



# FCC PART 15.249 **TEST REPORT**

For

NCI TECHNOLOGY, INC.
R108 Jiu Zhu Rd, Jiang Ning Eco. & Tech. Development Zone, Nanjing, Jiang Su Province, China 211102

FCC ID: 2ACSTLYNK2

Report Type:		Product Type:
Original Report		LYNK2
Test Engineer:	Stone Zhang	Stone Zhang
Report Number:	RSHA1809250	001-00C
Report Date:	2018-11-01	
Reviewed By:	Oscar Ye RF Leader	Oscar. Ye
Prepared By:		88934268

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# **GENERAL INFORMATION**

## **Product Description for Equipment under Test (EUT)**

Applicant	NCI TECHNOLOGY, INC.
Test Model	61P
Product	LYNK2
Rate Voltage	DC 3.7V from battery and DC 5.0V charging by USB charger
Dimension	38.5mm(L)*27.4mm(W)*12.9mm(H)

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### **Objective**

This type approval report is prepared on behalf of NCI TECHNOLOGY, INC. in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207,15.209 and 15.249 rules.

#### **Related Submittal(s)/Grant(s)**

FCC Part 15.247 DTS submissions with FCC ID: 2ACSTLYNK2.

#### **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (Kunshan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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<sup>\*</sup>All measurement and test data in this report was gathered from production sample serial number: RSHA180925001. (Assigned by BACL, Kunshan). The EUT was received on 2018-09-25.

# **Measurement Uncertainty**

Item		Uncertainty
AC Power Line	es Conducted Emissions	3.19 dB
RF conduct	ed test with spectrum	0.9dB
RF Output Po	ower with Power meter	0.5dB
	30MHz~1GHz	6.11dB
De l'ete l'encieden	1GHz~6GHz	4.45dB
Radiated emission	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%

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# **Test Facility**

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01) and the FCC designation No. CN1185 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

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# **SYSTEM TEST CONFIGURATION**

#### **Justification**

Channel list for GFSK modulation:

Channel	Frequency (MHz)
1	2457

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# **EUT Exercise Software**

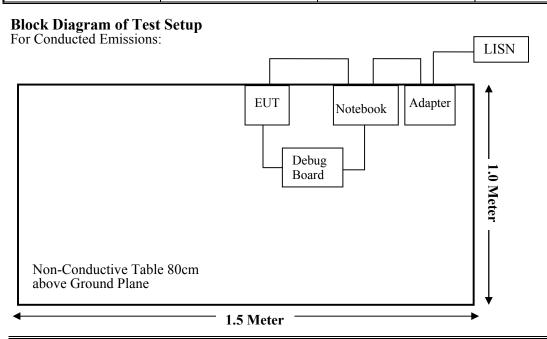
The EUT was test engineer mode.

# **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number	
DELL	Notebook	GX620	D65874152	
DELL	Adapter	LA65NS0-00	DF263	
NCI	Debug Board	/	/	

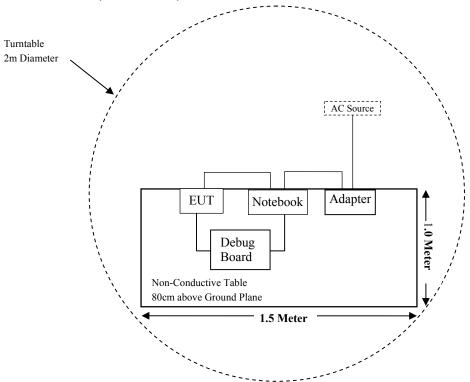
# **External I/O Cable**

Cable Description	Length (m)	From Port	То
Power Cable	1.2	EUT	Notebook
COM-USB Cable	0.8	EUT	Debug Board

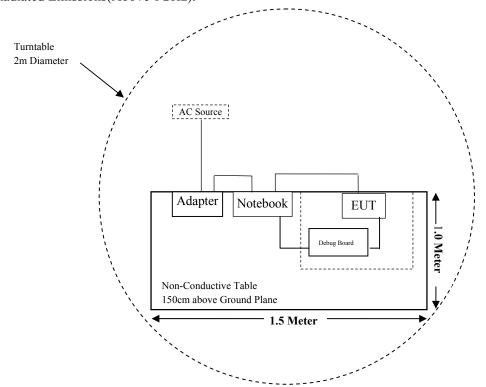


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# For Radiated Emissions(Below 1GHz):



