

TEST REPORT

Product Name: 4G Camera
 FCC ID: 2AZON-B11
 Trademark: N/A
 Model Number: B11, B10, B9, B8
 Prepared For: Shenzhen Ka Wah Hengtai Technology Co., Ltd
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 Sample Received Date: Oct. 24, 2022
 Sample tested Date: Oct. 24, 2022 to Nov. 03, 2022
 Issue Date: Nov. 03, 2022
 Report No.: CTB221103002RFX
 Test Standards: FCC Part 2, 22, 24E, 27
 Test Results: PASS
 Remark: This is LTE radio test report.

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(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB221103002RFX	Nov. 03, 2022	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
Conducted output power	Part 2.1046(a)/Part 22.50(d.4)/Part 24.232(c)/Part 27.50(h.2)/Part 27.50(d.4)	TIA-603-E-2016 & KDB 971168 D01v02r02	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 22.913(a)(5)/Part 24.232(c)/Part 27.50(h)(2)	TIA-603-E-2016 & KDB 971168 D01v02r02	PASS
peak-to-average ratio	Part 24.232(d)/Part 27.50(d)	KDB 971168 D01v02r02	PASS
99% & 26dB Occupied Bandwidth	Part 2.1049(h)/Part 24.238/Part 27.53(a)	KDB 971168 D01v02r02	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 22.917(a) /Part 24.238/Part 27.53(m) (4)	KDB 971168 D01v02r02	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 24.238/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v02r02	PASS
Field strength of spurious radiation	Part 2.1053/ Part 22.917(a)/Part 24.235/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v02r02	PASS
Frequency stability	Part 2.1055/Part 22.355/Part 24.235/Part 27.54/Part 27.5(h)	TIA-603-E-2016 & KDB 971168 D01v02r02	PASS

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m chamber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
frequency	1×10^{-7}

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	B11, B10, B9, B8
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: B11
Hardware Version:	V2.1
Software Version:	V9.2.7-5082
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 12: 699-716MHz FDD-LTE BAND 13: 777-787MHz FDD-LTE BAND 25: 1850-1915MHz FDD-LTE BAND 26: 824-849MHz
Max. RF output power:	FDD-LTE BAND 2: 23.95 dBm FDD-LTE BAND 4: 22.26 dBm FDD-LTE BAND 5: 22.45dBm FDD-LTE BAND 12: 22.96dBm FDD-LTE BAND 13: 24.23dBm FDD-LTE BAND 25: 24.21dBm FDD-LTE BAND 26(824-849): 21.85dBm
Type of Modulation:	QPSK, 16QAM
Antenna Gain:	FDD-LTE BAND 2: 0.34 dBi FDD-LTE BAND 4: -0.39 dBi FDD-LTE BAND 5: 0.86 dBi FDD-LTE BAND 12: -0.65 dBi FDD-LTE BAND 13: 0.83 dBi FDD-LTE BAND 25: 0.34 dBi FDD-LTE BAND 26: 0.86 dBi
Antenna installation:	Internal antenna
Ratings:	DC 5V charging from adapter DC 7.4V Battery powered

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	I-Phone	Apple	12Pro	/	/

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Test Mode

Test Mode List		
Test Mode	Description	Remark
TM1	FDD-LTE BAND 2	Low, Middle, High Channels
TM2	FDD-LTE BAND 4	Low, Middle, High Channels
TM3	FDD-LTE BAND 5	Low, Middle, High Channels
TM4	FDD-LTE BAND 12	Low, Middle, High Channels
TM5	FDD-LTE BAND 13	Low, Middle, High Channels
TM6	FDD-LTE BAND 25	Low, Middle, High Channels
TM7	FDD-LTE BAND 26	Low, Middle, High Channels

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(AC):	120V
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Street, Baoan District, Shenzhen China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

Item	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2023.07.19
2	Power Sensor	Agilent	U2021XA	MY56120032	2023.07.19
3	Power Sensor	Agilent	U2021XA	MY56120034	2023.07.19
4	Communication test set	R&S	CMW500	108058	2023.07.19
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	2023.07.19
6	Signal Generator	Agilent	N5181A	MY50140365	2023.07.19
7	Vector signal generator	Agilent	N5182A	MY47420195	2023.07.19
8	Communication test set	Agilent	E5515C	MY50102567	2023.07.19
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2023.07.19
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	2023.07.19
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	2023.07.19
12	BT&WI-FI Automatic test software	Microwave	MTS8000	Ver. 2.0.0.0	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2022.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2023.07.19
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/
16	966 chamber	C.R.T.	966	/	2024.08.11
17	Receiver	R&S	ESPI	100362	2023.07.19
18	Amplifier	HP	8447E	2945A02747	2023.07.19
19	Amplifier	Agilent	8449B	3008A01838	2023.07.19
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	2023.07.22
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	2023.07.22
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/

23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	2023.07.23
24	loop antenna	ZHINAN	ZN30900A	GTS534	/
25	40G Horn antenna	A/H/System	SAS-574	588	2024.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	2024.10.30

6. RF EXPOSURE

6.1 Standard Applicable

According to §1.1307 and §2.1091, §2.1093, the portable transmitter must comply the RF exposure requirements.

6.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure report.

7. RF OUTPUT POWER

7.1 Standard Applicable

According to §22.913(a)(2), the ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

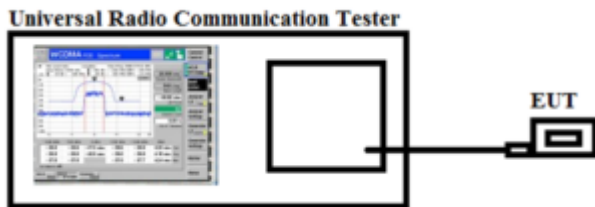
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), 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.

According to §27.50(c)(10), portable stations (hand-held devices) in the 698-746 MHz band are limited to 3 watts ERP.

7.2 Test Procedure

Conducted output power test method:



Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

7.3 Summary of Test Results/Plots

 Max. Radiated Power:
 FDD-LTE Band 2

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.37	<33.0	PASS
		H	22.80		
	MCH	V	21.74		PASS
		H	21.68		
	HCH	V	21.92		PASS
		H	21.78		
16QAM	LCH	V	22.45	<33.0	PASS
		H	22.98		
	MCH	V	21.71		PASS
		H	23.16		
	HCH	V	22.95		PASS
		H	21.98		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.99	<33.0	PASS
		H	22.01		
	MCH	V	21.82		PASS
		H	22.16		
	HCH	V	22.63		PASS
		H	23.40		
16QAM	LCH	V	22.72	<33.0	PASS
		H	23.12		
	MCH	V	23.27		PASS
		H	23.27		
	HCH	V	23.07		PASS
		H	22.57		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.70	<33.0	PASS
		H	23.39		
	MCH	V	22.23		PASS
		H	21.89		
	HCH	V	21.79		PASS
		H	22.05		
16QAM	LCH	V	22.72	<33.0	PASS
		H	23.42		
	MCH	V	22.73		PASS
		H	22.30		
	HCH	V	22.97		PASS
		H	23.61		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.80	<33.0	PASS
		H	23.11		
	MCH	V	23.33		PASS
		H	22.22		
	HCH	V	24.16		PASS
		H	22.75		
16QAM	LCH	V	22.98	<33.0	PASS
		H	23.33		
	MCH	V	23.19		PASS
		H	23.07		
	HCH	V	23.03		PASS
		H	23.45		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.96	<33.0	PASS
		H	21.11		
	MCH	V	21.90		PASS
		H	21.80		
	HCH	V	20.69		PASS
		H	21.55		
16QAM	LCH	V	22.01	<33.0	PASS
		H	20.20		
	MCH	V	21.70		PASS
		H	20.42		
	HCH	V	21.20		PASS
		H	20.82		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.60	<33.0	PASS
		H	23.90		
	MCH	V	23.30		PASS
		H	22.73		
	HCH	V	22.65		PASS
		H	22.78		
16QAM	LCH	V	23.95	<33.0	PASS
		H	23.16		
	MCH	V	22.11		PASS
		H	21.60		
	HCH	V	21.57		PASS
		H	22.98		

