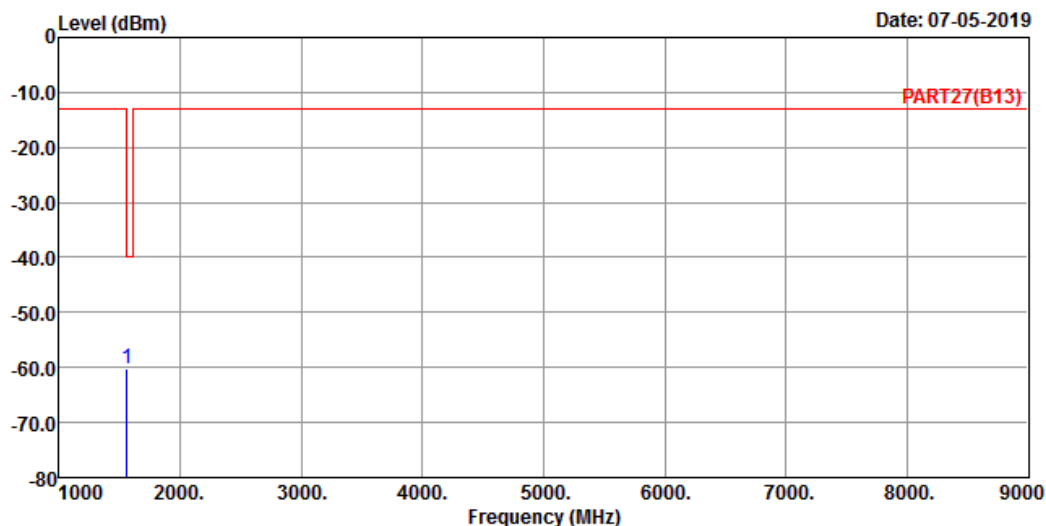
LTE Band 13
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : LTE Band 13 QPSK_5M Link_L-CH
Tested by: Getaz Yang

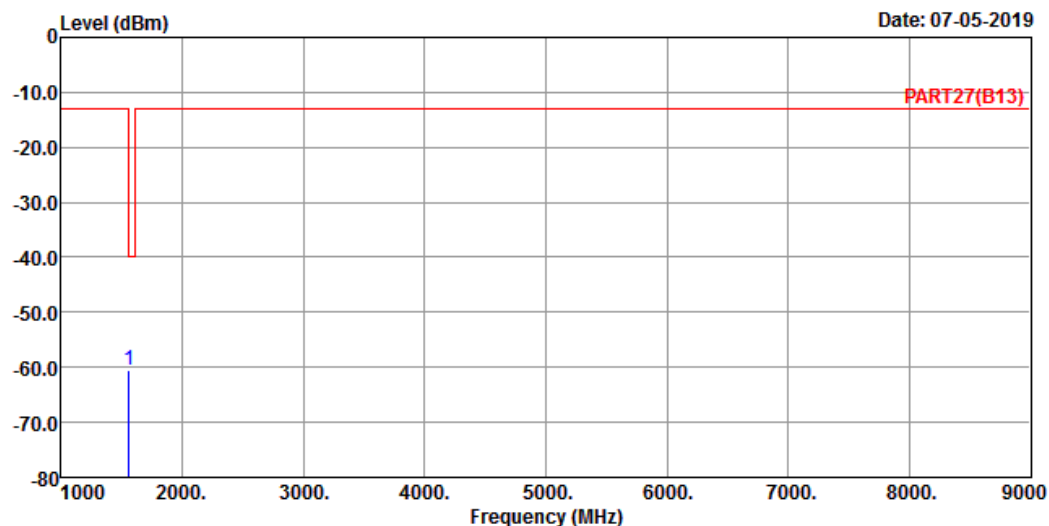
		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1559.00	-60.36	-47.04	-40.00	-13.32	-20.36	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : LTE Band 13 QPSK_5M Link_L-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1559.00	-60.58	-47.26	-40.00	-13.32	-20.58	Peak

