TEST REPORT

Product Name:	Public Network Walkie-Talkie
FCC ID:	2BPL5-G388
Trademark:	Scienda
Model Number:	G388, G328, G358, G318, G588, X 3, BF-818, G550, K200S, M11, OMI-M5, G888, DMS-G388
Prepared For:	Quanzhou Huiteng Electronics Co.,Ltd.
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Sample Received Date:	Mar. 24, 2025
Sample tested Date:	Mar. 24, 2025 to Apr. 28, 2025
Issue Date:	Apr. 28, 2025
Report No.:	CTB25032410003RF02
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	Bin Mei
Zhou Kui	Arron Liu	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
CTB25032410003RF02	Apr. 28, 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)(2)/ Part 24.232(c)/Part27.50(h)(2)/ Part27.50(d)(4)/ Part27.50(c)(10)/ Part27.50(b)(10)/ Part27.50(a)(3)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 22.913(d)/Part 27.50(d) /Part 27.50(a)(1)	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 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54/ Part 22.355	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS

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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):	G388, G328, G358, G318, G588, X 3, BF-818, G550, K200S, M11, OMI-M5, G888, DMS-G388
Model Description:	All the model are the same circuit and RF module, only for model name. Test sample model: G388
Hardware Version:	G388_M12C_V7
Software Version:	XIN7C19EU00_G388_HT_V029_1.011.069
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 7: 2500-2570MHz FDD-LTE BAND 12: 699-716MHz FDD-LTE BAND 13: 777-787MHz FDD-LTE BAND 17: 704-716MHz TDD-LTE BAND 38: 2570-2620MHz TDD-LTE BAND 40a: 2305-2315MHz TDD-LTE BAND 40b: 2350-2360MHz TDD-LTE BAND 41:2496-2690 MHz FDD-LTE BAND 66: 1710-1780MHz
Max. RF output power:	FDD-LTE BAND 2: 21.37dBm FDD-LTE BAND 4: 21.56dBm FDD-LTE BAND 5: 22.04dBm FDD-LTE BAND 7: 22.01dBm FDD-LTE BAND 12: 22.31dBm FDD-LTE BAND 13: 22.26dBm FDD-LTE BAND 17: 22.21dBm TDD-LTE BAND 38: 21.39dBm TDD-LTE BAND 40a: 20.83dBm TDD-LTE BAND 40b: 20.64dBm TDD-LTE BAND 41: 21.26dBm FDD-LTE BAND 66: 21.45dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: 3.54dBi FDD-LTE BAND 4: 2.64dBi FDD-LTE BAND 5: 2.7dBi FDD-LTE BAND 7: 6.12dBi FDD-LTE BAND 12: 1.48dBi FDD-LTE BAND 13: 1.48dBi FDD-LTE BAND 17: 1.48dBi TDD-LTE BAND 38: 6.12dBi

TDD-LTE BAND 40a: 4.8dBi
TDD-LTE BAND 40b: 4.8dBi
TDD-LTE BAND 41: 6.12dBi
FDD-LTE BAND 66: 3.54dBi

Ratings: DC 4V by battery

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

Item	Equipment	Mfr/Brand	Model/TypeNo.	SeriesNo.	Note

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 7	Low, Middle, High Channels
TM5	FDD-LTE BAND 12	Low, Middle, High Channels
TM6	FDD-LTE BAND 13	Low, Middle, High Channels
TM7	FDD-LTE BAND 17	Low, Middle, High Channels
TM8	TDD-LTE BAND 38	Low, Middle, High Channels
TM9	TDD-LTE BAND 40a	Low, Middle, High Channels
TM10	TDD-LTE BAND 40b	Low, Middle, High Channels
TM11	TDD-LTE BAND 41	Low, Middle, High Channels
TM12	FDD-LTE BAND 66	Low, Middle, High Channels

LTE BAND 2

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Mid Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900

LTE BAND 4

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Mid Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745

LTE BAND 5

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Mid Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844

LTE BAND 7

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Mid Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560

LTE BAND 12

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 12	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Mid Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711

LTE BAND 13

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 13	Low Range	5	23025	779.5
		10	23230	782
	Mid Range	5/10	23230	782
	High Range	5	23255	784.5
		10	23230	782

LTE BAND 17

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 17	Low Range	5	23755	706.5
		10	23780	709
	Mid Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711

LTE BAND 38

Test Mode	Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
TDD band 38 TX/RX 2570– 2620 MHz	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Mid Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610

LTE BAND 40 a

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 40a	Low Range	5	38725	2307.5
	Mid Range	5/10	38750	2310
	High Range	5	38775	2312.5

LTE BAND 40 b

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 40b	Low Range	5	39175	2352.5
	Mid Range	5/10	39200	2355
	High Range	5	39200	2357.5

LTE BAND 41

Test Mode	Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency of Uplink(MHz)
TDD band 41 TX/RX 2495– 2690 MHz	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Mid Range	5/10/15/20	40620	2593
	High Range	5	41656	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

LTE BAND 66

Test Mode	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
LTE band 66	Low Range	1.4	66443	2110.7
		3	66451	2111.5
		5	66461	2112.5
		10	66486	2115
		15	66511	2117.5
		20	66536	2120
	Mid Range TX[1]	1.4/3/5/10/15/20	66786	2145
	Mid Range	1.4/3/5/10/15/20	66886	2155
	Paired High Range[2]	1.4	67129	2179.3
		3	67121	2178.5
		5	67111	2177.5
		10	67086	2175
		15	67061	2172.5
		20	67036	2170
	High Range[3]	1.4	67329	2199.3
		3	67321	2198.5
		5	67311	2197.5
		10	67286	2195
		15	67261	2192.5
		20	67236	2190

Note: EUT is UE category 1, 16QAM Modulation of 10MHz/15MHz/20MHz for all bands FULL RB size is not supported.

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	4V
Normal Temperature(℃)	23
Low Temperature(℃)	0
High Temperature(℃)	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, Xinhe 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	MSF2400-2483.5MS-1154	20181015001	/	2025/6/30
10	5 GHz Filter	Shenxiang	MSF5150-5850MS-1155	20181015001	/	2025/6/30
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2025/6/30
12	BT&WI-FI Automatic test software	Micowave	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	Micowave	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

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.

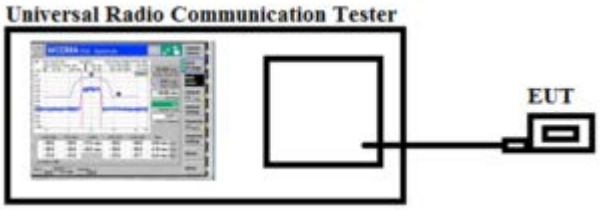
According to §27.50(h)(2), Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

According to §27.50(b)(10), Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

According to §27.50(a)(3), For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

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

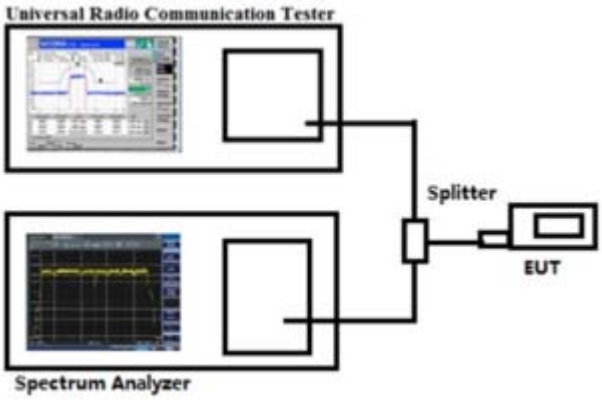
8.1 Standard Applicable

According to §22.913(d),
Power measurement. Measurement of the ERP of Cellular base transmitters and repeaters must be made usi ng an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.
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(d), 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.
According to §27.50(a) (1), For base and fixed stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, 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.

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.

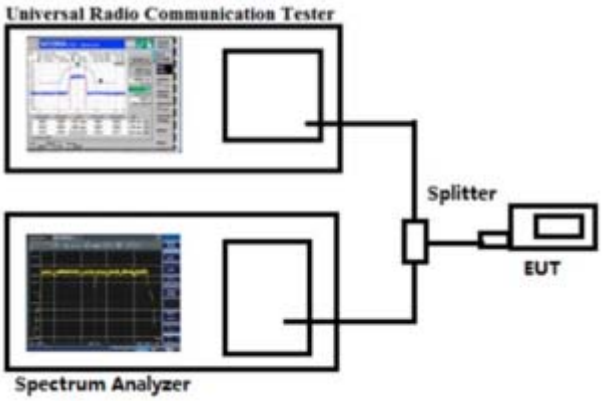
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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 log10 (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 that 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.

