TEST REPORT

Product Name:	WALKIETALKIE
FCC ID:	2BD8I-G1
Trademark:	global-ptt
Model Number:	G1, G0, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, V1, V2, V3, V4, V5, G300, G318, G388, G500, G5288, P0, P1, P2, P3, P4, P5, GA1, GA2, GA3, GA4, GA5, GD1, GD2, GD3, GD4, GD5, GC1, GC2, GC3, GC4, GC5, GF1, GF2, GF3, GF4, GF5, GP1, GP2, GP3, GP4, GP5, H1, H2, H3, H4, H5, E1, E2, E3, E4, E5, W1, W2, W3, W4, W5, M1, M2, M3, M4, M5
Prepared For:	Quanzhou Wurui Electronics Co., Ltd.
Address:	No. 6, Xiaguang 4th, Xiamei Village, Xiamei Town, Nanan City, Quanzhou City, Fujian Province, China
Manufacturer:	Quanzhou Wurui Electronics Co., Ltd.
Address:	No. 6, Xiaguang 4th, Xiamei Village, Xiamei Town, Nanan City, Quanzhou City, Fujian Province, China
Prepared By:	Shenzhen CTB Testing Technology Co., Ltd.
Address:	1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	Mar. 21, 2024
Sample tested Date:	Mar. 21, 2024 to Jun. 17, 2024
Issue Date:	Jun. 17, 2024
Report No.:	CTB240418005RFX
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
CTB240418005RFX	Jun. 17, 2024	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):	G1, G0, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17, G18, G19, G20, V1, V2, V3, V4, V5, G300, G318, G388, G500, G5288, P0, P1, P2, P3, P4, P5, GA1, GA2, GA3, GA4, GA5, GD1, GD2, GD3, GD4, GD5, GC1, GC2, GC3, GC4, GC5, GF1, GF2, GF3, GF4, GF5, GP1, GP2, GP3, GP4, GP5, H1, H2, H3, H4, H5, E1, E2, E3, E4, E5, W1, W2, W3, W4, W5, M1, M2, M3, M4, M5
Model Description:	All the model are the same circuit and RF module, only different for model name. Test sample model: G1
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 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: 2496-2690MHz
Max. RF output power:	FDD-LTE BAND 2: 23.72dBm FDD-LTE BAND 4: 21.48dBm FDD-LTE BAND 5: 24.56dBm FDD-LTE BAND 7: 19.74dBm FDD-LTE BAND 12: 19.69dBm FDD-LTE BAND 13: 17.84dBm FDD-LTE BAND 17: 19.42dBm TDD-LTE BAND 38: 24.08dBm TDD-LTE BAND 40A: 20.83dBm TDD-LTE BAND 40B: 21.75dBm TDD-LTE BAND 41: 25.63dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	Internal antenna
Antenna Gain:	FDD-LTE BAND 2: 2.0dBi FDD-LTE BAND 4: 1.9dBi FDD-LTE BAND 5: -0.8dBi FDD-LTE BAND 7: 1.7dBi FDD-LTE BAND 12: -2.2dBi FDD-LTE BAND 13: -2.1Bi FDD-LTE BAND 17: -2.3dBi

TDD-LTE BAND 38: 1.8dBi
TDD-LTE BAND 40A: 1.7dBi
TDD-LTE BAND 40B: 1.7dBi
TDD-LTE BAND 41: 1.8dBi

Ratings: Adapter: INPUT: 110-240V AC50/60Hz Max 0.15A
OUTPUT: 5V⎓1A
DC 3.7V 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
1	AC/DC ADAPTER	/	SML-B2101.01	/	/

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

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)	Number [UL]	Frequency of Uplink(MHz)
LTE band 38	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 40 a	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 40 b	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	Bandwidth (MHz)	Number [UL]	Frequency of Uplink(MHz)
FDD band 41	Low Range	5	40265	2557.5
		10	40290	2560
		15	40315	2562.5
		20	40340	2565
	Mid Range	5/10/15/20	40740	2605
	High Range	5	41215	2652.5
		10	41190	2650
		15	41165	2647.5
		20	41140	2645

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):	3.7V
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	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2024.07.05
4	Communication test set	R&S	CMW500	108058	V3.5.80	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 （E1962B ）	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-5850MS-1155	20181015001	/	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2024.07.06
12	BT&WI-FI Automatic test software	Micowave	MTS8000	Ver. 2.0.0.0	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2024.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2024.07.05
15	234G Automatic test software	Micowave	MTS8200	Ver. 2.0.0.0	/	/
16	966 chamber	C.R.T.	966	/	/	2024.08.11
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 （104489/003）	2024.07.05
18	Amplifier	HP	8447E	2945A02747	/	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	/	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2024.07.08
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2024.07.08

22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2024.07.08
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2024.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	/	2024.07.05

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.