FDD-LTE Band 4

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.60	<30.0	PASS
		H	22.92		
	MCH	V	22.67		PASS
		H	21.96		
	HCH	V	23.13		PASS
		H	22.59		
16QAM	LCH	V	22.85	<30.0	PASS
		H	23.47		
	MCH	V	22.40		PASS
		H	21.88		
	HCH	V	23.37		PASS
		H	23.01		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.78	<30.0	PASS
		H	22.16		
	MCH	V	23.26		PASS
		H	21.65		
	HCH	V	22.40		PASS
		H	22.46		
16QAM	LCH	V	23.32	<30.0	PASS
		H	22.28		
	MCH	V	22.26		PASS
		H	22.25		
	HCH	V	21.79		PASS
		H	23.39		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.51	<30.0	PASS
		H	22.37		
	MCH	V	21.21		PASS
		H	22.26		
	HCH	V	21.18		PASS
		H	22.19		
16QAM	LCH	V	22.31	<30.0	PASS
		H	22.43		
	MCH	V	21.67		PASS
		H	20.76		
	HCH	V	21.73		PASS
		H	20.59		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.09	<30.0	PASS
		H	21.99		
	MCH	V	22.30		PASS
		H	21.75		
	HCH	V	23.50		PASS
		H	21.88		
16QAM	LCH	V	22.54	<30.0	PASS
		H	21.73		
	MCH	V	21.92		PASS
		H	22.20		
	HCH	V	23.22		PASS
		H	23.21		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.77	<30.0	PASS
		H	23.30		
	MCH	V	23.18		PASS
		H	23.34		
	HCH	V	22.85		PASS
		H	22.44		
16QAM	LCH	V	21.80	<30.0	PASS
		H	22.14		
	MCH	V	22.50		PASS
		H	22.99		
	HCH	V	23.04		PASS
		H	22.52		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.04	<30.0	PASS
		H	22.27		
	MCH	V	22.02		PASS
		H	21.92		
	HCH	V	22.85		PASS
		H	22.13		
16QAM	LCH	V	23.62	<30.0	PASS
		H	22.81		
	MCH	V	22.16		PASS
		H	22.97		
	HCH	V	22.44		PASS
		H	23.05		

FDD-LTE Band 5

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.10	<38.45	PASS
		H	22.16		
	MCH	V	21.62		PASS
		H	21.16		
	HCH	V	21.19		PASS
		H	21.94		
16QAM	LCH	V	21.24	<38.45	PASS
		H	21.14		
	MCH	V	20.74		PASS
		H	22.17		
	HCH	V	20.98		PASS
		H	21.00		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.19	<38.45	PASS
		H	20.24		
	MCH	V	21.15		PASS
		H	21.80		
	HCH	V	21.42		PASS
		H	20.06		
16QAM	LCH	V	20.31	<38.45	PASS
		H	20.01		
	MCH	V	20.02		PASS
		H	20.82		
	HCH	V	20.31		PASS
		H	21.73		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.12	<38.45	PASS
		H	21.18		
	MCH	V	21.27		PASS
		H	20.15		
	HCH	V	21.57		PASS
		H	20.29		
16QAM	LCH	V	21.15	<38.45	PASS
		H	20.37		
	MCH	V	19.69		PASS
		H	20.24		
	HCH	V	21.41		PASS
		H	20.01		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.97	<38.45	PASS
		H	21.73		
	MCH	V	21.48		PASS
		H	22.44		
	HCH	V	21.53		PASS
		H	22.24		
16QAM	LCH	V	22.45	<38.45	PASS
		H	20.71		
	MCH	V	21.66		PASS
		H	21.42		
	HCH	V	22.28		PASS
		H	21.94		

FDD-LTE Band 12

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.31	<34.77	PASS
		H	20.71		
	MCH	V	21.13		PASS
		H	22.16		
	HCH	V	22.27		PASS
		H	21.94		
16QAM	LCH	V	20.78	<34.77	PASS
		H	21.03		
	MCH	V	21.40		PASS
		H	21.93		
	HCH	V	22.31		PASS
		H	22.02		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.33	<34.77	PASS
		H	21.88		
	MCH	V	21.96		PASS
		H	21.12		
	HCH	V	21.67		PASS
		H	22.42		
16QAM	LCH	V	22.25	<34.77	PASS
		H	21.59		
	MCH	V	22.09		PASS
		H	21.10		
	HCH	V	22.38		PASS
		H	22.13		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.36	<34.77	PASS
		H	20.79		
	MCH	V	20.55		PASS
		H	21.13		
	HCH	V	21.79		PASS
		H	20.68		
16QAM	LCH	V	21.67	<34.77	PASS
		H	21.65		
	MCH	V	22.04		PASS
		H	20.85		
	HCH	V	20.59		PASS
		H	21.17		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.05	<34.77	PASS
		H	22.16		
	MCH	V	21.21		PASS
		H	22.10		
	HCH	V	21.77		PASS
		H	21.78		
16QAM	LCH	V	22.96	<34.77	PASS
		H	22.51		
	MCH	V	22.44		PASS
		H	21.80		
	HCH	V	21.25		PASS
		H	22.14		

FDD-LTE Band 13

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	23.33	<34.77	PASS
		H	21.67		
	MCH	V	21.61		PASS
		H	22.45		
	HCH	V	23.40		PASS
		H	21.61		
16QAM	LCH	V	23.44	<34.77	PASS
		H	23.49		
	MCH	V	22.78		PASS
		H	22.96		
	HCH	V	21.53		PASS
		H	23.02		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	ERP [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	24.07	<34.77	PASS
		H	22.81		
	MCH	V	23.21		PASS
		H	24.10		
	HCH	V	23.14		PASS
		H	22.53		
16QAM	LCH	V	24.23	<34.77	PASS
		H	23.55		
	MCH	V	22.58		PASS
		H	24.05		
	HCH	V	22.84		PASS
		H	23.67		

FDD-LTE Band 25

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.86	<33.0	PASS
		H	22.94		
	MCH	V	23.59		PASS
		H	22.20		
	HCH	V	22.60		PASS
		H	23.44		
16QAM	LCH	V	23.06	<33.0	PASS
		H	22.90		
	MCH	V	23.92		PASS
		H	23.82		
	HCH	V	22.28		PASS
		H	23.30		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.03	<33.0	PASS
		H	22.94		
	MCH	V	22.94		PASS
		H	22.43		
	HCH	V	22.82		PASS
		H	22.18		
16QAM	LCH	V	22.91	<33.0	PASS
		H	21.88		
	MCH	V	21.97		PASS
		H	21.52		
	HCH	V	23.33		PASS
		H	22.66		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.59	<33.0	PASS
		H	22.31		
	MCH	V	23.22		PASS
		H	23.56		
	HCH	V	23.26		PASS
		H	22.39		
16QAM	LCH	V	21.80	<33.0	PASS
		H	21.85		
	MCH	V	21.65		PASS
		H	22.66		
	HCH	V	23.30		PASS
		H	23.18		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.75	<33.0	PASS
		H	21.67		
	MCH	V	22.18		PASS
		H	21.58		
	HCH	V	22.79		PASS
		H	23.30		
16QAM	LCH	V	23.43	<33.0	PASS
		H	22.96		
	MCH	V	23.55		PASS
		H	21.97		
	HCH	V	22.39		PASS
		H	23.32		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.36	<33.0	PASS
		H	21.94		
	MCH	V	22.09		PASS
		H	23.65		
	HCH	V	22.93		PASS
		H	22.45		
16QAM	LCH	V	22.88	<33.0	PASS
		H	22.46		
	MCH	V	23.16		PASS
		H	21.72		
	HCH	V	22.44		PASS
		H	23.64		
Channel Bandwidth: 20 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	22.65	<33.0	PASS
		H	23.58		
	MCH	V	22.99		PASS
		H	23.25		
	HCH	V	22.58		PASS
		H	23.66		
16QAM	LCH	V	24.21	<33.0	PASS
		H	23.14		
	MCH	V	24.14		PASS
		H	22.78		
	HCH	V	22.94		PASS
		H	23.71		

