



TEST REPORT

Product Name: Mobile Video Recorder
FCC ID: 2BNWI-JS9818AHD-GW4
Trademark: N/A
Model Number: JS9818AHD-GW4, JS9818AHD-G4, JS9818AHD-GW, JS9818, JS9808AHD-GW4, JS9808AHD-G4, JS9808AHD-GW, JS9808, JS9718AHD-GW4, JS9718AHD-G4, JS9718AHD-GW, JS9718, JS9804AHD-GW4, JS9804AHD-G4, JS9804AHD-GW, JS9804, JS9604AHD-GW4, JS9604AHD-G4, JS9604AHD-GW, JS9604, JS-MNC610-GW4, JS-DS-440 Plus, JS-DS-911Plus, JS-DS-008Pls, JS9814AHD-GW4, JS9814AHD-G4, JS9814-GW, JS9814
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Sample Received Date: Jan. 08, 2025
Sample tested Date: Jan. 08, 2025 to Feb. 17, 2025
Issue Date: Feb. 17, 2025
Report No.: CTB25010806401RF02
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

Reviewed by:

Approved by:

Zhou kui

Arron Liu



Zhou Kui

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Bin Mei / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB25010806401RF02	Feb. 17, 2025	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)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 22.913(a)(5)/Part27.50(h)(2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 27.50(d)	KDB 971168 D01v03r01	PASS
99% & 26dB Occupied Bandwidth	Part 2.1049(h)	KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 27.53(m) (4)	KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1053/ Part 22.917(a)/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54	TIA-603-E-2016 & KDB 971168 D01v03r01	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 camber 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℃
frequency	1×10 ⁻⁷

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	JS9818AHD-GW4, JS9818AHD-G4, JS9818AHD-GW, JS9818, JS9808AHD-GW4, JS9808AHD-G4, JS9808AHD-GW, JS9808, JS9718AHD-GW4, JS9718AHD-G4, JS9718AHD-GW, JS9718, JS9804AHD-GW4, JS9804AHD-G4, JS9804AHD-GW, JS9804, JS9604AHD-GW4, JS9604AHD-G4, JS9604AHD-GW, JS9604, JS-MNC610-GW4, JS-DS-440 Plus, JS-DS-911Plus, JS-DS-008Pls, JS9814AHD-GW4, JS9814AHD-G4, JS9814-GW, JS9814
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: JS9818AHD-GW4
Hardware Version:	V1.0
Software Version:	V1.0
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 66: 1710-1780MHz TDD-LTE BAND 71: 663-698MHz
Max. RF output power:	FDD-LTE BAND 2: 23.31dBm FDD-LTE BAND 4: 22.64dBm FDD-LTE BAND 5: 23.73dBm FDD-LTE BAND 12: 23.59dBm FDD-LTE BAND 13: 23.59dBm FDD-LTE BAND 66: 23.01dBm TDD-LTE BAND 71: 23.57dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	External antenna
Antenna Gain:	FDD-LTE BAND 2: -3.46dBi FDD-LTE BAND 4: -0.69dBi FDD-LTE BAND 5: -1.19dBi FDD-LTE BAND 12: -1.17dBi FDD-LTE BAND 13: -1.26dBi FDD-LTE BAND 66: -0.69dBi TDD-LTE BAND 71: -0.47dBi
Ratings:	DC 8-32V

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	DC power	LONGWEI	TPR-12002D	N/A	AE

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 (QPSK and 16QAM)	Bandwidth(MHz)	Low Frequency(MHz)	Mid Frequency(MHz)	Upper Frequency(MHz)
TM1	FDD-LTE BAND 2	1.4	1850.7	1880	1909.3
		3	1851.5	1880	1908.5
		5	1852.5	1880	1907.5
		10	1855	1880	1905
		15	1857.5	1880	1902.5
		20	1860	1880	1900
TM2	FDD-LTE BAND 4	1.4	1710.7	1732.5	1754.3
		3	1711.5	1732.5	1753.5
		5	1712.5	1732.5	1752.5
		10	1715	1732.5	1750
		15	1717.5	1732.5	1747.5
		20	1720	1732.5	1745
TM3	FDD-LTE BAND 5	1.4	824.7	836.5	848.3
		3	825.5	836.5	847.5
		5	826.5	836.5	846.5
		10	829	836.5	844
TM4	FDD-LTE BAND 12	1.4	699.7	707.5	715.3
		3	700.5	707.5	714.5
		5	701.5	707.5	713.5
		10	704	707.5	711
TM5	FDD-LTE	5	779.5	782	784.5

	BAND 13	10	782		
TM6	FDD-LTE BAND 66	1.4	1710.7	1745	1779.3
		3	1711.5	1745	1778.5
		5	1712.5	1745	1777.5
		10	1715	1745	1775
		15	1717.5	1745	1772.5
		20	1720	1745	1770
TM7	FDD-LTE BAND 71	5	665.5	680.5	695.5
		10	668	680.5	693
		15	670.5	680.5	690.5
		20	673	683	688

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	32V
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 1&2F., Building A, No. 26, Xinghe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, 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

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/6/28
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/6/28
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/6/28
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/6/28
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/6/28
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/6/28
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/6/28
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/6/28
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2025/6/30
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2025/6/28
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/6/28
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2027/6/21
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/6/28
18	Amplifier	HP	8447E	2945A02747	/	2025/6/28
19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/28
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/28

22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/28
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/28
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/28
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/28

Testing Software					
Equipment	Manufacturer	Model No.	Serial No.	Software version	Calibrated until
BT&WI-FI Automatic test software	Microwave	MTS8310	/	Ver. 2.0.0.0	/
234G Automatic test software	Microwave	MTS8200	/	Ver. 2.0.0.0	/
EZ-EMC	Frad	EMC-con3A1.1	/	/	/
EMI test software	Farad	EZ-EMC	/	Ver. FARAD-3A1+	/

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.