According to §27.53(a)(2), For base and fixed stations' operations in the 2305-2320 MHz band and the 2345-2360 MHz band:
(1) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than

75 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz;

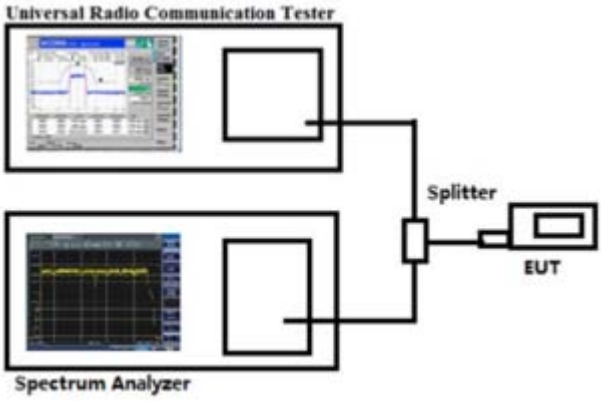
(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(3) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2362.5 MHz, 55 + 10 log (P) dB on all frequencies between 2362.5 and 2365 MHz, 70 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370 MHz, and 75 + 10 log (P) dB above 2370 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:

(6) 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;

(7) 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;

(8) 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;

(9) 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;

(10) 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 log10 (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 that 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.

According to §27.53(a)(2), For base and fixed stations' operations in the 2305-2320 MHz band and the 2345-2360 MHz band:

(1) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, and not less than 75 + 10 log (P) dB on all frequencies between 2320 and 2345 MHz;

(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(3) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2362.5 MHz, 55 + 10 log (P) dB on all frequencies between 2362.5 and 2365 MHz, 70 + 10 log (P) dB on all frequencies between 2365 and 2367.5 MHz, 72 + 10 log (P) dB on all frequencies between 2367.5 and 2370 MHz, and 75 + 10 log (P) dB above 2370 MHz.

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 (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 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.
1238.23	154	266	-58.79	-13	-45.79	Pass	H
1619.90	154	283	-49.47	-13	-36.47	Pass	H
3802.50	156	280	-48.99	-13	-35.99	Pass	H
5814.88	153	56	-43.38	-13	-30.38	Pass	H
6432.99	151	184	-43.19	-13	-30.19	Pass	H
8094.86	157	177	-41.89	-13	-28.89	Pass	H
1264.70	159	288	-54.51	-13	-41.51	Pass	V
1544.75	141	220	-55.80	-13	-42.80	Pass	V
3513.68	143	197	-51.29	-13	-38.29	Pass	V
3865.79	155	165	-51.11	-13	-38.11	Pass	V
5711.75	158	291	-50.54	-13	-37.54	Pass	V
6567.31	149	143	-46.43	-13	-33.43	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.
1295.51	150	67	-55.06	-13	-42.06	Pass	H
1688.87	146	50	-54.07	-13	-41.07	Pass	H
3913.88	150	54	-50.59	-13	-37.59	Pass	H
5859.50	146	309	-46.86	-13	-33.86	Pass	H
6485.63	149	269	-48.11	-13	-35.11	Pass	H
7987.70	151	49	-51.18	-13	-38.18	Pass	H
1141.17	149	34	-52.07	-13	-39.07	Pass	V
1326.74	148	348	-56.35	-13	-43.35	Pass	V
3620.89	147	258	-55.03	-13	-42.03	Pass	V
3994.08	148	272	-52.52	-13	-39.52	Pass	V
5842.58	150	194	-51.44	-13	-38.44	Pass	V
6513.22	150	48	-46.30	-13	-33.30	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.
1285.41	152	294	-59.09	-13	-46.09	Pass	H
1677.38	148	176	-52.47	-13	-39.47	Pass	H
3893.63	148	277	-47.24	-13	-34.24	Pass	H
5822.51	151	112	-41.33	-13	-28.33	Pass	H
6521.61	145	258	-42.80	-13	-29.80	Pass	H
8055.27	154	132	-43.15	-13	-30.15	Pass	H
1234.87	153	324	-55.28	-13	-42.28	Pass	V
1378.12	148	281	-57.64	-13	-44.64	Pass	V
3468.67	152	124	-53.13	-13	-40.13	Pass	V
3834.41	146	115	-48.46	-13	-35.46	Pass	V
5821.45	146	166	-45.48	-13	-32.48	Pass	V
6638.05	152	321	-47.54	-13	-34.54	Pass	V

16QAM

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.
1395.32	149	131	-58.21	-13	-45.21	Pass	H
1780.57	146	19	-50.29	-13	-37.29	Pass	H
3844.25	152	358	-49.46	-13	-36.46	Pass	H
5981.70	146	46	-42.21	-13	-29.21	Pass	H
6512.68	155	23	-45.82	-13	-32.82	Pass	H
7900.49	146	305	-39.39	-13	-26.39	Pass	H
1091.80	145	63	-54.51	-13	-41.51	Pass	V
1491.34	154	156	-56.57	-13	-43.57	Pass	V
3496.06	151	41	-50.06	-13	-37.06	Pass	V
3956.12	151	308	-51.27	-13	-38.27	Pass	V
5882.80	145	32	-43.69	-13	-30.69	Pass	V
6666.91	150	180	-50.15	-13	-37.15	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.
1252.79	153	160	-55.73	-13	-41.45	Pass	H
1665.71	145	147	-51.35	-13	-37.85	Pass	H
3833.94	148	298	-45.48	-13	-35.2	Pass	H
5888.08	150	132	-39.85	-13	-30.39	Pass	H
6534.42	147	135	-41.39	-13	-32.24	Pass	H
8138.89	147	157	-43.71	-13	-30.22	Pass	H
1218.06	146	91	-56.34	-13	-44.9	Pass	V
1458.83	153	98	-57.42	-13	-43.63	Pass	V
3503.35	147	283	-46.74	-13	-35.94	Pass	V
3774.93	147	137	-49.46	-13	-36.01	Pass	V
5771.53	155	282	-43.87	-13	-33.75	Pass	V
6499.46	149	269	-41.73	-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.
1359.92	152	39	-52.73	-13	-39.73	Pass	H
1725.09	149	219	-47.51	-13	-34.51	Pass	H
3975.49	149	257	-41.57	-13	-28.57	Pass	H
5908.06	152	233	-40.60	-13	-27.60	Pass	H
6449.13	155	9	-37.46	-13	-24.46	Pass	H
8138.31	155	109	-43.53	-13	-30.53	Pass	H
1170.24	151	38	-54.15	-13	-41.15	Pass	V
1410.82	154	41	-57.77	-13	-44.77	Pass	V
3607.48	154	39	-48.40	-13	-35.40	Pass	V
3776.44	145	97	-47.75	-13	-34.75	Pass	V
5879.55	152	168	-45.67	-13	-32.67	Pass	V
6527.54	149	263	-45.36	-13	-32.36	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.

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.
1389.48	150	183	-59.46	-13	-46.46	Pass	H
1729.99	149	322	-48.32	-13	-35.32	Pass	H
3801.23	152	36	-46.45	-13	-33.45	Pass	H
6005.92	153	287	-46.69	-13	-33.69	Pass	H
6559.56	150	75	-42.72	-13	-29.72	Pass	H
8066.17	147	63	-42.75	-13	-29.75	Pass	H
1209.02	154	236	-54.69	-13	-41.69	Pass	V
1487.31	150	65	-56.74	-13	-43.74	Pass	V
3535.21	150	311	-48.10	-13	-35.10	Pass	V
3873.24	148	66	-51.90	-13	-38.90	Pass	V
5854.26	146	267	-48.21	-13	-35.21	Pass	V
6587.00	155	353	-48.10	-13	-35.10	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.
1308.28	155	322	-53.13	-13	-40.13	Pass	H
1778.61	149	21	-46.60	-13	-33.60	Pass	H
3911.00	152	110	-44.91	-13	-31.91	Pass	H
5902.90	153	119	-40.20	-13	-27.20	Pass	H
6569.93	149	72	-43.21	-13	-30.21	Pass	H
8052.06	152	13	-43.35	-13	-30.35	Pass	H
1124.32	154	59	-57.84	-13	-44.84	Pass	V
1372.85	150	28	-58.09	-13	-45.09	Pass	V
3574.96	150	262	-46.91	-13	-33.91	Pass	V
3767.36	152	224	-46.68	-13	-33.68	Pass	V
5819.04	150	174	-44.45	-13	-31.45	Pass	V
6585.89	146	65	-43.59	-13	-30.59	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.
1400.74	148	48	-51.28	-13	-38.28	Pass	H
1687.51	149	173	-50.50	-13	-37.50	Pass	H
3963.42	152	216	-43.41	-13	-30.41	Pass	H
5941.37	155	262	-38.39	-13	-25.39	Pass	H
6493.70	148	144	-47.03	-13	-34.03	Pass	H
7993.67	146	270	-42.85	-13	-29.85	Pass	H
1285.94	150	170	-55.74	-13	-42.74	Pass	V
1465.82	153	68	-59.26	-13	-46.26	Pass	V
3573.84	155	60	-53.15	-13	-40.15	Pass	V
3825.15	151	48	-48.94	-13	-35.94	Pass	V
5845.56	150	278	-49.15	-13	-36.15	Pass	V
6657.51	154	205	-49.98	-13	-36.98	Pass	V