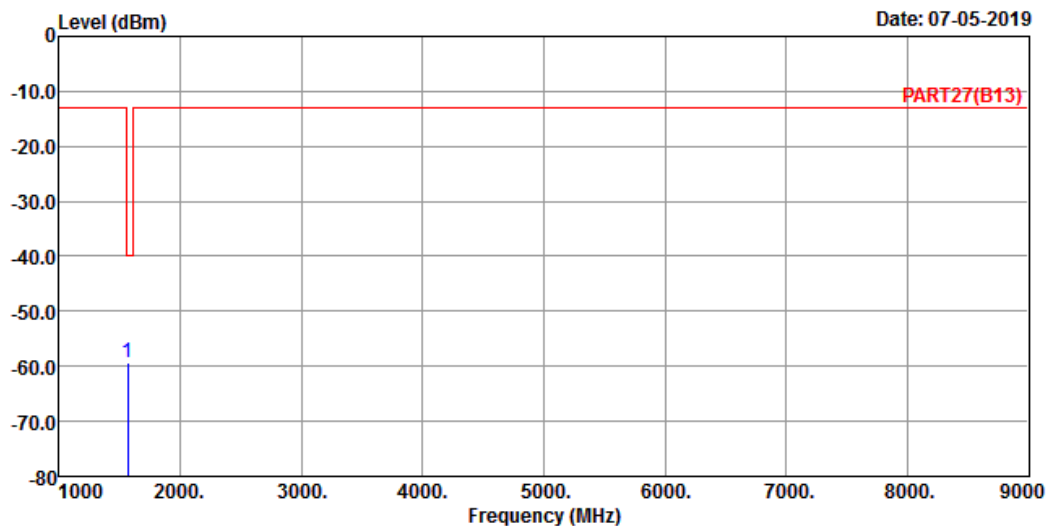
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : LTE Band 13 QPSK_5M Link_M-CH
Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

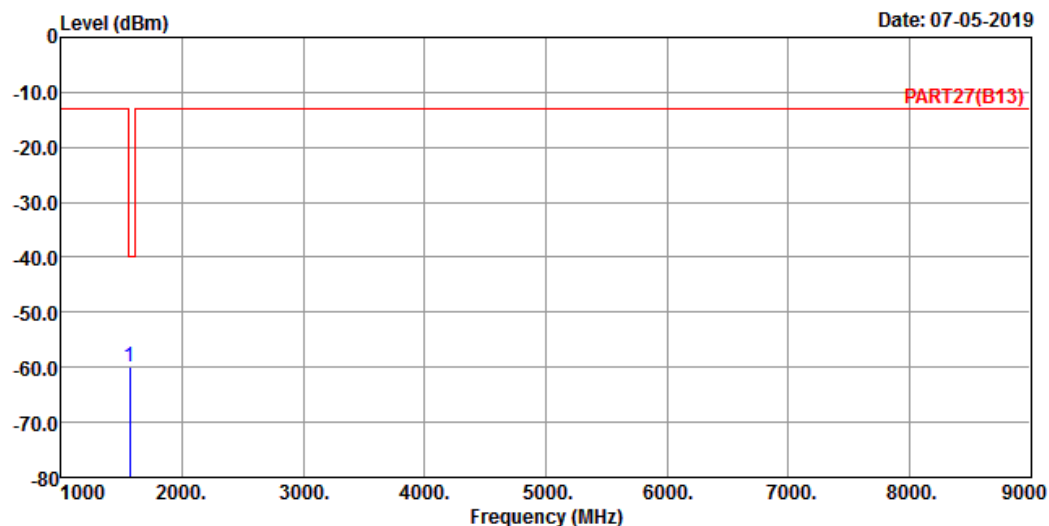
1 pp 1564.00 -59.20 -45.86 -40.00 -13.34 -19.20 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27(B13) VERTICAL
 Remak : LTE Band 13 QPSK_5M Link_M-CH
 Tested by: Getaz Yang

Freq	Level	Read	Limit	Over	Limit	Remark
		Level	Line			
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1564.00	-59.78	-46.44	-40.00	-13.34	-19.78	Peak

