

Partial FCC Test Report

(PART 27)

Report No.: RF191211C28-4 R1

FCC ID: 2AEDS110LTEWIFI

Test Model: SD-WAN 110-LTE-WiFi

Received Date: Dec. 11, 2019

Test Date: Feb. 04 ~ Feb. 08, 2020

Issued Date: Apr. 07, 2020

Applicant: CITRIX SYSTEMS,INC

Address: 4988 Great America Parkway Santa Clara,CA 95054 USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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IFCC Registration /
Designation Number: 427177 / TW0011



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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.....	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 Test Mode Applicability and Tested Channel Detail	11
3.4 EUT Operating Conditions	13
3.5 General Description of Applied Standards and references.....	13
4 Test Types and Results	14
4.1 Output Power Measurement.....	14
4.1.1 Limits of Output Power Measurement	14
4.1.2 Test Procedures.....	14
4.1.3 Test Setup.....	15
4.1.4 Test Results	16
4.2 Radiated Emission Measurement.....	25
4.2.1 Limits of Radiated Emission Measurement	25
4.2.2 Test Procedure	25
4.2.3 Deviation from Test Standard	25
4.2.4 Test Setup.....	26
4.2.5 Test Results	27
5 Pictures of Test Arrangements.....	77
Appendix – Information of the Testing Laboratories	78

Release Control Record

Issue No.	Description	Date Issued
RF191211C28-4	Original Release	Feb. 15, 2020
RF191211C28-4 R1	Revise Applicant information, FCC ID, Product name, Test Model and Brand	Apr. 07, 2020

1 Certificate of Conformity

Product: Networking device

Brand: **CITRIX®**

Test Model: SD-WAN 110-LTE-WiFi

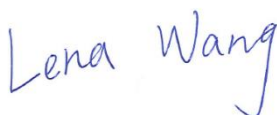
Sample Status: Engineering Sample

Applicant: CITRIX SYSTEMS, INC

Test Date: Feb. 04 ~ Feb. 08, 2020

Standards: FCC Part 27, Subpart C, H, 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 : _____, **Date:** Apr. 07, 2020
Lena Wang / Specialist


Approved by : _____, **Date:** Apr. 07, 2020
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2 (WCDMA)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Equivalent Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 27.54	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
27.50(d)(5)	Peak to Average Ratio	N/A	Refer to Note
27.53(h)	Band Edge Measurements	N/A	Refer to Note
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -32.76 dB at 5197.80 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 4)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(d)(4)	Equivalent Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 27.54	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
27.50(d)(5)	Peak to Average Ratio	N/A	Refer to Note
27.53(h)	Band Edge Measurements	N/A	Refer to Note
2.1051 27.53(h)	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 27.53(h)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -22.78 dB at 5160.00 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 12)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(c)(10)	Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 27.54	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
---	Peak to Average Ratio	N/A	Refer to Note
27.53(g)	Band Edge Measurements	N/A	Refer to Note
2.1051 27.53(g)	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 27.53(g)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -37.04 dB at 86.97 MHz.

Applied Standard: FCC Part 27 & Part 2 (LTE 13)			
FCC Clause	Test Item	Result	Remarks
2.1046 27.50(b)(10)	Equivalent Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note
2.1055 27.54	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
---	Peak to Average Ratio	N/A	Refer to Note
27.53(c)(2)(4)	Band Edge Measurements	N/A	Refer to Note
2.1051 27.53(c)(2)	Conducted Spurious Emissions	N/A	Refer to Note
2.1053 27.53(c)(2)&(f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -15.75 dB at 1564.00 MHz.

Note:

1. This report is a partial report, only test item of Equivalent Isotropic Radiated Power / Equivalent Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch report no.: HR/2019/1001601 for module (Brand: Quectel, Model: EG25-G, EG25-G MINIPCIE).
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 Technologies	N9038A	MY52260177	Aug. 26, 2019	Aug. 25, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 15, 2019	Apr. 14, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-616	Nov. 12, 2019	Nov. 11, 2020
HORN Antenna ETS-Lindgren	3117	00143293	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-631	Nov. 12, 2019	Nov. 11, 2020
HORN Antenna ETS	3117	00155510	Nov. 24, 2019	Nov. 23, 2020
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
MXG Vector signal generator Agilent	N5182B	MY53050430	Nov. 25, 2019	Nov. 24, 2020
Preamplifier Agilent	310N	187226	Jun. 18, 2019	Jun. 17, 2020
Preamplifier Agilent	83017A	MY39501357	Jun. 18, 2019	Jun. 17, 2020
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RFC-SMS-100-SMS-120+RFC-SMS-100-SMS-400)	Jun. 18, 2019	Jun. 17, 2020
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RFC-SMS-100-SMS-24)	Jun. 18, 2019	Jun. 17, 2020
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer Anritsu	MT8820C	6201300640	Aug. 09, 2019	Aug. 08, 2021

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

3 General Information

3.1 General Description of EUT

Product	Networking device	
Brand	CITRIX™	
Test Model	SD-WAN 110-LTE-WiFi	
Status of EUT	Engineering Sample	
Power Supply Rating	12 Vdc (adapter)	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	1712.4 ~ 1752.6 MHz
	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 12 (Channel Bandwidth: 1.4 MHz)	699.7 ~ 715.3 MHz
	LTE Band 12 (Channel Bandwidth: 3 MHz)	700.5 ~ 714.5 MHz
	LTE Band 12 (Channel Bandwidth: 5 MHz)	701.5 ~ 713.5 MHz
	LTE Band 12 (Channel Bandwidth: 10 MHz)	704.0 ~ 711.0 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 12 (Channel Bandwidth: 1.4 MHz)	165.54 mW
	LTE Band 12 (Channel Bandwidth: 3 MHz)	167.07 mW
	LTE Band 12 (Channel Bandwidth: 5 MHz)	168.23 mW
	LTE Band 12 (Channel Bandwidth: 10 MHz)	169.71 mW
	LTE Band 13 (Channel Bandwidth: 5 MHz)	271.71 mW
	LTE Band 13 (Channel Bandwidth: 10 MHz)	272.71 mW
Max. EIRP Power	WCDMA	356.86 mW
	LTE Band 4 (Channel Bandwidth: 1.4 MHz)	333.81 mW
	LTE Band 4 (Channel Bandwidth: 3 MHz)	333.81 mW
	LTE Band 4 (Channel Bandwidth: 5 MHz)	306.55 mW
	LTE Band 4 (Channel Bandwidth: 10 MHz)	366.86 mW
	LTE Band 4 (Channel Bandwidth: 15 MHz)	422.18 mW
	LTE Band 4 (Channel Bandwidth: 20 MHz)	475.88 mW
Antenna Type	Refer to Note as below	
Antenna Gain	Refer to Note as below	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The WWAN module (Brand: Quectel, Model: EG25-G, EG25-G MINIPCIE) was installed in EUT.
2. The antenna information is listed as below.

Antenna Type	Manufacturer	Parts Number	Antenna Connector	Antenna Gain									
				WCDMA II / LTE 2	WCDMA IV / LTE 4	WCDMA V / LTE5	LTE 7	LTE 12	LTE 13	LTE 25	LTE 26	LTE 38	LTE 41
Dipole	Ethertronics	1004112-C003	SMA(M)	4.5	4.5	1.18	4	1.18	1.18	4.5	1.18	4	4
	Taoglas	TG.30.8113	SMA(M)	3.1	2.7	1.5	2.7	2.6	2.6	3.1	1.5	2.7	2.7

* After pre-test only the worst configuration was chosen for the final test and recorded in this report.

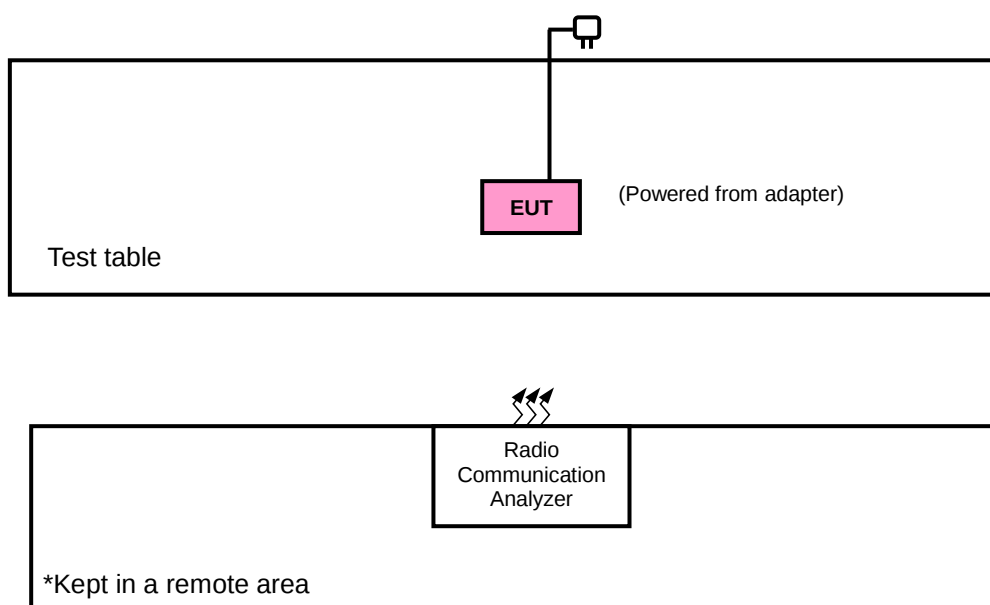
3. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	AOEM	ADS0248T-U120200	I/P: 100-240 Vac, 50-60 Hz, 0.6 A O/P: 12.0 Vdc, 2.0 A Cable: 1.46m cable w/o core

4. 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

<Radiated Emission Test> & <E.R.P. / E.I.R.P. Test>



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, antenna degree 90°, 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
WCDMA	90°	90°
LTE Band 4	90°	90°
LTE Band 12	90°	90°
LTE Band 13	90°	90°

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
-	Radiated Emission	1312 to 1513	1312, 1413, 1513	WCDMA

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
		19975 to 20375	19975, 20175, 20375	5 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 12

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	ERP	23017 to 23173	23017, 23095, 23173	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23025 to 23165	23025, 23095, 23165	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Radiated Emission	23017 to 23173	23017, 23095, 23173	1.4 MHz	QPSK	1 RB / 0 RB Offset
		23035 to 23155	23035, 23095, 23155	5 MHz	QPSK	1 RB / 0 RB Offset
		23060 to 23130	23060, 23095, 23130	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.
- 3.

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	3.8Vdc	Karl Lee
Radiated Emission	25 deg. C, 65 % RH	3.8Vdc	Karl Lee

3.4 EUT Operating Conditions

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

3.5 General Description of Applied Standards and references

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

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 27

ANSI 63.26-2015

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

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

Note: All test items have been performed as a reference to the above KDB test guidance.

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 5 MHz for WCDMA and 20 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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

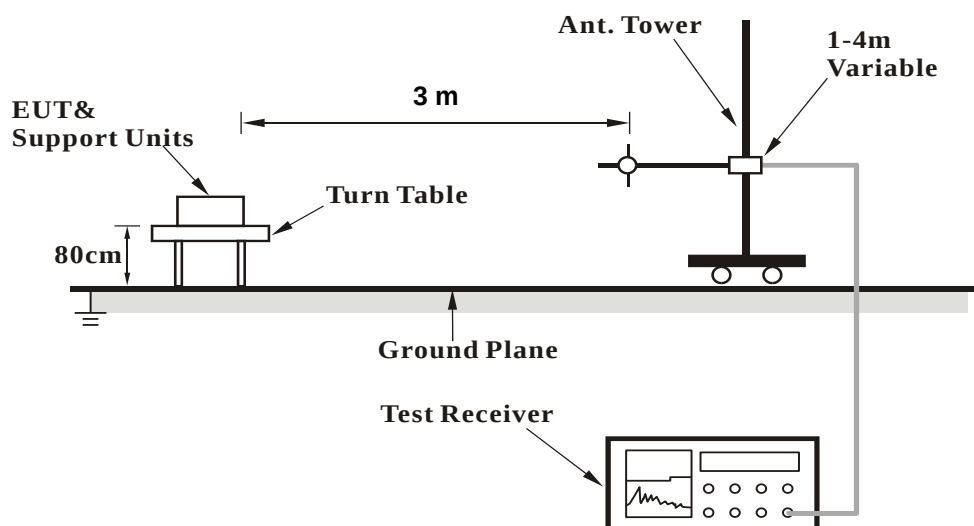
Conducted Power Measurement:

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

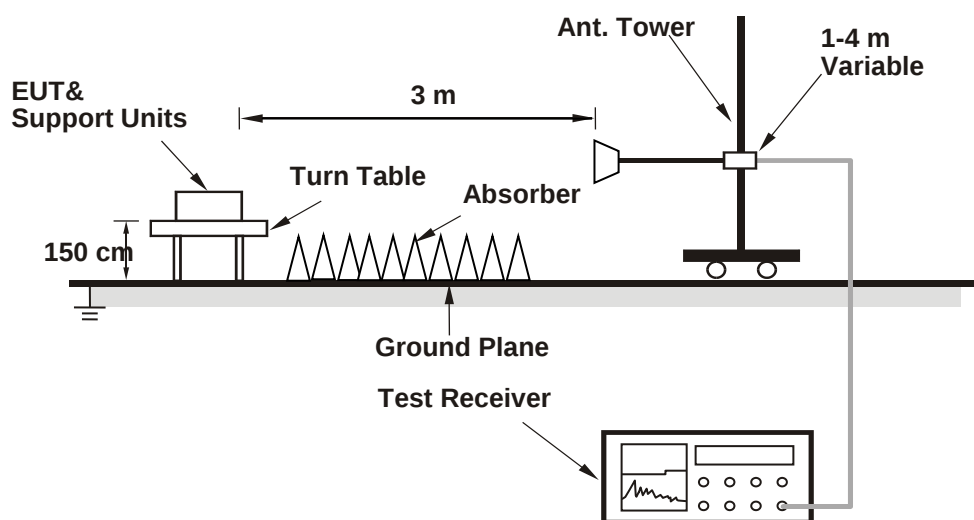
4.1.3 Test Setup

EIRP / ERP Measurement:

<Radiated Emission below or equal 1 GHz>

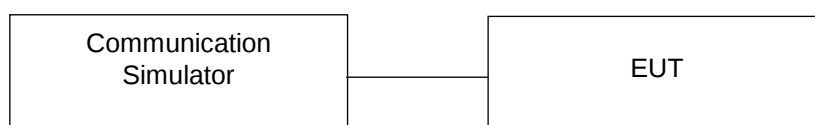


<Radiated Emission above 1 GHz>



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

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	23.82	23.74	23.64

LTE Band 4															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300				Channel		20025	20175	20325	
		Frequency (MHz)		1720.0	1732.5	1745.0				Frequency (MHz)		1717.5	1732.5	1747.5	
20M	QPSK	1	0	22.98	22.46	23.14	0	15M	QPSK	1	0	23.11	22.97	23.15	0
		1	50	23.61	24.89	23.89	0			1	37	23.76	24.91	23.34	0
		1	99	22.79	23.18	22.00	0			1	74	22.72	22.88	22.74	0
		50	0	23.45	22.42	22.19	1			36	0	23.66	22.33	22.58	1
		50	25	22.67	22.53	22.41	1			36	19	22.58	22.46	22.29	1
		50	50	22.37	22.36	21.89	1			36	39	22.26	22.39	22.07	1
		100	0	22.51	22.25	22.42	1			75	0	22.59	22.25	22.27	1
	16QAM	1	0	22.11	21.72	22.05	1		16QAM	1	0	21.99	21.84	22.06	1
		1	50	22.17	22.01	21.71	1			1	37	21.95	21.74	21.97	1
		1	99	22.07	21.96	21.87	1			1	74	21.95	21.78	22.05	1
		50	0	21.57	21.35	21.49	2			36	0	21.43	21.27	21.35	2
		50	25	21.52	21.33	21.38	2			36	19	21.42	21.26	21.26	2
		50	50	21.55	21.33	21.36	2			36	39	21.45	21.20	21.33	2
		100	0	21.61	21.18	21.53	2			75	0	21.48	21.30	21.27	2
10M	QPSK	1	0	23.23	22.96	22.86	0	5M	QPSK	1	0	23.07	22.99	23.08	0
		1	24	23.69	23.83	23.43	0			1	12	22.84	23.18	23.09	0
		1	49	22.79	22.83	22.65	0			1	24	22.91	23.13	22.85	0
		25	0	23.86	22.31	22.41	1			12	0	22.43	22.16	22.22	1
		25	12	22.55	22.47	22.31	1			12	6	22.25	22.23	22.14	1
		25	25	22.20	22.25	22.13	1			12	13	22.23	22.32	22.13	1
		50	0	22.43	22.14	22.24	1			25	0	22.27	22.15	22.29	1
	16QAM	1	0	22.09	21.80	21.94	1		16QAM	1	0	21.94	21.82	21.68	1
		1	24	22.20	22.06	21.85	1			1	12	22.25	22.26	21.92	1
		1	49	22.09	21.84	22.10	1			1	24	21.89	21.80	21.97	1
		25	0	21.51	21.34	21.27	2			12	0	21.27	21.13	21.20	2
		25	12	21.40	21.43	21.25	2			12	6	21.24	21.16	21.06	2
		25	25	21.32	21.33	21.30	2			12	13	21.13	21.11	21.25	2
		50	0	21.53	21.20	21.15	2			25	0	21.35	21.10	21.27	2
3M	QPSK	1	0	23.14	23.10	23.06	0	1.4M	QPSK	1	0	23.04	23.03	22.97	0
		1	7	23.26	23.09	22.77	0			1	2	23.12	23.11	23.11	0
		1	14	23.07	23.16	22.97	0			1	5	23.21	23.14	23.02	0
		8	0	22.36	22.24	22.12	1			3	0	23.18	23.06	23.04	0
		8	3	22.35	22.26	22.07	1			3	1	23.37	23.31	23.27	0
		8	7	22.23	22.14	22.12	1			3	3	23.41	23.25	23.24	0
		15	0	22.41	22.16	22.13	1			6	0	22.41	22.17	22.23	1
	16QAM	1	0	21.95	21.80	21.61	1		16QAM	1	0	21.94	21.76	21.72	1
		1	7	21.88	21.76	21.73	1			1	2	22.07	22.03	21.84	1
		1	14	21.98	21.77	21.82	1			1	5	21.96	21.77	21.70	1
		8	0	21.21	21.14	21.10	2			3	0	22.47	22.44	22.29	1
		8	3	21.29	21.10	21.00	2			3	1	22.59	22.41	22.53	1
		8	7	21.26	21.16	21.04	2			3	3	22.43	22.44	22.48	1
		15	0	21.37	21.30	21.30	2			6	0	21.45	21.26	21.42	2

LTE Band 12																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
		Channel		23060	23095	23130				Channel		23035	23095	23155			
		Frequency (MHz)		704.0	707.5	711.0				Frequency (MHz)		701.5	707.5	713.5			
10M	QPSK	1	0	23.19	23.25	23.36	0	5M	QPSK	1	0	23.37	23.24	23.32	0		
		1	24	23.97	24.30	24.01	0			1	12	23.30	23.81	23.22	0		
		1	49	23.27	22.87	22.72	0			1	24	23.47	23.18	22.80	0		
		25	0	22.42	22.66	22.73	1			12	0	22.44	22.47	22.44	1		
		25	12	22.68	22.80	22.57	1			12	6	22.49	22.66	22.35	1		
		25	25	22.48	22.41	22.39	1			12	13	22.47	22.43	22.26	1		
		50	0	22.46	22.47	22.41	1			25	0	22.43	22.53	22.45	1		
	16QAM	1	0	22.04	22.06	22.23	1		16QAM	1	0	22.02	22.00	22.05	1		
		1	24	22.14	22.28	22.25	1			1	12	22.34	22.60	22.30	1		
		1	49	22.02	22.11	21.94	1			1	24	22.07	21.88	22.01	1		
		25	0	21.51	21.60	21.63	2			12	0	21.45	21.45	21.27	2		
		25	12	21.59	21.55	21.54	2			12	6	21.55	21.51	21.45	2		
		25	25	21.49	21.39	21.46	2			12	13	21.40	21.17	21.18	2		
		50	0	21.61	21.50	21.41	2			25	0	21.55	21.64	21.35	2		
	BW	MCS Index	RB Size	RB Offset	Low	Mid	High		3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
			Channel		23025	23095	23165					Channel		23017	23095	23173	
			Frequency (MHz)		700.5	707.5	714.5					Frequency (MHz)		699.7	707.5	715.3	
	3M	QPSK	1	0	23.57	23.47	23.38		0	1.4M	QPSK	1	0	23.22	23.42	23.22	0
1			7	23.49	23.62	23.18	0	1	2			23.50	23.64	23.39	0		
1			14	23.28	23.36	23.27	0	1	5			23.34	23.54	23.49	0		
8			0	22.39	22.54	22.47	1	3	0			23.62	23.44	23.40	0		
8			3	22.43	22.59	22.33	1	3	1			23.56	23.61	23.49	0		
8			7	22.46	22.51	22.35	1	3	3			23.46	23.65	23.48	0		
15			0	22.50	22.54	22.47	1	6	0			22.54	22.55	22.47	1		
16QAM		1	0	22.07	22.06	21.88	1	16QAM	1		0	22.20	21.96	22.07	1		
		1	7	21.96	21.95	22.15	1		1		2	22.21	22.20	22.18	1		
		1	14	22.14	22.04	21.99	1		1		5	22.01	21.91	21.95	1		
		8	0	21.18	21.23	21.17	2		3		0	22.82	22.71	22.68	1		
		8	3	21.32	21.22	21.23	2		3		1	22.64	22.78	22.59	1		
		8	7	21.53	21.37	21.23	2		3		3	22.60	22.68	22.61	1		
		15	0	21.71	21.66	21.28	2		6		0	21.47	21.46	21.31	2		