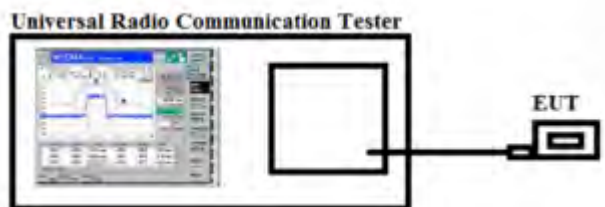
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

Please refer to Appendix 1: Conducted output power

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

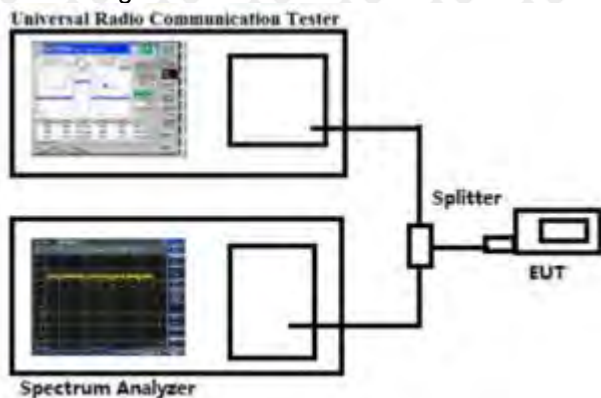
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

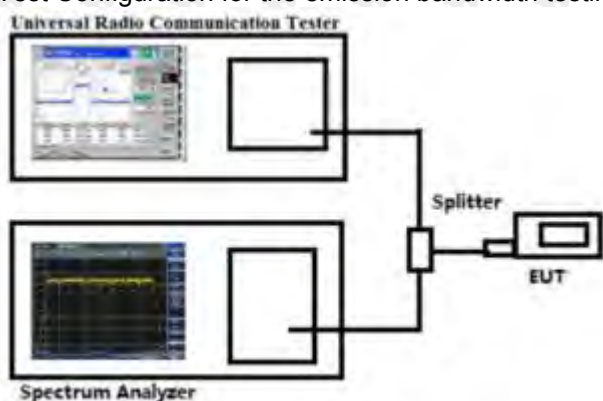
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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.

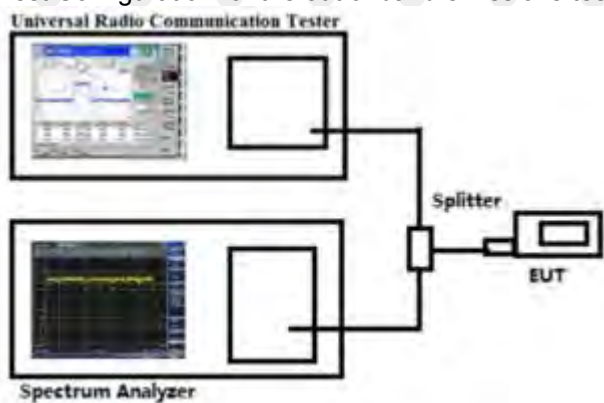
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ 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:
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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.
1288.75	142	158	-56.64	-13	-43.64	Pass	H
1724.49	149	174	-46.46	-13	-33.46	Pass	H
3889.81	151	167	-48.81	-13	-35.81	Pass	H
5930.57	156	121	-46.08	-13	-33.08	Pass	H
6415.46	156	108	-41.79	-13	-28.79	Pass	H
8004.21	159	123	-42.60	-13	-29.60	Pass	H
1115.61	146	195	-53.83	-13	-40.83	Pass	V
1530.54	146	215	-58.66	-13	-45.66	Pass	V
3450.33	159	33	-49.53	-13	-36.53	Pass	V
3922.16	143	250	-48.86	-13	-35.86	Pass	V
5728.09	144	250	-50.85	-13	-37.85	Pass	V
6478.68	140	261	-46.50	-13	-33.50	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.
1307.00	150	87	-58.70	-13	-45.70	Pass	H
1733.66	146	293	-51.87	-13	-38.87	Pass	H
3835.15	150	120	-51.46	-13	-38.46	Pass	H
5817.65	146	180	-47.93	-13	-34.93	Pass	H
6499.46	149	106	-51.87	-13	-38.87	Pass	H
8079.06	151	115	-49.08	-13	-36.08	Pass	H
1233.75	149	142	-54.33	-13	-41.33	Pass	V
1473.87	148	3	-56.65	-13	-43.65	Pass	V
3687.23	147	188	-56.42	-13	-43.42	Pass	V
3883.17	148	357	-50.43	-13	-37.43	Pass	V
5832.81	150	250	-47.38	-13	-34.38	Pass	V
6504.50	150	166	-46.51	-13	-33.51	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.
1245.67	147	322	-59.51	-13	-46.51	Pass	H
1666.60	149	240	-49.19	-13	-36.19	Pass	H
3752.26	153	306	-44.20	-13	-31.20	Pass	H
5924.48	153	115	-39.47	-13	-26.47	Pass	H
6496.91	149	258	-39.93	-13	-26.93	Pass	H
8046.83	147	49	-44.86	-13	-31.86	Pass	H
1335.66	154	82	-55.85	-13	-42.85	Pass	V
1375.11	151	267	-59.80	-13	-46.80	Pass	V
3519.09	152	102	-52.31	-13	-39.31	Pass	V
3938.29	150	196	-48.28	-13	-35.28	Pass	V
5741.56	148	281	-44.59	-13	-31.59	Pass	V
6499.83	149	247	-50.09	-13	-37.09	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.
1342.77	150	287	-60.77	-13	-47.77	Pass	H
1767.92	147	255	-47.53	-13	-34.53	Pass	H
3948.65	151	120	-50.37	-13	-37.37	Pass	H
6007.29	153	207	-47.33	-13	-34.33	Pass	H
6628.06	150	74	-45.35	-13	-32.35	Pass	H
8075.48	147	340	-43.54	-13	-30.54	Pass	H
1171.95	149	118	-52.21	-13	-39.21	Pass	V
1489.74	154	58	-58.06	-13	-45.06	Pass	V
3575.22	153	6	-54.25	-13	-41.25	Pass	V
3920.39	146	57	-49.40	-13	-36.40	Pass	V
5913.00	149	75	-42.90	-13	-29.90	Pass	V
6515.85	151	14	-52.22	-13	-39.22	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.
1303.48	150	275	-53.20	-13	-41.45	Pass	H
1659.51	152	244	-47.18	-13	-37.85	Pass	H
3879.34	146	97	-46.09	-13	-35.2	Pass	H
6025.37	147	201	-46.14	-13	-30.39	Pass	H
6466.46	152	294	-43.29	-13	-32.24	Pass	H
8118.98	154	3	-41.45	-13	-30.22	Pass	H
1279.99	150	285	-57.88	-13	-44.9	Pass	V
1470.58	152	19	-56.78	-13	-43.63	Pass	V
3619.46	147	82	-51.22	-13	-35.94	Pass	V
3938.57	148	135	-50.57	-13	-36.01	Pass	V
5820.48	147	136	-48.60	-13	-33.75	Pass	V
6442.71	146	40	-41.76	-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.
1343.87	149	275	-53.83	-13	-40.83	Pass	H
1794.26	148	320	-47.55	-13	-34.55	Pass	H
3956.34	150	337	-43.12	-13	-30.12	Pass	H
5971.43	146	125	-41.74	-13	-28.74	Pass	H
6604.55	146	152	-38.42	-13	-25.42	Pass	H
8066.20	154	305	-47.59	-13	-34.59	Pass	H
1259.90	147	46	-56.53	-13	-43.53	Pass	V
1422.75	154	213	-61.10	-13	-48.10	Pass	V
3603.53	148	74	-49.93	-13	-36.93	Pass	V
3812.39	154	96	-48.99	-13	-35.99	Pass	V
5888.69	149	281	-47.11	-13	-34.11	Pass	V
6592.92	149	207	-44.14	-13	-31.14	Pass	V