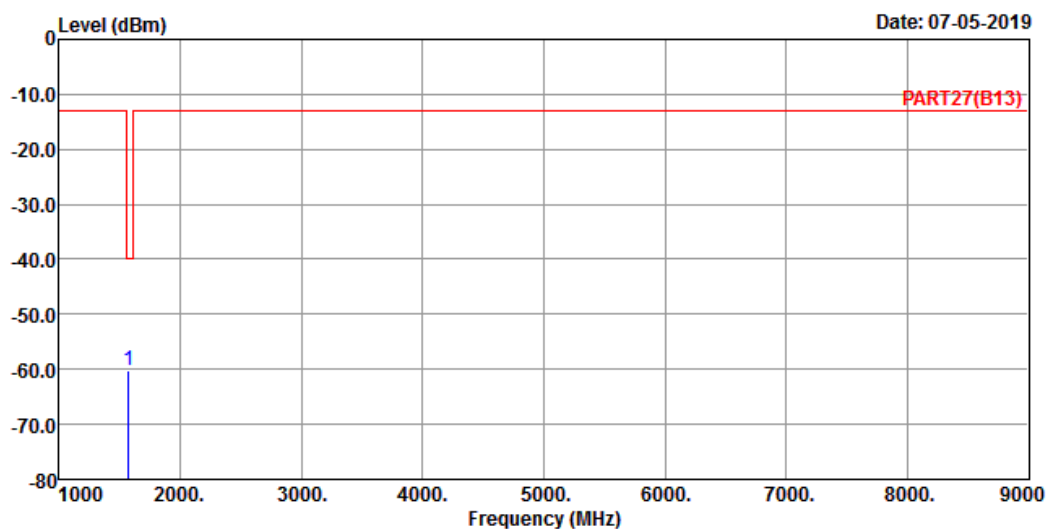
High Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : LTE Band 13 QPSK_5M Link_H-CH
Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

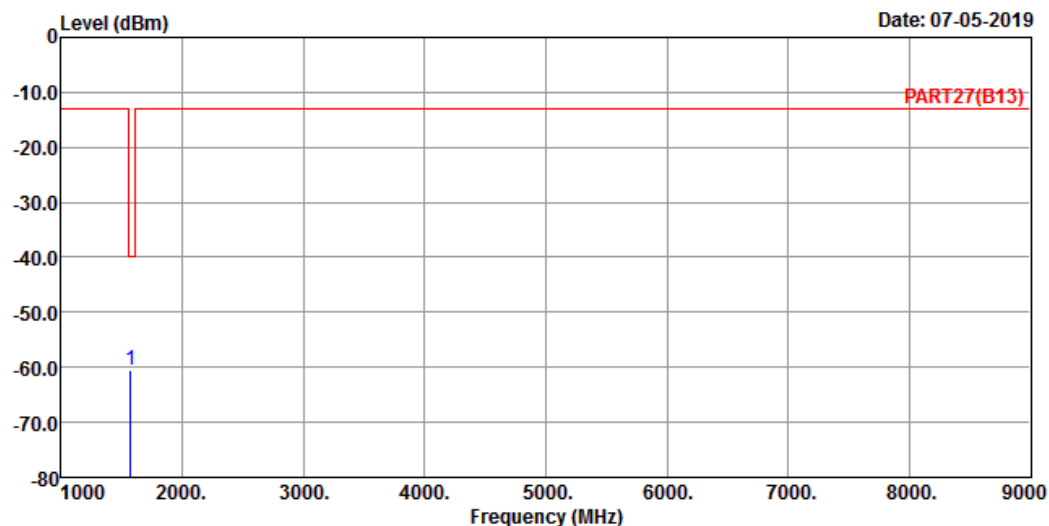
1 pp 1569.00 -60.12 -46.77 -40.00 -13.35 -20.12 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : LTE Band 13 QPSK_5M Link_H-CH

Tested by: Getaz Yang

		Read	Limit		Over	
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 1569.00 -60.42 -47.07 -40.00 -13.35 -20.42 Peak