FDD-LTE Band 26

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	21.03	<33.0	PASS
		H	20.08		
	MCH	V	19.73		PASS
		H	19.99		
	HCH	V	21.28		PASS
		H	20.44		
16QAM	LCH	V	20.03	<33.0	PASS
		H	19.50		
	MCH	V	20.88		PASS
		H	21.50		
	HCH	V	21.10		PASS
		H	20.38		
Channel Bandwidth: 3 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.79	<33.0	PASS
		H	20.86		
	MCH	V	20.01		PASS
		H	20.64		
	HCH	V	20.18		PASS
		H	19.91		
16QAM	LCH	V	20.98	<33.0	PASS
		H	20.23		
	MCH	V	20.63		PASS
		H	21.06		
	HCH	V	21.26		PASS
		H	20.50		

Channel Bandwidth: 5 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.96	<33.0	PASS
		H	20.51		
	MCH	V	21.42		PASS
		H	21.21		
	HCH	V	21.46		PASS
		H	20.58		
16QAM	LCH	V	21.55	<33.0	PASS
		H	20.06		
	MCH	V	21.27		PASS
		H	20.88		
	HCH	V	21.45		PASS
		H	19.77		
Channel Bandwidth: 10 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	20.67	<33.0	PASS
		H	19.27		
	MCH	V	20.92		PASS
		H	19.59		
	HCH	V	19.15		PASS
		H	21.00		
16QAM	LCH	V	19.64	<33.0	PASS
		H	19.95		
	MCH	V	20.26		PASS
		H	20.41		
	HCH	V	20.97		PASS
		H	20.19		

Channel Bandwidth: 15 MHz					
Modulation	Channel	Antenna Polar	E.i.r.p [dBm]	Limit (dBm)	Verdict
QPSK	LCH	V	19.63	<33.0	PASS
		H	20.19		
	MCH	V	19.54		PASS
		H	20.73		
	HCH	V	20.81		PASS
		H	19.99		
16QAM	LCH	V	22.26	<33.0	PASS
		H	20.10		
	MCH	V	20.36		PASS
		H	19.88		
	HCH	V	20.53		PASS
		H	20.11		
		H	22.10		

Max. Conducted Output Power

Please refer to Appendix A: Average Power Output Data

Test result: Pass

8. PEAK-TO-AVERAGE RATIO (PAR) OF TRANSMITTER

8.1 Standard Applicable

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

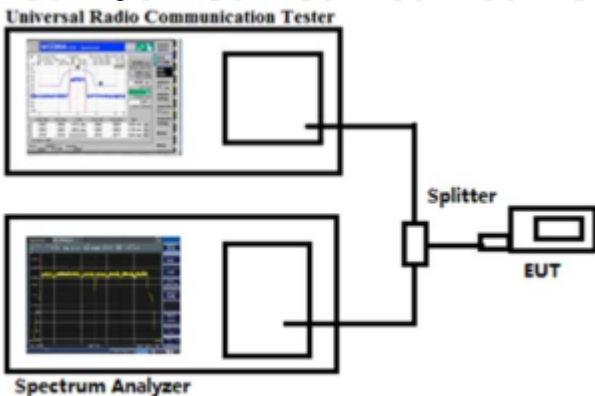
According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

8.2 Test Procedure

According with KDB 971168

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Configuration for the emission bandwidth testing:



8.3 Summary of Test Results

Please refer to Appendix 3: Peak-to-Average Ratio

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

According to §22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

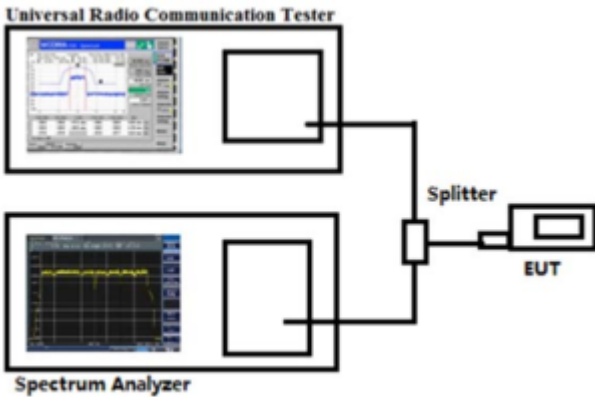
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

According to §27.53, the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

9.2 Test Procedure

According to § 22.917(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

Please refer to Appendix 4: 26dB Bandwidth and Occupied Bandwidth
 Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

According to §22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to §27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

According to §27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

According to §27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

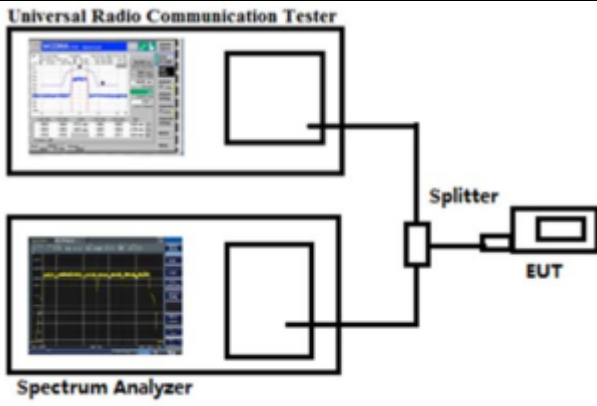
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

According to §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

10.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10 th harmonic.

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

Please refer to Appendix 5 & 6: Band Edge & Conducted Spurious Emission
 Test result: Pass

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to § 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to § 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

According to § 27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

According to § 27.53(h), the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to § 27.53(g) the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

11.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
- Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

11.3 Summary of Test Results/Plots

Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.
 2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.

Test Data:
QPSK

Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1379.14	152	73	-53.61	-13	-40.61	Pass	H
1787.71	144	158	-48.86	-13	-35.86	Pass	H
3925.91	158	132	-51.43	-13	-38.43	Pass	H
5892.24	149	325	-47.31	-13	-34.31	Pass	H
6536.00	156	135	-44.28	-13	-31.28	Pass	H
7939.91	141	128	-46.03	-13	-33.03	Pass	H
1317.00	143	40	-56.34	-13	-43.34	Pass	V
1531.25	159	329	-59.24	-13	-46.24	Pass	V
3602.75	146	145	-53.46	-13	-40.46	Pass	V
3822.13	143	253	-50.32	-13	-37.32	Pass	V
5901.29	144	308	-46.67	-13	-33.67	Pass	V
6571.05	153	169	-48.80	-13	-35.80	Pass	V

Band 5 20525 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1245.54	150	311	-56.60	-13	-43.60	Pass	H
1666.16	146	308	-50.86	-13	-37.86	Pass	H
3818.92	150	176	-52.38	-13	-39.38	Pass	H
5948.85	146	256	-45.85	-13	-32.85	Pass	H
6530.23	149	96	-51.09	-13	-38.09	Pass	H
7966.21	151	158	-49.14	-13	-36.14	Pass	H
1222.53	149	159	-51.24	-13	-38.24	Pass	V
1378.39	148	217	-60.37	-13	-47.37	Pass	V
3577.85	147	250	-56.56	-13	-43.56	Pass	V
3839.57	148	262	-48.78	-13	-35.78	Pass	V
5884.07	150	60	-49.88	-13	-36.88	Pass	V
6527.35	150	153	-46.01	-13	-33.01	Pass	V