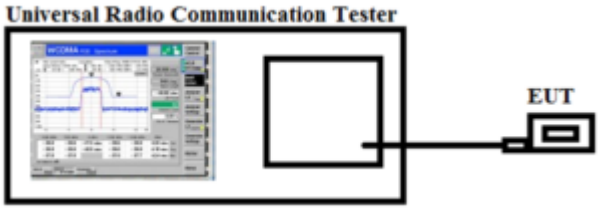
According to §27.50(h)(2), Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

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

Conducted output power

Please refer to Appendix 1: power

Test result: Pass

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

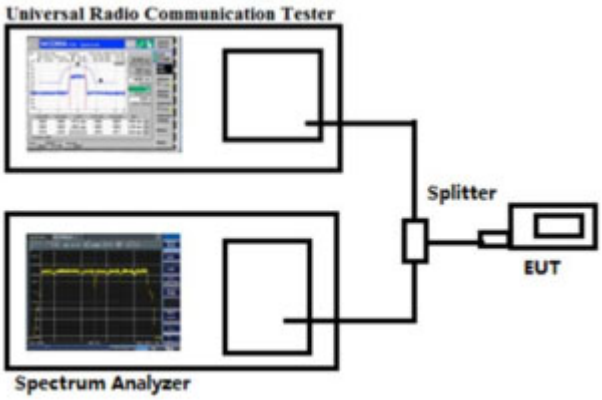
8.1 Standard Applicable

According to §22.913(d),
Power measurement. Measurement of the ERP of Cellular base transmitters and repeaters must be made using 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 B: 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.

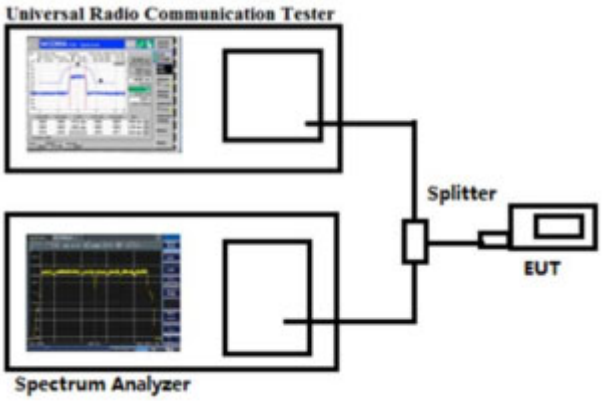
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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 C: 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;