Note:

- 1) Scan from 9kHz to 40GHz, 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.

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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.
1395.75	147	89	-54.75	-13	-41.75	Pass	H
1596.63	153	272	-46.24	-13	-33.24	Pass	H
3909.94	149	33	-47.20	-13	-34.20	Pass	H
5927.31	147	142	-42.38	-13	-29.38	Pass	H
6488.93	146	193	-41.55	-13	-28.55	Pass	H
8097.18	150	47	-40.49	-13	-27.49	Pass	H
1120.39	155	100	-54.17	-13	-41.17	Pass	V
1404.33	154	208	-53.65	-13	-40.65	Pass	V
3683.65	148	141	-51.19	-13	-38.19	Pass	V
3994.75	145	262	-47.48	-13	-34.48	Pass	V
5766.30	146	30	-43.67	-13	-30.67	Pass	V
6521.16	154	154	-49.52	-13	-36.52	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.
1356.78	146	84	-51.38	-13	-38.38	Pass	H
1673.90	148	138	-45.39	-13	-32.39	Pass	H
3940.04	153	45	-50.01	-13	-37.01	Pass	H
5958.32	149	3	-38.62	-13	-25.62	Pass	H
6425.50	155	163	-45.06	-13	-32.06	Pass	H
8110.76	151	44	-43.01	-13	-30.01	Pass	H
1162.13	147	180	-60.46	-13	-47.46	Pass	V
1432.25	149	277	-59.13	-13	-46.13	Pass	V
3557.35	155	39	-44.89	-13	-31.89	Pass	V
3807.69	148	255	-48.84	-13	-35.84	Pass	V
5809.83	150	79	-45.79	-13	-32.79	Pass	V
6575.52	153	309	-47.67	-13	-34.67	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.
1382.85	151	236	-53.27	-13	-40.27	Pass	H
1643.91	155	45	-50.99	-13	-37.99	Pass	H
3873.12	149	332	-45.51	-13	-32.51	Pass	H
5984.01	153	285	-42.41	-13	-29.41	Pass	H
6553.07	150	196	-40.89	-13	-27.89	Pass	H
8153.59	154	21	-43.14	-13	-30.14	Pass	H
1174.34	151	172	-53.78	-13	-40.78	Pass	V
1406.98	145	109	-59.20	-13	-46.20	Pass	V
3491.88	155	289	-49.20	-13	-36.20	Pass	V
3810.84	155	126	-49.78	-13	-36.78	Pass	V
5781.42	146	254	-45.24	-13	-32.24	Pass	V
6525.47	145	261	-47.01	-13	-34.01	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.
1415.60	147	12	-52.60	-13	-39.60	Pass	H
1721.99	154	216	-50.71	-13	-37.71	Pass	H
3961.57	149	12	-47.68	-13	-34.68	Pass	H
5851.15	149	236	-43.88	-13	-30.88	Pass	H
6456.23	155	7	-45.16	-13	-32.16	Pass	H
7942.05	151	28	-50.33	-13	-37.33	Pass	H
1297.42	151	248	-60.30	-13	-47.30	Pass	V
1340.66	153	179	-51.69	-13	-38.69	Pass	V
3640.19	152	103	-48.66	-13	-35.66	Pass	V
3873.92	154	206	-51.33	-13	-38.33	Pass	V
5714.83	154	217	-45.45	-13	-32.45	Pass	V
6483.86	153	292	-44.96	-13	-31.96	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.
1241.89	150	313	-59.47	-13	-46.47	Pass	H
1681.74	155	63	-52.27	-13	-39.27	Pass	H
3782.60	150	97	-50.66	-13	-37.66	Pass	H
5783.16	146	172	-47.03	-13	-34.03	Pass	H
6443.29	153	292	-47.73	-13	-34.73	Pass	H
8029.50	155	50	-44.84	-13	-31.84	Pass	H
1197.87	151	46	-52.15	-13	-39.15	Pass	V
1484.63	146	17	-59.94	-13	-46.94	Pass	V
3677.28	147	228	-54.40	-13	-41.40	Pass	V
3936.48	149	144	-50.10	-13	-37.10	Pass	V
5887.84	152	291	-53.67	-13	-40.67	Pass	V
6463.86	147	213	-50.20	-13	-37.20	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.
1277.91	150	141	-54.06	-13	-41.06	Pass	H
1606.30	153	235	-48.18	-13	-35.18	Pass	H
3785.52	154	220	-45.16	-13	-32.16	Pass	H
5847.94	150	217	-40.27	-13	-27.27	Pass	H
6485.97	155	298	-46.13	-13	-33.13	Pass	H
7964.83	154	136	-45.10	-13	-32.10	Pass	H
1207.07	150	225	-53.45	-13	-40.45	Pass	V
1306.43	145	38	-55.50	-13	-42.50	Pass	V
3491.44	151	187	-52.77	-13	-39.77	Pass	V
3891.22	154	115	-49.60	-13	-36.60	Pass	V
5725.01	155	92	-45.99	-13	-32.99	Pass	V
6551.00	154	117	-48.35	-13	-35.35	Pass	V