LTE Band 13															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23230	23230	23225				Channel		23205	23230	23225	
		Frequency (MHz)		782.0	782.0	784.5				Frequency (MHz)		779.5	782.0	784.5	
10M	QPSK	1	0		23.6		0	5M	QPSK	1	0	23.68	23.67	23.62	0
		1	24		23.95		0			1	12	23.28	23.85	24.13	0
		1	49		23.62		0			1	24	23.63	23.82	23.75	0
		25	0		22.53		1			12	0	22.62	22.54	22.52	1
		25	12		22.71		1			12	6	22.61	22.74	22.67	1
		25	25		22.5		1			12	13	22.55	22.72	22.65	1
	16QAM	50	0		22.58		1			25	0	22.65	22.60	22.58	1
		1	0		22.30		1		16QAM	1	0	22.19	22.11	22.23	1
		1	24		22.34		1			1	12	22.60	22.29	22.44	1
		1	49		22.31		1			1	24	21.89	22.04	22.19	1
		25	0		21.59		2			12	0	21.54	21.66	21.48	2
		25	12		21.58		2			12	6	21.56	21.64	21.55	2
3M	QPSK	25	25		21.60		2			12	13	21.61	21.50	21.31	2
		50	0		21.70		2			25	0	21.68	21.72	21.51	2
	16QAM	1	0		23.6		0		QPSK	1	0	23.68	23.67	23.62	0
		1	24		23.95		0			1	12	23.28	23.85	24.13	0
		1	49		23.62		0			1	24	23.63	23.82	23.75	0
		25	0		22.53		1			12	0	22.62	22.54	22.52	1
		25	12		22.71		1			12	6	22.61	22.74	22.67	1
		25	25		22.5		1			12	13	22.55	22.72	22.65	1
3M	QPSK	50	0		22.58		1			25	0	22.65	22.60	22.58	1
		1	0		22.30		1		16QAM	1	0	22.19	22.11	22.23	1
		1	24		22.34		1			1	12	22.60	22.29	22.44	1
		1	49		22.31		1			1	24	21.89	22.04	22.19	1
		25	0		21.59		2			12	0	21.54	21.66	21.48	2
		25	12		21.58		2			12	6	21.56	21.64	21.55	2
	16QAM	25	25		21.60		2			12	13	21.61	21.50	21.31	2
		50	0		21.70		2			25	0	21.68	21.72	21.51	2

ERP Power (dBm)

LTE Band 12							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
90°	23017	699.7	-8.38	32.719	22.19	165.54	H
	23095	707.5	-8.45	32.736	22.14	163.53	
	23173	715.3	-8.36	32.591	22.08	161.47	
	23017	699.7	-15.32	32.69	15.22	33.27	V
	23095	707.5	-15.47	32.81	15.19	33.04	
	23173	715.3	-15.44	32.74	15.15	32.73	
Channel Bandwidth: 1.4 MHz / 16QAM							
90°	23017	699.7	-9.44	32.719	21.13	129.69	H
	23095	707.5	-9.48	32.736	21.11	129.00	
	23173	715.3	-9.14	32.591	21.30	134.93	
	23017	699.7	-16.25	32.69	14.29	26.85	V
	23095	707.5	-16.33	32.81	14.33	27.10	
	23173	715.3	-16.26	32.74	14.33	27.10	

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

LTE Band 12							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
90°	23025	700.5	-8.34	32.719	22.23	167.07	H
	23095	707.5	-8.41	32.736	22.18	165.04	
	23165	714.5	-8.32	32.591	22.12	162.97	
	23025	700.5	-15.28	32.69	15.26	33.57	V
	23095	707.5	-15.43	32.81	15.23	33.34	
	23165	714.5	-15.40	32.74	15.19	33.04	
Channel Bandwidth: 3 MHz / 16QAM							
90°	23025	700.5	-9.34	32.719	21.23	132.71	H
	23095	707.5	-9.42	32.736	21.17	130.80	
	23165	714.5	-9.32	32.591	21.12	129.45	
	23025	700.5	-16.28	32.69	14.26	26.67	V
	23095	707.5	-16.44	32.81	14.22	26.42	
	23165	714.5	-16.41	32.74	14.18	26.18	

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

LTE Band 12							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
90°	23035	701.5	-8.31	32.719	22.26	168.23	H
	23095	707.5	-8.37	32.736	22.22	166.57	
	23155	713.5	-8.28	32.591	22.16	164.48	
	23035	701.5	-15.24	32.69	15.30	33.88	V
	23095	707.5	-15.39	32.81	15.27	33.65	
	23155	713.5	-15.35	32.74	15.24	33.42	
Channel Bandwidth: 5 MHz / 16QAM							
90°	23035	701.5	-9.32	32.719	21.25	133.32	H
	23095	707.5	-9.37	32.736	21.22	132.31	
	23155	713.5	-9.28	32.591	21.16	130.65	
	23035	701.5	-16.24	32.69	14.30	26.92	V
	23095	707.5	-16.40	32.81	14.26	26.67	
	23155	713.5	-16.35	32.74	14.24	26.55	

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

LTE Band 12							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
90°	23060	704.0	-8.28	32.727	22.30	169.71	H
	23095	707.5	-8.33	32.739	22.26	168.23	
	23130	711.0	-8.39	32.728	22.19	165.50	
	23060	704.0	-15.21	32.75	15.39	34.59	V
	23095	707.5	-15.36	32.81	15.30	33.88	
	23130	711.0	-15.37	32.84	15.32	34.04	
Channel Bandwidth: 10 MHz / 16QAM							
90°	23060	704.0	-9.28	32.727	21.30	134.80	H
	23095	707.5	-9.33	32.739	21.26	133.63	
	23130	711.0	-9.39	32.728	21.19	131.46	
	23060	704.0	-16.27	32.75	14.33	27.10	V
	23095	707.5	-16.35	32.81	14.31	26.98	
	23130	711.0	-16.41	32.84	14.28	26.79	

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

LTE Band 13							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (mW)	Polarization (H/V)
90°	23205	779.5	-6.35	32.771	24.27	267.36	H
	23230	782.0	-6.25	32.741	24.34	271.71	
	23255	784.5	-6.62	32.854	24.08	256.09	
	23205	779.5	-12.21	32.5	18.14	65.16	V
	23230	782.0	-12.25	32.52	18.12	64.86	
	23255	784.5	-12.32	32.62	18.15	65.31	
Channel Bandwidth: 5 MHz / 16QAM							
90°	23205	779.5	-7.34	32.771	23.28	212.86	H
	23230	782.0	-7.27	32.741	23.32	214.83	
	23255	784.5	-7.51	32.854	23.19	208.64	
	23205	779.5	-13.16	32.5	17.19	52.36	V
	23230	782.0	-13.17	32.52	17.20	52.48	
	23255	784.5	-13.33	32.62	17.14	51.76	

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)
90°	23230	782.0	-6.23	32.737	24.36	272.71	H
	23230	782.0	-12.12	32.52	18.25	66.83	V
Channel Bandwidth: 10 MHz / 16QAM							
90°	23230	782.0	-7.23	32.737	23.36	216.62	H
	23230	782.0	-13.13	32.52	17.24	52.97	V

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

EIRP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	Reading (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
90°	1312	1712.4	-16.96	42.49	25.53	356.86	H
	1413	1732.6	-16.94	42.33	25.39	345.70	
	1513	1752.6	-17.12	42.10	24.98	314.77	
	1312	1712.4	-20.21	42.99	22.78	189.67	V
	1413	1732.6	-20.55	42.74	22.19	165.58	
	1513	1752.6	-19.75	42.21	22.46	176.20	

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

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)
90°	19957	1710.7	-17.25	42.49	25.24	333.81	H
	20175	1732.5	-17.62	42.33	24.71	295.60	
	20393	1754.3	-17.91	42.10	24.19	262.42	
	19957	1710.7	-20.62	42.99	22.37	172.58	V
	20175	1732.5	-20.41	42.74	22.33	171.00	
	20393	1754.3	-20.14	42.21	22.07	161.06	
Channel Bandwidth: 1.4 MHz / 16QAM							
90°	19957	1710.7	-18.66	42.49	23.83	241.27	H
	20175	1732.5	-18.42	42.33	23.91	245.87	
	20393	1754.3	-18.33	42.10	23.77	238.23	
	19957	1710.7	-21.23	42.99	21.76	149.97	V
	20175	1732.5	-21.51	42.74	21.23	132.74	
	20393	1754.3	-21.01	42.21	21.20	131.83	

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)
90°	19965	1711.5	-17.25	42.49	25.24	333.81	H
	20175	1732.5	-17.36	42.33	24.97	313.83	
	20385	1753.5	-17.68	42.10	24.42	276.69	
	19965	1711.5	-20.35	42.99	22.64	183.65	V
	20175	1732.5	-20.65	42.74	22.09	161.81	
	20385	1753.5	-19.84	42.21	22.37	172.58	
Channel Bandwidth: 3 MHz / 16QAM							
90°	19965	1711.5	-18.95	42.49	23.54	225.68	H
	20175	1732.5	-18.73	42.33	23.60	228.93	
	20385	1753.5	-18.65	42.10	23.45	221.31	
	19965	1711.5	-21.62	42.99	21.37	137.09	V
	20175	1732.5	-21.15	42.74	21.59	144.21	
	20385	1753.5	-21.01	42.21	21.20	131.83	

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)
90°	19975	1712.5	-17.62	42.49	24.87	306.55	H
	20175	1732.5	-17.62	42.33	24.71	295.60	
	20375	1752.5	-17.82	42.10	24.28	267.92	
	19975	1712.5	-20.57	42.99	22.43	174.78	V
	20175	1732.5	-20.48	42.74	22.26	168.27	
	20375	1752.5	-19.56	42.21	22.65	184.08	
Channel Bandwidth: 5 MHz / 16QAM							
90°	19975	1712.5	-18.44	42.49	24.05	253.80	H
	20175	1732.5	-18.62	42.33	23.71	234.80	
	20375	1752.5	-18.71	42.10	23.39	218.27	
	19975	1712.5	-21.60	42.99	21.39	137.72	V
	20175	1732.5	-21.45	42.74	21.29	134.59	
	20375	1752.5	-21.05	42.21	21.16	130.62	

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)
90°	20000	1715.0	-16.84	42.49	25.65	366.86	H
	20175	1732.5	-16.86	42.33	25.47	352.13	
	20350	1750.0	-16.42	42.10	25.68	369.83	
	20000	1715.0	-20.55	42.99	22.44	175.39	V
	20175	1732.5	-20.14	42.74	22.60	181.97	
	20350	1750.0	-19.68	42.21	22.53	179.06	
Channel Bandwidth: 10 MHz / 16QAM							
90°	20000	1715.0	-18.61	42.49	23.88	244.06	H
	20175	1732.5	-18.15	42.33	24.18	261.79	
	20350	1750.0	-18.23	42.10	23.87	243.78	
	20000	1715.0	-21.51	42.99	21.48	140.60	V
	20175	1732.5	-21.47	42.74	21.27	133.97	
	20350	1750.0	-20.98	42.21	21.23	132.74	

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)
90°	20025	1717.5	-16.23	42.49	26.26	422.18	H
	20175	1732.5	-16.88	42.33	25.45	350.51	
	20325	1747.5	-16.75	42.10	25.35	342.77	
	20025	1717.5	-20.12	42.99	22.87	193.46	V
	20175	1732.5	-20.54	42.74	22.20	165.96	
	20325	1747.5	-20.14	42.21	22.07	161.06	
Channel Bandwidth: 15 MHz / 16QAM							
90°	20025	1717.5	-18.93	42.49	23.56	226.99	H
	20175	1732.5	-18.40	42.33	23.93	247.00	
	20325	1747.5	-18.61	42.10	23.49	223.36	
	20025	1717.5	-21.55	42.99	21.44	139.28	V
	20175	1732.5	-21.72	42.74	21.02	126.47	
	20325	1747.5	-21.04	42.21	21.17	130.92	

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)
90°	20050	1720.0	-15.71	42.49	26.78	475.88	H
	20175	1732.5	-16.57	42.33	25.76	376.44	
	20300	1745.0	-16.81	42.10	25.29	338.06	
	20050	1720.0	-20.42	42.99	22.57	180.72	V
	20175	1732.5	-20.44	42.74	22.30	169.82	
	20300	1745.0	-20.20	42.21	22.01	158.85	
Channel Bandwidth: 20 MHz / 16QAM							
90°	20050	1720.0	-18.62	42.49	23.87	243.50	H
	20175	1732.5	-18.45	42.33	23.88	244.17	
	20300	1745.0	-18.42	42.10	23.68	233.35	
	20050	1720.0	-21.54	42.99	21.45	139.64	V
	20175	1732.5	-21.47	42.74	21.27	133.97	
	20300	1745.0	-21.17	42.21	21.04	127.06	

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, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

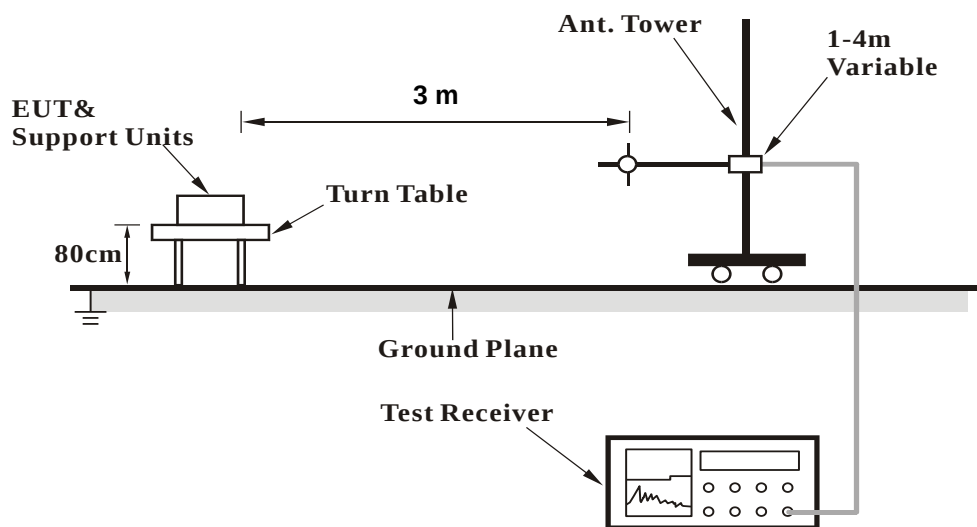
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.2.3 Deviation from Test Standard

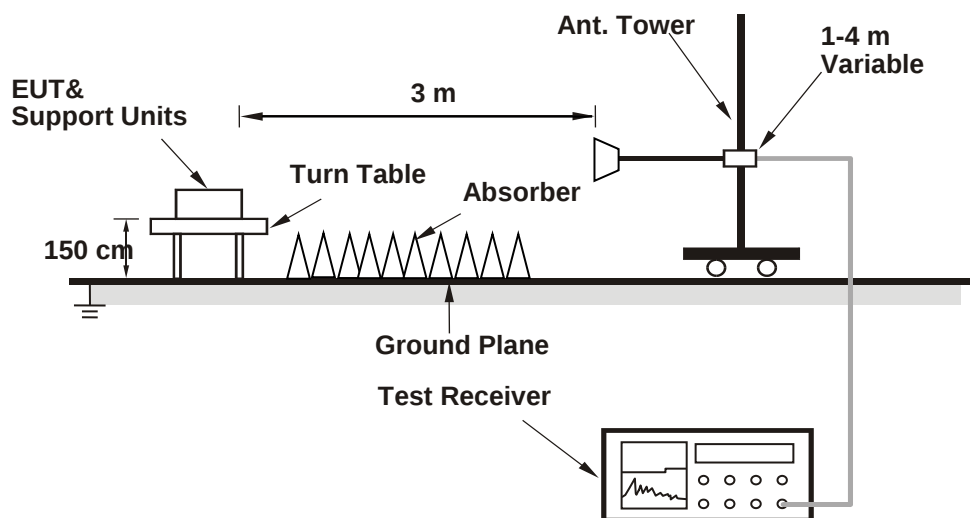
No deviation.

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

WCDMA:

Low Channel

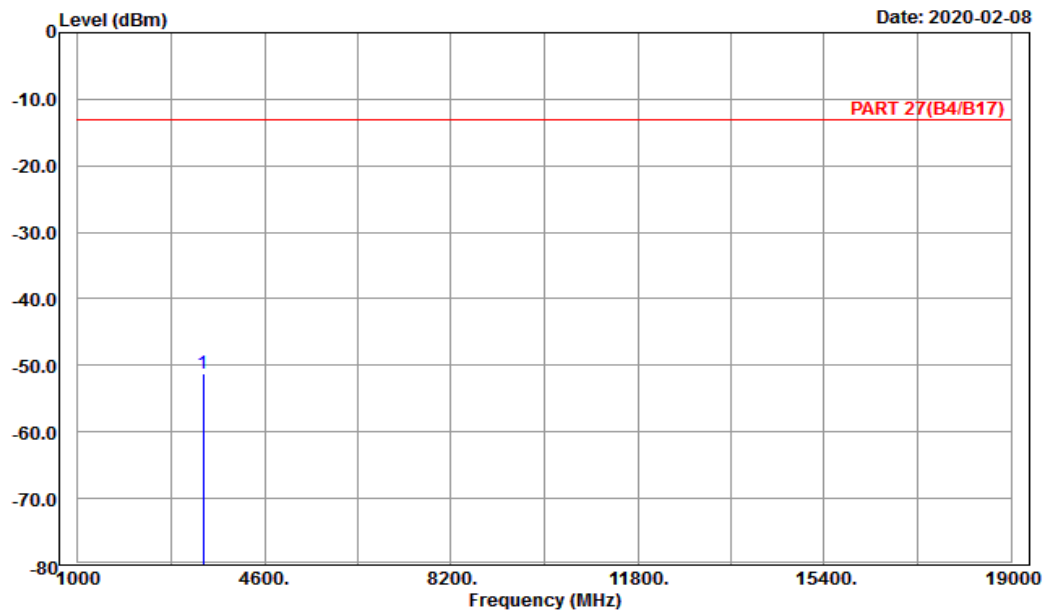


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Horizontal
Remark : Band IV_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	3424.80	-51.18	-65.55	14.37	-13.00	-38.18	Peak