# For Radiated Emissions(Above 1GHz):



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# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	Conduction Emissions	Compliance
15.205, §15.209, §15.249	Radiated Emissions& Out of Band Emission	Compliance
§15.215 (c)	20 dB Bandwidth	Compliance

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# TEST EQUIPMENT LIST

Manufacturer	ufacturer Description Model Serial Number		Calibration Date	Calibration Due Date			
Radiated Emission Test (Chamber 1#)							
Rohde & Schwarz	EMI Test Receiver	EMI Test Receiver ESCI		2017-11-25	2018-11-24		
Sunol Sciences	Broadband Antenna	JB3	A040914-2	2016-01-09	2019-01-08		
Sonoma Instrunent	Pre-amplifier	310N	171205	2018-08-15	2019-08-14		
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/		
MICRO-COAX	Coaxial Cable	Cable-8	008	2018-08-15	2019-08-14		
MICRO-COAX	Coaxial Cable	Cable-9	009	2018-08-15	2019-08-14		
MICRO-COAX	Coaxial Cable	Cable-10	010	2018-08-15	2019-08-14		
	Radiate	ed Emission Test (Char	nber 2#)				
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2018-08-27	2019-08-26		
ETS-LINDGREN	Horn Antenna	3115	6229	2016-01-11	2019-01-10		
ETS-LINDGREN	Horn Antenna	3116	00084159	2016-10-18	2019-10-17		
Narda	Pre-amplifier	AFS42-00101800	2001270	2017-12-12	2018-12-11		
EM Electronics Corporation	Amplifier	EM18G40G 060726		2018-03-22	2019-03-21		
MICRO- TRONICS	Notch filter	BRM50702	BRM50702 /		2019-08-04		
Narda	Attenuator/10dB	10dB /		2018-08-15	2019-08-14		
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/		
MICRO-COAX	Coaxial Cable	Cable-6	006	2018-08-15	2019-08-14		
MICRO-COAX	Coaxial Cable	Cable-11	011	2018-08-15	2019-08-14		
MICRO-COAX	Coaxial Cable	Cable-12	012	2018-08-15	2019-08-14		
MICRO-COAX	Coaxial Cable	Cable-13 013		2018-08-15	2019-08-14		
		RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSIQ26	836131/009	2018-09-21	2019-09-20		
Narda	Attenuator/6dB	10690812-2	26850-6	2018-01-10	2019-01-09		
Qingdao Magene	RF Cable	/	/	Each Time	/		
Conducted Emission Test							
Rohde & Schwarz	EMI Test Receiver	ESCS30	834115/007	2017-11-12	2018-11-11		
Rohde & Schwarz	LISN	ENV216 3560655016		2017-11-12	2018-11-11		
BACL	Auto test Software	BACL-EMC	BACL-EMC CE001 /		/		
Narda	Attenuator/6dB	nuator/6dB 10690812-2 26850-6 2018-01-1		2018-01-10	2019-01-09		
MICRO-COAX	Coaxial Cable	Cable-15	Cable-15 015		2019-08-14		

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<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# FCC§15.203 - ANTENNA REQUIREMENT

# **Applicable Standard**

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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#### **Antenna Connector Construction**

The EUT has a Internal Antenna, which the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

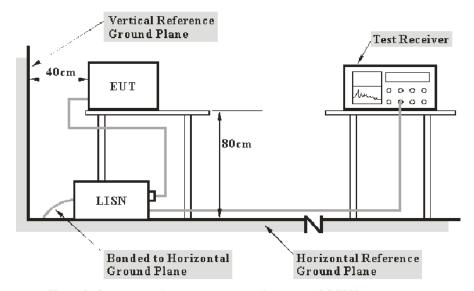
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# FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

# **Applicable Standard**

FCC§15.207

#### **EUT Setup**



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W		
150 kHz – 30 MHz	9 kHz		

# **Test Procedure**

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

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#### **Corrected Factor & Margin Calculation**

The Corrected Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

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The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dB $\mu$ V) – Corrected Amplitude (dB $\mu$ V)

# **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	25.0℃		
Relative Humidity:	48 %		
ATM Pressure:	101.2 kPa		

The testing was performed by Stone Zhang on 2018-09-29.