Note:

3) Scan from 9kHz to 40GHz, 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.

4) 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.

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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.
1361.13	159	107	-58.50	-13	-45.50	Pass	H
1727.64	151	315	-49.12	-13	-36.12	Pass	H
3930.52	141	105	-47.21	-13	-34.21	Pass	H
5921.90	149	128	-46.61	-13	-33.61	Pass	H
6462.17	150	172	-44.24	-13	-31.24	Pass	H
8138.29	147	186	-41.01	-13	-28.01	Pass	H
1189.80	153	92	-52.64	-13	-39.64	Pass	V
1543.22	143	182	-55.87	-13	-42.87	Pass	V
3627.12	151	60	-50.11	-13	-37.11	Pass	V
3807.35	144	235	-51.14	-13	-38.14	Pass	V
5808.05	149	215	-47.29	-13	-34.29	Pass	V
6641.68	146	246	-46.23	-13	-33.23	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.
1310.42	150	221	-56.12	-13	-43.12	Pass	H
1695.35	146	96	-50.77	-13	-37.77	Pass	H
3967.29	150	153	-50.45	-13	-37.45	Pass	H
5836.72	146	199	-43.33	-13	-30.33	Pass	H
6535.88	149	57	-47.48	-13	-34.48	Pass	H
8028.80	151	185	-47.05	-13	-34.05	Pass	H
1280.64	149	316	-53.63	-13	-40.63	Pass	V
1389.15	148	44	-56.72	-13	-43.72	Pass	V
3575.84	147	299	-56.60	-13	-43.60	Pass	V
3919.91	148	229	-52.99	-13	-39.99	Pass	V
5765.18	150	87	-48.14	-13	-35.14	Pass	V
6556.39	150	232	-49.93	-13	-36.93	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.
1284.54	145	299	-57.62	-13	-44.62	Pass	H
1653.24	146	285	-51.32	-13	-38.32	Pass	H
3747.51	150	141	-47.51	-13	-34.51	Pass	H
5958.49	149	69	-38.58	-13	-25.58	Pass	H
6515.88	146	273	-40.77	-13	-27.77	Pass	H
8062.23	147	133	-47.49	-13	-34.49	Pass	H
1353.37	148	71	-57.35	-13	-44.35	Pass	V
1391.49	154	336	-57.15	-13	-44.15	Pass	V
3602.07	153	78	-52.71	-13	-39.71	Pass	V
4003.81	148	329	-51.45	-13	-38.45	Pass	V
5739.07	148	28	-43.82	-13	-30.82	Pass	V
6572.29	149	292	-48.14	-13	-35.14	Pass	V