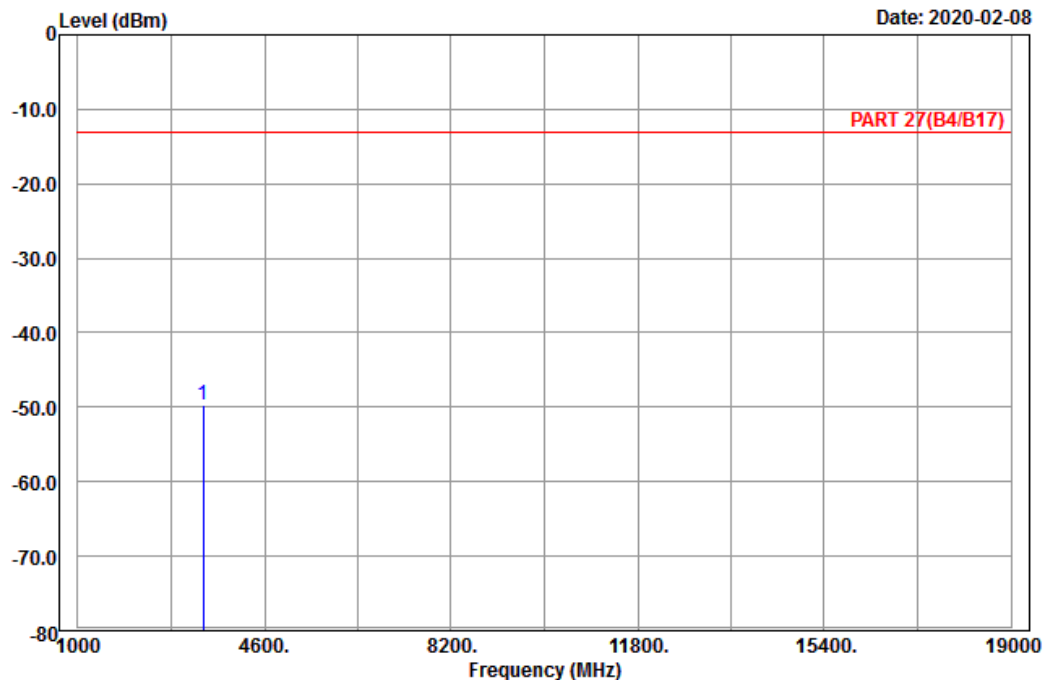


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : Band IV_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	3424.80	-49.68	-64.05	14.37	-13.00	-36.68	Peak

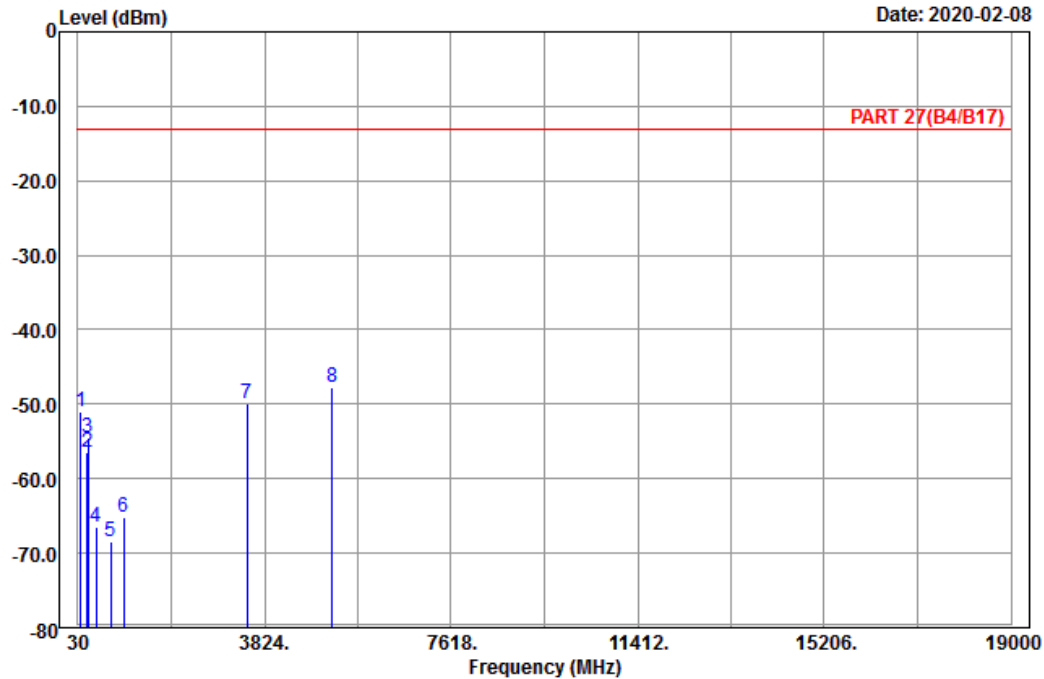
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Horizontal
 Remark : Band IV_Link_M-Ch
 Tested by: Karl Lee

		Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm	dBm	dBm	dB	dB		
1	82.38	-51.05	-39.50	-13.00	-38.05	-11.55	Peak
2	211.98	-56.35	-50.34	-13.00	-43.35	-6.01	Peak
3	232.50	-54.48	-48.74	-13.00	-41.48	-5.74	Peak
4	405.70	-66.50	-63.63	-13.00	-53.50	-2.87	Peak
5	695.50	-68.54	-68.19	-13.00	-55.54	-0.35	Peak
6	963.60	-65.19	-70.34	-13.00	-52.19	5.15	Peak
7	3465.00	-49.97	-64.31	-13.00	-36.97	14.34	Peak
8 pp	5197.80	-47.76	-67.88	-13.00	-34.76	20.12	Peak

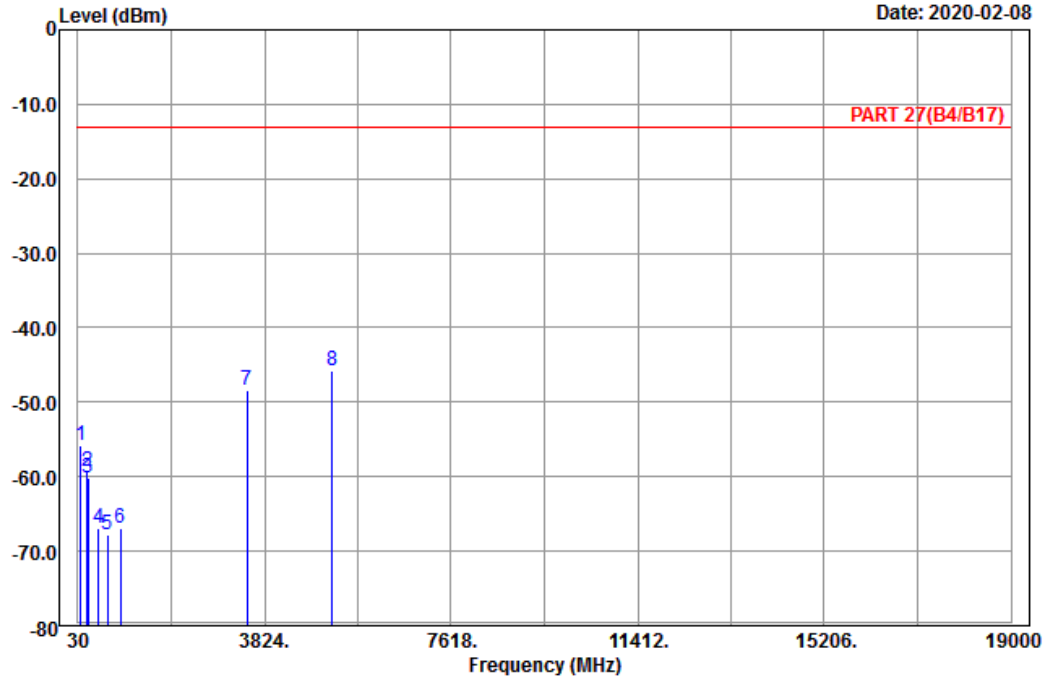


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : Band IV_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	83.46	-55.86	-44.42	-13.00	-42.86	-11.44	Peak
2	217.11	-59.36	-53.41	-13.00	-46.36	-5.95	Peak
3	236.55	-60.10	-54.41	-13.00	-47.10	-5.69	Peak
4	457.50	-66.95	-62.88	-13.00	-53.95	-4.07	Peak
5	626.20	-67.78	-67.91	-13.00	-54.78	0.13	Peak
6	901.30	-66.94	-69.87	-13.00	-53.94	2.93	Peak
7	3465.00	-48.40	-62.74	-13.00	-35.40	14.34	Peak
8 pp	5197.80	-45.76	-65.88	-13.00	-32.76	20.12	Peak

High Channel

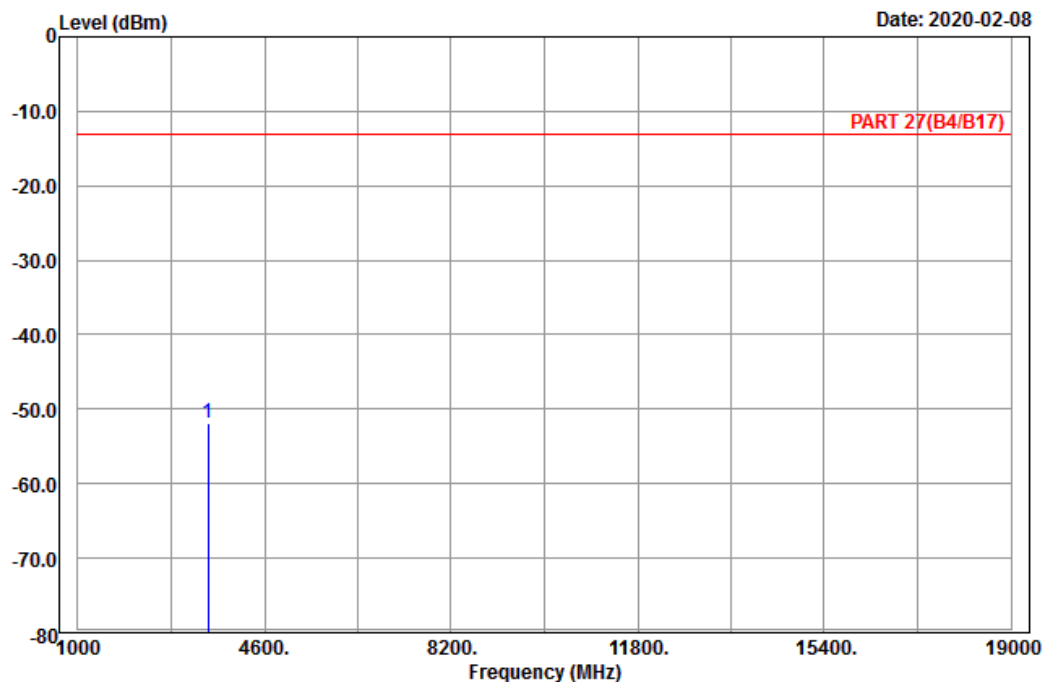


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 3

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Horizontal
Remark : Band IV_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	3505.20	-51.79	-66.07	14.28	-13.00	-38.79	Peak

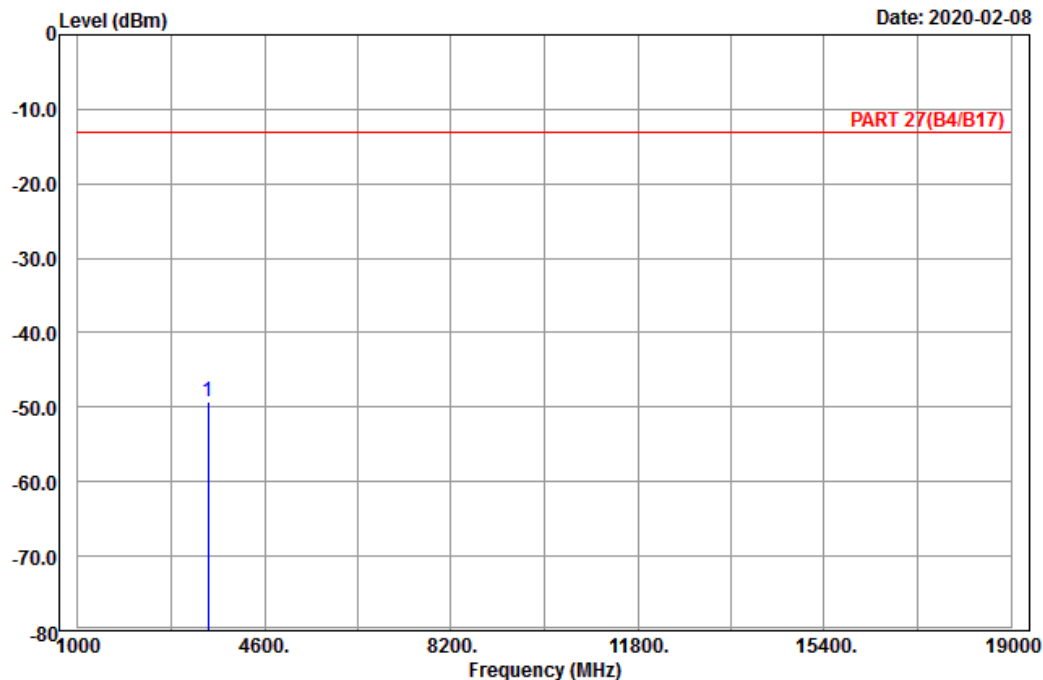


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Vertical
 Remark : Band IV_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	3505.20	-49.24	-63.52	14.28	-13.00	-36.24	Peak

LTE Band 4
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel

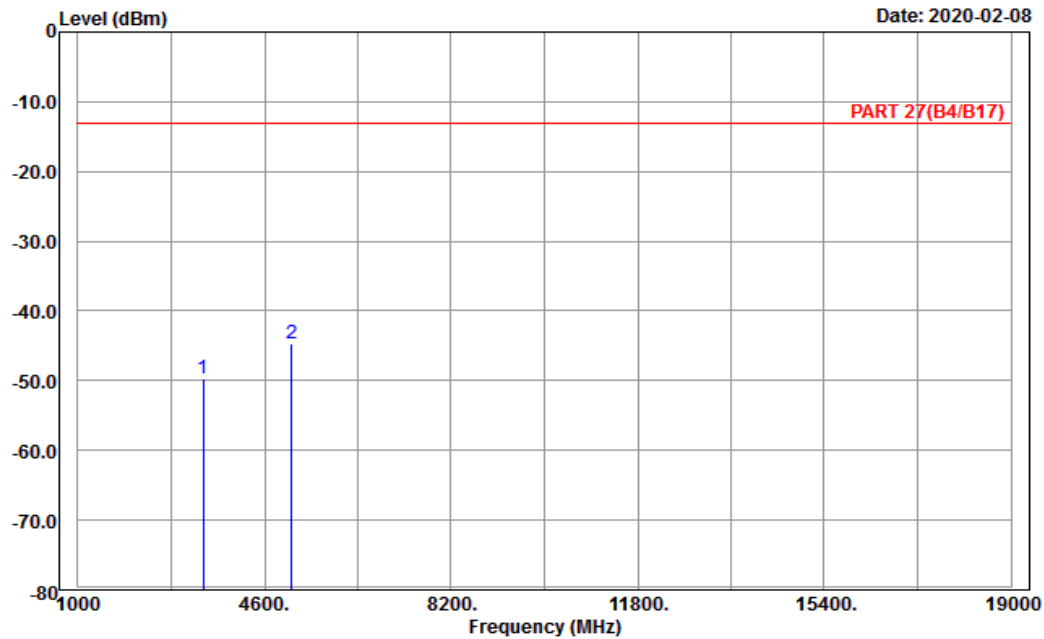


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Horizontal
Remark : LTE_Band 4_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3421.40	-49.74	-64.11	14.37	-13.00	-36.74	Peak
2 pp	5132.10	-44.60	-64.41	19.81	-13.00	-31.60	Peak

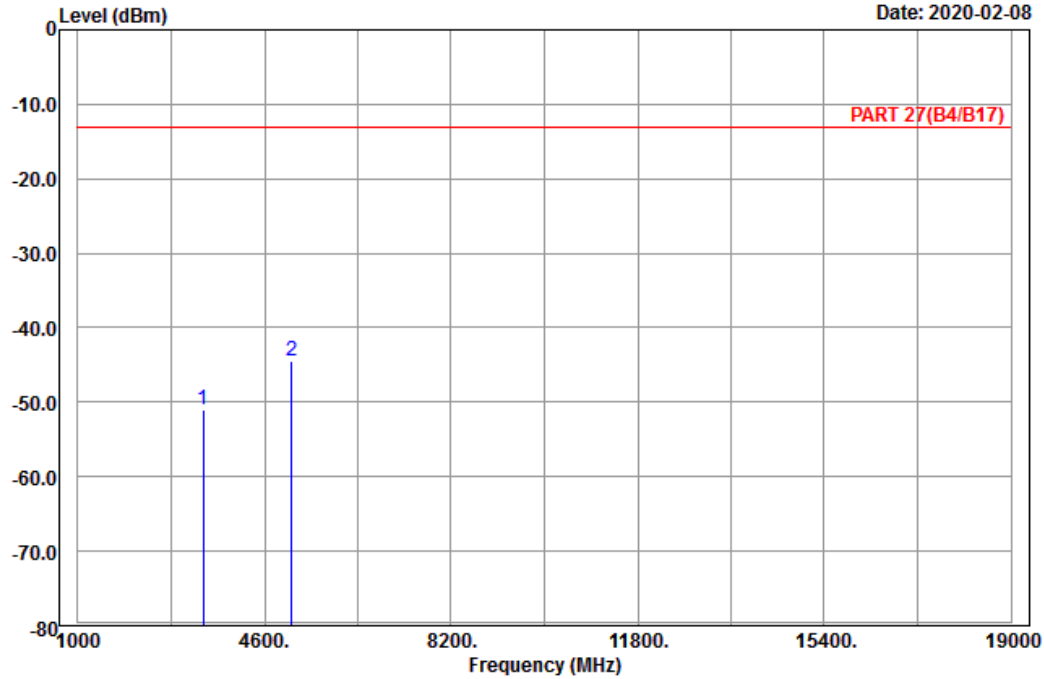


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3421.40	-50.93	-65.30	14.37	-13.00	-37.93	Peak
2 pp	5132.10	-44.46	-64.27	19.81	-13.00	-31.46	Peak

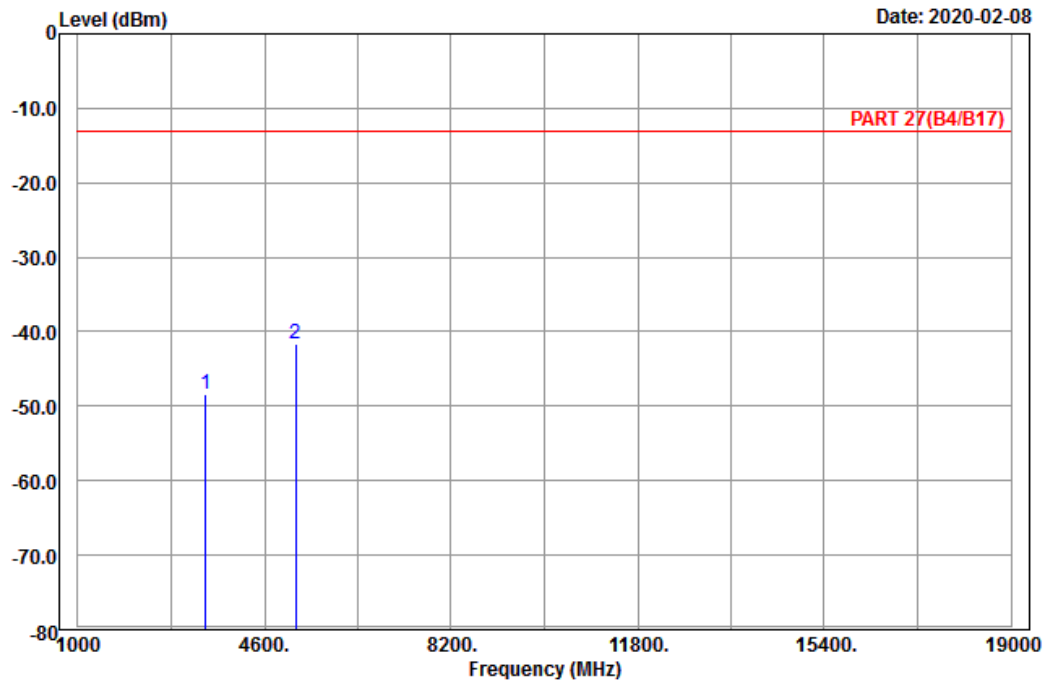
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Horizontal
 Remark : LTE_Band 4_Link_M-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3465.00	-48.39	-62.73	14.34	-13.00	-35.39	Peak
2 pp	5197.50	-41.74	-61.86	20.12	-13.00	-28.74	Peak