16QAM

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.
1401.99	146	73	-55.24	-13	-42.24	Pass	H
1651.53	146	290	-52.69	-13	-39.69	Pass	H
3870.83	149	106	-47.47	-13	-34.47	Pass	H
5943.32	153	340	-42.96	-13	-29.96	Pass	H
6550.87	155	69	-48.28	-13	-35.28	Pass	H
8027.65	151	55	-44.44	-13	-31.44	Pass	H
1201.21	152	282	-56.77	-13	-43.77	Pass	V
1345.66	149	232	-54.84	-13	-41.84	Pass	V
3490.73	150	128	-48.46	-13	-35.46	Pass	V
3891.29	155	90	-50.14	-13	-37.14	Pass	V
5832.44	152	10	-45.41	-13	-32.41	Pass	V
6467.43	152	38	-44.91	-13	-31.91	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.
1353.79	152	111	-58.73	-13	-45.73	Pass	H
1814.34	148	223	-53.77	-13	-40.77	Pass	H
3778.65	150	83	-45.34	-13	-32.34	Pass	H
5865.10	145	60	-44.86	-13	-31.86	Pass	H
6402.70	151	237	-50.80	-13	-37.80	Pass	H
8110.41	154	315	-44.31	-13	-31.31	Pass	H
1278.86	152	228	-56.04	-13	-43.04	Pass	V
1298.89	147	263	-62.90	-13	-49.90	Pass	V
3626.28	146	142	-54.69	-13	-41.69	Pass	V
3869.98	146	246	-52.14	-13	-39.14	Pass	V
5876.73	147	169	-50.83	-13	-37.83	Pass	V
6451.17	146	191	-47.49	-13	-34.49	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.
1320.49	151	185	-55.18	-13	-42.18	Pass	H
1643.84	149	111	-52.12	-13	-39.12	Pass	H
3831.13	153	185	-45.07	-13	-32.07	Pass	H
5823.57	153	228	-39.99	-13	-26.99	Pass	H
6439.21	150	169	-39.33	-13	-26.33	Pass	H
7962.40	148	240	-46.90	-13	-33.90	Pass	H
1180.54	147	343	-50.09	-13	-37.09	Pass	V
1400.85	147	212	-51.16	-13	-38.16	Pass	V
3478.51	155	89	-50.75	-13	-37.75	Pass	V
3874.46	148	3	-47.09	-13	-34.09	Pass	V
5712.77	152	140	-47.13	-13	-34.13	Pass	V
6528.39	151	162	-50.10	-13	-37.10	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.
1397.19	152	195	-58.57	-13	-45.57	Pass	H
1697.23	156	315	-50.25	-13	-37.25	Pass	H
3836.43	143	284	-48.69	-13	-35.69	Pass	H
5978.11	153	299	-44.35	-13	-31.35	Pass	H
6428.11	148	140	-43.26	-13	-30.26	Pass	H
8010.81	144	7	-42.70	-13	-29.70	Pass	H
1192.73	157	343	-56.90	-13	-43.90	Pass	V
1461.74	155	1	-56.35	-13	-43.35	Pass	V
3504.99	151	261	-48.26	-13	-35.26	Pass	V
3828.36	143	260	-52.07	-13	-39.07	Pass	V
5723.35	144	125	-48.74	-13	-35.74	Pass	V
6474.37	140	344	-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.
1206.71	150	276	-54.77	-13	-41.77	Pass	H
1642.47	146	66	-51.30	-13	-38.30	Pass	H
3970.47	150	109	-52.88	-13	-39.88	Pass	H
5772.36	146	313	-44.43	-13	-31.43	Pass	H
6491.30	149	47	-48.69	-13	-35.69	Pass	H
8084.78	151	338	-47.46	-13	-34.46	Pass	H
1285.24	149	188	-52.07	-13	-39.07	Pass	V
1327.79	148	97	-61.61	-13	-48.61	Pass	V
3650.00	147	259	-56.13	-13	-43.13	Pass	V
3838.84	148	106	-48.75	-13	-35.75	Pass	V
5917.24	150	123	-50.82	-13	-37.82	Pass	V
6545.11	150	248	-45.96	-13	-32.96	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.
1334.27	151	71	-57.39	-13	-44.39	Pass	H
1699.62	147	278	-52.21	-13	-39.21	Pass	H
3858.88	150	357	-46.03	-13	-33.03	Pass	H
5983.06	154	244	-38.07	-13	-25.07	Pass	H
6567.85	147	298	-39.75	-13	-26.75	Pass	H
8089.65	153	304	-43.19	-13	-30.19	Pass	H
1282.98	149	339	-59.01	-13	-46.01	Pass	V
1473.27	154	32	-57.91	-13	-44.91	Pass	V
3436.44	152	196	-53.09	-13	-40.09	Pass	V
4000.24	146	168	-48.31	-13	-35.31	Pass	V
5776.33	150	220	-45.09	-13	-32.09	Pass	V
6659.63	151	323	-45.08	-13	-32.08	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.
1420.64	150	89	-55.99	-13	-42.99	Pass	H
1748.81	155	226	-49.80	-13	-36.80	Pass	H
3911.25	149	130	-50.82	-13	-37.82	Pass	H
5937.23	154	162	-42.11	-13	-29.11	Pass	H
6535.09	147	321	-43.27	-13	-30.27	Pass	H
8034.78	152	192	-40.69	-13	-27.69	Pass	H
1262.37	151	62	-54.63	-13	-41.63	Pass	V
1331.41	153	113	-56.88	-13	-43.88	Pass	V
3533.39	151	229	-48.90	-13	-35.90	Pass	V
3971.31	150	47	-50.38	-13	-37.38	Pass	V
5790.74	149	58	-46.26	-13	-33.26	Pass	V
6609.28	151	287	-49.28	-13	-36.28	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.
1346.87	146	308	-52.47	-13	-41.45	Pass	H
1627.03	153	346	-53.82	-13	-37.85	Pass	H
3818.56	146	81	-44.61	-13	-35.2	Pass	H
5930.36	152	234	-45.96	-13	-30.39	Pass	H
6507.70	146	127	-47.80	-13	-32.24	Pass	H
8109.97	146	83	-46.01	-13	-30.22	Pass	H
1287.85	153	14	-60.44	-13	-44.9	Pass	V
1364.73	148	240	-58.84	-13	-43.63	Pass	V
3628.84	153	250	-47.46	-13	-35.94	Pass	V
3755.94	154	12	-50.48	-13	-36.01	Pass	V
5812.53	146	129	-43.42	-13	-33.75	Pass	V
6606.23	151	45	-45.87	-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.
1362.84	148	250	-53.76	-13	-40.76	Pass	H
1798.00	155	235	-46.60	-13	-33.60	Pass	H
3805.11	152	61	-47.08	-13	-34.08	Pass	H
5940.76	151	266	-44.74	-13	-31.74	Pass	H
6591.82	151	226	-42.84	-13	-29.84	Pass	H
8147.01	148	47	-43.69	-13	-30.69	Pass	H
1140.72	153	49	-54.96	-13	-41.96	Pass	V
1389.14	153	19	-60.56	-13	-47.56	Pass	V
3453.45	153	30	-48.72	-13	-35.72	Pass	V
3832.56	149	214	-47.56	-13	-34.56	Pass	V
5712.95	146	187	-49.50	-13	-36.50	Pass	V
6641.89	153	158	-46.64	-13	-33.64	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 7 20775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1260.36	154	62	-58.61	-13	-45.61	Pass	H
1599.26	152	140	-45.25	-13	-32.25	Pass	H
3868.00	145	275	-46.94	-13	-33.94	Pass	H
5994.19	151	73	-42.61	-13	-29.61	Pass	H
6648.72	154	158	-44.10	-13	-31.10	Pass	H
8081.79	148	323	-39.29	-13	-26.29	Pass	H
1113.25	152	216	-52.32	-13	-39.32	Pass	V
1480.06	149	286	-58.99	-13	-45.99	Pass	V
3611.35	151	220	-53.40	-13	-40.40	Pass	V
3959.63	146	358	-48.09	-13	-35.09	Pass	V
5914.13	150	332	-43.62	-13	-30.62	Pass	V
6595.02	145	129	-45.00	-13	-32.00	Pass	V

Band 7 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1323.11	152	346	-57.12	-13	-44.12	Pass	H
1681.70	153	291	-46.67	-13	-33.67	Pass	H
3883.22	153	259	-44.99	-13	-31.99	Pass	H
5990.34	154	180	-39.27	-13	-26.27	Pass	H
6548.18	150	141	-41.79	-13	-28.79	Pass	H
8060.93	150	20	-46.02	-13	-33.02	Pass	H
1198.17	150	17	-56.93	-13	-43.93	Pass	V
1371.87	155	195	-58.76	-13	-45.76	Pass	V
3616.37	148	349	-49.45	-13	-36.45	Pass	V
3754.84	154	252	-49.26	-13	-36.26	Pass	V
5784.26	155	290	-44.45	-13	-31.45	Pass	V
6543.29	150	48	-46.25	-13	-33.25	Pass	V