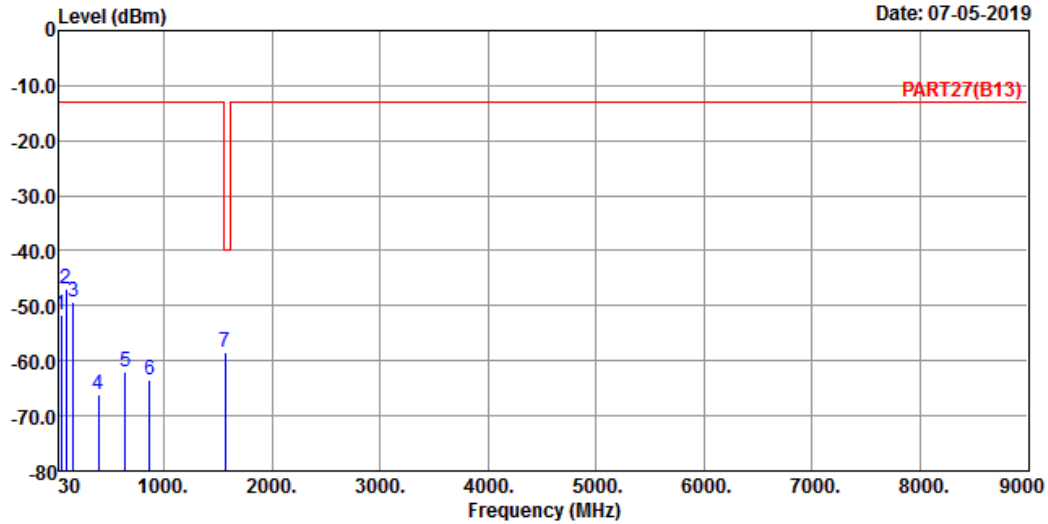
Channel Bandwidth: 10 MHz / QPSK
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : LTE Band 13 QPSK_10M Link_M-CH
Tested by: Getaz Yang

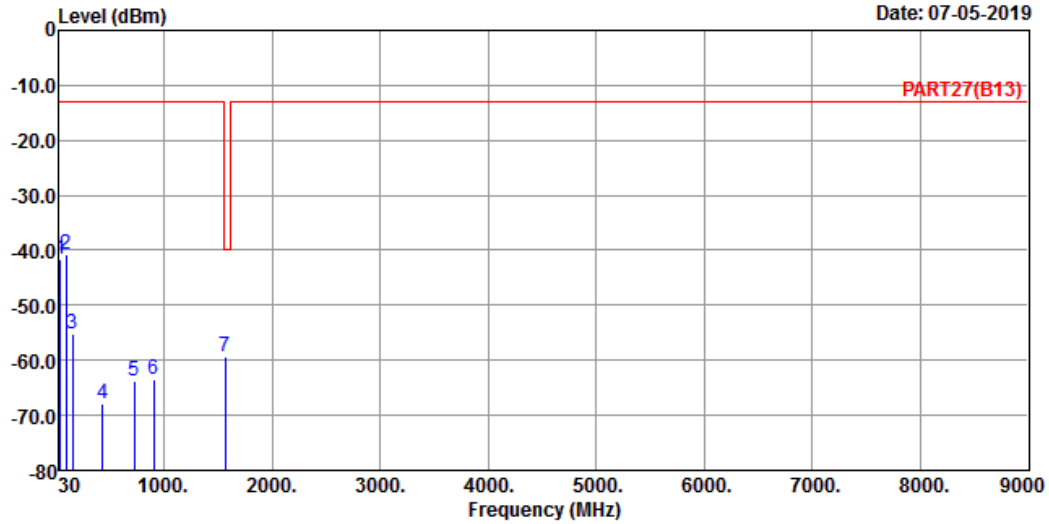
	Freq	Level	Read Level	Limit Line	Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-51.70	-50.23	-13.00	-1.47	-38.70	Peak
2	91.11	-46.96	-35.91	-13.00	-11.05	-33.96	Peak
3	162.89	-49.38	-44.33	-13.00	-5.05	-36.38	Peak
4	395.69	-66.06	-60.09	-13.00	-5.97	-53.06	Peak
5	643.04	-62.00	-61.13	-13.00	-0.87	-49.00	Peak
6	866.14	-63.48	-63.86	-13.00	0.38	-50.48	Peak
7 pp	1564.00	-58.39	-45.05	-40.00	-13.34	-18.39	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27(B13) VERTICAL
Remak : LTE Band 13 QPSK_10M Link_M-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Factor	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-41.51	-41.10	-13.00	-0.41	-28.51	Peak
2	89.17	-40.82	-29.73	-13.00	-11.09	-27.82	Peak
3	152.22	-55.22	-48.19	-13.00	-7.03	-42.22	Peak
4	427.70	-67.80	-62.07	-13.00	-5.73	-54.80	Peak
5	722.58	-63.62	-63.96	-13.00	0.34	-50.62	Peak
6	901.06	-63.44	-64.04	-13.00	0.60	-50.44	Peak
7 pp	1564.00	-59.21	-45.87	-40.00	-13.34	-19.21	Peak

5 Pictures of Test Arrangements

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

Appendix – Information of the Testing Laboratories

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

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

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Fax: 886-3-6668323

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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