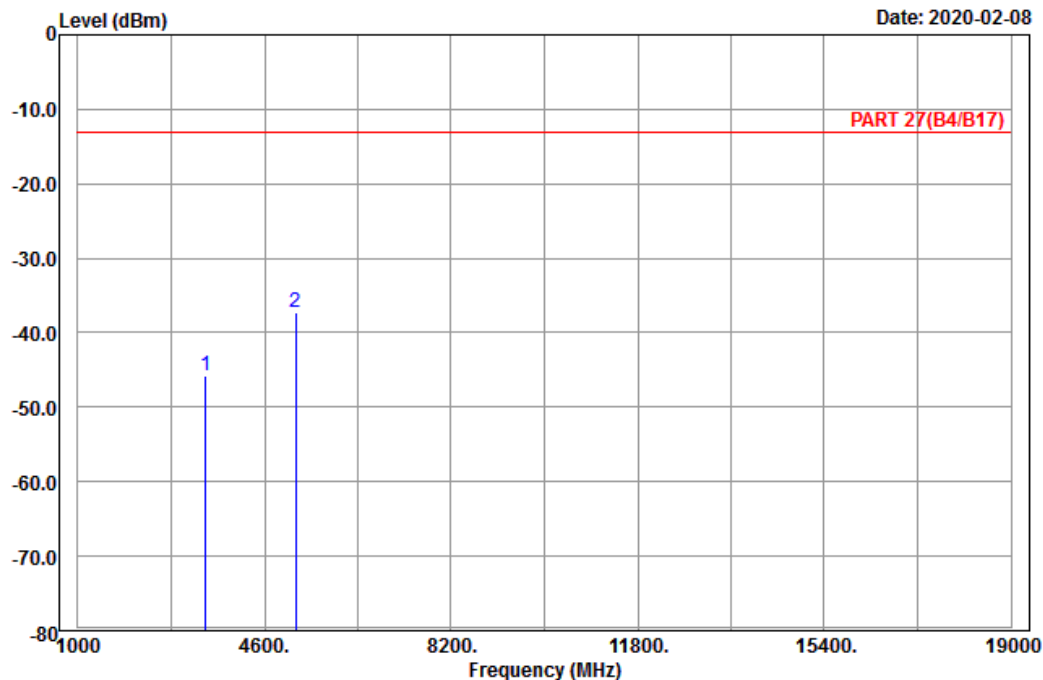


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3465.00	-45.80	-60.14	14.34	-13.00	-32.80	Peak
2 pp	5197.50	-37.19	-57.31	20.12	-13.00	-24.19	Peak

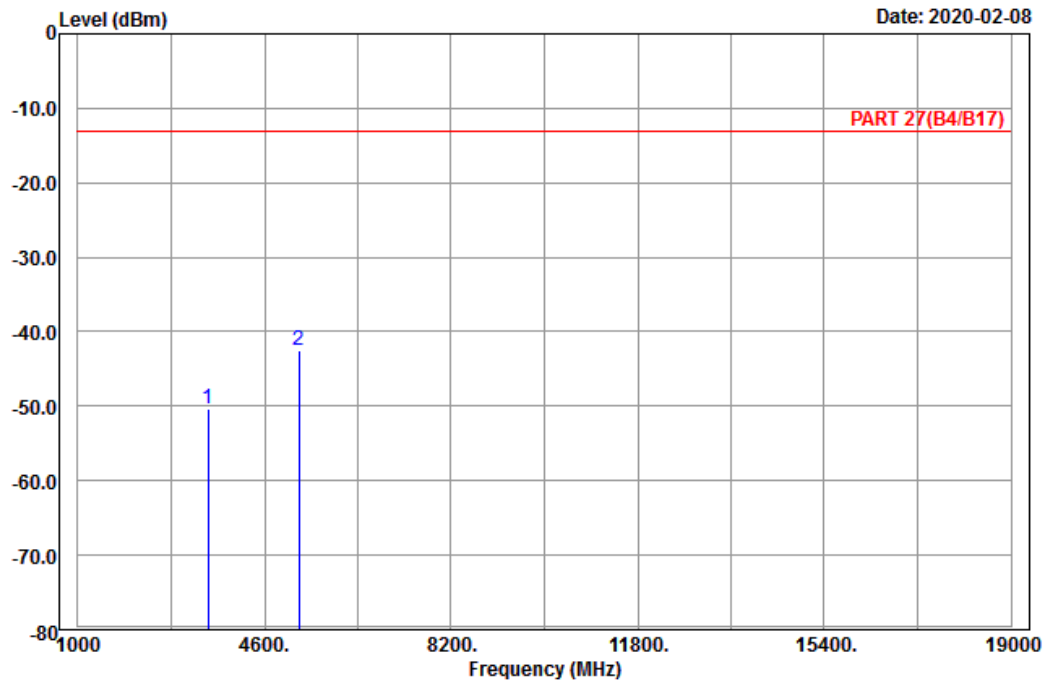
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 chamber 1
Condition: PART 27(B4/B17) Horizontal
Remark : LTE_Band 4_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3508.60	-50.28	-64.56	14.28	-13.00	-37.28	Peak
2 pp	5262.90	-42.43	-62.63	20.20	-13.00	-29.43	Peak

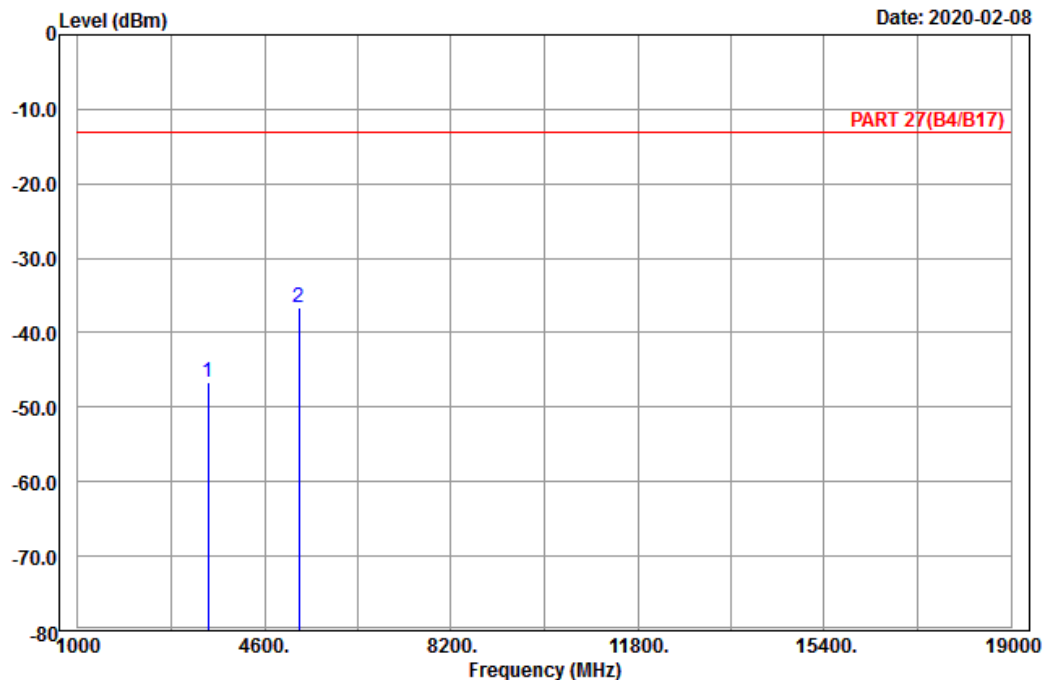


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3508.60	-46.72	-61.00	14.28	-13.00	-33.72	Peak
2 pp	5262.90	-36.52	-56.72	20.20	-13.00	-23.52	Peak

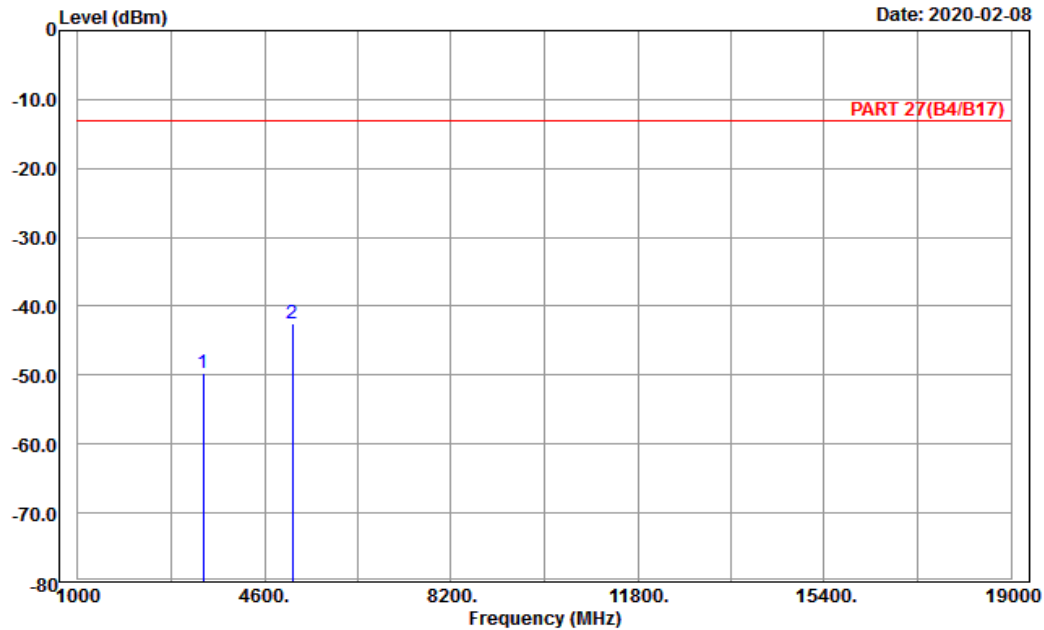
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 chamber 1
Condition: PART 27(B4/B17) Horizontal
Remark : LTE_Band 4_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3425.00	-49.74	-64.11	14.37	-13.00	-36.74	Peak
2 pp	5137.50	-42.53	-62.34	19.81	-13.00	-29.53	Peak

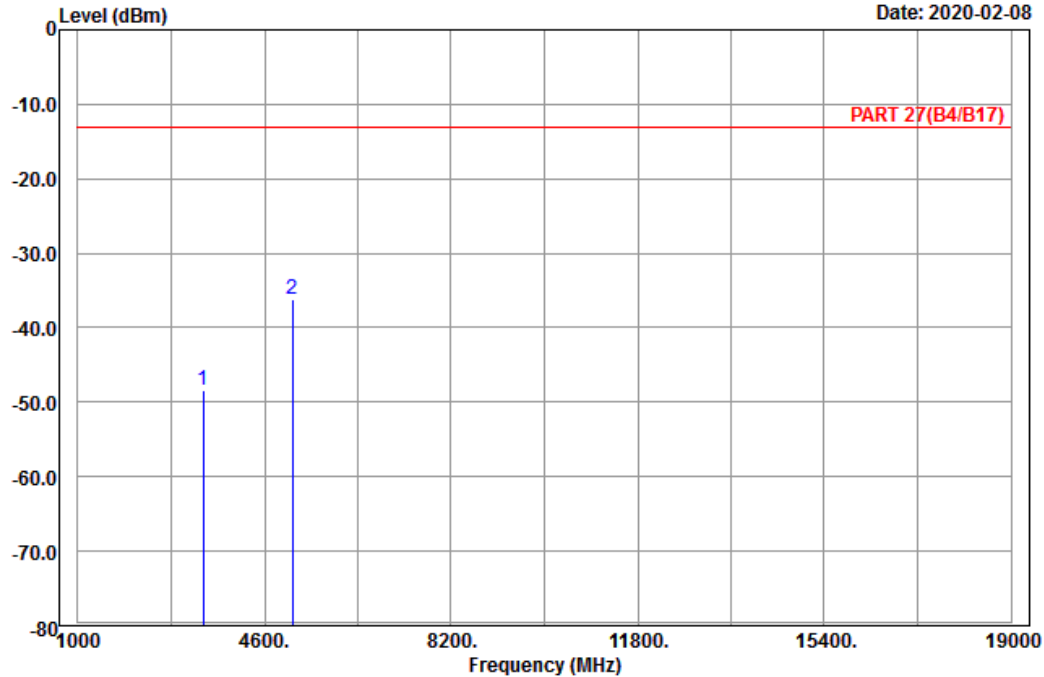


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3425.00	-48.35	-62.72	14.37	-13.00	-35.35	Peak
2 pp	5137.50	-36.16	-55.97	19.81	-13.00	-23.16	Peak

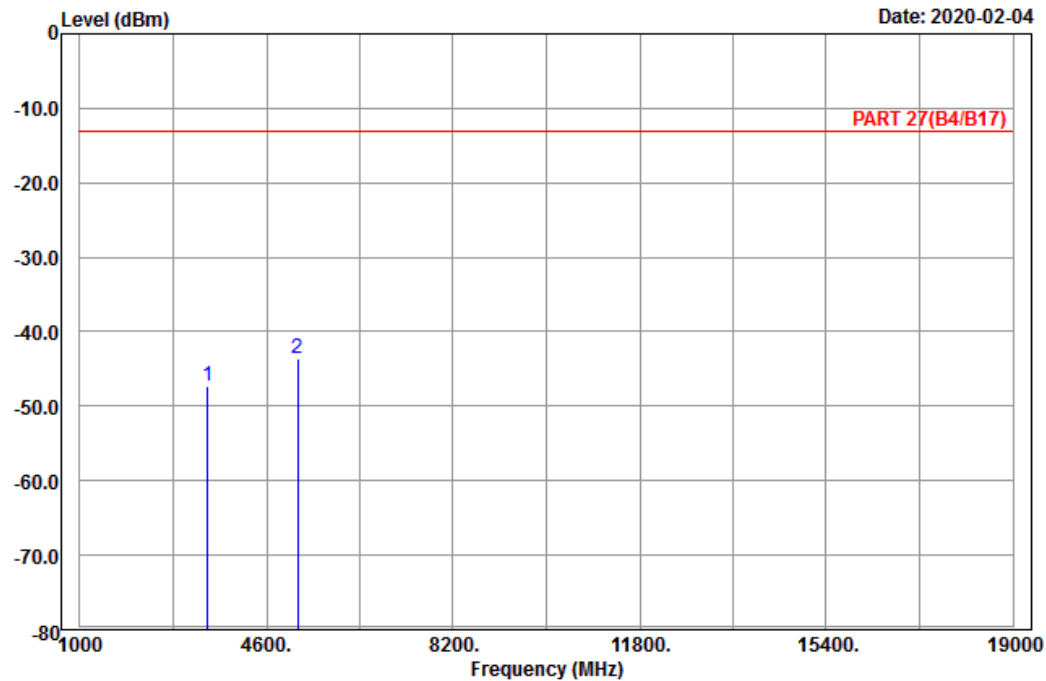
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Horizontal
 Remark : LTE_Band 4_Link_M-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3465.00	-47.26	-61.60	14.34	-13.00	-34.26	Peak
2 pp	5197.50	-43.66	-63.78	20.12	-13.00	-30.66	Peak

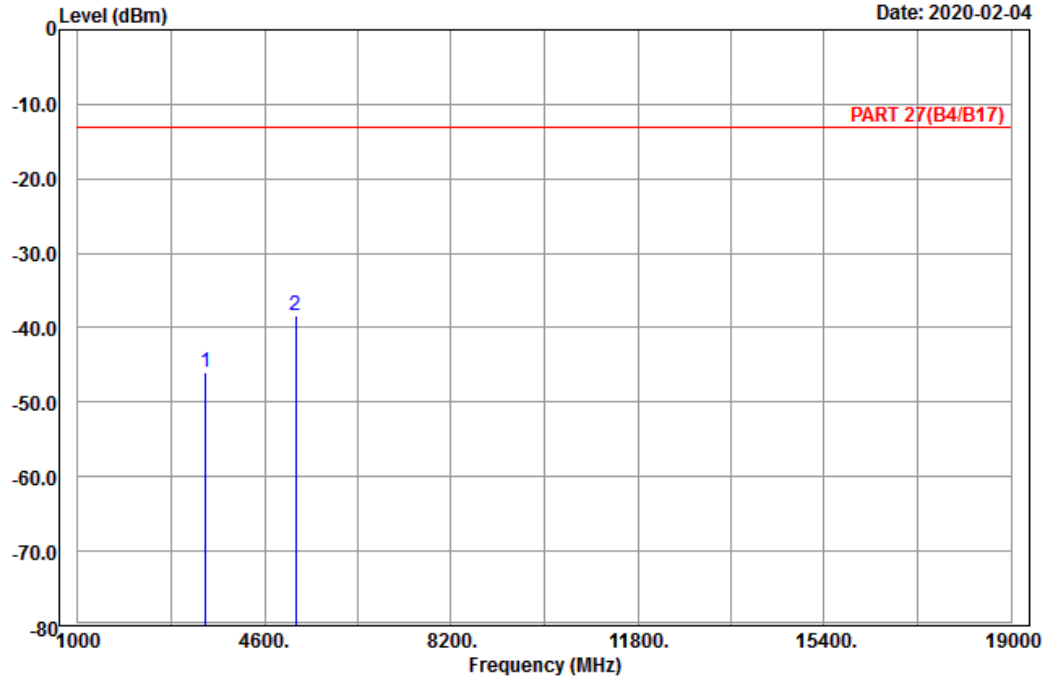


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3465.00	-46.10	-60.44	14.34	-13.00	-33.10	Peak
2 pp	5197.50	-38.28	-58.40	20.12	-13.00	-25.28	Peak

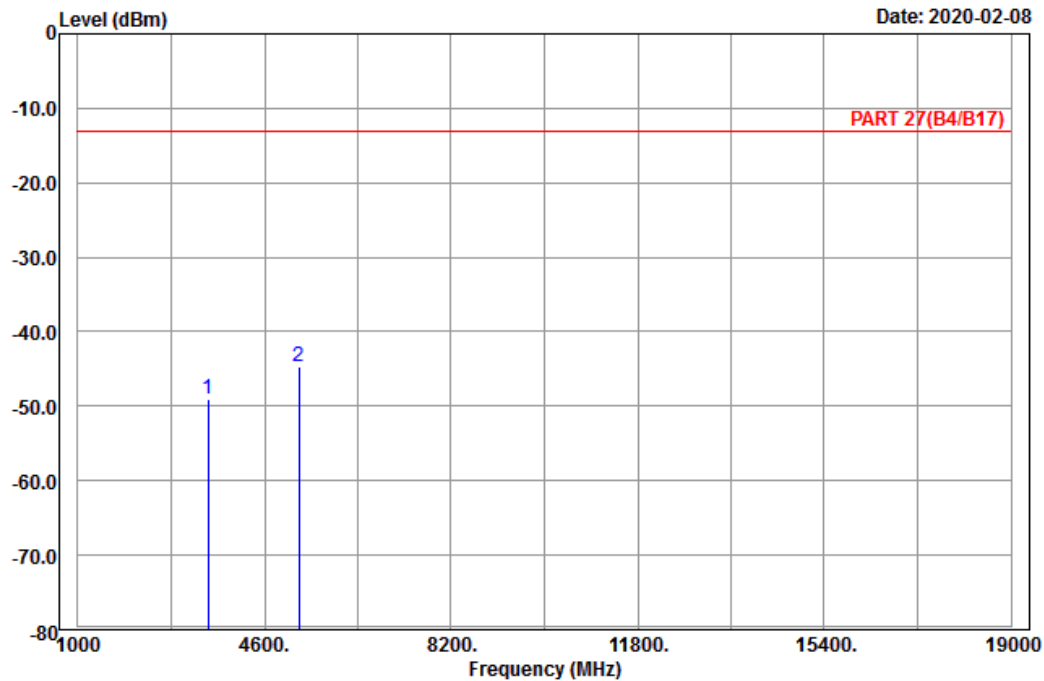
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Horizontal
 Remark : LTE_Band 4_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3505.00	-48.97	-63.25	14.28	-13.00	-35.97	Peak
2 pp	5257.50	-44.68	-64.88	20.20	-13.00	-31.68	Peak