Band 7 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1320.99	153	24	-54.62	-13	-41.62	Pass	H
1721.08	146	32	-45.11	-13	-32.11	Pass	H
3857.41	155	56	-43.87	-13	-30.87	Pass	H
5889.77	149	68	-39.11	-13	-26.11	Pass	H
6418.93	151	94	-46.01	-13	-33.01	Pass	H
8061.71	153	102	-45.62	-13	-32.62	Pass	H
1302.17	151	88	-56.10	-13	-43.10	Pass	V
1558.50	151	229	-58.52	-13	-45.52	Pass	V
3623.62	154	186	-53.37	-13	-40.37	Pass	V
3821.99	150	159	-47.21	-13	-34.21	Pass	V
5765.33	152	143	-49.36	-13	-36.36	Pass	V
6545.36	148	262	-44.85	-13	-31.85	Pass	V

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Band 7 20775 channel/BW 5 (lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1415.60	148	249	-58.80	-13	-45.80	Pass	H
1823.45	150	191	-50.76	-13	-37.76	Pass	H
3985.95	152	101	-50.81	-13	-37.81	Pass	H
5869.96	152	294	-46.00	-13	-33.00	Pass	H
6457.83	151	93	-46.40	-13	-33.40	Pass	H
8015.42	149	223	-49.16	-13	-36.16	Pass	H
1195.71	149	148	-55.97	-13	-42.97	Pass	V
1479.36	148	102	-58.31	-13	-45.31	Pass	V
3533.97	154	323	-47.20	-13	-34.20	Pass	V
3738.47	153	204	-48.62	-13	-35.62	Pass	V
5818.93	155	339	-48.24	-13	-35.24	Pass	V
6574.69	147	304	-47.48	-13	-34.48	Pass	V

Band 7 21100 channel/BW 5 (middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1324.41	146	6	-55.71	-13	-42.71	Pass	H
1630.95	150	15	-56.73	-13	-43.73	Pass	H
3918.49	150	262	-45.29	-13	-32.29	Pass	H
5919.33	152	142	-47.42	-13	-34.42	Pass	H
6399.53	151	75	-48.10	-13	-35.10	Pass	H
7969.36	147	340	-45.63	-13	-32.63	Pass	H
1266.58	151	72	-51.08	-13	-38.08	Pass	V
1417.54	151	265	-65.67	-13	-52.67	Pass	V
3499.35	155	135	-50.34	-13	-37.34	Pass	V
3991.02	154	120	-54.49	-13	-41.49	Pass	V
5845.13	151	359	-49.98	-13	-36.98	Pass	V
6529.68	153	270	-49.73	-13	-36.73	Pass	V

Band 7 21425 channel/BW 5 (highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1257.04	147	11	-56.36	-13	-43.36	Pass	H
1641.32	149	61	-53.13	-13	-40.13	Pass	H
3824.91	155	168	-45.22	-13	-32.22	Pass	H
5832.12	154	102	-39.32	-13	-26.32	Pass	H
6446.16	149	357	-44.75	-13	-31.75	Pass	H
7948.73	150	160	-44.86	-13	-31.86	Pass	H
1232.06	148	24	-55.31	-13	-42.31	Pass	V
1309.83	154	47	-55.19	-13	-42.19	Pass	V
3493.92	152	359	-51.94	-13	-38.94	Pass	V
3812.75	147	194	-43.77	-13	-30.77	Pass	V
5776.48	151	336	-43.05	-13	-30.05	Pass	V
6558.12	150	165	-44.96	-13	-31.96	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 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.
1240.51	145	139	-58.28	-13	-45.28	Pass	H
1766.18	143	50	-46.90	-13	-33.90	Pass	H
3894.89	156	34	-45.90	-13	-32.90	Pass	H
5959.47	150	51	-42.61	-13	-29.61	Pass	H
6532.33	148	132	-43.65	-13	-30.65	Pass	H
8143.83	141	159	-43.28	-13	-30.28	Pass	H
1246.10	141	49	-55.49	-13	-42.49	Pass	V
1424.65	153	287	-59.03	-13	-46.03	Pass	V
3583.63	158	133	-48.05	-13	-35.05	Pass	V
3865.65	144	274	-51.70	-13	-38.70	Pass	V
5814.77	150	313	-46.97	-13	-33.97	Pass	V
6541.41	156	41	-49.36	-13	-36.36	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.
1239.00	150	163	-55.76	-13	-42.76	Pass	H
1756.06	146	57	-53.87	-13	-40.87	Pass	H
3841.72	150	338	-48.91	-13	-35.91	Pass	H
5932.13	146	51	-46.12	-13	-33.12	Pass	H
6487.24	149	242	-48.73	-13	-35.73	Pass	H
8030.49	151	69	-51.03	-13	-38.03	Pass	H
1244.43	149	25	-51.91	-13	-38.91	Pass	V
1319.65	148	190	-57.88	-13	-44.88	Pass	V
3690.02	147	123	-53.91	-13	-40.91	Pass	V
4014.73	148	194	-48.93	-13	-35.93	Pass	V
5914.52	150	179	-46.09	-13	-33.09	Pass	V
6616.52	150	110	-48.61	-13	-35.61	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.
1425.01	152	346	-53.78	-13	-40.78	Pass	H
1576.64	147	18	-53.96	-13	-40.96	Pass	H
3874.70	148	263	-43.11	-13	-30.11	Pass	H
5953.21	154	271	-43.66	-13	-30.66	Pass	H
6515.29	148	66	-42.16	-13	-29.16	Pass	H
7966.02	152	232	-45.75	-13	-32.75	Pass	H
1271.04	149	96	-53.50	-13	-40.50	Pass	V
1406.94	152	349	-55.35	-13	-42.35	Pass	V
3511.10	151	337	-53.81	-13	-40.81	Pass	V
3930.28	147	251	-49.79	-13	-36.79	Pass	V
5888.29	155	125	-43.60	-13	-30.60	Pass	V
6571.07	153	257	-49.85	-13	-36.85	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.
1409.96	150	136	-59.40	-13	-46.40	Pass	H
1783.02	151	224	-45.70	-13	-32.70	Pass	H
3834.76	147	240	-51.13	-13	-38.13	Pass	H
5855.47	146	79	-46.67	-13	-33.67	Pass	H
6630.86	150	256	-44.36	-13	-31.36	Pass	H
8083.31	149	314	-41.00	-13	-28.00	Pass	H
1166.64	153	174	-55.04	-13	-42.04	Pass	V
1509.57	150	144	-57.44	-13	-44.44	Pass	V
3587.42	155	274	-53.80	-13	-40.80	Pass	V
3809.69	151	106	-54.48	-13	-41.48	Pass	V
5901.53	150	71	-46.60	-13	-33.60	Pass	V
6677.34	149	109	-50.76	-13	-37.76	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.
1409.37	153	326	-53.42	-13	-41.45	Pass	H
1720.41	155	290	-53.52	-13	-37.85	Pass	H
3903.19	148	100	-46.80	-13	-35.2	Pass	H
5907.51	152	193	-42.13	-13	-30.39	Pass	H
6564.68	151	262	-41.56	-13	-32.24	Pass	H
8125.18	152	289	-40.59	-13	-30.22	Pass	H
1171.80	148	148	-58.25	-13	-44.9	Pass	V
1371.74	154	344	-57.06	-13	-43.63	Pass	V
3627.75	151	40	-51.40	-13	-35.94	Pass	V
3936.75	154	105	-51.07	-13	-36.01	Pass	V
5748.28	149	190	-48.20	-13	-33.75	Pass	V
6564.66	147	155	-43.04	-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.
1332.52	146	122	-56.16	-13	-43.16	Pass	H
1683.81	147	279	-47.61	-13	-34.61	Pass	H
3829.52	151	24	-42.75	-13	-29.75	Pass	H
5890.67	151	91	-44.96	-13	-31.96	Pass	H
6441.36	146	296	-41.25	-13	-28.25	Pass	H
8065.69	146	223	-44.96	-13	-31.96	Pass	H
1192.18	146	223	-52.54	-13	-39.54	Pass	V
1421.89	148	89	-60.34	-13	-47.34	Pass	V
3612.30	147	9	-50.70	-13	-37.70	Pass	V
3903.68	150	68	-48.04	-13	-35.04	Pass	V
5848.09	152	222	-50.21	-13	-37.21	Pass	V
6555.45	145	333	-44.20	-13	-31.20	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 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.
1419.75	145	206	-57.01	-25	-32.01	Pass	H
1682.53	152	235	-52.11	-25	-27.11	Pass	H
3967.37	155	76	-45.34	-25	-20.34	Pass	H
5834.06	149	127	-43.74	-25	-18.74	Pass	H
6506.17	155	211	-45.01	-25	-20.01	Pass	H
8096.37	152	308	-42.86	-25	-17.86	Pass	H
1239.22	146	349	-56.14	-25	-31.14	Pass	V
1387.97	146	68	-57.33	-25	-32.33	Pass	V
3542.60	151	115	-51.75	-25	-26.75	Pass	V
3850.61	153	115	-50.66	-25	-25.66	Pass	V
5837.74	152	254	-45.99	-25	-20.99	Pass	V
6651.76	149	261	-49.14	-25	-24.14	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.
1412.26	145	12	-56.26	-25	-31.26	Pass	H
1642.89	150	305	-44.59	-25	-19.59	Pass	H
3824.68	149	40	-44.71	-25	-19.71	Pass	H
5951.39	146	338	-41.47	-25	-16.47	Pass	H
6464.32	154	269	-40.99	-25	-15.99	Pass	H
8136.16	148	269	-44.40	-25	-19.40	Pass	H
1228.47	148	253	-59.22	-25	-34.22	Pass	V
1550.83	154	54	-58.35	-25	-33.35	Pass	V
3569.02	146	33	-48.66	-25	-23.66	Pass	V
3800.31	153	28	-51.66	-25	-26.66	Pass	V
5793.82	151	218	-47.49	-25	-22.49	Pass	V
6485.83	148	323	-45.76	-25	-20.76	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.
1277.24	148	117	-55.68	-25	-30.68	Pass	H
1619.80	147	10	-50.84	-25	-25.84	Pass	H
3966.31	154	111	-47.05	-25	-22.05	Pass	H
5912.01	154	45	-42.57	-25	-17.57	Pass	H
6591.46	153	314	-43.95	-25	-18.95	Pass	H
8161.89	153	319	-45.46	-25	-20.46	Pass	H
1287.40	148	225	-55.38	-25	-30.38	Pass	V
1380.77	150	287	-58.15	-25	-33.15	Pass	V
3595.20	146	322	-47.21	-25	-22.21	Pass	V
3839.01	154	259	-53.00	-25	-28.00	Pass	V
5896.79	153	40	-47.30	-25	-22.30	Pass	V
6576.44	147	238	-51.07	-25	-26.07	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.
1432.23	154	96	-53.03	-25	-28.03	Pass	H
1758.72	146	120	-47.07	-25	-22.07	Pass	H
3962.18	148	152	-46.93	-25	-21.93	Pass	H
5969.21	148	13	-42.80	-25	-17.80	Pass	H
6594.61	154	77	-45.20	-25	-20.20	Pass	H
8091.60	149	65	-45.53	-25	-20.53	Pass	H
1113.21	151	337	-54.49	-25	-29.49	Pass	V
1558.40	153	295	-55.96	-25	-30.96	Pass	V
3641.03	147	115	-49.61	-25	-24.61	Pass	V
3785.34	147	56	-48.12	-25	-23.12	Pass	V
5877.47	146	328	-49.15	-25	-24.15	Pass	V
6554.05	153	209	-48.61	-25	-23.61	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.
1292.30	152	26	-51.44	-25	-26.44	Pass	H
1734.29	151	12	-43.27	-25	-18.27	Pass	H
3824.20	149	109	-40.41	-25	-15.41	Pass	H
5864.00	151	103	-42.71	-25	-17.71	Pass	H
6514.63	155	188	-40.71	-25	-15.71	Pass	H
8063.37	155	95	-42.26	-25	-17.26	Pass	H
1185.17	152	318	-55.32	-25	-30.32	Pass	V
1501.26	152	56	-61.79	-25	-36.79	Pass	V
3466.78	148	61	-48.03	-25	-23.03	Pass	V
3927.97	152	273	-51.27	-25	-26.27	Pass	V
5718.74	150	143	-48.54	-25	-23.54	Pass	V
6607.86	152	303	-47.52	-25	-22.52	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.
1397.05	151	112	-59.99	-25	-34.99	Pass	H
1788.64	153	327	-46.84	-25	-21.84	Pass	H
3928.29	152	4	-42.26	-25	-17.26	Pass	H
5924.32	152	248	-42.68	-25	-17.68	Pass	H
6607.10	149	20	-40.07	-25	-15.07	Pass	H
8169.38	152	83	-45.90	-25	-20.90	Pass	H
1141.13	152	219	-52.32	-25	-27.32	Pass	V
1558.23	146	278	-54.97	-25	-29.97	Pass	V
3593.21	148	316	-50.20	-25	-25.20	Pass	V
3918.29	150	347	-49.91	-25	-24.91	Pass	V
5805.05	149	65	-43.96	-25	-18.96	Pass	V
6565.42	152	106	-47.01	-25	-22.01	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 17 23755 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1391.13	159	318	-58.57	-13	-45.57	Pass	H
1618.24	140	95	-47.55	-13	-34.55	Pass	H
3902.90	154	160	-49.62	-13	-36.62	Pass	H
5854.12	155	266	-43.16	-13	-30.16	Pass	H
6411.18	151	85	-44.21	-13	-31.21	Pass	H
8105.20	152	106	-41.91	-13	-28.91	Pass	H
1136.71	152	99	-57.10	-13	-44.10	Pass	V
1405.08	150	170	-58.06	-13	-45.06	Pass	V
3609.16	159	14	-48.18	-13	-35.18	Pass	V
3831.79	144	254	-50.49	-13	-37.49	Pass	V
5837.49	147	321	-49.02	-13	-36.02	Pass	V
6549.42	150	258	-44.66	-13	-31.66	Pass	V