Band 5 20643 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	147	44	-56.73	-13	-43.73	Pass	H
1669.90	148	141	-52	-13	-39	Pass	H
3845.50	146	43	-45.66	-13	-32.66	Pass	H
5906.91	150	208	-40.96	-13	-27.96	Pass	H
6531.65	153	8	-42.47	-13	-29.47	Pass	H
8000.07	152	63	-44.74	-13	-31.74	Pass	H
1257.63	146	174	-56.49	-13	-43.49	Pass	V
1403.18	152	299	-56.84	-13	-43.84	Pass	V
3525.24	155	70	-52.79	-13	-39.79	Pass	V
3912.13	147	59	-48.59	-13	-35.59	Pass	V
5788.31	149	104	-43.05	-13	-30.05	Pass	V
6576.29	153	255	-47.76	-13	-34.76	Pass	V

16QAM

Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1244.86	149	0	-58.46	-13	-45.46	Pass	H
1680.93	153	234	-47.46	-13	-34.46	Pass	H
3944.70	153	80	-46.93	-13	-33.93	Pass	H
5988.67	153	65	-43.24	-13	-30.24	Pass	H
6515.28	152	360	-43.18	-13	-30.18	Pass	H
7998.99	151	68	-43.81	-13	-30.81	Pass	H
1113.95	154	317	-55.08	-13	-42.08	Pass	V
1398.49	147	242	-52.87	-13	-39.87	Pass	V
3620.63	146	255	-51.30	-13	-38.30	Pass	V
3890.52	152	302	-52.21	-13	-39.21	Pass	V
5824.61	151	44	-43.95	-13	-30.95	Pass	V
6636.47	148	82	-47.00	-13	-34.00	Pass	V

Band 5 20525 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1424.26	151	230	-53.33	-13	-41.45	Pass	H
1799.15	153	80	-47.33	-13	-37.85	Pass	H
3754.55	154	359	-44.42	-13	-35.2	Pass	H
5903.20	149	302	-42.32	-13	-30.39	Pass	H
6434.27	148	149	-42.26	-13	-32.24	Pass	H
7964.94	148	167	-43.23	-13	-30.22	Pass	H
1241.73	145	17	-60.81	-13	-44.9	Pass	V
1440.84	149	85	-59.05	-13	-43.63	Pass	V
3580.22	153	82	-47.16	-13	-35.94	Pass	V
3875.37	148	164	-50.17	-13	-36.01	Pass	V
5790.37	153	243	-48.23	-13	-33.75	Pass	V
6473.11	152	175	-44.59	-13	-32.41	Pass	V

Band 5 20643 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1407.49	148	26	-59.06	-13	-46.06	Pass	H
1797.94	148	351	-45.94	-13	-32.94	Pass	H
3835.92	147	226	-43.22	-13	-30.22	Pass	H
5833.43	151	25	-43.04	-13	-30.04	Pass	H
6418.63	154	57	-40.36	-13	-27.36	Pass	H
8017.41	148	51	-45.32	-13	-32.32	Pass	H
1242.34	145	283	-56.08	-13	-43.08	Pass	V
1365.09	153	312	-60.46	-13	-47.46	Pass	V
3612.14	148	332	-52.05	-13	-39.05	Pass	V
3924.04	150	299	-50.64	-13	-37.64	Pass	V
5759.72	148	51	-45.71	-13	-32.71	Pass	V
6461.30	148	13	-44.51	-13	-31.51	Pass	V

QPSK

Band 4 19957 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1271.45	148	278	-56.48	-13	-43.48	Pass	H
1680.93	148	174	-52.69	-13	-39.69	Pass	H
3989.49	159	320	-51.51	-13	-38.51	Pass	H
5825.37	149	15	-44.37	-13	-31.37	Pass	H
6462.26	158	79	-43.42	-13	-30.42	Pass	H
7907.18	140	177	-46.03	-13	-33.03	Pass	H
1229.46	145	230	-53.95	-13	-40.95	Pass	V
1508.98	156	220	-57.65	-13	-44.65	Pass	V
3590.87	145	266	-51.61	-13	-38.61	Pass	V
3827.33	149	231	-47.13	-13	-34.13	Pass	V
5832.80	147	93	-47.11	-13	-34.11	Pass	V
6548.78	160	233	-50.43	-13	-37.43	Pass	V

Band 4 20175 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1366.22	150	3	-57.44	-13	-44.44	Pass	H
1649.02	146	307	-52.18	-13	-39.18	Pass	H
3798.51	150	82	-52.20	-13	-39.20	Pass	H
5876.81	146	28	-44.47	-13	-31.47	Pass	H
6440.09	149	90	-48.86	-13	-35.86	Pass	H
8006.82	151	318	-46.84	-13	-33.84	Pass	H
1171.30	149	289	-56.34	-13	-43.34	Pass	V
1469.27	148	4	-56.96	-13	-43.96	Pass	V
3674.79	147	131	-52.42	-13	-39.42	Pass	V
3933.48	148	82	-48.40	-13	-35.40	Pass	V
5810.97	150	231	-50.03	-13	-37.03	Pass	V
6508.00	150	68	-45.54	-13	-32.54	Pass	V

Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	151	221	-56.73	-13	-43.73	Pass	H
1669.90	154	333	-52	-13	-39	Pass	H
3845.50	147	76	-45.66	-13	-32.66	Pass	H
5906.91	152	306	-40.96	-13	-27.96	Pass	H
6531.65	150	192	-42.47	-13	-29.47	Pass	H
8000.07	152	201	-44.74	-13	-31.74	Pass	H
1257.63	146	191	-56.49	-13	-43.49	Pass	V
1403.18	149	114	-56.84	-13	-43.84	Pass	V
3525.24	148	38	-52.79	-13	-39.79	Pass	V
3912.13	155	244	-48.59	-13	-35.59	Pass	V
5788.31	151	350	-43.05	-13	-30.05	Pass	V
6576.29	152	148	-47.76	-13	-34.76	Pass	V

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Band 4 19957 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1420.53	150	46	-58.58	-13	-45.58	Pass	H
1799.14	147	236	-48.44	-13	-35.44	Pass	H
3941.94	148	175	-51.57	-13	-38.57	Pass	H
5962.24	147	153	-45.11	-13	-32.11	Pass	H
6609.82	152	79	-45.92	-13	-32.92	Pass	H
7948.55	151	92	-41.20	-13	-28.20	Pass	H
1128.90	150	146	-53.42	-13	-40.42	Pass	V
1480.87	154	42	-52.98	-13	-39.98	Pass	V
3529.67	145	262	-54.12	-13	-41.12	Pass	V
3874.33	145	41	-50.95	-13	-37.95	Pass	V
5833.56	150	9	-42.76	-13	-29.76	Pass	V
6673.32	146	272	-49.35	-13	-36.35	Pass	V

Band 4 20175 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1308.06	149	211	-54.12	-13	-41.45	Pass	H
1607.95	152	50	-47.75	-13	-37.85	Pass	H
3758.12	149	1	-49.63	-13	-35.2	Pass	H
5997.63	150	75	-42.59	-13	-30.39	Pass	H
6494.50	151	85	-44.55	-13	-32.24	Pass	H
8028.40	153	69	-45.80	-13	-30.22	Pass	H
1288.60	151	59	-58.25	-13	-44.9	Pass	V
1340.25	150	324	-55.39	-13	-43.63	Pass	V
3585.28	150	80	-46.00	-13	-35.94	Pass	V
3779.65	151	141	-51.32	-13	-36.01	Pass	V
5779.69	146	212	-48.47	-13	-33.75	Pass	V
6557.54	152	161	-41.53	-13	-32.41	Pass	V

Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1391.86	153	111	-57.94	-13	-44.94	Pass	H
1651.65	150	256	-46.90	-13	-33.90	Pass	H
3877.18	149	76	-46.23	-13	-33.23	Pass	H
5862.87	151	196	-43.65	-13	-30.65	Pass	H
6495.96	150	62	-40.21	-13	-27.21	Pass	H
8105.02	148	208	-47.09	-13	-34.09	Pass	H
1200.71	148	28	-53.48	-13	-40.48	Pass	V
1437.20	149	171	-60.23	-13	-47.23	Pass	V
3567.49	151	295	-47.66	-13	-34.66	Pass	V
3828.31	153	279	-48.09	-13	-35.09	Pass	V
5849.13	149	353	-50.99	-13	-37.99	Pass	V
6532.77	152	100	-44.32	-13	-31.32	Pass	V

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Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1336.24	153	201	-56.20	-13	-43.20	Pass	H
1769.50	143	282	-51.34	-13	-38.34	Pass	H
3960.08	148	307	-51.21	-13	-38.21	Pass	H
5811.34	150	213	-43.43	-13	-30.43	Pass	H
6583.21	142	359	-45.29	-13	-32.29	Pass	H
8007.55	152	305	-48.65	-13	-35.65	Pass	H
1222.77	158	283	-58.02	-13	-45.02	Pass	V
1423.79	144	329	-58.85	-13	-45.85	Pass	V
3599.05	150	10	-51.74	-13	-38.74	Pass	V
3904.61	147	294	-50.06	-13	-37.06	Pass	V
5735.74	148	182	-45.12	-13	-32.12	Pass	V
6508.30	153	59	-47.60	-13	-34.60	Pass	V

Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1236.45	150	139	-57.15	-13	-44.15	Pass	H
1615.70	146	277	-50.62	-13	-37.62	Pass	H
3856.42	150	335	-51.00	-13	-38.00	Pass	H
5839.00	146	84	-46.26	-13	-33.26	Pass	H
6520.28	149	270	-49.96	-13	-36.96	Pass	H
7922.83	151	154	-48.53	-13	-35.53	Pass	H
1321.39	149	171	-52.26	-13	-39.26	Pass	V
1485.78	148	254	-61.19	-13	-48.19	Pass	V
3574.13	147	309	-54.87	-13	-41.87	Pass	V
3932.20	148	236	-53.37	-13	-40.37	Pass	V
5849.05	150	279	-46.21	-13	-33.21	Pass	V
6569.23	150	297	-47.64	-13	-34.64	Pass	V

Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	148	351	-56.73	-13	-43.73	Pass	H
1669.90	145	301	-52	-13	-39	Pass	H
3845.50	153	47	-45.66	-13	-32.66	Pass	H
5906.91	153	228	-40.96	-13	-27.96	Pass	H
6531.65	148	299	-42.47	-13	-29.47	Pass	H
8000.07	147	47	-44.74	-13	-31.74	Pass	H
1257.63	148	266	-56.49	-13	-43.49	Pass	V
1403.18	145	314	-56.84	-13	-43.84	Pass	V
3525.24	146	221	-52.79	-13	-39.79	Pass	V
3912.13	149	220	-48.59	-13	-35.59	Pass	V
5788.31	148	121	-43.05	-13	-30.05	Pass	V
6576.29	151	353	-47.76	-13	-34.76	Pass	V

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Band 2 18607channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1318.37	146	201	-56.25	-13	-43.25	Pass	H
1761.28	145	51	-46.88	-13	-33.88	Pass	H
3777.73	155	184	-49.35	-13	-36.35	Pass	H
5957.35	147	259	-43.00	-13	-30.00	Pass	H
6489.30	151	132	-46.67	-13	-33.67	Pass	H
7900.35	151	308	-44.30	-13	-31.30	Pass	H
1134.94	147	196	-51.09	-13	-38.09	Pass	V
1501.08	146	201	-53.93	-13	-40.93	Pass	V
3663.35	148	304	-51.52	-13	-38.52	Pass	V
3959.55	145	243	-52.61	-13	-39.61	Pass	V
5879.70	153	280	-47.11	-13	-34.11	Pass	V
6607.16	148	74	-47.70	-13	-34.70	Pass	V

Band 2 18900 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1308.51	154	167	-55.24	-13	-41.45	Pass	H
1795.25	150	12	-49.53	-13	-37.85	Pass	H
3873.19	147	10	-50.25	-13	-35.2	Pass	H
5899.90	151	213	-46.00	-13	-30.39	Pass	H
6551.02	146	278	-47.67	-13	-32.24	Pass	H
8123.88	153	330	-44.64	-13	-30.22	Pass	H
1195.44	152	304	-54.58	-13	-44.9	Pass	V
1307.52	150	73	-56.20	-13	-43.63	Pass	V
3541.68	152	351	-49.91	-13	-35.94	Pass	V
3784.09	149	53	-48.76	-13	-36.01	Pass	V
5787.55	151	345	-48.80	-13	-33.75	Pass	V
6526.77	150	122	-44.23	-13	-32.41	Pass	V

Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1426.17	153	52	-58.26	-13	-45.26	Pass	H
1660.91	152	164	-49.23	-13	-36.23	Pass	H
3967.91	145	177	-47.06	-13	-34.06	Pass	H
5845.61	150	56	-41.82	-13	-28.82	Pass	H
6446.18	146	206	-37.54	-13	-24.54	Pass	H
8101.00	152	345	-47.55	-13	-34.55	Pass	H
1194.57	150	58	-58.22	-13	-45.22	Pass	V
1528.85	148	83	-61.46	-13	-48.46	Pass	V
3511.35	154	80	-51.66	-13	-38.66	Pass	V
3903.09	150	344	-53.13	-13	-40.13	Pass	V
5737.04	146	261	-51.53	-13	-38.53	Pass	V
6620.53	146	307	-46.35	-13	-33.35	Pass	V

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Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1423.41	158	233	-54.44	-13	-41.44	Pass	H
1687.51	153	172	-53.28	-13	-40.28	Pass	H
3857.72	153	65	-49.24	-13	-36.24	Pass	H
5836.74	145	0	-47.01	-13	-34.01	Pass	H
6398.75	147	40	-43.48	-13	-30.48	Pass	H
7921.74	160	56	-45.53	-13	-32.53	Pass	H
1153.07	146	308	-57.43	-13	-44.43	Pass	V
1367.40	146	205	-58.96	-13	-45.96	Pass	V
3486.04	141	168	-50.28	-13	-37.28	Pass	V
3900.53	148	172	-48.94	-13	-35.94	Pass	V
5726.22	156	330	-46.70	-13	-33.70	Pass	V
6577.19	144	355	-49.38	-13	-36.38	Pass	V

Band 12 23095 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1219.97	150	6	-54.90	-13	-41.90	Pass	H
1643.24	146	139	-54.32	-13	-41.32	Pass	H
3891.12	150	36	-53.37	-13	-40.37	Pass	H
5818.47	146	199	-44.97	-13	-31.97	Pass	H
6387.77	149	144	-50.61	-13	-37.61	Pass	H
8013.32	151	92	-51.18	-13	-38.18	Pass	H
1147.05	149	158	-52.45	-13	-39.45	Pass	V
1376.25	148	327	-61.51	-13	-48.51	Pass	V
3569.80	147	246	-54.65	-13	-41.65	Pass	V
3972.57	148	100	-49.49	-13	-36.49	Pass	V
5860.86	150	282	-47.35	-13	-34.35	Pass	V
6440.15	150	346	-46.08	-13	-33.08	Pass	V