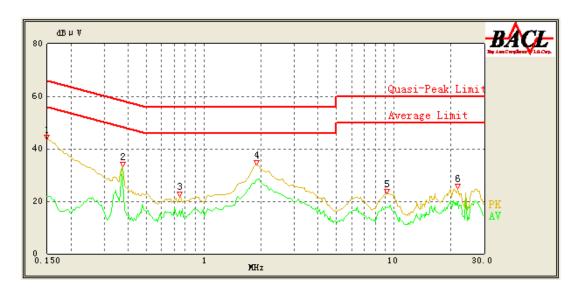
Test Result: Compliant.

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EUT operation mode: Transmitting.

# AC 120V/60 Hz, Line

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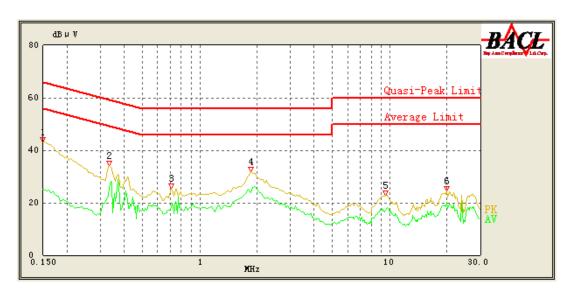


Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.150	43.36	QP	9.000	L1	16.06	66.00	22.64	Compliant
0.150	21.95	AV	9.000	L1	16.06	56.00	34.05	Compliant
0.375	33.13	QP	9.000	L1	16.05	58.39	25.26	Compliant
0.375	27.28	AV	9.000	L1	16.05	48.39	21.11	Compliant
0.750	21.85	QP	9.000	L1	15.94	56.00	34.15	Compliant
0.745	16.55	AV	9.000	L1	15.94	46.00	29.45	Compliant
1.900	33.79	QP	9.000	L1	15.85	56.00	22.21	Compliant
1.900	28.18	AV	9.000	L1	15.85	46.00	17.82	Compliant
9.250	22.95	QP	9.000	L1	16.04	60.00	37.05	Compliant
9.350	17.89	AV	9.000	L1	16.04	50.00	32.11	Compliant
21.650	24.69	QP	9.000	L1	16.45	60.00	35.31	Compliant
21.650	19.94	AV	9.000	L1	16.45	50.00	30.06	Compliant

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# AC 120V/60 Hz, Neutral

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Frequency (MHz)	Corrected Amplitude (dBµV)	Detector (PK/AV/QP)	Bandwidth (kHz)	Line	Corrected Factor (dB)	Limit (dBµV)	Margin (dB)	Comment
0.150	43.05	QP	9.000	N	16.06	66.00	22.95	Compliant
0.150	25.29	AV	9.000	N	16.06	56.00	30.71	Compliant
0.335	34.01	QP	9.000	N	16.08	59.33	25.32	Compliant
0.335	25.75	AV	9.000	N	16.08	49.33	23.58	Compliant
0.710	25.58	QP	9.000	N	15.99	56.00	30.42	Compliant
0.715	19.82	AV	9.000	N	15.99	46.00	26.18	Compliant
1.850	31.95	QP	9.000	N	15.91	56.00	24.05	Compliant
1.850	23.79	AV	9.000	N	15.91	46.00	22.21	Compliant
9.550	22.78	QP	9.000	N	15.98	60.00	37.22	Compliant
9.550	17.32	AV	9.000	N	15.98	50.00	32.68	Compliant
20.000	24.60	QP	9.000	N	16.16	60.00	35.40	Compliant
20.000	20.05	AV	9.000	N	16.16	50.00	29.95	Compliant

#### Note:

1) Corrected Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Margin (dB) = Limit (dB $\mu$ V) – Corrected Amplitude (dB $\mu$ V)

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# FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS& OUT OF BAND EMISSION