Band 17 23790 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1262.55	150	254	-55.76	-13	-42.76	Pass	H
1727.26	146	285	-50.40	-13	-37.40	Pass	H
3928.65	150	32	-49.34	-13	-36.34	Pass	H
5827.42	146	267	-44.52	-13	-31.52	Pass	H
6392.09	149	292	-52.15	-13	-39.15	Pass	H
8116.51	151	153	-49.38	-13	-36.38	Pass	H
1274.86	149	161	-56.75	-13	-43.75	Pass	V
1324.71	148	63	-59.45	-13	-46.45	Pass	V
3637.31	147	25	-55.99	-13	-42.99	Pass	V
3982.57	148	271	-52.77	-13	-39.77	Pass	V
5889.86	150	89	-48.55	-13	-35.55	Pass	V
6585.54	150	174	-47.05	-13	-34.05	Pass	V

Band 17 23825 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1246.87	147	120	-58.29	-13	-45.29	Pass	H
1656.05	147	267	-49.20	-13	-36.20	Pass	H
3900.59	154	13	-46.63	-13	-33.63	Pass	H
5992.76	151	292	-41.87	-13	-28.87	Pass	H
6511.60	147	215	-42.47	-13	-29.47	Pass	H
7991.04	146	348	-47.55	-13	-34.55	Pass	H
1339.69	150	341	-56.59	-13	-43.59	Pass	V
1492.92	151	86	-56.36	-13	-43.36	Pass	V
3488.87	151	326	-51.00	-13	-38.00	Pass	V
3911.09	155	316	-50.25	-13	-37.25	Pass	V
5831.03	154	123	-44.73	-13	-31.73	Pass	V
6534.75	152	219	-49.24	-13	-36.24	Pass	V

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Band 17 23755 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1410.10	148	331	-56.67	-13	-43.67	Pass	H
1612.65	148	158	-48.76	-13	-35.76	Pass	H
3826.56	154	215	-49.77	-13	-36.77	Pass	H
5993.13	145	278	-43.30	-13	-30.30	Pass	H
6659.09	147	334	-44.58	-13	-31.58	Pass	H
7969.42	150	261	-42.29	-13	-29.29	Pass	H
1163.93	146	174	-52.98	-13	-39.98	Pass	V
1347.37	145	117	-58.53	-13	-45.53	Pass	V
3640.21	148	213	-49.81	-13	-36.81	Pass	V
3881.60	149	266	-52.98	-13	-39.98	Pass	V
5911.67	150	348	-47.77	-13	-34.77	Pass	V
6563.19	155	37	-50.10	-13	-37.10	Pass	V

Band 17 23790 channel/BW1.4(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1400.28	154	8	-51.83	-13	-41.45	Pass	H
1729.51	149	80	-47.94	-13	-37.85	Pass	H
3782.93	151	252	-45.52	-13	-35.2	Pass	H
5912.47	152	338	-39.99	-13	-30.39	Pass	H
6550.83	151	13	-46.77	-13	-32.24	Pass	H
8023.06	152	56	-44.60	-13	-30.22	Pass	H
1291.10	150	286	-58.47	-13	-44.9	Pass	V
1456.52	151	46	-52.89	-13	-43.63	Pass	V
3558.33	149	193	-50.95	-13	-35.94	Pass	V
3847.48	154	30	-51.05	-13	-36.01	Pass	V
5796.45	147	194	-43.45	-13	-33.75	Pass	V
6571.99	153	280	-42.55	-13	-32.41	Pass	V

Band 17 23825 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1399.93	155	143	-57.77	-13	-44.77	Pass	H
1680.98	148	134	-48.25	-13	-35.25	Pass	H
3907.07	149	206	-47.12	-13	-34.12	Pass	H
5812.84	150	110	-39.12	-13	-26.12	Pass	H
6479.51	154	250	-37.56	-13	-24.56	Pass	H
8059.83	149	318	-42.76	-13	-29.76	Pass	H
1280.37	153	347	-56.24	-13	-43.24	Pass	V
1524.84	151	93	-56.72	-13	-43.72	Pass	V
3531.52	149	155	-50.15	-13	-37.15	Pass	V
3774.81	153	357	-51.24	-13	-38.24	Pass	V
5775.91	147	120	-51.53	-13	-38.53	Pass	V
6565.25	152	149	-47.32	-13	-34.32	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.