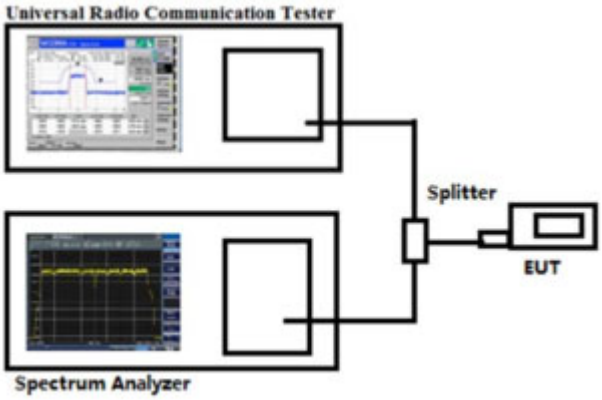
(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(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 D & E: 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.
1391.86	143	23	-57.85	-13	-44.85	Pass	H
1721.32	152	300	-52.04	-13	-39.04	Pass	H
3851.45	160	103	-50.37	-13	-37.37	Pass	H
5780.26	142	98	-44.24	-13	-31.24	Pass	H
6574.38	142	52	-42.80	-13	-29.80	Pass	H
7942.25	159	310	-49.27	-13	-36.27	Pass	H
1154.50	155	56	-57.29	-13	-44.29	Pass	V
1452.27	154	358	-60.21	-13	-47.21	Pass	V
3471.82	155	147	-53.15	-13	-40.15	Pass	V
3831.56	151	22	-50.83	-13	-37.83	Pass	V
5721.25	158	164	-45.72	-13	-32.72	Pass	V
6552.68	160	235	-49.16	-13	-36.16	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.
1224.17	150	146	-54.96	-13	-41.96	Pass	H
1664.31	146	57	-52.69	-13	-39.69	Pass	H
3953.36	150	159	-51.53	-13	-38.53	Pass	H
5820.09	146	25	-46.89	-13	-33.89	Pass	H
6440.40	149	148	-51.62	-13	-38.62	Pass	H
7997.56	151	18	-49.20	-13	-36.20	Pass	H
1218.73	149	21	-56.76	-13	-43.76	Pass	V
1461.18	148	216	-61.80	-13	-48.80	Pass	V
3493.35	147	243	-55.43	-13	-42.43	Pass	V
3836.01	148	166	-50.88	-13	-37.88	Pass	V
5839.37	150	24	-50.61	-13	-37.61	Pass	V
6589.93	150	167	-49.00	-13	-36.00	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.
1393.80	150	343	-55.69	-13	-42.69	Pass	H
1802.23	146	317	-51.46	-13	-38.46	Pass	H
3806.91	150	70	-50.35	-13	-37.35	Pass	H
5796.31	146	338	-47.24	-13	-34.24	Pass	H
6528.40	149	34	-51.13	-13	-38.13	Pass	H
8057.30	151	175	-48.51	-13	-35.51	Pass	H
1319.49	149	141	-51.42	-13	-38.42	Pass	V
1336.72	148	19	-59.33	-13	-46.33	Pass	V
3505.62	147	133	-53.29	-13	-40.29	Pass	V
3997.83	148	183	-52.92	-13	-39.92	Pass	V
5739.85	150	120	-46.54	-13	-33.54	Pass	V
6508.51	150	259	-48.30	-13	-35.30	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.
1263.88	150	117	-57.64	-13	-44.64	Pass	H
1778.04	146	81	-51.77	-13	-38.77	Pass	H
3915.77	150	106	-53.18	-13	-40.18	Pass	H
5897.67	146	259	-44.41	-13	-31.41	Pass	H
6531.99	149	242	-47.06	-13	-34.06	Pass	H
7981.71	151	23	-50.45	-13	-37.45	Pass	H
1223.26	149	139	-54.22	-13	-41.22	Pass	V
1348.62	148	126	-58.94	-13	-45.94	Pass	V
3648.94	147	27	-54.08	-13	-41.08	Pass	V
3872.75	148	287	-51.80	-13	-38.80	Pass	V
5730.81	150	78	-50.72	-13	-37.72	Pass	V
6553.90	150	160	-46.38	-13	-33.38	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.
1386.67	150	317	-53.67	-13	-40.67	Pass	H
1752.22	146	259	-49.80	-13	-36.80	Pass	H
3948.03	150	351	-49.01	-13	-36.01	Pass	H
5925.33	146	332	-45.98	-13	-32.98	Pass	H
6382.05	149	287	-46.58	-13	-33.58	Pass	H
8040.00	151	211	-46.97	-13	-33.97	Pass	H
1331.24	149	53	-54.09	-13	-41.09	Pass	V
1449.72	148	139	-61.21	-13	-48.21	Pass	V
3619.54	147	130	-53.79	-13	-40.79	Pass	V
3893.70	148	116	-50.01	-13	-37.01	Pass	V
5744.18	150	246	-50.79	-13	-37.79	Pass	V
6591.24	150	280	-47.01	-13	-34.01	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.
1218.18	150	37	-56.49	-13	-43.49	Pass	H
1639.63	146	200	-50.31	-13	-37.31	Pass	H
3887.45	150	245	-49.60	-13	-36.60	Pass	H
5866.43	146	195	-44.86	-13	-31.86	Pass	H
6395.86	149	13	-49.31	-13	-36.31	Pass	H
8040.96	151	315	-46.40	-13	-33.40	Pass	H
1136.66	149	123	-53.66	-13	-40.66	Pass	V
1478.73	148	54	-56.90	-13	-43.90	Pass	V
3615.82	147	204	-56.05	-13	-43.05	Pass	V
3966.69	148	231	-52.13	-13	-39.13	Pass	V
5745.13	150	150	-51.04	-13	-38.04	Pass	V
6561.20	150	256	-48.75	-13	-35.75	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.
1363.23	160	75	-57.25	-13	-44.25	Pass	H
1588.40	142	274	-49.53	-13	-36.53	Pass	H