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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.
1258.82	145	20	-59.47	-13	-46.47	Pass	H
1596.32	145	329	-45.87	-13	-32.87	Pass	H
3901.79	149	314	-46.36	-13	-33.36	Pass	H
5974.04	151	231	-45.47	-13	-32.47	Pass	H
6563.93	146	185	-44.31	-13	-31.31	Pass	H
7933.52	153	330	-42.12	-13	-29.12	Pass	H
1195.84	146	15	-49.79	-13	-36.79	Pass	V
1445.07	148	330	-54.62	-13	-41.62	Pass	V
3683.05	153	14	-51.11	-13	-38.11	Pass	V
3871.29	146	142	-50.17	-13	-37.17	Pass	V
5898.58	154	264	-48.28	-13	-35.28	Pass	V
6587.40	150	6	-48.47	-13	-35.47	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.
1397.90	150	18	-56.65	-13	-41.45	Pass	H
1729.83	153	139	-47.81	-13	-37.85	Pass	H
3915.94	152	155	-48.02	-13	-35.2	Pass	H
5902.85	150	196	-43.20	-13	-30.39	Pass	H
6417.01	153	221	-41.86	-13	-32.24	Pass	H
8087.03	147	145	-41.73	-13	-30.22	Pass	H
1134.84	145	17	-54.54	-13	-44.9	Pass	V
1421.43	147	178	-57.74	-13	-43.63	Pass	V
3581.81	150	19	-45.55	-13	-35.94	Pass	V
3792.33	147	192	-45.32	-13	-36.01	Pass	V
5836.78	150	57	-49.39	-13	-33.75	Pass	V
6529.42	152	74	-45.75	-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.
1391.75	151	145	-56.22	-13	-43.22	Pass	H
1780.90	147	211	-50.42	-13	-37.42	Pass	H
3957.01	149	346	-46.46	-13	-33.46	Pass	H
5948.53	148	5	-41.59	-13	-28.59	Pass	H
6598.92	152	196	-38.62	-13	-25.62	Pass	H
7981.21	146	206	-46.30	-13	-33.30	Pass	H
1106.47	149	252	-54.27	-13	-41.27	Pass	V
1560.10	147	106	-61.66	-13	-48.66	Pass	V
3540.80	147	87	-48.62	-13	-35.62	Pass	V
3775.76	151	19	-46.97	-13	-33.97	Pass	V
5836.55	147	101	-46.20	-13	-33.20	Pass	V
6521.72	147	204	-43.39	-13	-30.39	Pass	V

Note:

5) Scan from 9kHz to 40GHz, 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.

6) 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.

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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.
1412.94	148	305	-58.08	-13	-45.08	Pass	H
1668.58	148	143	-44.58	-13	-31.58	Pass	H
3784.15	150	7	-48.54	-13	-35.54	Pass	H
5947.50	149	16	-48.26	-13	-35.26	Pass	H
6490.53	148	2	-47.36	-13	-34.36	Pass	H
7984.37	145	142	-43.05	-13	-30.05	Pass	H
1179.25	148	152	-50.40	-13	-37.40	Pass	V
1407.86	150	183	-53.52	-13	-40.52	Pass	V
3566.44	145	130	-50.01	-13	-37.01	Pass	V
3929.69	152	358	-54.14	-13	-41.14	Pass	V
5934.83	152	165	-47.92	-13	-34.92	Pass	V
6541.18	149	13	-47.29	-13	-34.29	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.
1399.11	150	291	-55.60	-13	-42.60	Pass	H
1636.58	148	207	-51.23	-13	-38.23	Pass	H
3800.49	151	152	-43.73	-13	-30.73	Pass	H
5920.28	146	351	-38.33	-13	-25.33	Pass	H
6552.33	155	253	-43.51	-13	-30.51	Pass	H
8051.72	154	100	-48.53	-13	-35.53	Pass	H
1251.43	148	51	-59.66	-13	-46.66	Pass	V
1378.38	153	141	-59.87	-13	-46.87	Pass	V
3591.37	155	202	-50.39	-13	-37.39	Pass	V
3758.32	151	244	-46.82	-13	-33.82	Pass	V
5861.00	152	169	-40.68	-13	-27.68	Pass	V
6561.42	154	137	-44.81	-13	-31.81	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.
1391.00	147	141	-52.74	-13	-39.74	Pass	H
1602.95	153	257	-45.99	-13	-32.99	Pass	H
3939.95	145	348	-44.16	-13	-31.16	Pass	H
5831.71	153	280	-42.53	-13	-29.53	Pass	H
6446.93	150	8	-44.01	-13	-31.01	Pass	H
8172.44	153	97	-38.77	-13	-25.77	Pass	H
1254.46	146	194	-55.03	-13	-42.03	Pass	V
1380.06	152	222	-53.56	-13	-40.56	Pass	V
3588.78	150	210	-49.75	-13	-36.75	Pass	V
3925.14	154	217	-47.97	-13	-34.97	Pass	V
5880.65	153	300	-49.88	-13	-36.88	Pass	V
6559.14	148	10	-49.51	-13	-36.51	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.
1371.36	146	133	-53.97	-13	-40.97	Pass	H
1748.14	146	180	-51.14	-13	-38.14	Pass	H
3865.44	151	320	-52.70	-13	-39.70	Pass	H
5894.48	151	238	-42.63	-13	-29.63	Pass	H
6432.80	149	100	-46.24	-13	-33.24	Pass	H
8061.29	154	182	-47.46	-13	-34.46	Pass	H
1206.03	152	175	-59.11	-13	-46.11	Pass	V
1381.51	154	288	-57.06	-13	-44.06	Pass	V
3600.45	151	55	-51.33	-13	-38.33	Pass	V
3818.94	147	220	-46.67	-13	-33.67	Pass	V
5823.81	154	327	-48.44	-13	-35.44	Pass	V
6616.57	154	217	-44.57	-13	-31.57	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.
1334.08	149	89	-58.28	-13	-45.28	Pass	H
1669.96	151	126	-52.86	-13	-39.86	Pass	H
3826.36	154	334	-47.57	-13	-34.57	Pass	H
5849.78	154	90	-47.28	-13	-34.28	Pass	H
6414.05	152	8	-50.23	-13	-37.23	Pass	H
7932.84	150	159	-46.06	-13	-33.06	Pass	H
1310.90	147	77	-51.91	-13	-38.91	Pass	V
1354.20	152	289	-64.02	-13	-51.02	Pass	V
3656.26	147	4	-48.73	-13	-35.73	Pass	V
3922.01	147	59	-55.28	-13	-42.28	Pass	V
5876.25	153	360	-48.36	-13	-35.36	Pass	V
6612.90	150	359	-47.18	-13	-34.18	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.
1314.45	149	162	-54.08	-13	-41.08	Pass	H
1593.28	149	82	-50.00	-13	-37.00	Pass	H
3798.85	151	99	-46.98	-13	-33.98	Pass	H
5846.75	149	141	-40.67	-13	-27.67	Pass	H
6460.65	153	355	-42.63	-13	-29.63	Pass	H
7986.87	145	108	-46.09	-13	-33.09	Pass	H
1173.34	146	27	-55.72	-13	-42.72	Pass	V
1354.61	148	269	-51.22	-13	-38.22	Pass	V
3483.25	154	284	-49.55	-13	-36.55	Pass	V
3845.05	152	293	-47.91	-13	-34.91	Pass	V
5769.60	149	250	-45.92	-13	-32.92	Pass	V
6541.43	153	242	-50.11	-13	-37.11	Pass	V