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Band 38 37775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1354.59	148	26	-52.32	-25	-27.32	Pass	H
1607.96	154	360	-48.28	-25	-23.28	Pass	H
3906.24	151	177	-49.13	-25	-24.13	Pass	H
5968.99	151	305	-44.09	-25	-19.09	Pass	H
6470.38	154	25	-44.84	-25	-19.84	Pass	H
8091.03	152	311	-43.68	-25	-18.68	Pass	H
1259.29	149	42	-51.47	-25	-26.47	Pass	V
1544.13	146	101	-56.07	-25	-31.07	Pass	V
3491.95	149	210	-49.69	-25	-24.69	Pass	V
3822.92	154	302	-51.37	-25	-26.37	Pass	V
5883.15	148	302	-44.10	-25	-19.10	Pass	V
6482.75	152	348	-48.16	-25	-23.16	Pass	V
Band 38 38000 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1427.09	150	217	-52.66	-25	-27.66	Pass	H
1659.41	150	99	-44.99	-25	-19.99	Pass	H
3904.30	153	242	-47.13	-25	-22.13	Pass	H
5981.03	145	171	-40.42	-25	-15.42	Pass	H
6449.64	152	126	-44.32	-25	-19.32	Pass	H
8004.15	151	313	-47.14	-25	-22.14	Pass	H
1248.70	147	246	-58.29	-25	-33.29	Pass	V
1438.19	153	151	-53.51	-25	-28.51	Pass	V
3614.35	153	115	-50.20	-25	-25.20	Pass	V
3804.79	153	305	-50.50	-25	-25.50	Pass	V
5704.10	150	63	-48.44	-25	-23.44	Pass	V
6570.76	149	174	-43.62	-25	-18.62	Pass	V

Band 38 38225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1235.19	152	175	-54.22	-25	-29.22	Pass	H
1611.51	147	246	-48.64	-25	-23.64	Pass	H
3910.80	149	61	-45.19	-25	-20.19	Pass	H
5823.07	154	252	-42.61	-25	-17.61	Pass	H
6580.13	149	70	-40.93	-25	-15.93	Pass	H
7992.06	148	166	-46.87	-25	-21.87	Pass	H
1175.39	151	315	-53.74	-25	-28.74	Pass	V
1466.59	146	114	-59.51	-25	-34.51	Pass	V
3516.38	149	153	-50.62	-25	-25.62	Pass	V
3922.39	152	227	-48.95	-25	-23.95	Pass	V
5884.11	154	76	-46.81	-25	-21.81	Pass	V
6616.75	150	35	-50.06	-25	-25.06	Pass	V
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Band 38 37775 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1369.67	146	123	-56.32	-25	-31.32	Pass	H
1671.58	154	90	-45.67	-25	-20.67	Pass	H
3902.36	153	246	-47.04	-25	-22.04	Pass	H
5818.60	154	234	-43.70	-25	-18.70	Pass	H
6549.93	148	181	-46.98	-25	-21.98	Pass	H
8133.96	147	113	-47.72	-25	-22.72	Pass	H
1158.06	152	34	-53.83	-25	-28.83	Pass	V
1471.50	150	241	-59.81	-25	-34.81	Pass	V
3634.75	154	306	-49.50	-25	-24.50	Pass	V
3848.45	149	260	-52.99	-25	-27.99	Pass	V
5754.17	152	218	-46.64	-25	-21.64	Pass	V
6486.42	153	219	-45.84	-25	-20.84	Pass	V

Band 38 38000 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1339.48	149	199	-51.39	-25	-26.39	Pass	H
1723.91	147	108	-49.65	-25	-24.65	Pass	H
3925.90	150	197	-45.40	-25	-20.40	Pass	H
5803.32	153	86	-40.31	-25	-15.31	Pass	H
6472.25	155	297	-44.47	-25	-19.47	Pass	H
8051.39	145	140	-39.51	-25	-14.51	Pass	H
1116.75	155	73	-56.61	-25	-31.61	Pass	V
1410.17	145	81	-57.37	-25	-32.37	Pass	V
3527.22	150	121	-50.47	-25	-25.47	Pass	V
3756.55	154	324	-50.67	-25	-25.67	Pass	V
5707.90	155	39	-50.38	-25	-25.38	Pass	V
6583.52	147	331	-45.53	-25	-20.53	Pass	V
Band 38 38225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1427.15	153	143	-58.30	-25	-33.30	Pass	H
1711.50	148	99	-49.18	-25	-24.18	Pass	H
3882.30	149	210	-44.69	-25	-19.69	Pass	H
5823.59	149	186	-39.99	-25	-14.99	Pass	H
6442.56	148	238	-40.50	-25	-15.50	Pass	H
8039.58	150	138	-44.69	-25	-19.69	Pass	H
1117.20	151	157	-53.10	-25	-28.10	Pass	V
1487.88	145	161	-56.42	-25	-31.42	Pass	V
3526.89	152	271	-51.32	-25	-26.32	Pass	V
3806.43	153	206	-46.86	-25	-21.86	Pass	V
5798.21	155	301	-44.43	-25	-19.43	Pass	V
6531.39	150	272	-49.64	-25	-24.64	Pass	V

Note:

15) 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.

16) 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 41 40265 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1355.88	146	204	-54.29	-25	-29.29	Pass	H
1767.96	148	216	-51.75	-25	-26.75	Pass	H
3980.46	147	215	-47.49	-25	-22.49	Pass	H
5918.03	147	55	-40.10	-25	-15.10	Pass	H
6531.17	150	141	-40.11	-25	-15.11	Pass	H
8029.81	154	23	-45.80	-25	-20.80	Pass	H
1112.13	149	347	-53.99	-25	-28.99	Pass	V
1504.45	146	150	-59.96	-25	-34.96	Pass	V
3498.60	147	113	-53.10	-25	-28.10	Pass	V
3749.07	145	60	-51.79	-25	-26.79	Pass	V
5844.93	147	27	-44.07	-25	-19.07	Pass	V
6582.27	146	224	-48.53	-25	-23.53	Pass	V
Band 41 40740 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1354.03	154	211	-53.13	-25	-28.13	Pass	H
1685.22	152	202	-45.73	-25	-20.73	Pass	H
3996.93	148	249	-47.01	-25	-22.01	Pass	H
5818.16	153	244	-44.31	-25	-19.31	Pass	H
6427.86	148	148	-43.48	-25	-18.48	Pass	H
8009.17	151	153	-44.64	-25	-19.64	Pass	H
1235.40	147	101	-57.12	-25	-32.12	Pass	V
1494.46	145	196	-54.50	-25	-29.50	Pass	V
3593.38	147	214	-53.73	-25	-28.73	Pass	V
3828.13	153	224	-50.68	-25	-25.68	Pass	V
5706.31	154	169	-44.42	-25	-19.42	Pass	V
6648.75	147	183	-48.29	-25	-23.29	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1317.33	152	53	-54.09	-25	-29.09	Pass	H
1769.81	146	84	-48.70	-25	-23.70	Pass	H
3858.65	151	160	-44.66	-25	-19.66	Pass	H
5964.56	145	163	-43.26	-25	-18.26	Pass	H
6506.25	155	140	-43.82	-25	-18.82	Pass	H
8008.83	153	276	-46.76	-25	-21.76	Pass	H
1167.39	148	100	-57.11	-25	-32.11	Pass	V
1553.63	154	273	-55.48	-25	-30.48	Pass	V
3491.61	150	83	-49.40	-25	-24.40	Pass	V
3900.52	154	178	-51.14	-25	-26.14	Pass	V
5726.56	155	56	-46.26	-25	-21.26	Pass	V
6609.83	154	47	-48.48	-25	-23.48	Pass	V