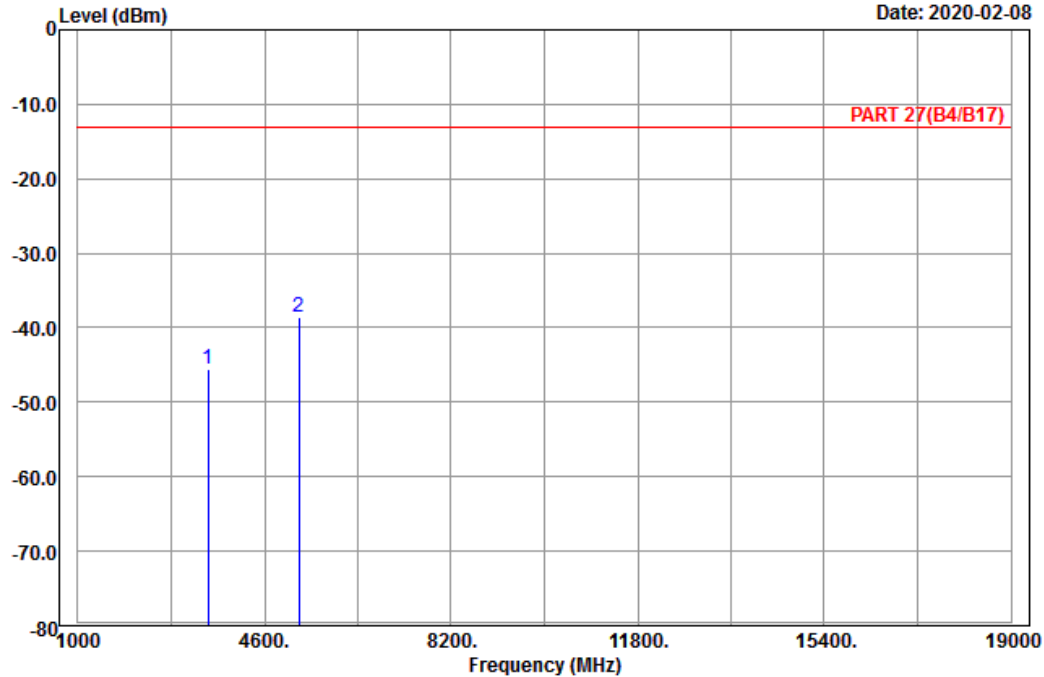


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3505.00	-45.66	-59.94	14.28	-13.00	-32.66	Peak
2 pp	5257.50	-38.68	-58.88	20.20	-13.00	-25.68	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

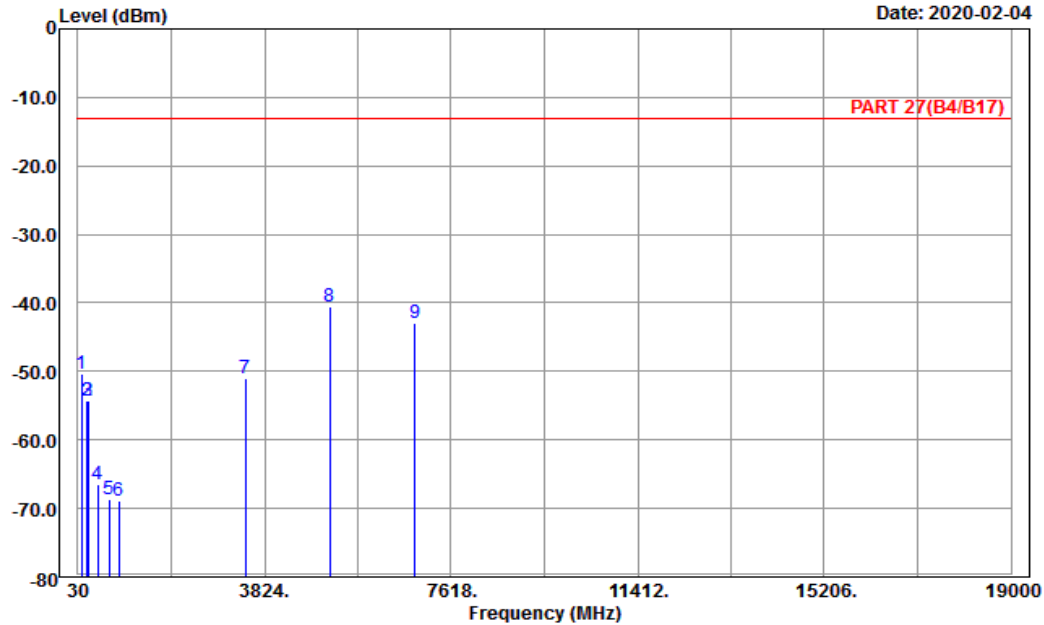


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B4/B17) Horizontal
Remark : LTE_Band 4_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read	Limit	Over	
	MHz	dBm	Level	Line	Limit	Remark
			Factor			
			dB			
1	96.96	-50.32	-40.03	-10.29	-13.00	-37.32 Peak
2	221.43	-54.26	-48.36	-5.90	-13.00	-41.26 Peak
3	241.41	-54.18	-48.56	-5.62	-13.00	-41.18 Peak
4	433.00	-66.59	-63.13	-3.46	-13.00	-53.59 Peak
5	669.60	-68.75	-68.52	-0.23	-13.00	-55.75 Peak
6	865.60	-68.87	-70.76	1.89	-13.00	-55.87 Peak
7	3440.00	-50.94	-65.29	14.35	-13.00	-37.94 Peak
8 pp	5160.00	-40.53	-60.45	19.92	-13.00	-27.53 Peak
9	6880.00	-42.98	-65.78	22.80	-13.00	-29.98 Peak

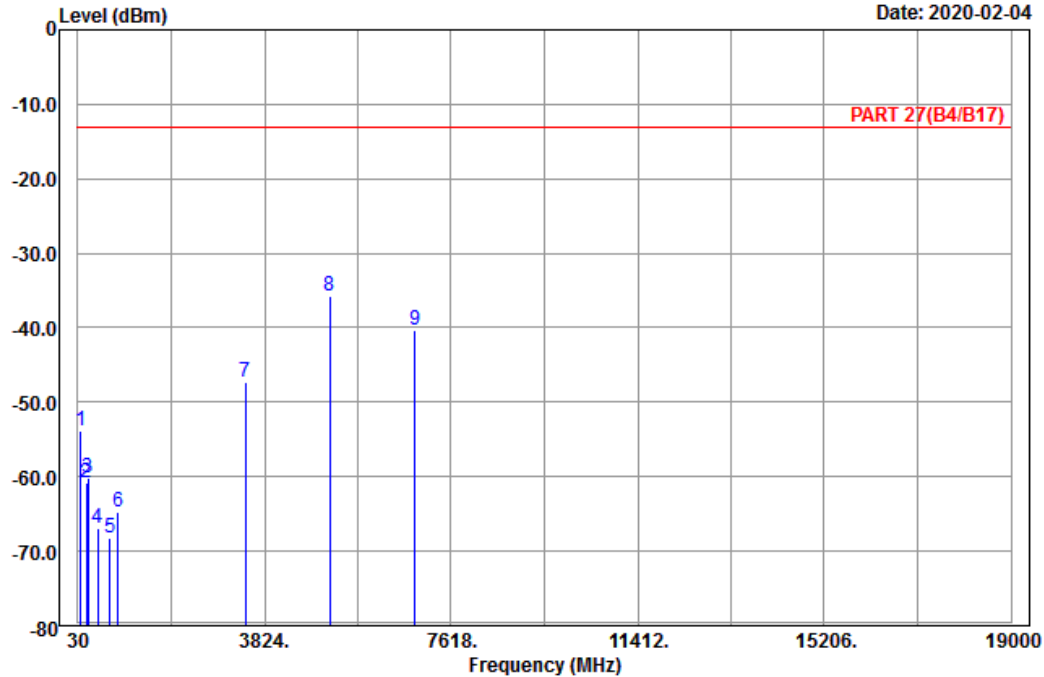


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	91.29	-53.94	-43.32	-10.62	-13.00	-40.94	Peak
2	210.36	-60.74	-54.70	-6.04	-13.00	-47.74	Peak
3	241.95	-60.24	-54.63	-5.61	-13.00	-47.24	Peak
4	441.40	-66.97	-63.32	-3.65	-13.00	-53.97	Peak
5	688.50	-68.16	-67.84	-0.32	-13.00	-55.16	Peak
6	848.10	-64.82	-66.29	1.47	-13.00	-51.82	Peak
7	3440.00	-47.26	-61.61	14.35	-13.00	-34.26	Peak
8 pp	5160.00	-35.78	-55.70	19.92	-13.00	-22.78	Peak
9	6880.00	-40.29	-63.09	22.80	-13.00	-27.29	Peak

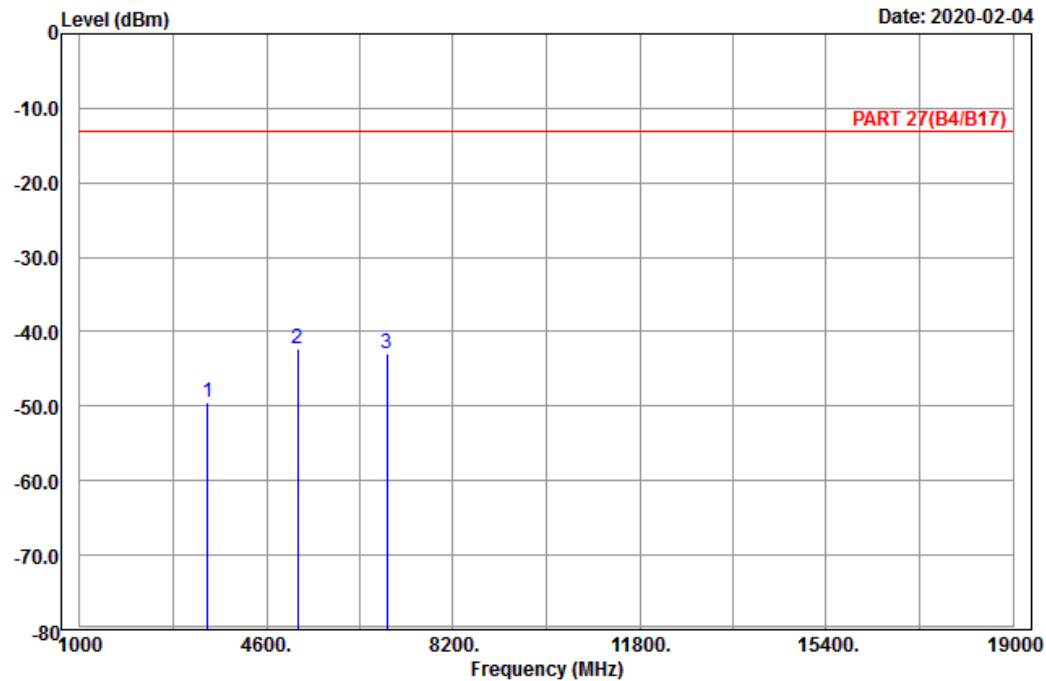
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Horizontal
 Remark : LTE_Band 4_Link_M-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3465.00	-49.38	-63.72	14.34	-13.00	-36.38	Peak
2	5197.50	-42.34	-62.46	20.12	-13.00	-29.34	Peak
3	6930.00	-42.90	-65.77	22.87	-13.00	-29.90	Peak

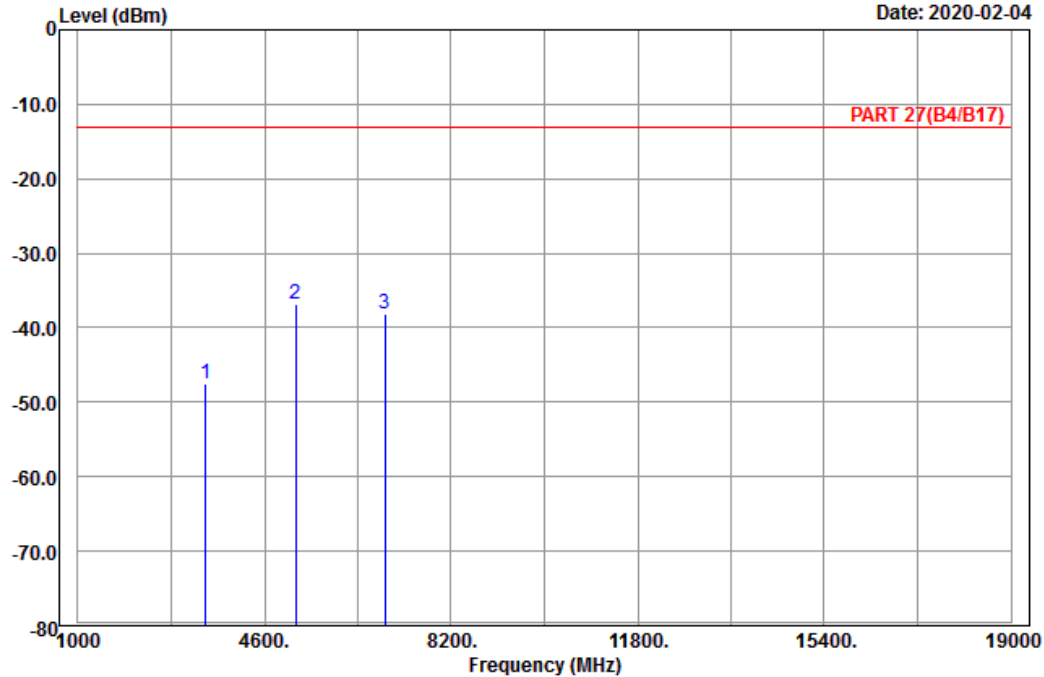


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3465.00	-47.52	-61.86	14.34	-13.00	-34.52	Peak
2 pp	5197.50	-36.90	-57.02	20.12	-13.00	-23.90	Peak
3	6930.00	-38.18	-61.05	22.87	-13.00	-25.18	Peak

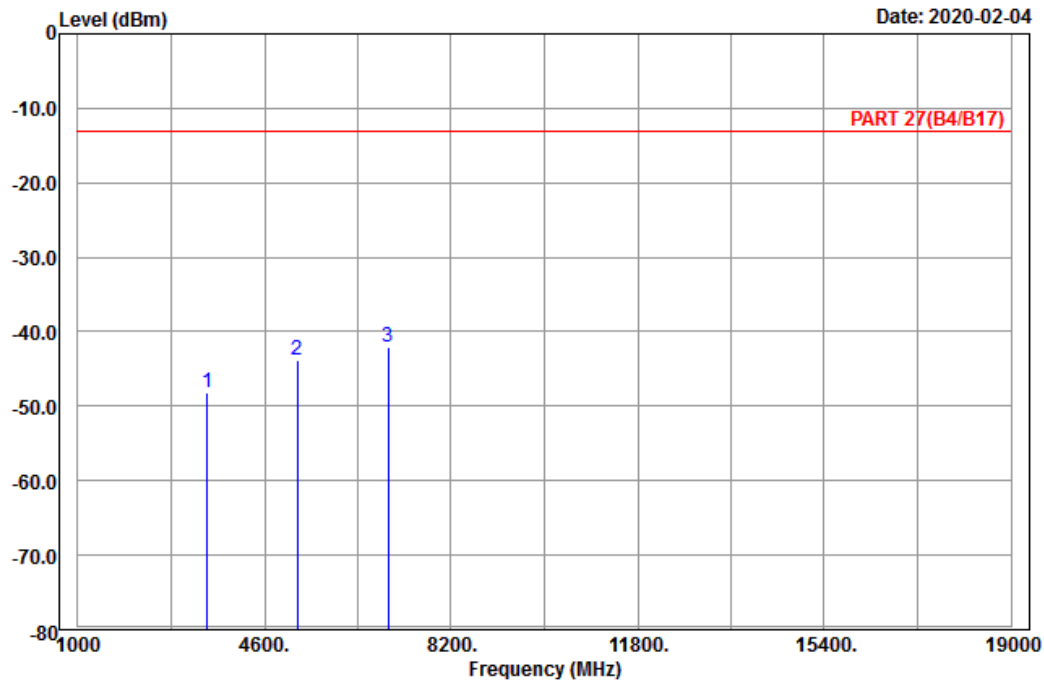
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1
 Condition: PART 27(B4/B17) Horizontal
 Remark : LTE_Band 4_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3490.00	-48.28	-62.59	14.31	-13.00	-35.28	Peak
2	5235.00	-43.92	-64.08	20.16	-13.00	-30.92	Peak
3 pp	6980.00	-42.14	-64.83	22.69	-13.00	-29.14	Peak

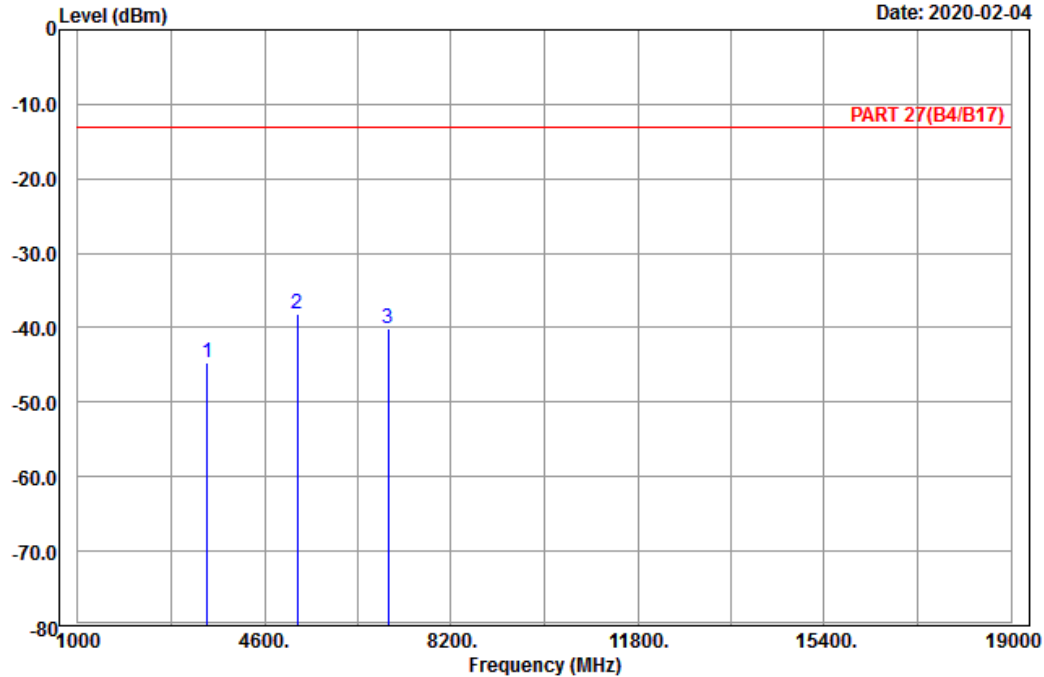


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B4/B17) Vertical
Remark : LTE_Band 4_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3490.00	-44.70	-59.01	14.31	-13.00	-31.70	Peak
2 pp	5235.00	-38.16	-58.32	20.16	-13.00	-25.16	Peak
3	6980.00	-40.06	-62.75	22.69	-13.00	-27.06	Peak

LTE Band 12
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel

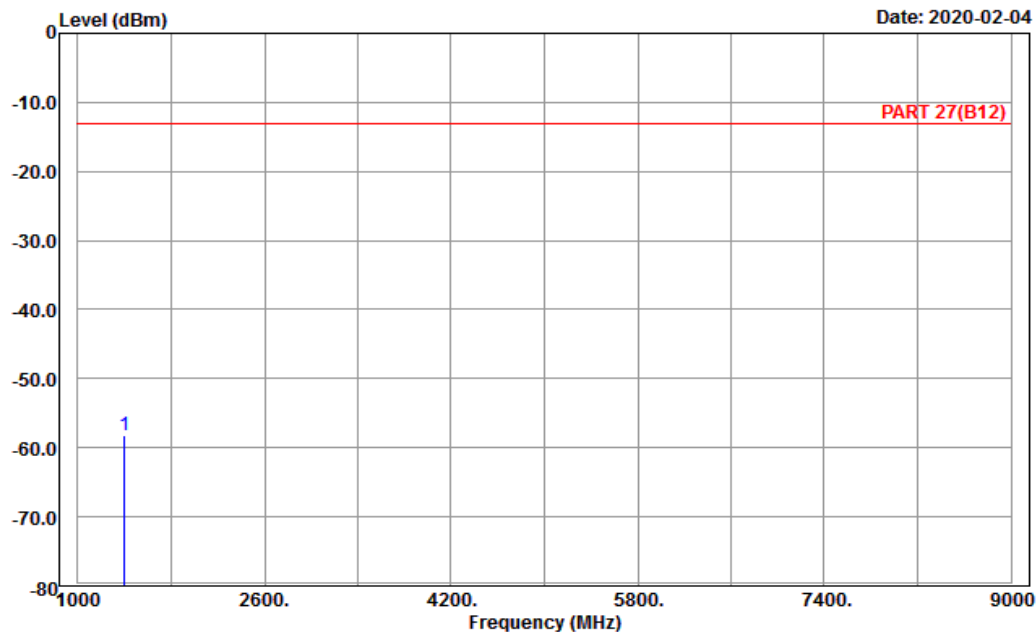


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Horizontal
Remark : LTE_Band 12_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1399.40	-58.23	-64.33	6.10	-13.00	-45.23	Peak