Note:

7) Scan from 9kHz to 40GHz, 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.

8) 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.

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Band 13 23025 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1362.54	151	253	-55.57	-25	-30.57	Pass	H
1741.56	152	15	-46.75	-25	-21.75	Pass	H
3918.22	154	100	-47.73	-25	-22.73	Pass	H
5919.51	151	258	-37.99	-25	-12.99	Pass	H
6578.20	149	38	-43.41	-25	-18.41	Pass	H
8034.69	155	81	-46.13	-25	-21.13	Pass	H
1171.43	153	48	-52.75	-25	-27.75	Pass	V
1417.44	152	141	-59.48	-25	-34.48	Pass	V
3467.80	152	360	-48.41	-25	-23.41	Pass	V
3739.92	153	59	-50.91	-25	-25.91	Pass	V
5800.40	145	55	-45.59	-25	-20.59	Pass	V
6640.53	152	209	-43.71	-25	-18.71	Pass	V
Band 13 23230 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1291.85	150	291	-55.44	-25	-30.44	Pass	H
1660.61	147	233	-44.34	-25	-19.34	Pass	H
3955.52	147	338	-47.91	-25	-22.91	Pass	H
5833.36	149	9	-45.89	-25	-20.89	Pass	H
6504.19	154	52	-39.32	-25	-14.32	Pass	H
8006.69	146	343	-46.88	-25	-21.88	Pass	H
1222.66	147	118	-58.14	-25	-33.14	Pass	V
1537.30	147	202	-54.90	-25	-29.90	Pass	V
3483.13	149	187	-50.74	-25	-25.74	Pass	V
3788.34	154	27	-48.19	-25	-23.19	Pass	V
5781.84	154	63	-48.54	-25	-23.54	Pass	V
6547.02	147	203	-42.61	-25	-17.61	Pass	V

Band 13 23255 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1410.12	153	55	-54.27	-25	-29.27	Pass	H
1783.77	152	231	-50.40	-25	-25.40	Pass	H
3855.68	151	153	-44.53	-25	-19.53	Pass	H
5939.59	145	161	-45.60	-25	-20.60	Pass	H
6429.91	150	125	-45.08	-25	-20.08	Pass	H
8066.05	155	112	-45.93	-25	-20.93	Pass	H
1269.19	150	2	-56.55	-25	-31.55	Pass	V
1374.67	154	346	-60.85	-25	-35.85	Pass	V
3499.80	153	333	-47.90	-25	-22.90	Pass	V
3826.41	154	286	-47.23	-25	-22.23	Pass	V
5746.59	147	133	-46.56	-25	-21.56	Pass	V
6474.58	149	271	-47.22	-25	-22.22	Pass	V

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Band 13 23025 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1389.34	149	37	-54.61	-25	-29.61	Pass	H
1799.39	145	200	-50.52	-25	-25.52	Pass	H
3857.75	146	309	-45.21	-25	-20.21	Pass	H
5875.44	146	42	-43.34	-25	-18.34	Pass	H
6423.65	154	274	-40.66	-25	-15.66	Pass	H
8157.53	154	39	-44.28	-25	-19.28	Pass	H
1192.85	152	309	-49.35	-25	-24.35	Pass	V
1503.80	154	252	-62.09	-25	-37.09	Pass	V
3597.53	147	328	-54.11	-25	-29.11	Pass	V
3827.85	148	306	-52.02	-25	-27.02	Pass	V
5852.91	145	84	-46.98	-25	-21.98	Pass	V
6627.55	145	149	-49.11	-25	-24.11	Pass	V

Band 13 23230 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1357.33	148	257	-52.53	-25	-27.53	Pass	H
1788.03	152	24	-48.58	-25	-23.58	Pass	H
3984.10	151	168	-42.21	-25	-17.21	Pass	H
5797.96	145	171	-44.36	-25	-19.36	Pass	H
6603.56	154	206	-45.06	-25	-20.06	Pass	H
8112.44	154	12	-40.27	-25	-15.27	Pass	H
1133.31	154	317	-53.39	-25	-28.39	Pass	V
1518.41	154	233	-61.56	-25	-36.56	Pass	V
3448.83	148	98	-47.58	-25	-22.58	Pass	V
3924.33	154	331	-45.58	-25	-20.58	Pass	V
5701.25	149	116	-45.12	-25	-20.12	Pass	V
6461.34	155	313	-44.66	-25	-19.66	Pass	V
Band 13 23255 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1346.39	148	165	-53.53	-25	-28.53	Pass	H
1760.08	154	147	-44.55	-25	-19.55	Pass	H
3964.33	152	271	-42.51	-25	-17.51	Pass	H
5883.65	150	141	-44.66	-25	-19.66	Pass	H
6567.24	155	213	-40.06	-25	-15.06	Pass	H
8149.99	152	343	-45.15	-25	-20.15	Pass	H
1141.91	147	305	-51.79	-25	-26.79	Pass	V
1533.92	151	159	-55.52	-25	-30.52	Pass	V
3499.38	146	307	-50.47	-25	-25.47	Pass	V
3853.76	152	265	-48.92	-25	-23.92	Pass	V
5783.16	153	52	-49.52	-25	-24.52	Pass	V
6494.50	149	62	-45.14	-25	-20.14	Pass	V

Note:

9) Scan from 9kHz to 40GHz, 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.