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Band 41 40265 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1424.27	149	89	-51.44	-25	-26.44	Pass	H
1673.11	152	308	-48.90	-25	-23.90	Pass	H
3934.88	147	25	-44.68	-25	-19.68	Pass	H
5943.92	153	351	-41.55	-25	-16.55	Pass	H
6518.84	152	206	-41.39	-25	-16.39	Pass	H
8172.49	152	169	-45.23	-25	-20.23	Pass	H
1264.99	148	133	-51.80	-25	-26.80	Pass	V
1524.50	150	21	-61.45	-25	-36.45	Pass	V
3526.13	146	227	-53.85	-25	-28.85	Pass	V
3845.13	148	224	-51.85	-25	-26.85	Pass	V
5750.30	153	191	-48.58	-25	-23.58	Pass	V
6501.11	151	20	-49.74	-25	-24.74	Pass	V

Band 41 40740 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1284.93	146	265	-51.48	-25	-26.48	Pass	H
1610.33	152	58	-45.62	-25	-20.62	Pass	H
3884.12	146	114	-42.52	-25	-17.52	Pass	H
5813.84	153	109	-38.53	-25	-13.53	Pass	H
6569.07	147	359	-44.88	-25	-19.88	Pass	H
8151.05	155	149	-42.09	-25	-17.09	Pass	H
1130.66	148	82	-53.12	-25	-28.12	Pass	V
1504.97	151	69	-60.54	-25	-35.54	Pass	V
3599.86	148	297	-47.86	-25	-22.86	Pass	V
3857.13	145	141	-47.15	-25	-22.15	Pass	V
5895.32	150	207	-47.05	-25	-22.05	Pass	V
6654.12	147	194	-45.31	-25	-20.31	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1248.68	149	184	-59.05	-25	-34.05	Pass	H
1708.52	151	277	-48.01	-25	-23.01	Pass	H
3967.00	147	224	-43.47	-25	-18.47	Pass	H
5863.75	151	234	-38.65	-25	-13.65	Pass	H
6574.92	155	180	-38.71	-25	-13.71	Pass	H
8091.17	153	22	-39.31	-25	-14.31	Pass	H
1239.50	147	138	-55.33	-25	-30.33	Pass	V
1426.87	152	161	-59.27	-25	-34.27	Pass	V
3544.60	147	11	-54.69	-25	-29.69	Pass	V
3860.09	151	150	-52.73	-25	-27.73	Pass	V
5839.68	146	182	-45.26	-25	-20.26	Pass	V
6526.57	149	5	-46.99	-25	-21.99	Pass	V

Note:

17) 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.

18) 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.

QPSK							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1331.26	149	172	-57.43	-40	-17.43	Pass	H
1639.25	152	172	-42.64	-40	-2.64	Pass	H
3812.25	148	123	-51.19	-40	-11.19	Pass	H
5904.52	152	175	-39.54	-40	0.46	Pass	H
6576.93	149	114	-45.17	-40	-5.17	Pass	H
7975.79	152	329	-43.74	-40	-3.74	Pass	H
1184.15	149	348	-53.78	-40	-13.78	Pass	V
1359.60	151	304	-56.30	-40	-16.30	Pass	V
3543.71	151	311	-51.85	-40	-11.85	Pass	V
3868.21	155	178	-48.00	-40	-8.00	Pass	V
5806.49	150	69	-44.63	-40	-4.63	Pass	V
6524.63	155	93	-45.39	-40	-5.39	Pass	V
Band 40A 38750 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1267.14	152	38	-59.35	-40	-19.35	Pass	H
1740.24	155	60	-52.94	-40	-12.94	Pass	H
3791.06	149	276	-49.62	-40	-9.62	Pass	H
5890.06	151	110	-47.01	-40	-7.01	Pass	H
6415.64	155	12	-47.51	-40	-7.51	Pass	H
8006.83	155	204	-44.03	-40	-4.03	Pass	H
1176.85	146	64	-59.53	-40	-19.53	Pass	V
1341.25	146	62	-59.91	-40	-19.91	Pass	V
3531.12	147	305	-50.48	-40	-10.48	Pass	V
3758.83	153	84	-49.03	-40	-9.03	Pass	V
5864.51	151	79	-50.23	-40	-10.23	Pass	V
6524.71	153	114	-43.37	-40	-3.37	Pass	V

Band 40A 38775 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1239.21	153	10	-54.67	-40	-14.67	Pass	H
1641.70	149	47	-49.02	-40	-9.02	Pass	H
3903.55	151	23	-50.85	-40	-10.85	Pass	H
5938.88	151	111	-44.65	-40	-4.65	Pass	H
6412.31	146	68	-43.61	-40	-3.61	Pass	H
8152.85	149	94	-46.24	-40	-6.24	Pass	H
1141.30	154	228	-61.34	-40	-21.34	Pass	V
1299.76	145	3	-61.81	-40	-21.81	Pass	V
3505.28	154	190	-51.39	-40	-11.39	Pass	V
3868.22	147	194	-51.75	-40	-11.75	Pass	V
5825.22	147	331	-48.80	-40	-8.80	Pass	V
6434.24	146	199	-47.30	-40	-5.68	Pass	V
16QAM							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1425.71	147	35	-53.87	-40	-13.87	Pass	H
1751.61	151	96	-50.13	-40	-10.13	Pass	H
3759.38	146	236	-48.46	-40	-8.46	Pass	H
5867.28	147	139	-48.07	-40	-8.07	Pass	H
6477.52	145	88	-46.98	-40	-6.98	Pass	H
8133.97	150	30	-44.12	-40	-4.12	Pass	H
1204.14	149	299	-59.56	-40	-19.56	Pass	V
1440.12	147	212	-59.23	-40	-19.23	Pass	V
3571.85	151	244	-53.68	-40	-13.68	Pass	V
3878.90	154	208	-50.82	-40	-10.82	Pass	V
5751.61	146	138	-48.57	-40	-8.57	Pass	V
6529.50	147.61	208.96	-45.34	-40	-5.34	Pass	V

Band 40A 38750channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1401.78	147	219	-57.40	-40	-17.40	Pass	H
1787.43	149	97	-48.79	-40	-8.79	Pass	H
3868.25	148	303	-51.05	-40	-11.05	Pass	H
5957.09	155	86	-45.36	-40	-5.36	Pass	H
6539.44	152	153	-48.29	-40	-8.29	Pass	H
8057.42	149	351	-43.82	-40	-3.82	Pass	H
1287.00	148	310	-54.35	-40	-14.35	Pass	V
1418.48	151	94	-63.18	-40	-23.18	Pass	V
3520.34	148	191	-51.50	-40	-11.50	Pass	V
3908.51	150	157	-51.25	-40	-11.25	Pass	V
5778.81	153	122	-47.19	-40	-7.19	Pass	V
6445.68	152	52	-45.21	-40	-5.21	Pass	V
Band 40A 38875 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1235.95	153	102	-59.00	-40	-19.00	Pass	H
1639.98	145	26	-49.55	-40	-9.55	Pass	H
3783.64	152	242	-47.39	-40	-7.39	Pass	H
5829.01	146	117	-46.99	-40	-6.99	Pass	H
6511.56	147	186	-46.07	-40	-6.07	Pass	H
8041.05	146	316	-42.61	-40	-2.61	Pass	H
1271.45	149	163	-57.32	-40	-17.32	Pass	V
1361.41	152	87	-61.96	-40	-21.96	Pass	V
3438.60	150	330	-50.36	-40	-10.36	Pass	V
3803.71	150	62	-49.59	-40	-9.59	Pass	V
5882.33	147	241	-45.70	-40	-5.70	Pass	V
6475.01	150	315	-45.90	-40	-5.90	Pass	V

Note:

19) 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.

20) 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.

QPSK							
Band 40B 39175channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1316.57	146	225	-55.52	-40	-15.52	Pass	H
1823.98	147	109	-49.96	-40	-9.96	Pass	H
3844.66	151	331	-50.45	-40	-10.45	Pass	H
5965.94	149	318	-43.47	-40	-3.47	Pass	H
6458.08	147	86	-44.78	-40	-4.78	Pass	H
8127.85	146	70	-48.72	-40	-8.72	Pass	H
1216.64	151	166	-55.97	-40	-15.97	Pass	V
1356.71	154	30	-61.21	-40	-21.21	Pass	V
3450.95	154	83	-47.94	-40	-7.94	Pass	V
3902.50	147	215	-50.98	-40	-10.98	Pass	V
5761.58	149	90	-45.07	-40	-5.07	Pass	V
6447.54	151	234	-44.95	-40	-4.95	Pass	V
Band 40B 39200 channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1414.64	152	332	-55.20	-40	-15.20	Pass	H
1678.06	153	344	-49.38	-40	-9.38	Pass	H
3843.43	155	115	-51.16	-40	-11.16	Pass	H
5908.05	147	294	-43.29	-40	-3.29	Pass	H
6575.95	147	33	-47.26	-40	-7.26	Pass	H
7992.90	147	138	-46.59	-40	-6.59	Pass	H
1163.84	154	226	-56.99	-40	-16.99	Pass	V
1433.40	147	55	-57.98	-40	-17.98	Pass	V
3523.52	148	6	-49.78	-40	-9.78	Pass	V
3773.13	147	13	-49.89	-40	-9.89	Pass	V
5871.06	154	324	-46.69	-40	-6.69	Pass	V
6603.13	153	118	-48.52	-40	-8.52	Pass	V