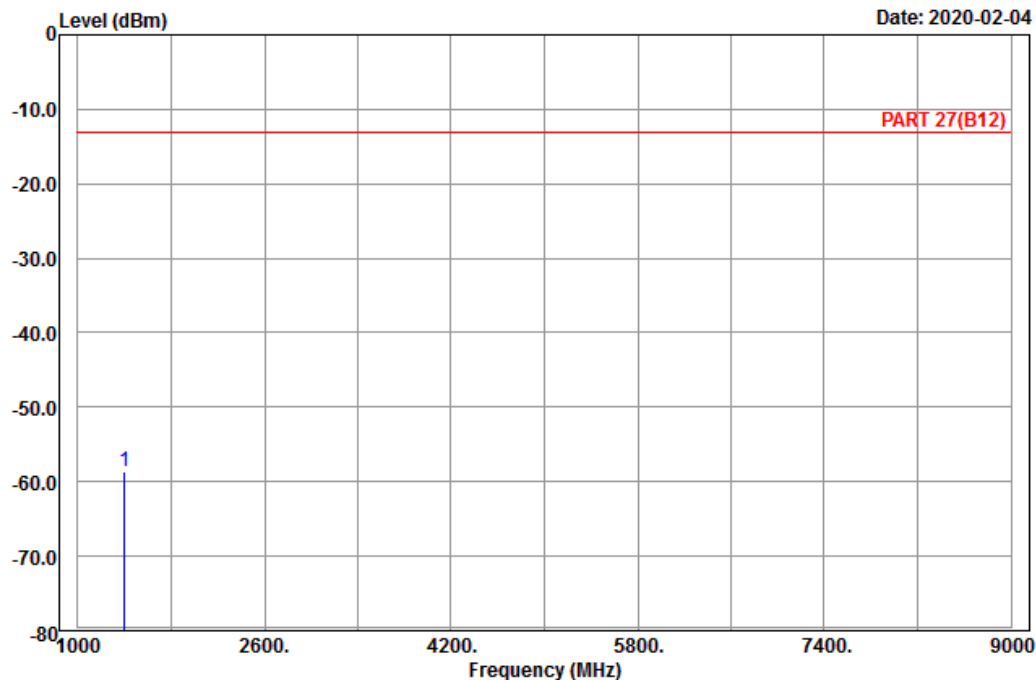


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1399.40	-58.57	-64.67	6.10	-13.00	-45.57	Peak

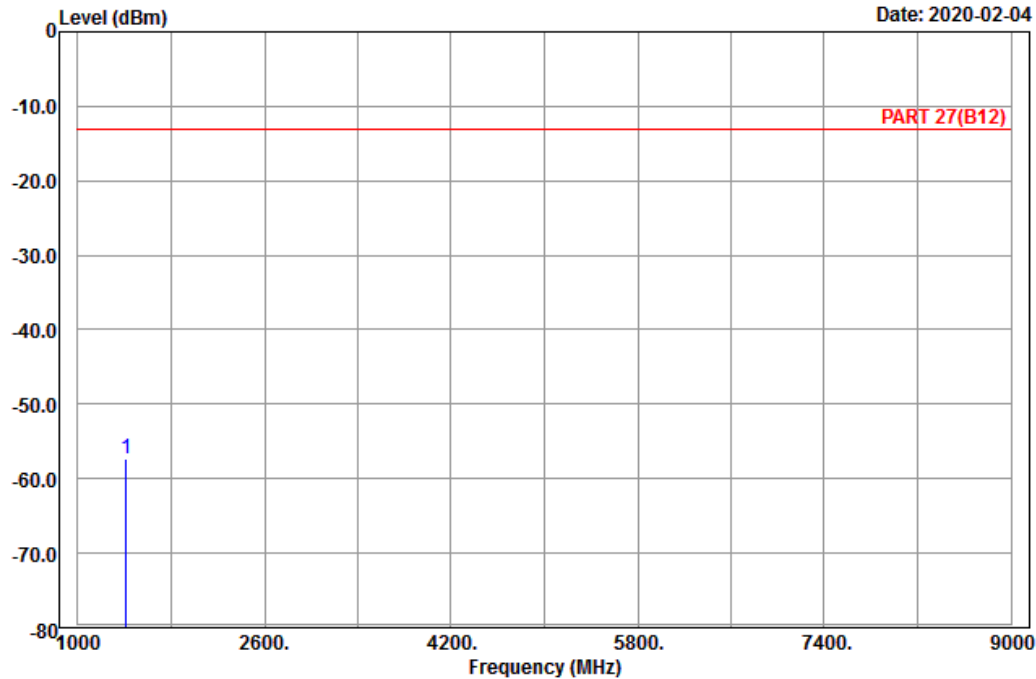
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 27(B12) Horizontal
Remark : LTE_Band 12_Link_M-Ch
Tested by: Karl Lee

Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
MHz	dBm	dBm	dB	dBm	dB	
1 pp 1415.00	-57.26	-63.62	6.36	-13.00	-44.26	Peak

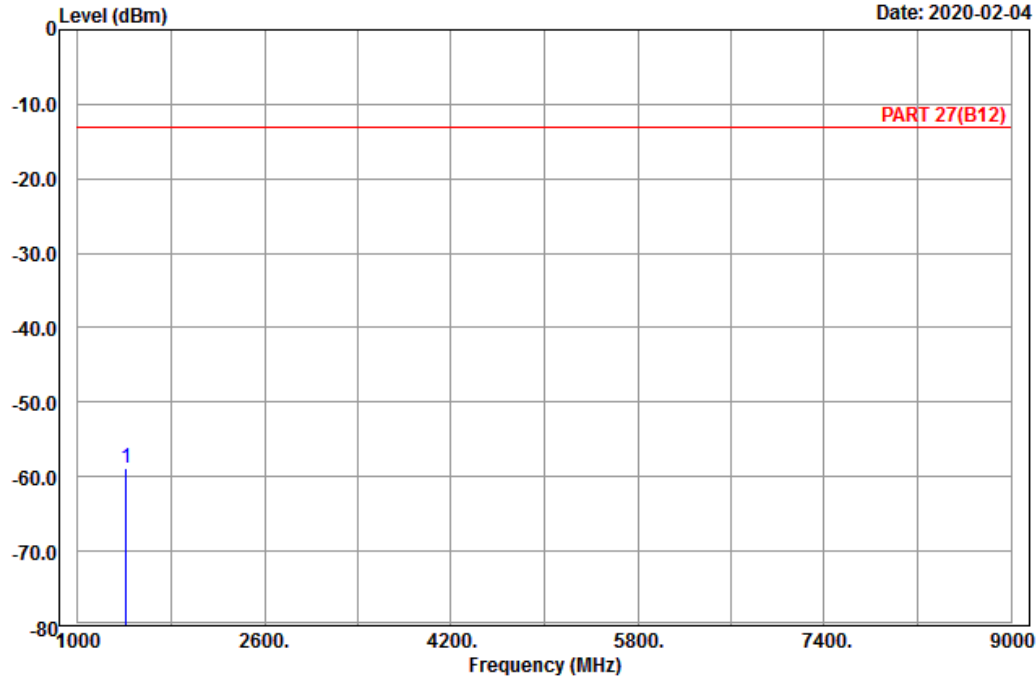


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1415.00	-58.84	-65.20	6.36	-13.00	-45.84	Peak

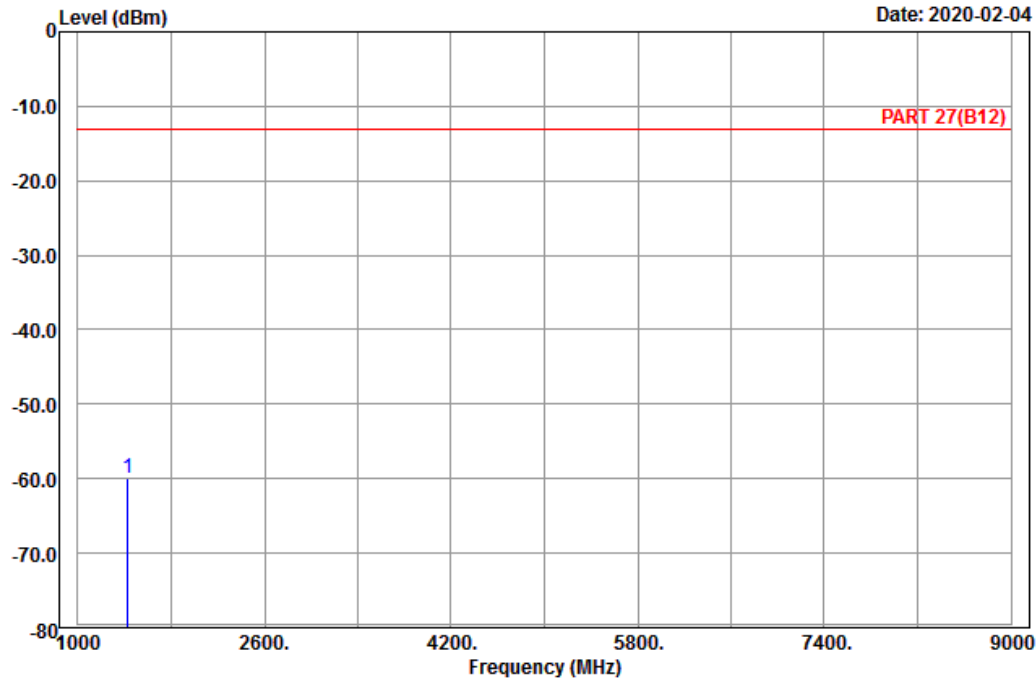
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 27(B12) Horizontal
 Remark : LTE_Band 12_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1430.60	-60.05	-66.29	6.24	-13.00	-47.05	Peak

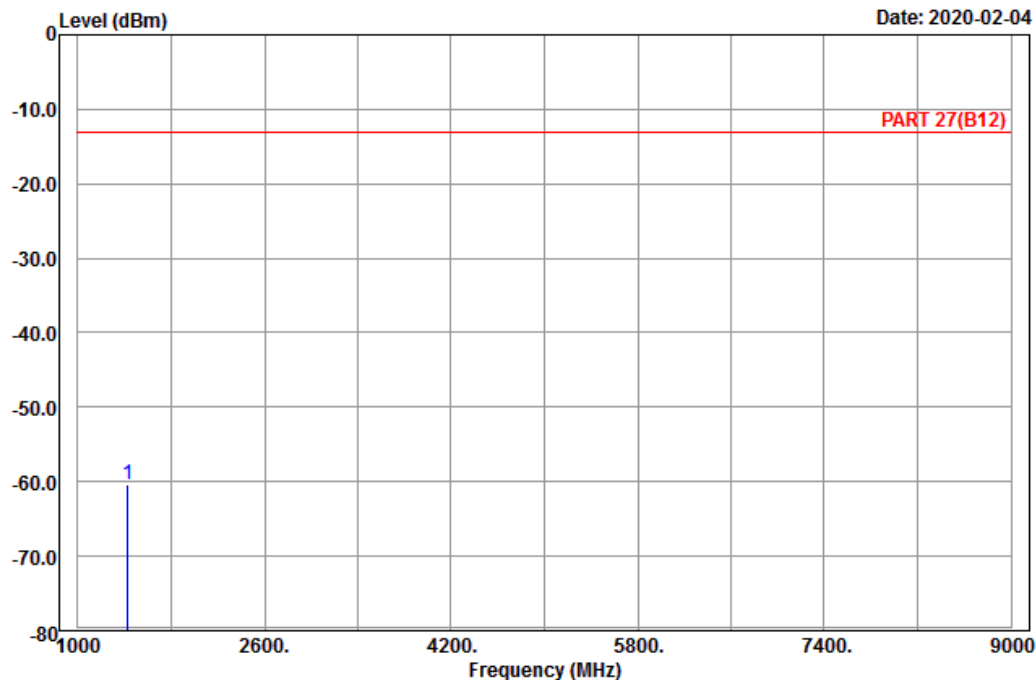


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1430.60	-60.38	-66.62	6.24	-13.00	-47.38	Peak

Channel Bandwidth: 5 MHz / QPSK
Low Channel

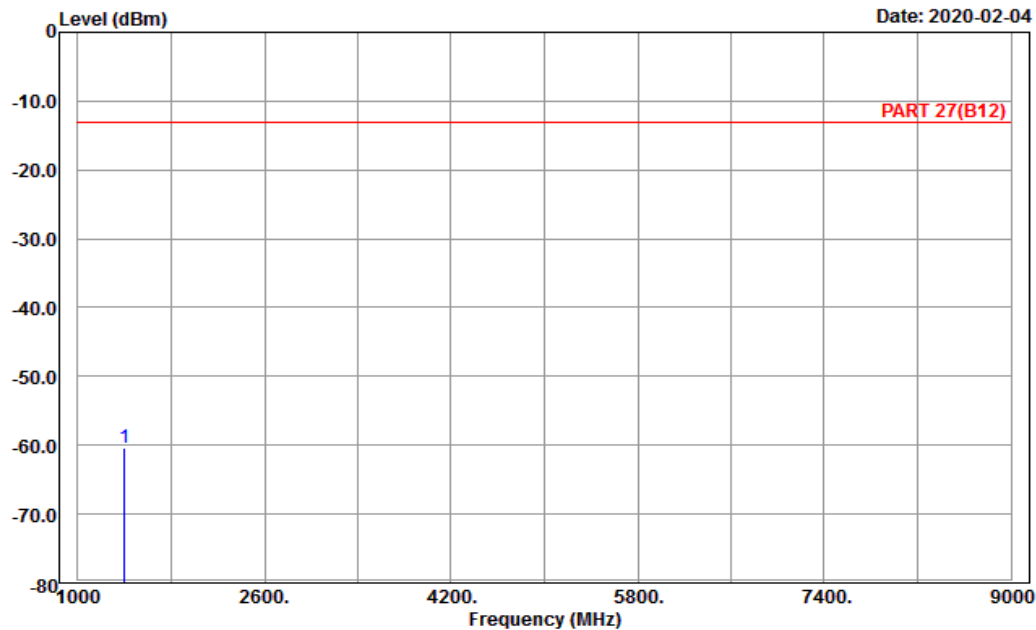


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Horizontal
Remark : LTE_Band 12_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1403.00	-60.46	-66.56	6.10	-13.00	-47.46	Peak

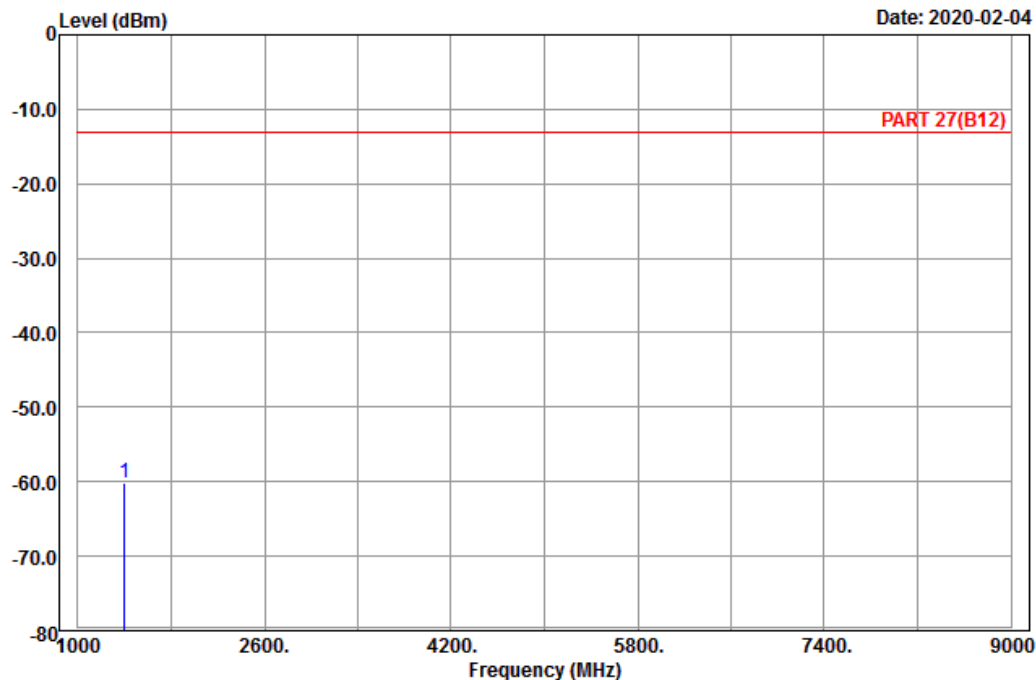


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
 Condition: PART 27(B12) Vertical
 Remark : LTE_Band 12_Link_L-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1403.00	-60.25	-66.35	6.10	-13.00	-47.25	Peak

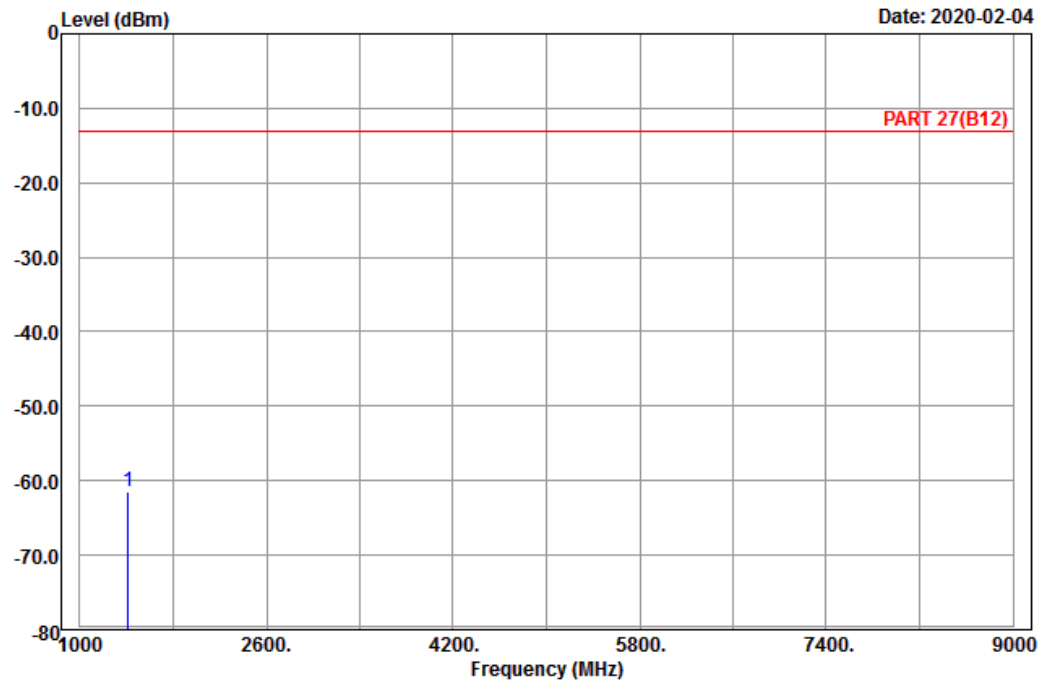
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 27(B12) Horizontal
 Remark : LTE_Band 12_Link_M-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1415.00	-61.42	-67.78	6.36	-13.00	-48.42	Peak

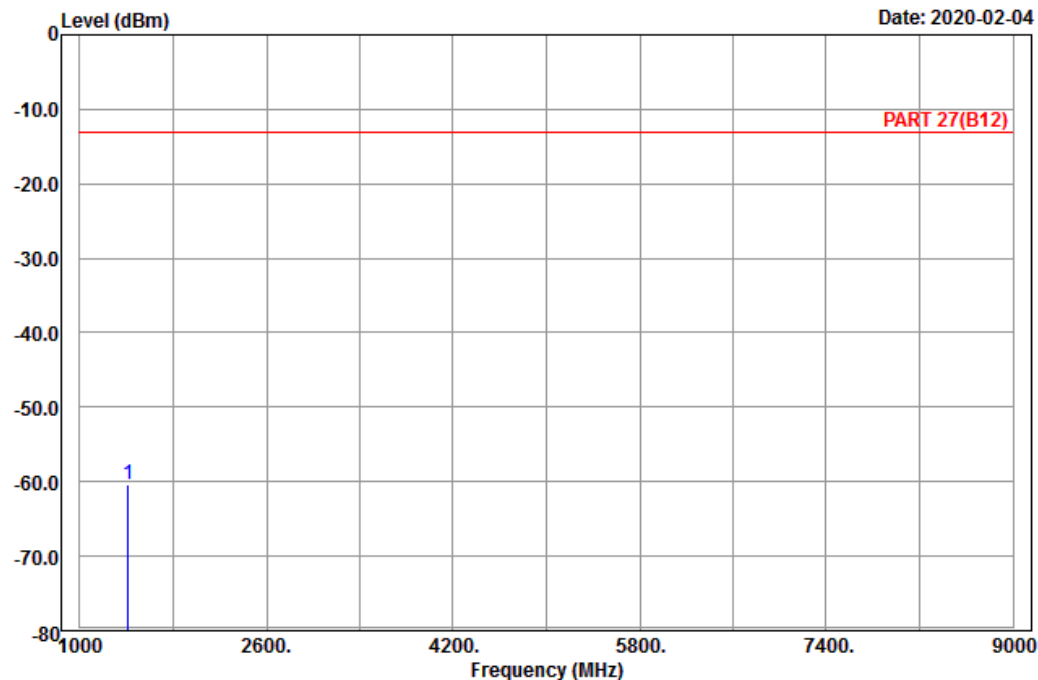


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1415.00	-60.49	-66.85	6.36	-13.00	-47.49	Peak