10) 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.

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Band 66 131979 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1434.94	151	282	-54.24	-13	-41.24	Pass	H
1681.85	151	62	-49.73	-13	-36.73	Pass	H
3964.92	149	188	-51.36	-13	-38.36	Pass	H
5862.48	154	113	-46.50	-13	-33.50	Pass	H
6545.23	148	30	-44.58	-13	-31.58	Pass	H
8011.23	147	113	-39.01	-13	-26.01	Pass	H
1093.62	151	42	-54.90	-13	-41.90	Pass	V
1396.66	152	3	-52.94	-13	-39.94	Pass	V
3547.50	147	110	-52.93	-13	-39.93	Pass	V
3927.46	153	46	-49.86	-13	-36.86	Pass	V
5928.52	149	109	-47.74	-13	-34.74	Pass	V
6507.70	154	240	-50.08	-13	-37.08	Pass	V
Band 66 132322 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1325.74	152	262	-55.42	-13	-42.42	Pass	H
1727.73	148	209	-47.35	-13	-34.35	Pass	H
3896.29	147	58	-50.27	-13	-37.27	Pass	H
5910.76	150	246	-42.48	-13	-29.48	Pass	H
6532.85	148	37	-40.15	-13	-27.15	Pass	H
8009.46	149	98	-47.43	-13	-34.43	Pass	H
1233.44	153	277	-57.51	-13	-44.51	Pass	V
1406.13	147	211	-58.33	-13	-45.33	Pass	V
3456.51	147	200	-48.43	-13	-35.43	Pass	V
3878.80	147	326	-47.53	-13	-34.53	Pass	V
5882.24	153	348	-46.95	-13	-33.95	Pass	V
6502.75	147	17	-44.00	-13	-31.00	Pass	V

Band 66 132665 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1276.91	149	299	-55.05	-13	-42.05	Pass	H
1615.15	146	166	-48.27	-13	-35.27	Pass	H
3946.44	154	49	-45.51	-13	-32.51	Pass	H
5983.17	154	279	-40.59	-13	-27.59	Pass	H
6593.32	148	299	-40.40	-13	-27.40	Pass	H
8096.23	152	43	-42.53	-13	-29.53	Pass	H
1175.31	150	323	-55.25	-13	-42.25	Pass	V
1518.17	151	194	-54.88	-13	-41.88	Pass	V
3481.30	147	294	-52.46	-13	-39.46	Pass	V
3900.09	147	360	-51.16	-13	-38.16	Pass	V
5709.70	149	8	-47.78	-13	-34.78	Pass	V
6629.15	154	308	-47.40	-13	-34.40	Pass	V

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Band 66 131979 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1262.92	146	281	-55.16	-13	-42.16	Pass	H
1755.30	149	335	-54.53	-13	-41.53	Pass	H
3922.79	148	116	-47.77	-13	-34.77	Pass	H
5772.05	153	70	-47.45	-13	-34.45	Pass	H
6561.18	146	190	-50.38	-13	-37.38	Pass	H
8028.28	151	267	-44.30	-13	-31.30	Pass	H
1290.88	152	130	-55.90	-13	-42.90	Pass	V
1510.60	155	223	-53.01	-13	-40.01	Pass	V
3581.94	145	326	-49.37	-13	-36.37	Pass	V
3776.66	154	344	-47.93	-13	-34.93	Pass	V
5803.63	146	289	-48.50	-13	-35.50	Pass	V
6490.15	147	291	-50.96	-13	-37.96	Pass	V

Band 66 132322 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1196.30	150	203	-59.10	-13	-46.10	Pass	H
1694.99	148	91	-53.38	-13	-40.38	Pass	H
3890.72	153	221	-47.54	-13	-34.54	Pass	H
5793.99	150	354	-47.60	-13	-34.60	Pass	H
6358.92	152	263	-52.55	-13	-39.55	Pass	H
7941.18	146	150	-45.12	-13	-32.12	Pass	H
1321.96	150	256	-55.00	-13	-42.00	Pass	V
1443.88	147	151	-63.62	-13	-50.62	Pass	V
3685.54	150	340	-54.13	-13	-41.13	Pass	V
3862.99	151	332	-55.45	-13	-42.45	Pass	V
5842.65	152	46	-48.58	-13	-35.58	Pass	V
6551.77	149	325	-50.46	-13	-37.46	Pass	V
Band 66 132665 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1291.27	146	2	-55.39	-13	-42.39	Pass	H
1580.10	150	304	-53.58	-13	-40.58	Pass	H
3795.30	152	192	-46.50	-13	-33.50	Pass	H
5848.21	146	148	-44.03	-13	-31.03	Pass	H
6513.34	149	170	-45.20	-13	-32.20	Pass	H
7924.39	154	248	-48.25	-13	-35.25	Pass	H
1197.28	149	94	-49.88	-13	-36.88	Pass	V
1391.09	153	133	-50.75	-13	-37.75	Pass	V
3505.56	154	134	-50.90	-13	-37.90	Pass	V
3866.08	154	205	-48.20	-13	-35.20	Pass	V
5725.01	150	273	-47.86	-13	-34.86	Pass	V
6506.41	147	320	-44.33	-13	-31.33	Pass	V

Note:

11) Scan from 9kHz to 40GHz, 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.