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# **Applicable Standard**

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

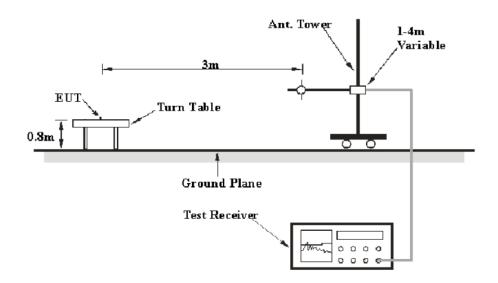
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

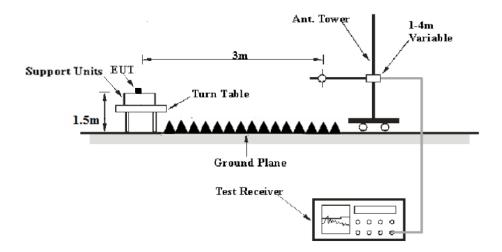
# **EUT Setup**

Below 1 GHz:



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#### Above 1 GHz:



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The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

#### **Test Equipment Setup**

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1CHz	1MHz	3 MHz	/	PK
Above 1GHz	1MHz	3 MHz	/	Ave

#### **Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30MHz to 1GHz, Peak and average detection mode above 1 GHz.

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### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

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Corrected Amplitude ( $dB\mu V/m$ ) = Meter Reading ( $dB\mu V$ ) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dB
$$\mu$$
V/m) – Corrected Amplitude (dB $\mu$ V/m)

# **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24.6°C
Relative Humidity:	52%
ATM Pressure:	101.2 kPa

The testing was performed by Stone Zhang on 2018-10-29.

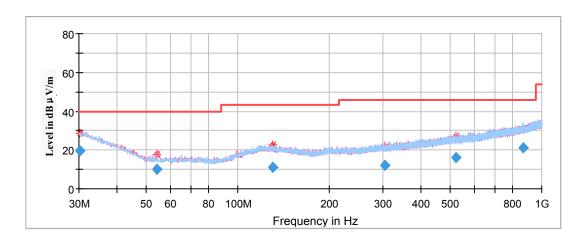
Test Mode: Transmitting

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# **Spurious Emission Test:**

# 30MHz-1GHz

(Pre-scan in the X,Y and Z axes of orientation, the worst case in X-axis of orientation was recorded)



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Frequency	Corrected Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	Quasi-peak (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV)	(dB)
30.120469	19.60	199.0	V	349.0	-4.0	40.00	20.40
54.296550	10.02	101.0	V	253.0	-17.7	40.00	29.98
130.627900	11.16	101.0	Н	126.0	-11.6	43.50	32.34
304.460550	11.91	199.0	V	303.0	-10.4	46.00	34.09
523.105050	16.24	199.0	Н	126.0	-5.9	46.00	29.76
867.158550	21.34	101.0	Н	126.0	-0.7	46.00	24.66

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#### 1GHz-18GHz

(Pre-scan in the X, Y and Z axes of orientation, the worst case **X-axis of orientation** was recorded.)

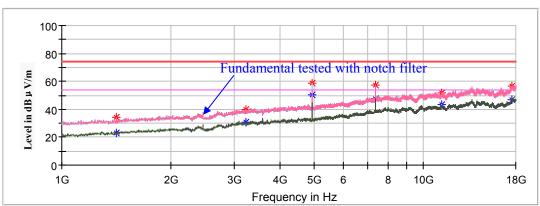
#### Note:

- 1. This test was performed with the 2.4-2.5GHz notch filter.
- 2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) Amplifier Factor (dB) Corrected Amplitude (dB $\mu$ V /m) = Corrected Factor (dB/m) + Reading (dB $\mu$ V) Margin (dB) = Limit (dB $\mu$ V/m) Corrected Amplitude (dB $\mu$ V /m)

# **Channel Frequency: 2457MHz**

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Frequency	Corrected A	Amplitude	Rx A	ntenna	Turntable	Corrected	Limit	Margin
(MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)	Degree	Factor (dB/m)	(dBµV/m)	(dB)
1418.200000		23.07	200.0	V	228.0	-8.0	54.00	30.93
1418.200000	34.08		200.0	V	228.0	-8.0	74.00	39.92
3220.200000		30.44	200.0	V	292.0	-1.3	54.00	23.56
3220.200000	40.05		200.0	V	292.0	-1.3	74.00	33.95
4914.000000		50.01	100.0	Н	152.0	2.0	54.00	3.99
4914.000000	58.74		100.0	Н	152.0	2.0	74.00	15.26
7371.000000		47.58	150.0	V	83.0	9.4	54.00	6.42
7371.000000	57.10		150.0	V	83.0	9.4	74.00	16.90
11261.200000		43.13	150.0	Н	164.0	13.2	54.00	10.87
11261.200000	52.06		150.0	Н	164.0	13.2	74.00	21.94
17602.200000		47.04	200.0	V	260.0	17.3	54.00	6.96
17602.200000	56.59		200.0	V	196.0	17.3	74.00	17.41