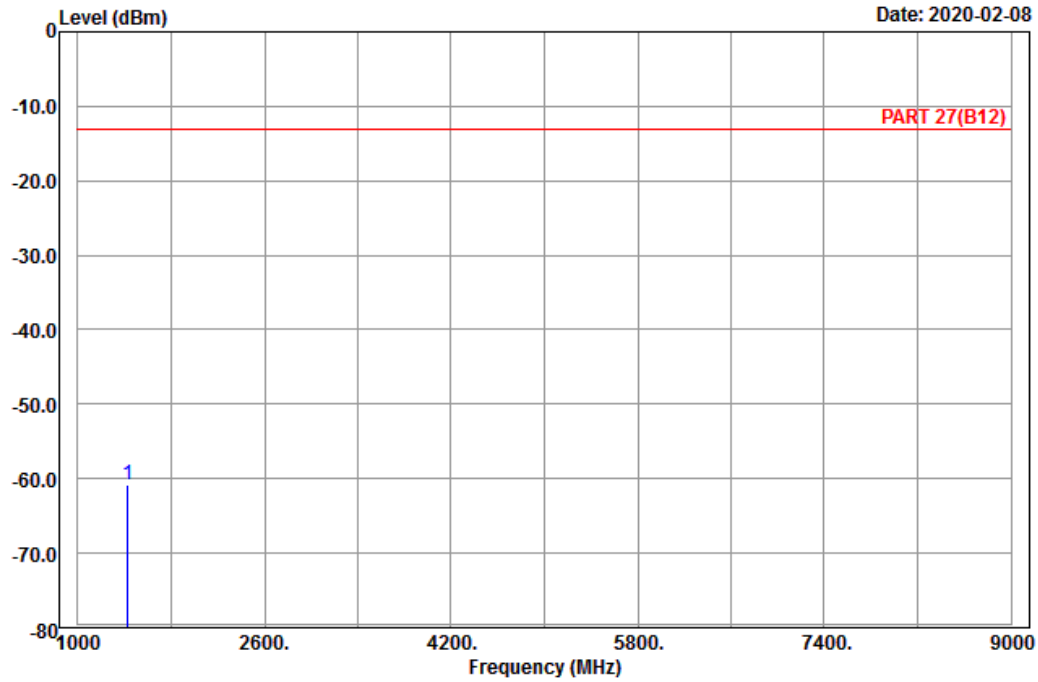
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 chamber 1
 Condition: PART 27(B12) Horizontal
 Remark : LTE_Band 12_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1427.00	-60.88	-67.12	6.24	-13.00	-47.88	Peak

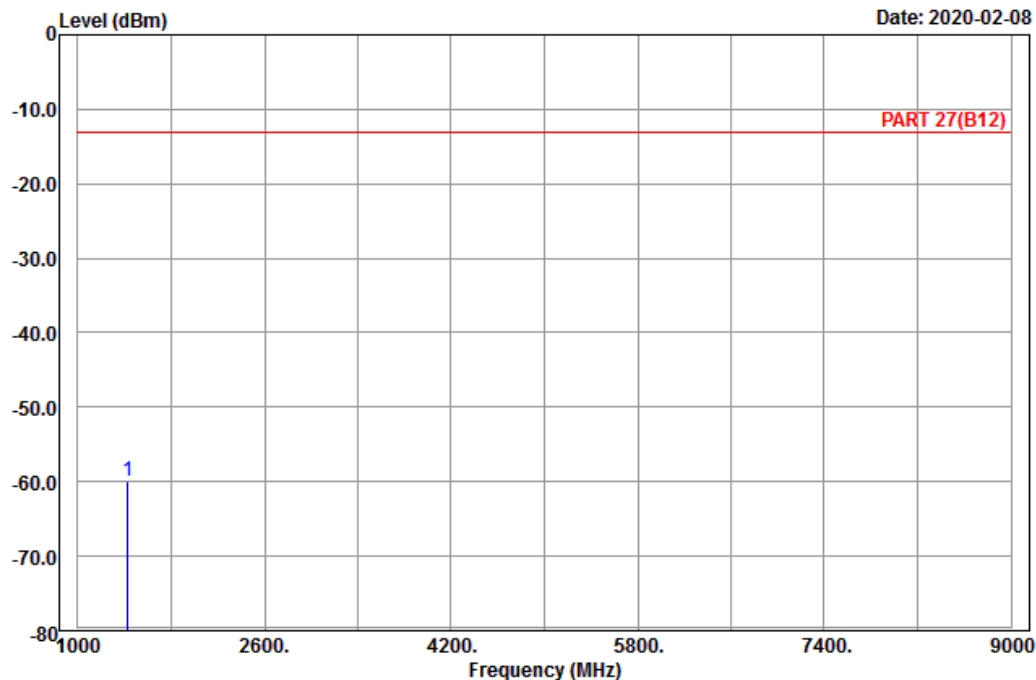


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2020-02-08



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1427.00	-60.01	-66.25	6.24	-13.00	-47.01	Peak

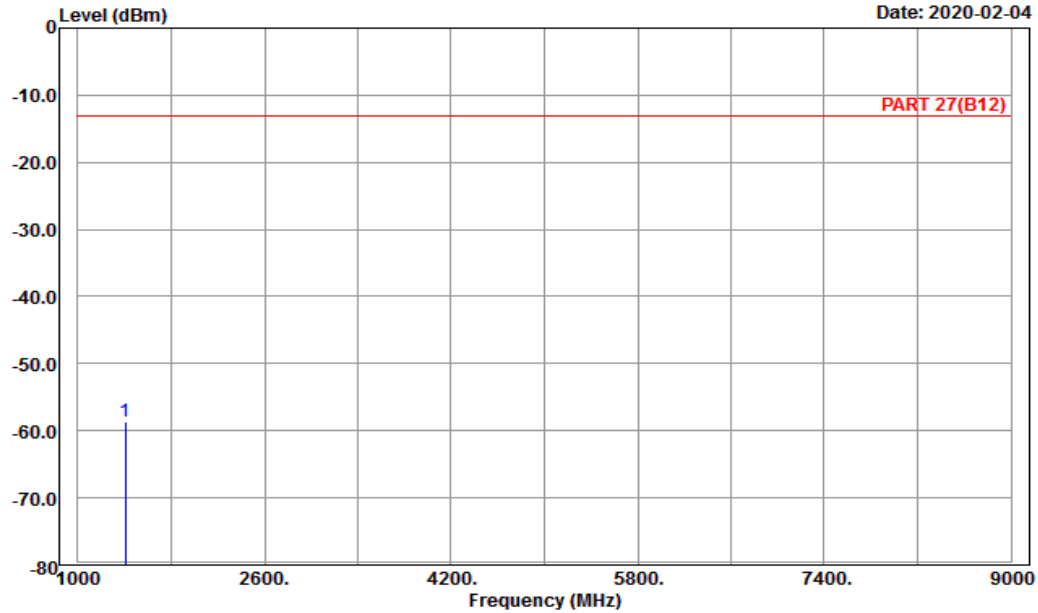
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 27(B12) Horizontal
Remark : LTE_Band 12_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	pp 1408.00	-58.68	-65.04	6.36	-13.00	-45.68	Peak

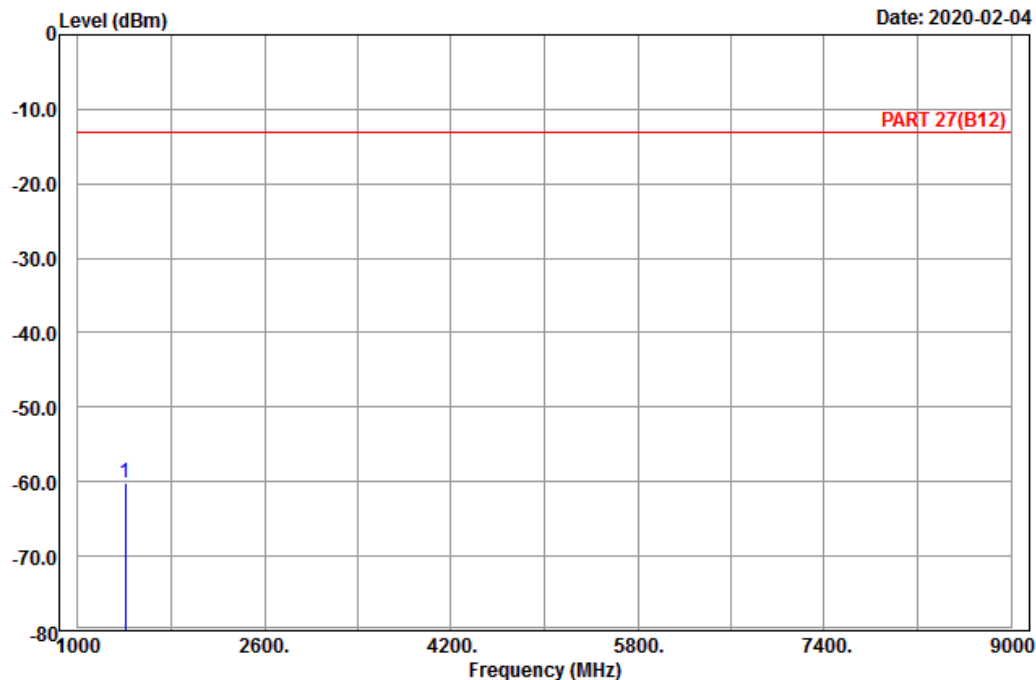


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1408.00	-60.25	-66.61	6.36	-13.00	-47.25	Peak

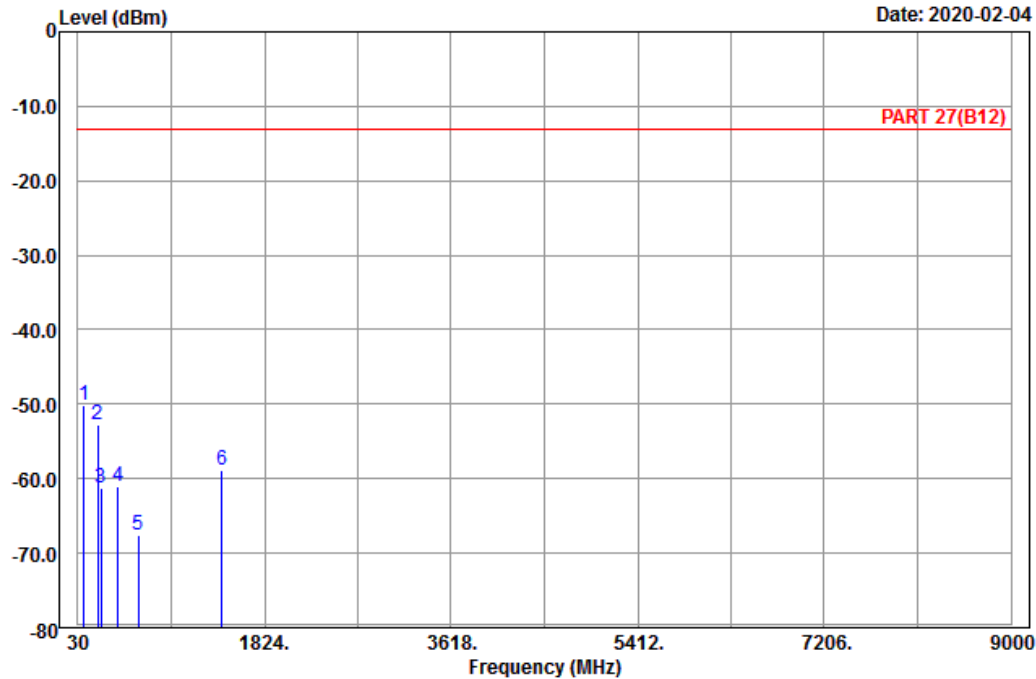
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9



Site : 966 chamber 1
Condition: PART 27(B12) Horizontal
Remark : LTE_Band 12_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	86.97	-50.04	-39.04	-11.00	-13.00	-37.04	Peak
2	224.13	-52.66	-46.80	-5.86	-13.00	-39.66	Peak
3	253.02	-61.21	-55.68	-5.53	-13.00	-48.21	Peak
4	415.50	-60.97	-57.89	-3.08	-13.00	-47.97	Peak
5	615.00	-67.60	-67.86	0.26	-13.00	-54.60	Peak
6	1415.00	-58.87	-65.23	6.36	-13.00	-45.87	Peak

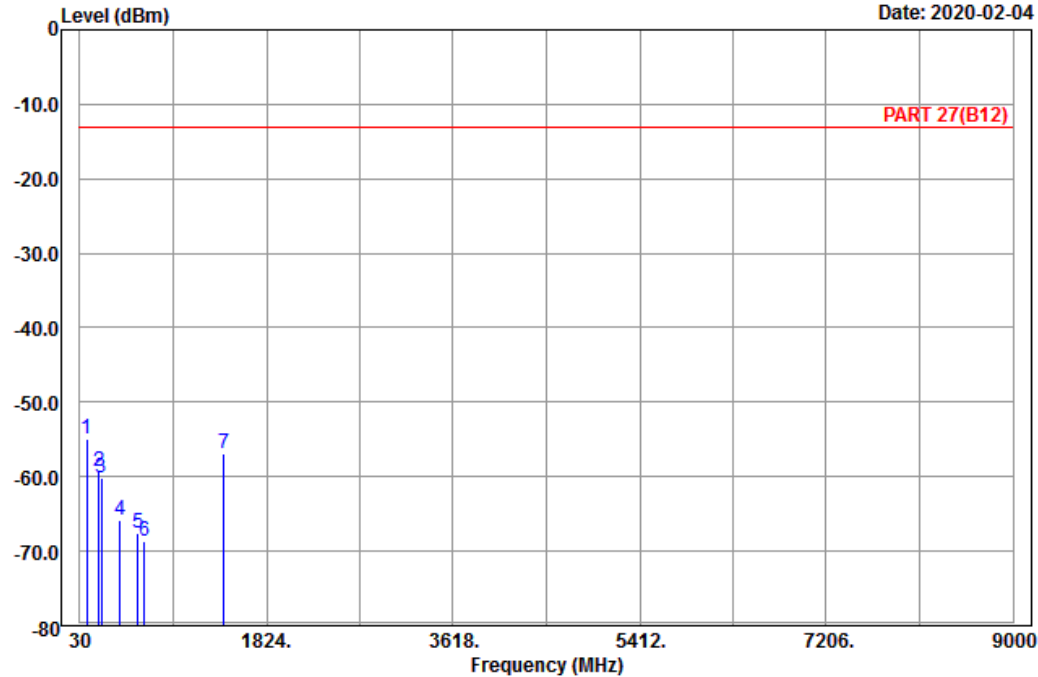


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B12) Vertical
Remark : LTE_Band 12_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	93.45	-55.02	-44.51	-10.51	-13.00	-42.02	Peak
2	215.76	-59.20	-53.24	-5.96	-13.00	-46.20	Peak
3	235.47	-60.17	-54.47	-5.70	-13.00	-47.17	Peak
4	419.70	-65.77	-62.58	-3.19	-13.00	-52.77	Peak
5	590.50	-67.56	-67.59	0.03	-13.00	-54.56	Peak
6	647.90	-68.73	-68.62	-0.11	-13.00	-55.73	Peak
7	1415.00	-56.91	-63.27	6.36	-13.00	-43.91	Peak

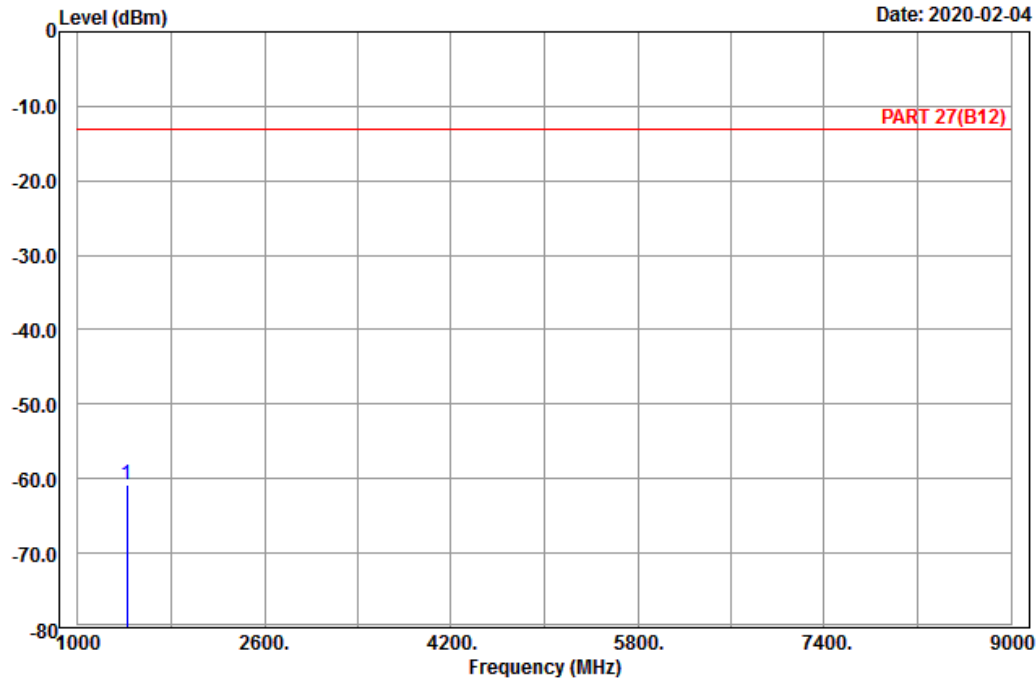
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 27(B12) Horizontal
 Remark : LTE_Band 12_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1422.00	-60.86	-67.22	6.36	-13.00	-47.86	Peak

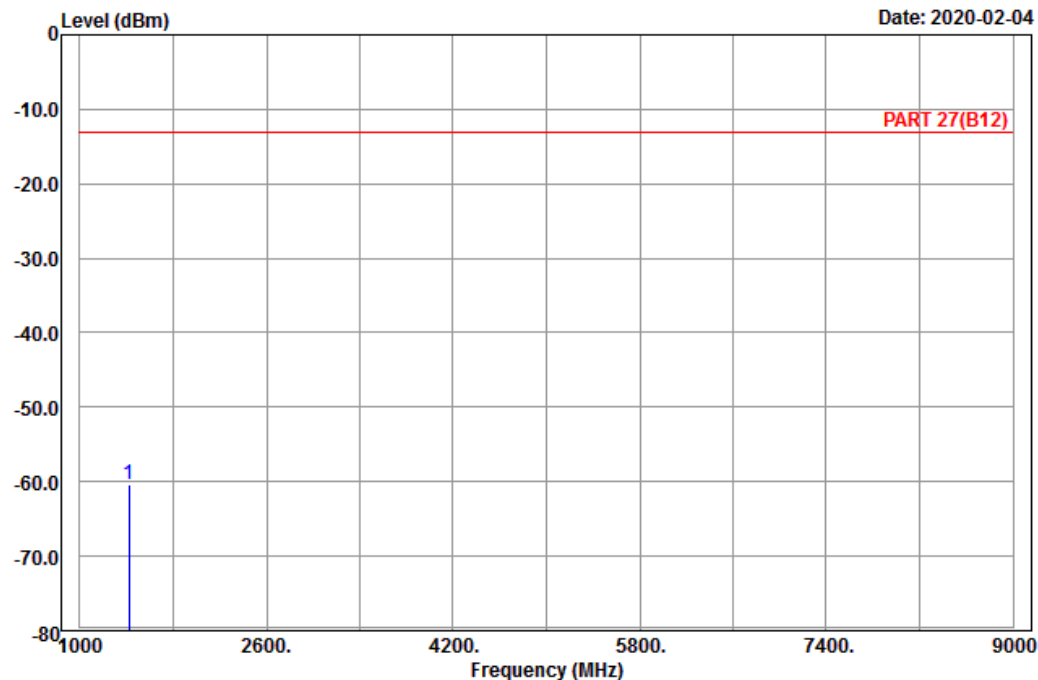


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
 Condition: PART 27(B12) Vertical
 Remark : LTE_Band 12_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1422.00	-60.39	-66.75	6.36	-13.00	-47.39	Peak