12) 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.

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Band 71 133147 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1284.80	147	239	-58.12	-13	-45.12	Pass	H
1625.17	149	191	-48.43	-13	-35.43	Pass	H
3901.03	149	49	-45.96	-13	-32.96	Pass	H
5849.61	143	335	-44.30	-13	-31.30	Pass	H
6485.36	157	308	-41.22	-13	-28.22	Pass	H
7990.63	151	144	-41.30	-13	-28.30	Pass	H
1293.58	155	251	-56.24	-13	-43.24	Pass	V
1425.89	153	102	-60.04	-13	-47.04	Pass	V
3589.10	156	199	-49.07	-13	-36.07	Pass	V
3906.03	158	89	-49.97	-13	-36.97	Pass	V
5844.25	148	211	-47.31	-13	-34.31	Pass	V
6485.17	140	102	-45.80	-13	-32.80	Pass	V
Band 71 133297 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1270.93	150	330	-56.96	-13	-43.96	Pass	H
1814.50	146	259	-50.72	-13	-37.72	Pass	H
3831.66	150	13	-52.25	-13	-39.25	Pass	H
5912.56	146	116	-44.90	-13	-31.90	Pass	H
6445.10	149	262	-50.66	-13	-37.66	Pass	H
8025.11	151	211	-49.55	-13	-36.55	Pass	H
1173.44	149	114	-51.21	-13	-38.21	Pass	V
1488.98	148	239	-60.34	-13	-47.34	Pass	V
3499.64	147	134	-54.34	-13	-41.34	Pass	V
3900.28	148	85	-49.93	-13	-36.93	Pass	V
5856.12	150	316	-45.70	-13	-32.70	Pass	V
6560.24	150	30	-50.28	-13	-37.28	Pass	V

Band 71 133447 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1332.81	145	34	-53.74	-13	-40.74	Pass	H
1768.78	149	31	-50.96	-13	-37.96	Pass	H
3889.93	154	61	-48.36	-13	-35.36	Pass	H
5926.15	146	84	-40.02	-13	-27.02	Pass	H
6556.01	146	264	-43.70	-13	-30.70	Pass	H
8074.67	149	227	-46.88	-13	-33.88	Pass	H
1214.45	149	212	-56.20	-13	-43.20	Pass	V
1441.24	154	175	-59.24	-13	-46.24	Pass	V
3491.89	153	266	-52.15	-13	-39.15	Pass	V
3999.52	149	279	-50.69	-13	-37.69	Pass	V
5882.77	147	280	-43.13	-13	-30.13	Pass	V
1332.81	145	34	-53.74	-13	-40.74	Pass	V

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Band 71 133147 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1286.53	152	175	-60.14	-13	-47.14	Pass	H
1725.80	151	168	-46.66	-13	-33.66	Pass	H
3895.43	148	102	-47.75	-13	-34.75	Pass	H
5925.00	148	113	-47.47	-13	-34.47	Pass	H
6526.26	154	163	-44.85	-13	-31.85	Pass	H
8064.81	147	257	-42.32	-13	-29.32	Pass	H
1092.77	154	11	-50.25	-13	-37.25	Pass	V
1384.27	155	217	-53.38	-13	-40.38	Pass	V
3516.72	151	3	-51.38	-13	-38.38	Pass	V
3957.57	147	279	-54.44	-13	-41.44	Pass	V
5841.49	147	83	-43.15	-13	-30.15	Pass	V
6581.10	148	261	-47.76	-13	-34.76	Pass	V

Band 71 133297 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1423.23	153	80	-52.24	-13	-41.45	Pass	H
1743.05	153	217	-53.75	-13	-37.85	Pass	H
3785.09	149	316	-46.64	-13	-35.2	Pass	H
5906.32	149	355	-43.42	-13	-30.39	Pass	H
6591.38	153	331	-45.02	-13	-32.24	Pass	H
8034.53	148	135	-40.83	-13	-30.22	Pass	H
1126.11	146	97	-55.29	-13	-44.9	Pass	V
1324.60	151	165	-53.56	-13	-43.63	Pass	V
3571.86	152	150	-50.70	-13	-35.94	Pass	V
3800.41	148	67	-51.52	-13	-36.01	Pass	V
5807.85	152	333	-46.84	-13	-33.75	Pass	V
6482.36	152	228	-43.39	-13	-32.41	Pass	V
Band 71 133447 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1314.63	149	122	-57.57	-13	-44.57	Pass	H
1648.83	148	194	-49.05	-13	-36.05	Pass	H
3924.77	145	163	-42.05	-13	-29.05	Pass	H
5945.29	153	31	-43.93	-13	-30.93	Pass	H
6606.99	151	148	-41.35	-13	-28.35	Pass	H
8053.60	146	154	-46.98	-13	-33.98	Pass	H
1116.95	151	319	-53.92	-13	-40.92	Pass	V
1484.06	147	229	-61.01	-13	-48.01	Pass	V
3554.76	149	253	-49.34	-13	-36.34	Pass	V
3882.33	155	243	-50.80	-13	-37.80	Pass	V
5777.54	150	24	-48.34	-13	-35.34	Pass	V
6653.20	148	133	-43.84	-13	-30.84	Pass	V

Note:

13) Scan from 9kHz to 40GHz, 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.

14) 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=DC36V; Low Voltage LV=DC132.4V; High Voltage HV=DC39.6V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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