Band 40B 39225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1364.25	152	248	-59.08	-40	-19.08	Pass	H
1703.46	146	163	-50.99	-40	-10.99	Pass	H
3764.31	155	254	-49.03	-40	-9.03	Pass	H
5959.35	150	231	-43.73	-40	-3.73	Pass	H
6444.14	154	32	-49.20	-40	-9.20	Pass	H
7994.05	148	324	-43.57	-40	-3.57	Pass	H
1232.63	151	114	-56.71	-40	-16.71	Pass	V
1376.48	154	7	-58.59	-40	-18.59	Pass	V
3475.60	151	254	-51.89	-40	-11.89	Pass	V
3933.24	149	338	-50.01	-40	-10.01	Pass	V
5869.50	153	98	-48.50	-40	-8.50	Pass	V
6579.22	147	28	-42.76	-40	-2.76	Pass	V
16QAM							
Band 40B 39175 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1379.40	153	35	-54.37	-40	-14.37	Pass	H
1663.03	151	97	-49.74	-40	-9.74	Pass	H
3857.63	151	218	-50.50	-40	-10.50	Pass	H
5891.88	147	76	-46.23	-40	-6.23	Pass	H
6569.87	149	124	-49.15	-40	-9.15	Pass	H
8072.07	147	227	-46.25	-40	-6.25	Pass	H
1184.82	154	184	-59.29	-40	-19.29	Pass	V
1407.44	154	341	-62.65	-40	-22.65	Pass	V
3466.66	146	43	-52.10	-40	-12.10	Pass	V
3940.37	146	185	-48.81	-40	-8.81	Pass	V
5833.64	147	199	-47.78	-40	-7.78	Pass	V
6430.64	151	179	-48.85	-40	-8.85	Pass	V

Band 40B 39200channel/BW 5(middle channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1296.31	146	152	-52.96	-40	-12.96	Pass	H
1695.11	145	224	-47.97	-40	-7.97	Pass	H
3902.30	146	322	-46.45	-40	-6.45	Pass	H
5959.70	145	240	-44.81	-40	-4.81	Pass	H
6420.58	146	6	-45.86	-40	-5.86	Pass	H
7970.81	145	120	-44.49	-40	-4.49	Pass	H
1259.39	145	257	-57.65	-40	-17.65	Pass	V
1310.15	145	214	-60.54	-40	-20.54	Pass	V
3527.26	145	73	-54.08	-40	-14.08	Pass	V
3895.20	145	354	-50.76	-40	-10.76	Pass	V
5778.99	145	55	-48.27	-40	-8.27	Pass	V
6550.42	146	184	-44.91	-40	-4.91	Pass	V
Band 40B 39225 channel/BW 5(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1248.71	153	63	-53.99	-40	-13.99	Pass	H
1706.22	147	165	-50.59	-40	-10.59	Pass	H
3795.43	147	20	-47.93	-40	-7.93	Pass	H
5969.82	153	165	-45.81	-40	-5.81	Pass	H
6471.65	145	128	-47.86	-40	-7.86	Pass	H
8022.87	150	19	-46.79	-40	-6.79	Pass	H
1228.85	152	158	-59.12	-40	-19.12	Pass	V
1384.82	149	218	-61.41	-40	-21.41	Pass	V
3486.51	150	289	-49.90	-40	-9.90	Pass	V
3775.34	148	177	-51.62	-40	-11.62	Pass	V
5903.24	149	133	-51.19	-40	-11.19	Pass	V
6521.27	151	114	-46.30	-40	-6.30	Pass	V

Note:

21) 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.

22) 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.

QPSK

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.
1284.90	155	76	-58.44	-13	-45.44	Pass	H
1748.44	146	94	-47.49	-13	-34.49	Pass	H
3862.67	155	274	-46.91	-13	-33.91	Pass	H
5863.18	152	249	-44.06	-13	-31.06	Pass	H
6550.38	141	215	-44.89	-13	-31.89	Pass	H
8077.51	145	175	-44.25	-13	-31.25	Pass	H
1296.08	149	155	-54.13	-13	-41.13	Pass	V
1540.25	147	228	-59.79	-13	-46.79	Pass	V
3478.92	141	162	-50.13	-13	-37.13	Pass	V
3913.25	144	264	-53.15	-13	-40.15	Pass	V
5786.42	148	125	-49.35	-13	-36.35	Pass	V
6505.89	157	101	-45.16	-13	-32.16	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.
1282.05	150	70	-55.28	-13	-42.28	Pass	H
1799.59	146	273	-49.08	-13	-36.08	Pass	H
3893.66	150	181	-53.45	-13	-40.45	Pass	H
5881.01	146	354	-44.03	-13	-31.03	Pass	H
6383.06	149	312	-50.97	-13	-37.97	Pass	H
8065.53	151	330	-47.98	-13	-34.98	Pass	H
1246.11	149	255	-52.08	-13	-39.08	Pass	V
1444.06	148	270	-58.57	-13	-45.57	Pass	V
3520.75	147	154	-54.28	-13	-41.28	Pass	V
3897.98	148	134	-48.07	-13	-35.07	Pass	V
5838.49	150	346	-49.87	-13	-36.87	Pass	V
6612.36	150	35	-49.10	-13	-36.10	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.
1353.74	149	257	-57.88	-13	-44.88	Pass	H
1760.97	146	116	-49.43	-13	-36.43	Pass	H
3831.91	154	28	-42.77	-13	-29.77	Pass	H
5895.06	146	25	-42.84	-13	-29.84	Pass	H
6447.99	146	50	-42.11	-13	-29.11	Pass	H
7910.11	154	117	-46.32	-13	-33.32	Pass	H
1288.22	147	298	-55.09	-13	-42.09	Pass	V
1451.38	151	97	-57.42	-13	-44.42	Pass	V
3623.89	155	335	-50.78	-13	-37.78	Pass	V
3982.43	146	351	-47.09	-13	-34.09	Pass	V
5802.09	150	36	-43.25	-13	-30.25	Pass	V
6564.11	146	97	-48.86	-13	-35.86	Pass	V

16QAM

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.
1371.78	152	145	-58.25	-13	-45.25	Pass	H
1606.86	154	314	-46.23	-13	-33.23	Pass	H
3966.52	153	198	-46.23	-13	-33.23	Pass	H
5954.99	153	225	-46.84	-13	-33.84	Pass	H
6658.23	152	148	-43.13	-13	-30.13	Pass	H
7971.82	148	20	-41.00	-13	-28.00	Pass	H
1277.94	149	354	-49.76	-13	-36.76	Pass	V
1435.62	152	193	-57.70	-13	-44.70	Pass	V
3624.81	152	84	-48.81	-13	-35.81	Pass	V
3987.52	152	354	-50.09	-13	-37.09	Pass	V
5765.81	147	121	-46.81	-13	-33.81	Pass	V
6630.92	153	283	-48.85	-13	-35.85	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.
1376.17	155	334	-56.21	-13	-41.45	Pass	H
1696.68	152	236	-50.38	-13	-37.85	Pass	H
3777.64	152	34	-50.26	-13	-35.2	Pass	H
5904.16	146	217	-43.34	-13	-30.39	Pass	H
6500.08	154	307	-41.47	-13	-32.24	Pass	H
7965.26	155	93	-42.84	-13	-30.22	Pass	H
1106.09	152	219	-53.94	-13	-44.9	Pass	V
1426.44	149	201	-53.74	-13	-43.63	Pass	V
3496.56	147	243	-47.81	-13	-35.94	Pass	V
3940.36	153	167	-46.05	-13	-36.01	Pass	V
5850.72	152	348	-48.23	-13	-33.75	Pass	V
6515.21	146	232	-45.50	-13	-32.41	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.
1310.85	148	3	-56.51	-13	-43.51	Pass	H
1679.98	155	21	-46.00	-13	-33.00	Pass	H
3810.70	154	26	-42.84	-13	-29.84	Pass	H
5831.38	155	294	-39.64	-13	-26.64	Pass	H
6478.48	153	146	-43.65	-13	-30.65	Pass	H
8120.92	152	28	-44.05	-13	-31.05	Pass	H
1303.79	151	109	-56.49	-13	-43.49	Pass	V
1530.80	155	163	-60.03	-13	-47.03	Pass	V
3526.47	155	233	-47.79	-13	-34.79	Pass	V
3784.63	152	177	-51.18	-13	-38.18	Pass	V
5853.23	154	195	-46.90	-13	-33.90	Pass	V
6566.42	148	186	-42.10	-13	-29.10	Pass	V

Note:

23) 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.

24) 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=DC4V; Low Voltage LV=DC3.6; High Voltage HV=DC4.4V
Please refer to Appendix 2: Frequency Stability
Test result: Pass

※※※※※ **END OF REPORT** ※※※※※