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

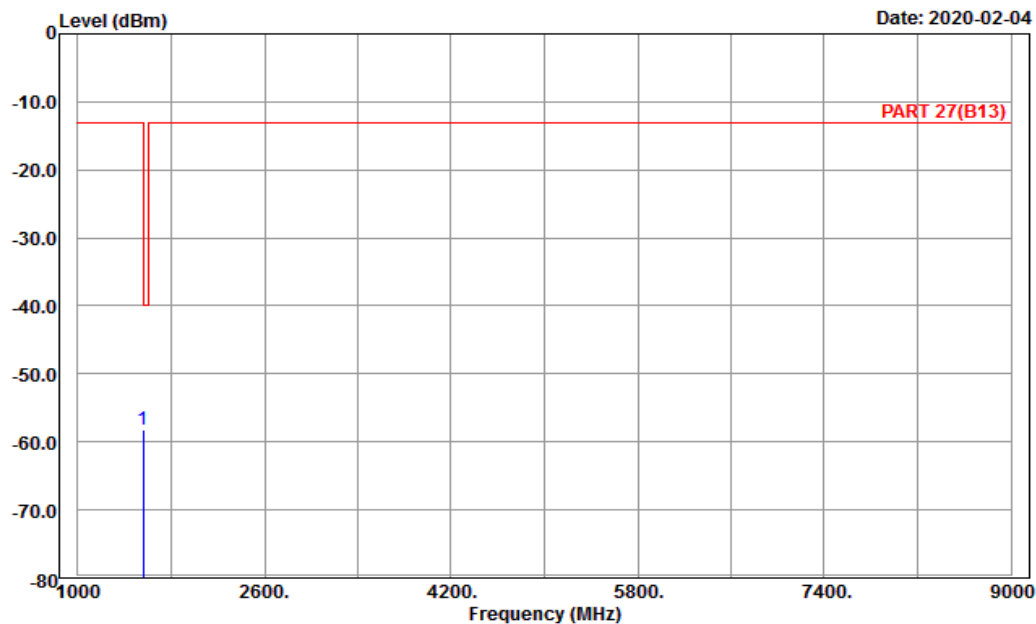


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B13) Horizontal
Remark : LTE_Band 13_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1559.00	-58.21	-65.07	6.86	-40.00	-18.21	Peak

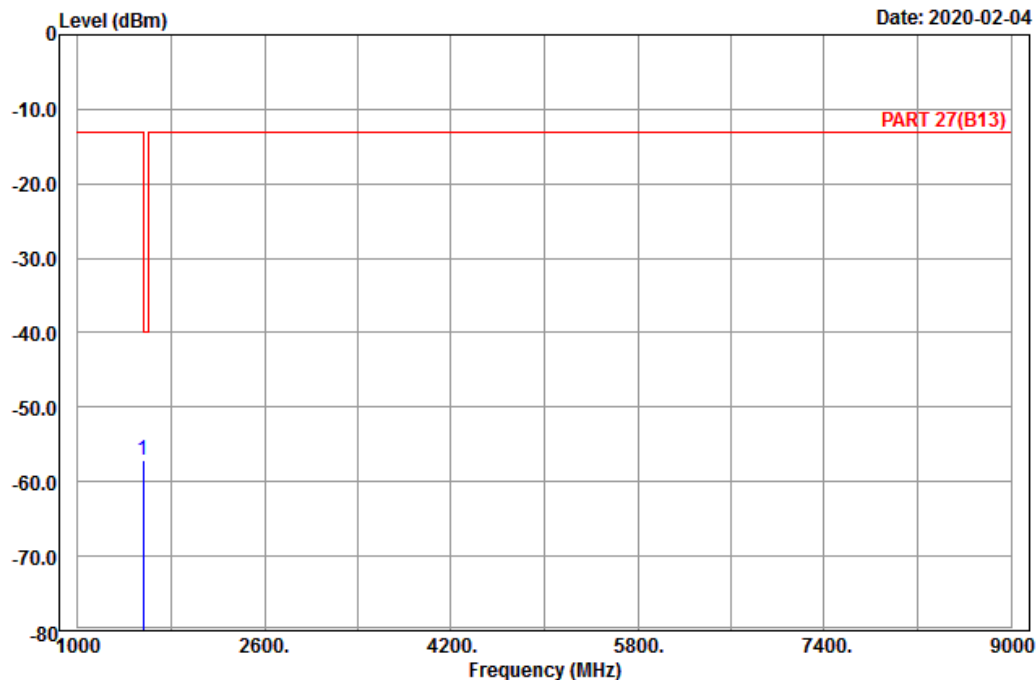


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B13) Vertical
Remark : LTE_Band 13_Link_L-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1559.00	-57.05	-63.91	6.86	-40.00	-17.05	Peak

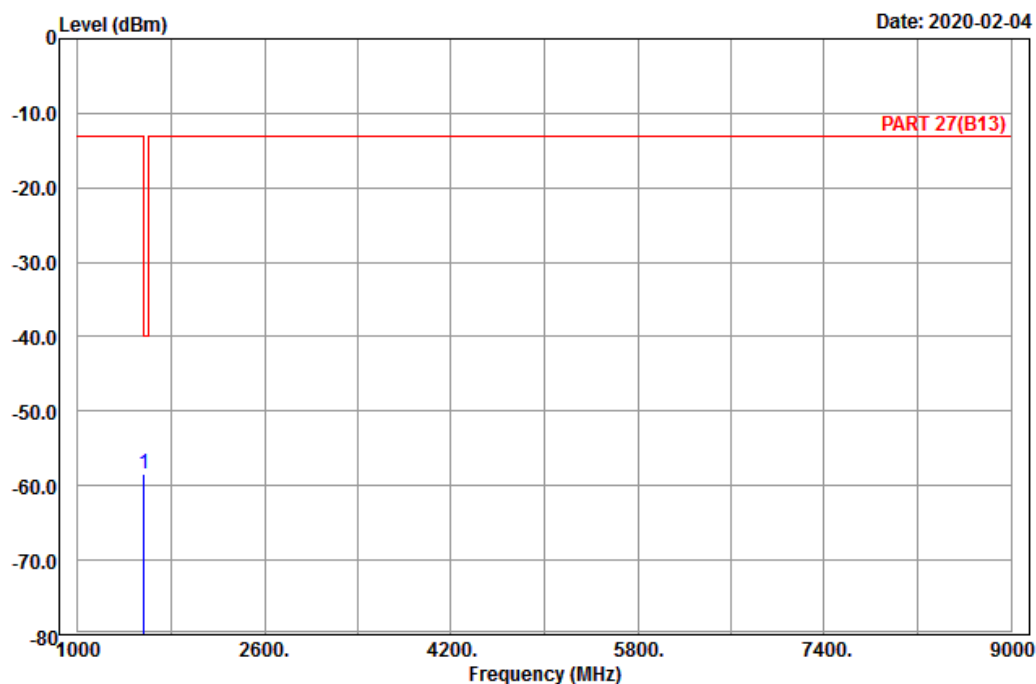
Middle Channel



Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
Condition: PART 27(B13) Horizontal
Remark : LTE_Band 13_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1564.00	-58.38	-65.24	6.86	-40.00	-18.38	Peak

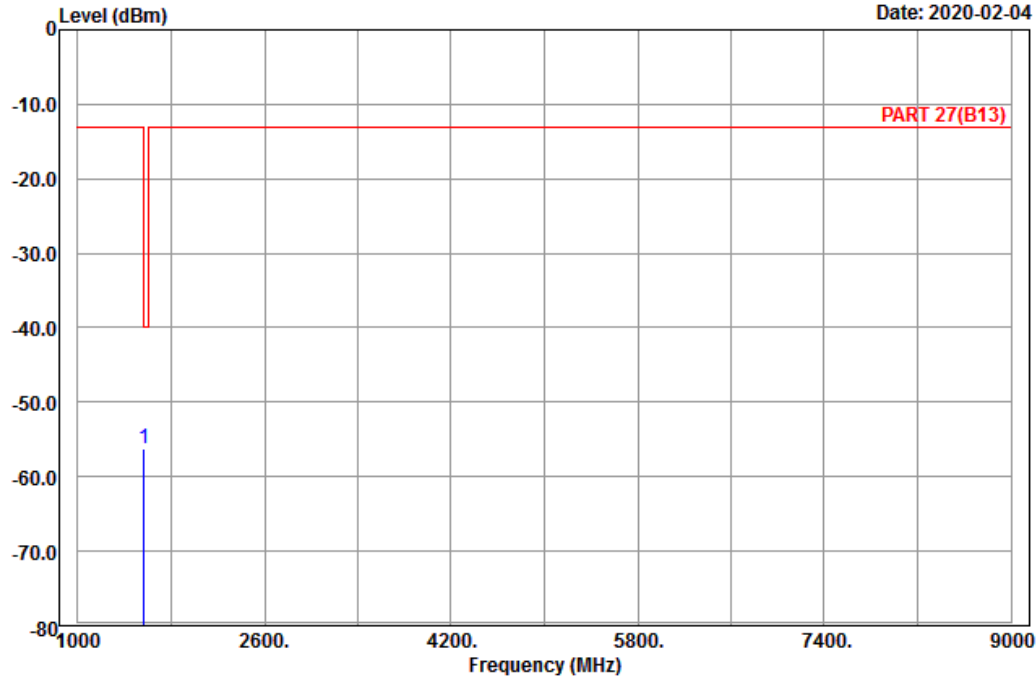


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B13) Vertical
Remark : LTE_Band 13_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1564.00	-56.24	-63.10	6.86	-40.00	-16.24	Peak

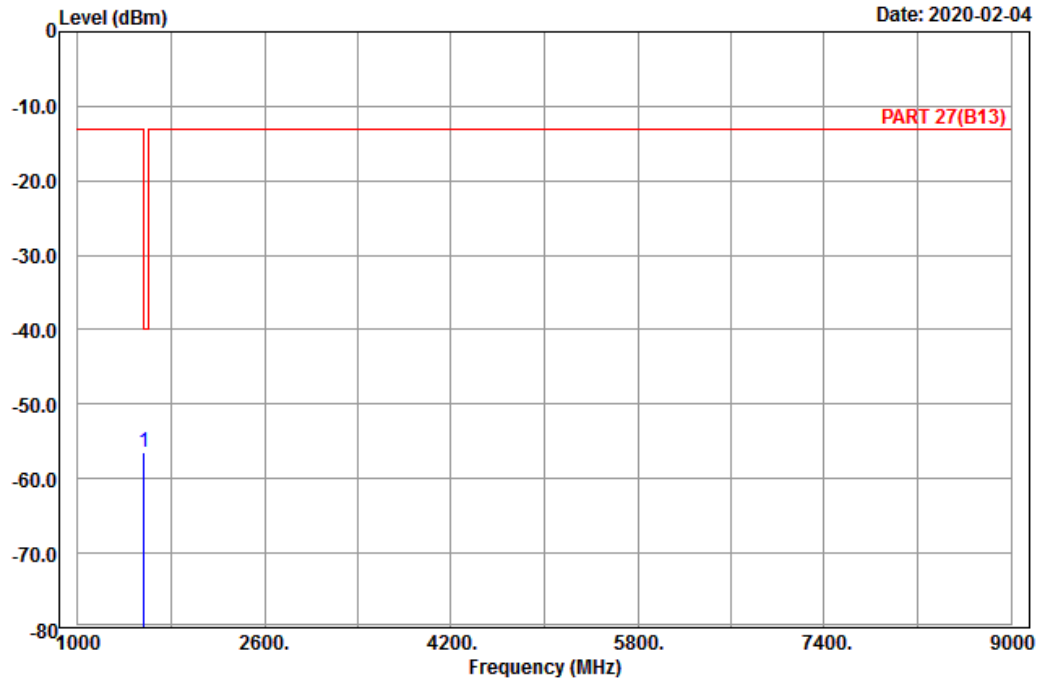
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 chamber 1
 Condition: PART 27(B13) Horizontal
 Remark : LTE_Band 13_Link_H-Ch
 Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1569.00	-56.41	-63.45	7.04	-40.00	-16.41	Peak

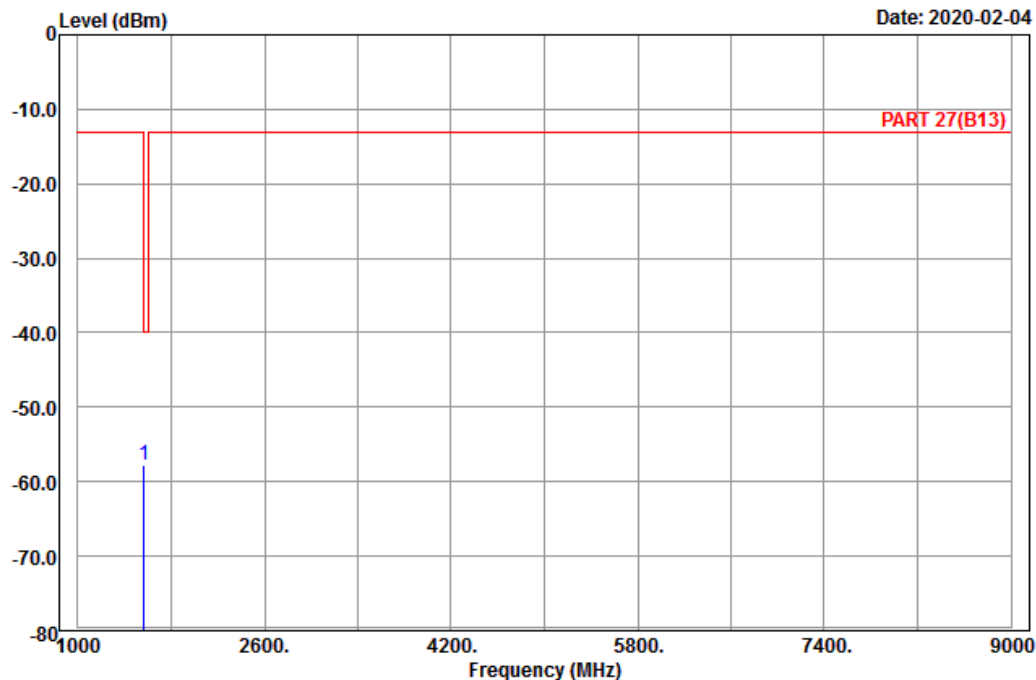


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B13) Vertical
Remark : LTE_Band 13_Link_H-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1 pp	1569.00	-57.80	-64.84	7.04	-40.00	-17.80	Peak

Channel Bandwidth: 10 MHz / QPSK
Middle Channel

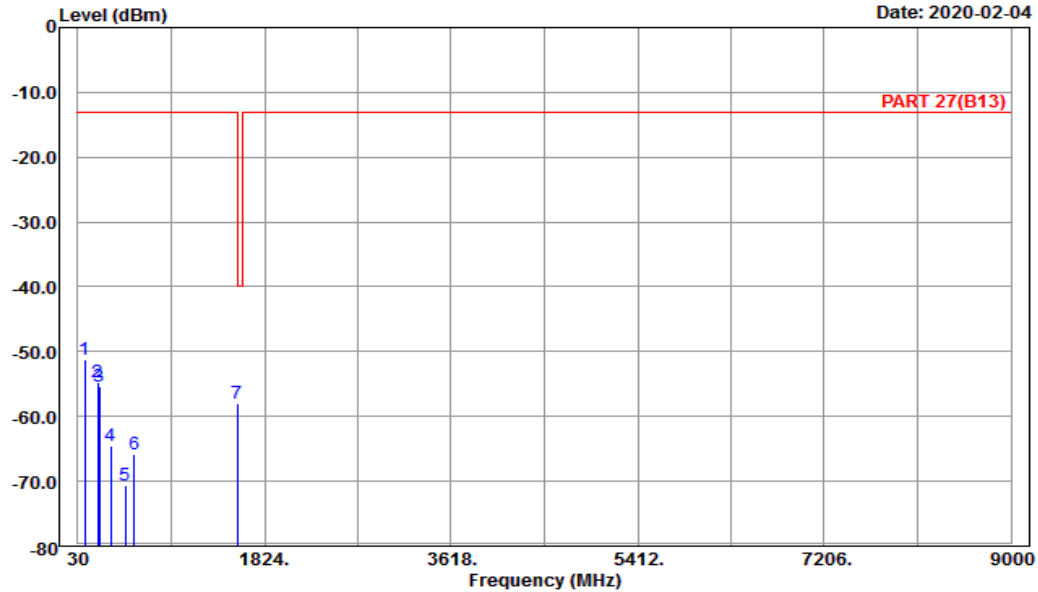


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B13) Horizontal
Remark : LTE_Band 13_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read	Factor	Limit	Over	
	MHz	dBm	Level	dB	Line	Limit	Remark
1	98.04	-51.24	-41.01	-10.23	-13.00	-38.24	Peak
2	218.46	-54.69	-48.75	-5.94	-13.00	-41.69	Peak
3	233.58	-55.28	-49.55	-5.73	-13.00	-42.28	Peak
4	344.80	-64.60	-59.17	-5.43	-13.00	-51.60	Peak
5	483.40	-70.55	-65.76	-4.79	-13.00	-57.55	Peak
6	570.20	-65.75	-64.93	-0.82	-13.00	-52.75	Peak
7 pp	1564.00	-57.91	-64.77	6.86	-40.00	-17.91	Peak

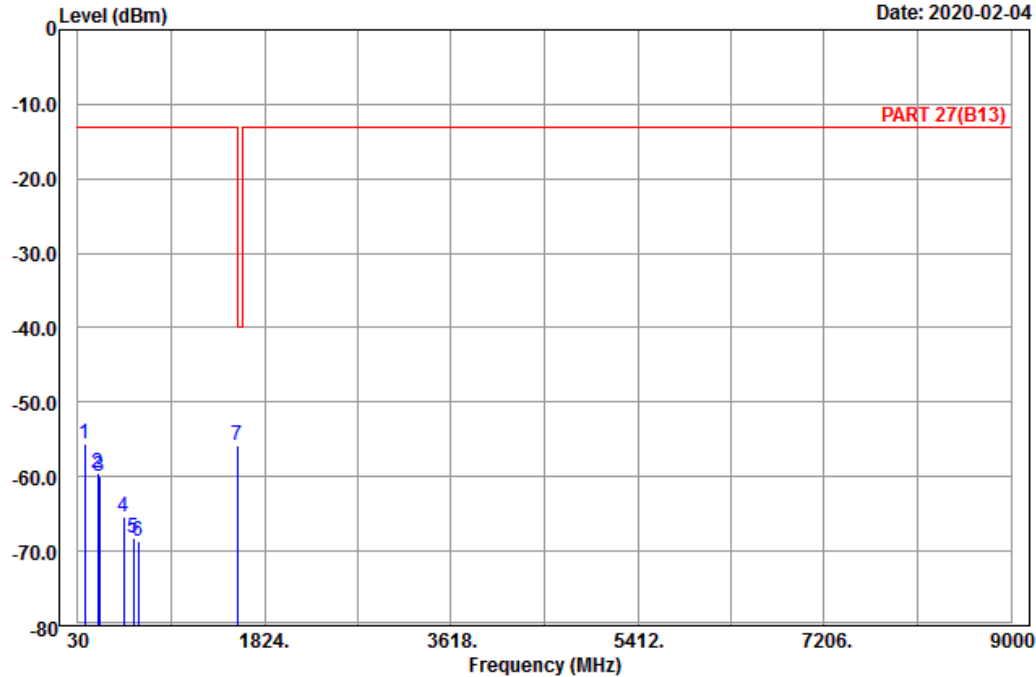


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2020-02-04



Site : 966 chamber 1
Condition: PART 27(B13) Vertical
Remark : LTE_Band 13_Link_M-Ch
Tested by: Karl Lee

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	94.26	-55.59	-45.14	-10.45	-13.00	-42.59	Peak
2	220.62	-59.61	-53.71	-5.90	-13.00	-46.61	Peak
3	238.71	-59.90	-54.24	-5.66	-13.00	-46.90	Peak
4	472.90	-65.41	-60.90	-4.51	-13.00	-52.41	Peak
5	565.30	-68.19	-67.17	-1.02	-13.00	-55.19	Peak
6	611.50	-68.62	-68.93	0.31	-13.00	-55.62	Peak
7 pp	1564.00	-55.75	-62.61	6.86	-40.00	-15.75	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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

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Tel: 886-3-3183232

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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.

--- END ---