Band 12 23173 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	147	197	-56.73	-13	-43.73	Pass	H
1669.90	154	123	-52	-13	-39	Pass	H
3845.50	146	193	-45.66	-13	-32.66	Pass	H
5906.91	147	98	-40.96	-13	-27.96	Pass	H
6531.65	151	105	-42.47	-13	-29.47	Pass	H
8000.07	148	233	-44.74	-13	-31.74	Pass	H
1257.63	155	19	-56.49	-13	-43.49	Pass	V
1403.18	148	140	-56.84	-13	-43.84	Pass	V
3525.24	147	88	-52.79	-13	-39.79	Pass	V
3912.13	154	315	-48.59	-13	-35.59	Pass	V
5788.31	146	46	-43.05	-13	-30.05	Pass	V
6576.29	153	70	-47.76	-13	-34.76	Pass	V

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Band 12 23017channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1240.28	152	305	-59.79	-13	-46.79	Pass	H
1737.63	146	348	-45.80	-13	-32.80	Pass	H
3958.45	145	132	-48.27	-13	-35.27	Pass	H
5932.08	147	39	-45.90	-13	-32.90	Pass	H
6572.46	155	342	-46.96	-13	-33.96	Pass	H
7985.27	145	278	-43.80	-13	-30.80	Pass	H
1090.67	149	267	-51.50	-13	-38.50	Pass	V
1371.02	152	165	-55.07	-13	-42.07	Pass	V
3680.53	147	141	-48.86	-13	-35.86	Pass	V
3809.40	150	173	-52.49	-13	-39.49	Pass	V
5847.68	155	330	-47.00	-13	-34.00	Pass	V
6619.53	145	152	-51.98	-13	-38.98	Pass	V

Band 12 23095 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1344.63	146	99	-54.52	-13	-41.45	Pass	H
1637.76	152	203	-48.75	-13	-37.85	Pass	H
3932.86	153	206	-47.78	-13	-35.2	Pass	H
5940.49	150	305	-42.90	-13	-30.39	Pass	H
6500.15	149	285	-47.45	-13	-32.24	Pass	H
8086.34	150	342	-41.08	-13	-30.22	Pass	H
1102.21	149	235	-60.80	-13	-44.9	Pass	V
1392.21	146	280	-53.48	-13	-43.63	Pass	V
3465.47	147	85	-49.82	-13	-35.94	Pass	V
3783.94	146	333	-51.07	-13	-36.01	Pass	V
5843.60	148	185	-42.87	-13	-33.75	Pass	V
6565.22	147	58	-44.69	-13	-32.41	Pass	V

Band 12 23173 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1336.32	151	233	-57.29	-13	-44.29	Pass	H
1740.15	154	84	-51.58	-13	-38.58	Pass	H
3807.00	147	287	-46.37	-13	-33.37	Pass	H
5968.94	145	143	-43.76	-13	-30.76	Pass	H
6482.96	147	271	-42.97	-13	-29.97	Pass	H
8044.07	148	54	-43.51	-13	-30.51	Pass	H
1110.54	147	174	-57.62	-13	-44.62	Pass	V
1521.48	153	239	-61.57	-13	-48.57	Pass	V
3534.08	148	349	-50.98	-13	-37.98	Pass	V
3859.16	150	106	-48.26	-13	-35.26	Pass	V
5737.29	147	152	-51.67	-13	-38.67	Pass	V
6637.39	152	154	-48.30	-13	-35.30	Pass	V

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Band 13 23025 channel/BW5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1288.87	150	248	-57.25	-13	-44.25	Pass	H
1808.14	154	337	-49.59	-13	-36.59	Pass	H
3910.92	156	190	-48.15	-13	-35.15	Pass	H
5904.74	155	277	-46.65	-13	-33.65	Pass	H
6448.64	151	103	-43.36	-13	-30.36	Pass	H
7939.72	147	252	-48.54	-13	-35.54	Pass	H
1136.18	156	316	-56.63	-13	-43.63	Pass	V
1419.95	141	151	-57.70	-13	-44.70	Pass	V
3576.23	157	123	-52.13	-13	-39.13	Pass	V
3881.36	154	62	-48.44	-13	-35.44	Pass	V
5789.63	150	78	-47.26	-13	-34.26	Pass	V
6546.10	143	264	-50.95	-13	-37.95	Pass	V

Band 13 23230 channel/BW5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1351.64	150	135	-54.30	-13	-41.30	Pass	H
1729.08	146	345	-50.60	-13	-37.60	Pass	H
3897.16	150	25	-51.19	-13	-38.19	Pass	H
5942.17	146	292	-46.37	-13	-33.37	Pass	H
6384.12	149	89	-51.29	-13	-38.29	Pass	H
8031.05	151	266	-47.96	-13	-34.96	Pass	H
1175.88	149	212	-56.15	-13	-43.15	Pass	V
1451.90	148	115	-57.85	-13	-44.85	Pass	V
3635.46	147	47	-51.70	-13	-38.70	Pass	V
3982.41	148	257	-48.92	-13	-35.92	Pass	V
5911.05	150	258	-45.89	-13	-32.89	Pass	V
6453.98	150	255	-49.41	-13	-36.41	Pass	V

Band 13 23255 channel/BW5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	148	32	-56.73	-13	-43.73	Pass	H
1669.90	146	246	-52	-13	-39	Pass	H
3845.50	149	259	-45.66	-13	-32.66	Pass	H
5906.91	148	264	-40.96	-13	-27.96	Pass	H
6531.65	150	307	-42.47	-13	-29.47	Pass	H
8000.07	155	279	-44.74	-13	-31.74	Pass	H
1257.63	151	242	-56.49	-13	-43.49	Pass	V
1403.18	153	252	-56.84	-13	-43.84	Pass	V
3525.24	149	346	-52.79	-13	-39.79	Pass	V
3912.13	145	249	-48.59	-13	-35.59	Pass	V
5788.31	153	240	-43.05	-13	-30.05	Pass	V
6576.29	146	242	-47.76	-13	-34.76	Pass	V

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Band 13 23025channel/BW5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1364.55	153	136	-60.84	-13	-47.84	Pass	H
1742.79	149	320	-47.59	-13	-34.59	Pass	H
3833.19	152	264	-46.41	-13	-33.41	Pass	H
5937.04	154	112	-47.03	-13	-34.03	Pass	H
6560.58	152	57	-42.26	-13	-29.26	Pass	H
8001.70	153	30	-41.91	-13	-28.91	Pass	H
1154.58	149	20	-50.00	-13	-37.00	Pass	V
1464.42	154	219	-57.29	-13	-44.29	Pass	V
3610.88	150	126	-48.84	-13	-35.84	Pass	V
3807.83	148	297	-50.99	-13	-37.99	Pass	V
5845.26	148	7	-44.74	-13	-31.74	Pass	V
6483.60	149	169	-49.69	-13	-36.69	Pass	V

Band 13 23230 channel/BW5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1351.20	152	298	-53.71	-13	-41.45	Pass	H
1732.06	149	310	-53.49	-13	-37.85	Pass	H
3938.38	153	11	-49.12	-13	-35.2	Pass	H
5994.00	149	103	-44.50	-13	-30.39	Pass	H
6487.64	153	36	-46.47	-13	-32.24	Pass	H
7986.55	150	320	-41.39	-13	-30.22	Pass	H
1200.17	148	169	-60.67	-13	-44.9	Pass	V
1482.99	146	177	-53.16	-13	-43.63	Pass	V
3579.45	150	39	-45.68	-13	-35.94	Pass	V
3858.52	151	144	-51.90	-13	-36.01	Pass	V
5895.38	154	36	-48.83	-13	-33.75	Pass	V
6432.51	149	345	-41.52	-13	-32.41	Pass	V