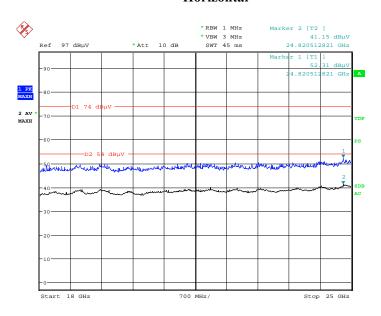
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#### 18GHz-25GHz

(Pre-scan in the X,Y and Z axes of orientation, the worst case in X-axis of orientation was recorded)

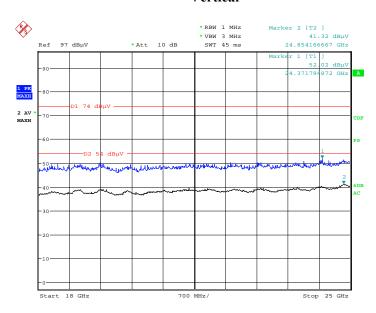
#### Horizontal

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Date: 29.OCT.2018 10:26:07

#### Vertical



Date: 29.0CT.2018 11:16:52

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#### **Fundamental Test & Restricted Bands Emissions Test:**

(Pre-scan in the X, Y and Z axes of orientation, the worst case **X-axis of orientation** was recorded.)

#### Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB) Corrected Amplitude (dB $\mu$ V /m) = Corrected Factor (dB/m) + Reading (dB $\mu$ V) Margin (dB) = Limit (dB $\mu$ V/m) – Corrected Amplitude (dB $\mu$ V /m)

	Corrected Amplitude		Rx Antenna			Corrected		
Frequency (MHz)	MaxPeak (dBμV /m)	Average (dBµV/m)	Height (cm)	Polar (H/V)	Turntable Degree	Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
		Ch	annel Fre	quency: 24	57MHz			
2457.000000	95.44		200.0	V	298.0	6.2	114.00	18.56
2457.000000		92.10	200.0	V	298.0	6.2	94.00	1.90
2457.000000	94.37		150.0	Н	148.0	6.2	114.00	19.63
2457.000000		92.07	150.0	Н	148.0	6.2	94.00	1.93
2400.000000	48.31		100.0	V	40.0	6.0	74.00	25.69
2400.000000		38.30	100.0	V	40.0	6.0	54.00	15.70
2483.500000	47.50		200.0	V	285.0	6.3	74.00	26.50
2483.500000		38.85	200.0	V	285.0	6.3	54.00	15.15

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# FCC §15.215(c) – 20 dB BANDWIDTH TESTING

# **Applicable Standard**

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

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#### **Test Procedure**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

#### **Test Data**

#### **Environmental Conditions**

Temperature:	24.2°C
Relative Humidity:	51 %
ATM Pressure:	101.2kPa

The testing was performed by Stone Zhang on 2018-10-29.

Test Result: Compliant.

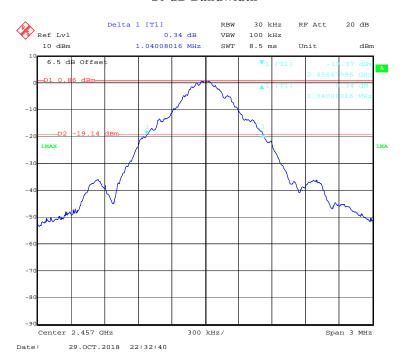
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Test Mode: Transmitting

Frequency	20 dB Bandwidth
(MHz)	(MHz)
2457.00	1.04

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#### 20 dB Bandwidth



\*\*\*\*\* END OF REPORT \*\*\*\*\*

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