Band 13 23255 channel/BW5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1234.06	155	43	-55.18	-13	-42.18	Pass	H
1719.69	150	177	-47.96	-13	-34.96	Pass	H
3969.90	147	159	-40.24	-13	-27.24	Pass	H
5951.83	149	115	-43.94	-13	-30.94	Pass	H
6439.68	151	314	-43.74	-13	-30.74	Pass	H
8023.36	152	86	-48.59	-13	-35.59	Pass	H
1112.49	152	64	-55.02	-13	-42.02	Pass	V
1406.27	145	96	-58.70	-13	-45.70	Pass	V
3641.48	146	313	-52.87	-13	-39.87	Pass	V
3856.91	149	161	-53.86	-13	-40.86	Pass	V
5733.33	154	57	-45.57	-13	-32.57	Pass	V
6539.76	148	337	-44.72	-13	-31.72	Pass	V

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Band 25 26047 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1307.41	159	284	-53.68	-13	-40.68	Pass	H
1662.96	150	87	-50.75	-13	-37.75	Pass	H
3951.91	150	121	-50.21	-13	-37.21	Pass	H
5844.18	153	132	-44.75	-13	-31.75	Pass	H
6591.73	146	194	-46.43	-13	-33.43	Pass	H
7939.29	151	323	-46.57	-13	-33.57	Pass	H
1181.56	158	206	-54.48	-13	-41.48	Pass	V
1537.95	154	116	-56.49	-13	-43.49	Pass	V
3480.00	154	31	-50.90	-13	-37.90	Pass	V
3827.95	159	29	-50.02	-13	-37.02	Pass	V
5801.84	147	315	-47.71	-13	-34.71	Pass	V
6515.70	157	19	-46.72	-13	-33.72	Pass	V

Band 25 26365 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1199.19	150	307	-55.60	-13	-42.60	Pass	H
1721.66	146	61	-52.39	-13	-39.39	Pass	H
3853.39	150	253	-47.87	-13	-34.87	Pass	H
5853.81	146	199	-45.92	-13	-32.92	Pass	H
6504.72	149	125	-46.65	-13	-33.65	Pass	H
8119.66	151	324	-45.91	-13	-32.91	Pass	H
1148.89	149	202	-54.38	-13	-41.38	Pass	V
1488.32	148	177	-57.73	-13	-44.73	Pass	V
3632.90	147	48	-55.36	-13	-42.36	Pass	V
3864.25	148	238	-50.39	-13	-37.39	Pass	V
5767.19	150	59	-50.44	-13	-37.44	Pass	V
6438.51	150	78	-46.52	-13	-33.52	Pass	V

Band 25 26683 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	145	56	-56.73	-13	-43.73	Pass	H
1669.90	145	321	-52	-13	-39	Pass	H
3845.50	147	204	-45.66	-13	-32.66	Pass	H
5906.91	146	333	-40.96	-13	-27.96	Pass	H
6531.65	147	195	-42.47	-13	-29.47	Pass	H
8000.07	149	132	-44.74	-13	-31.74	Pass	H
1257.63	148	256	-56.49	-13	-43.49	Pass	V
1403.18	153	195	-56.84	-13	-43.84	Pass	V
3525.24	152	194	-52.79	-13	-39.79	Pass	V
3912.13	153	207	-48.59	-13	-35.59	Pass	V
5788.31	148	223	-43.05	-13	-30.05	Pass	V
6576.29	150	101	-47.76	-13	-34.76	Pass	V

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Band 25 26047channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1281.15	148	359	-60.36	-13	-47.36	Pass	H
1727.02	152	231	-46.42	-13	-33.42	Pass	H
3786.92	154	74	-49.27	-13	-36.27	Pass	H
5864.89	146	188	-42.74	-13	-29.74	Pass	H
6583.38	147	360	-44.00	-13	-31.00	Pass	H
7972.88	147	206	-44.76	-13	-31.76	Pass	H
1198.24	153	287	-50.17	-13	-37.17	Pass	V
1355.09	147	264	-58.01	-13	-45.01	Pass	V
3599.37	152	295	-53.86	-13	-40.86	Pass	V
3863.46	146	269	-50.00	-13	-37.00	Pass	V
5893.78	152	95	-44.51	-13	-31.51	Pass	V
6662.71	148	243	-51.43	-13	-38.43	Pass	V

Band 25 26365 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1333.14	149	59	-56.40	-13	-41.45	Pass	H
1758.94	153	206	-52.91	-13	-37.85	Pass	H
3769.00	146	18	-51.04	-13	-35.2	Pass	H
6000.81	147	338	-40.75	-13	-30.39	Pass	H
6538.04	148	98	-47.02	-13	-32.24	Pass	H
8084.40	151	257	-45.32	-13	-30.22	Pass	H
1120.42	155	155	-57.68	-13	-44.9	Pass	V
1304.15	155	149	-59.26	-13	-43.63	Pass	V
3437.93	146	272	-47.61	-13	-35.94	Pass	V
3783.24	154	157	-51.73	-13	-36.01	Pass	V
5887.13	149	71	-49.19	-13	-33.75	Pass	V
6581.76	147	359	-46.20	-13	-32.41	Pass	V

Band 25 26683 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1411.90	147	351	-54.77	-13	-41.77	Pass	H
1660.12	149	261	-46.56	-13	-33.56	Pass	H
3853.06	148	286	-41.20	-13	-28.20	Pass	H
5859.25	150	49	-45.20	-13	-32.20	Pass	H
6410.86	152	279	-39.51	-13	-26.51	Pass	H
7987.18	147	318	-45.07	-13	-32.07	Pass	H
1133.17	146	312	-52.06	-13	-39.06	Pass	V
1504.75	150	164	-55.87	-13	-42.87	Pass	V
3612.65	149	244	-50.24	-13	-37.24	Pass	V
3844.42	149	214	-51.35	-13	-38.35	Pass	V
5812.21	147	122	-46.30	-13	-33.30	Pass	V
6551.17	154	348	-48.64	-13	-35.64	Pass	V

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Band26(824-849)

Band 26 26797 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1417.11	141	71	-53.24	-13	-40.24	Pass	H
1731.26	144	51	-52.46	-13	-39.46	Pass	H
3898.44	142	56	-49.83	-13	-36.83	Pass	H
5885.48	158	202	-45.82	-13	-32.82	Pass	H
6494.95	160	302	-45.36	-13	-32.36	Pass	H
7910.64	154	96	-49.15	-13	-36.15	Pass	H
1217.86	143	159	-58.03	-13	-45.03	Pass	V
1381.83	141	252	-59.46	-13	-46.46	Pass	V
3543.40	151	54	-53.25	-13	-40.25	Pass	V
3898.58	143	236	-48.59	-13	-35.59	Pass	V
5789.36	156	80	-44.76	-13	-31.76	Pass	V
6468.51	152	175	-49.30	-13	-36.30	Pass	V

Band 26 26915 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1322.82	150	105	-57.70	-13	-44.70	Pass	H
1792.06	146	225	-54.74	-13	-41.74	Pass	H
3853.28	150	76	-48.65	-13	-35.65	Pass	H
5790.15	146	23	-44.09	-13	-31.09	Pass	H
6513.66	149	283	-49.61	-13	-36.61	Pass	H
7983.12	151	1	-46.62	-13	-33.62	Pass	H
1228.64	149	220	-54.90	-13	-41.90	Pass	V
1353.72	148	21	-57.19	-13	-44.19	Pass	V
3621.05	147	16	-53.41	-13	-40.41	Pass	V
3970.23	148	226	-48.69	-13	-35.69	Pass	V
5772.99	150	42	-49.06	-13	-36.06	Pass	V
6441.67	150	22	-47.91	-13	-34.91	Pass	V

Band 26 27033 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1340.71	148	34	-56.73	-13	-43.73	Pass	H
1669.90	146	180	-52	-13	-39	Pass	H
3845.50	151	3	-45.66	-13	-32.66	Pass	H
5906.91	149	52	-40.96	-13	-27.96	Pass	H
6531.65	148	42	-42.47	-13	-29.47	Pass	H
8000.07	148	121	-44.74	-13	-31.74	Pass	H
1257.63	152	136	-56.49	-13	-43.49	Pass	V
1403.18	152	257	-56.84	-13	-43.84	Pass	V
3525.24	146	243	-52.79	-13	-39.79	Pass	V
3912.13	155	97	-48.59	-13	-35.59	Pass	V
5788.31	152	161	-43.05	-13	-30.05	Pass	V
6576.29	152	51	-47.76	-13	-34.76	Pass	V

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Band 26 26797channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1240.06	153	82	-60.51	-13	-47.51	Pass	H
1619.41	147	88	-46.44	-13	-33.44	Pass	H
3783.04	147	261	-46.19	-13	-33.19	Pass	H
5927.40	146	100	-42.28	-13	-29.28	Pass	H
6460.99	149	213	-46.19	-13	-33.19	Pass	H
7971.80	153	254	-44.37	-13	-31.37	Pass	H
1217.00	154	39	-52.03	-13	-39.03	Pass	V
1498.45	146	153	-54.00	-13	-41.00	Pass	V
3661.22	147	67	-52.36	-13	-39.36	Pass	V
3948.58	151	358	-49.43	-13	-36.43	Pass	V
5771.92	149	87	-46.20	-13	-33.20	Pass	V
6675.37	153	154	-49.40	-13	-36.40	Pass	V

Band 26 26915 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1335.47	146	165	-57.07	-13	-41.45	Pass	H
1782.80	146	114	-53.14	-13	-37.85	Pass	H
3938.10	154	21	-46.32	-13	-35.2	Pass	H
6024.51	146	285	-43.08	-13	-30.39	Pass	H
6589.71	151	246	-43.22	-13	-32.24	Pass	H
7986.36	146	343	-42.23	-13	-30.22	Pass	H
1253.73	153	265	-56.99	-13	-44.9	Pass	V
1468.45	155	321	-53.90	-13	-43.63	Pass	V
3550.34	153	46	-45.48	-13	-35.94	Pass	V
3829.98	153	326	-47.06	-13	-36.01	Pass	V
5915.95	152	197	-45.22	-13	-33.75	Pass	V
6558.23	154	216	-45.29	-13	-32.41	Pass	V

Band 26 27033 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1235.57	149	155	-52.49	-13	-39.49	Pass	H
1787.00	154	64	-52.50	-13	-39.50	Pass	H
3853.78	152	127	-43.43	-13	-30.43	Pass	H
5912.25	152	200	-45.25	-13	-32.25	Pass	H
6513.89	154	329	-40.81	-13	-27.81	Pass	H
8042.63	145	63	-44.60	-13	-31.60	Pass	H
1110.10	151	274	-53.56	-13	-40.56	Pass	V
1546.95	155	268	-58.26	-13	-45.26	Pass	V
3609.21	145	305	-49.03	-13	-36.03	Pass	V
3804.53	146	165	-49.76	-13	-36.76	Pass	V
5732.48	153	44	-45.62	-13	-32.62	Pass	V
6465.51	151	58	-45.48	-13	-32.48	Pass	V

Note:

- 1) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) Tested with all kind of bandwidth, RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

12. FREQUENCY STABILITY

12.1 Standard Applicable

According to §22.355, §24.235, §27.54 the limit is 2.5ppm.

12.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

12.3 Summary of Test Results/Plots

Note: 1.Normal Voltage NV=DC 7.4V; Low Voltage LV=DC 6.66V; High Voltage HV=DC 8.14V

Please refer to Appendix F: Frequency Stability

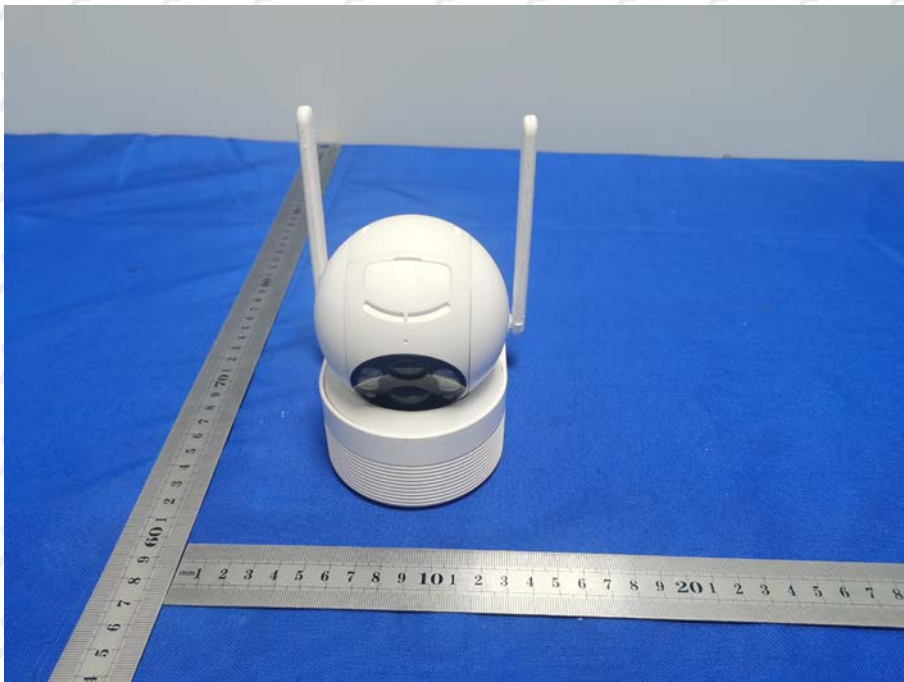
Test result: Pass

13. EUT PHOTOGRAPHS

EUT Photo 1



EUT Photo 2



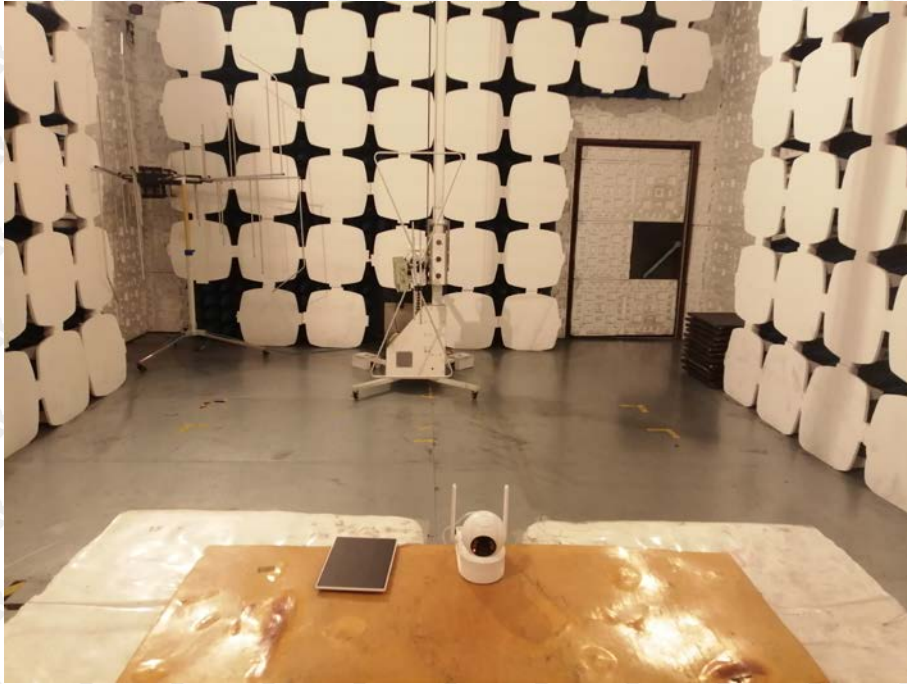
EUT Photo 3**EUT Photo 4**

EUT Photo 5**EUT Photo 6**

14. EUT TEST SETUP PHOTOGRAPHS

Spurious emissions

Below 1GHz



Above 1GHz



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