3882.96	144	182	-46.09	-13	-33.09	Pass	H
5967.42	140	185	-44.48	-13	-31.48	Pass	H
6547.86	157	56	-45.93	-13	-32.93	Pass	H
8151.60	155	319	-43.49	-13	-30.49	Pass	H
1238.89	145	130	-54.28	-13	-41.28	Pass	V
1465.73	157	6	-59.18	-13	-46.18	Pass	V
3582.97	148	76	-52.68	-13	-39.68	Pass	V
3776.27	149	93	-52.46	-13	-39.46	Pass	V
5792.57	148	195	-45.97	-13	-32.97	Pass	V
6642.84	153	319	-47.90	-13	-34.90	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.
1198.13	150	119	-55.81	-13	-42.81	Pass	H
1433.22	146	69	-53.15	-13	-40.15	Pass	H
3931.08	150	20	-53.26	-13	-40.26	Pass	H
5907.19	146	259	-47.71	-13	-34.71	Pass	H
6535.08	149	211	-51.16	-13	-38.16	Pass	H
8037.86	151	182	-45.53	-13	-32.53	Pass	H
1284.75	149	182	-55.66	-13	-42.66	Pass	V
1309.67	148	39	-61.61	-13	-48.61	Pass	V
3497.27	147	145	-52.92	-13	-39.92	Pass	V
3888.30	148	172	-53.92	-13	-40.92	Pass	V
5734.69	150	59	-48.09	-13	-35.09	Pass	V
6546.55	150	162	-46.03	-13	-33.03	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.
1386.64	154	68	-55.01	-13	-42.01	Pass	H
1694.06	151	235	-50.85	-13	-37.85	Pass	H
3782.38	150	321	-47.06	-13	-34.06	Pass	H
5832.59	154	56	-39.21	-13	-26.21	Pass	H
6583.96	153	153	-41.62	-13	-28.62	Pass	H
7949.01	155	284	-47.27	-13	-34.27	Pass	H
1264.68	152	227	-55.64	-13	-42.64	Pass	V
1402.85	146	205	-58.39	-13	-45.39	Pass	V
3558.56	151	354	-50.39	-13	-37.39	Pass	V
3960.84	155	332	-48.49	-13	-35.49	Pass	V
5800.97	152	299	-44.19	-13	-31.19	Pass	V
6531.37	147	79	-47.70	-13	-34.70	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.
1269.12	149	240	-58.53	-13	-45.53	Pass	H
1628.56	151	174	-44.95	-13	-31.95	Pass	H
3892.26	152	164	-49.90	-13	-36.90	Pass	H
5969.40	145	341	-46.07	-13	-33.07	Pass	H
6485.42	149	303	-43.71	-13	-30.71	Pass	H
8071.13	151	170	-42.58	-13	-29.58	Pass	H
1147.98	153	295	-54.06	-13	-41.06	Pass	V
1428.99	149	353	-55.54	-13	-42.54	Pass	V
3612.51	147	136	-50.39	-13	-37.39	Pass	V
3932.32	149	358	-50.59	-13	-37.59	Pass	V
5782.04	153	233	-43.74	-13	-30.74	Pass	V
6623.82	154	207	-48.74	-13	-35.74	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.
1371.68	149	85	-57.16	-13	-44.16	Pass	H
1599.12	148	17	-47.08	-13	-34.08	Pass	H
3885.86	148	296	-44.80	-13	-31.80	Pass	H
5869.52	146	295	-40.51	-13	-27.51	Pass	H
6482.84	146	298	-47.32	-13	-34.32	Pass	H
8080.68	145	37	-43.83	-13	-30.83	Pass	H
1191.77	149	287	-59.06	-13	-46.06	Pass	V
1297.83	146	139	-53.24	-13	-40.24	Pass	V
3611.58	151	322	-46.20	-13	-33.20	Pass	V
3914.26	148	191	-46.69	-13	-33.69	Pass	V
5899.17	147	91	-45.55	-13	-32.55	Pass	V
6466.71	150	288	-45.89	-13	-32.89	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.
1388.81	148	162	-53.88	-13	-40.88	Pass	H
1702.36	147	309	-52.46	-13	-39.46	Pass	H
3944.55	147	172	-40.78	-13	-27.78	Pass	H
5847.00	152	346	-38.89	-13	-25.89	Pass	H
6595.15	154	179	-44.16	-13	-31.16	Pass	H
8040.57	151	292	-43.78	-13	-30.78	Pass	H
1220.63	154	107	-57.39	-13	-44.39	Pass	V
1486.82	146	298	-55.26	-13	-42.26	Pass	V
3562.06	151	263	-47.69	-13	-34.69	Pass	V
3868.08	155	29	-50.20	-13	-37.20	Pass	V
5794.65	146	15	-50.74	-13	-37.74	Pass	V
6461.27	146	239	-47.08	-13	-34.08	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.

QPSK

Band 5 20407 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1344.70	154	283	-58.93	-13	-45.93	Pass	H
1647.13	154	202	-51.34	-13	-38.34	Pass	H
3962.83	159	167	-48.15	-13	-35.15	Pass	H
5871.63	144	200	-44.74	-13	-31.74	Pass	H
6411.88	156	189	-43.83	-13	-30.83	Pass	H
8117.81	154	30	-43.01	-13	-30.01	Pass	H
1181.97	151	203	-55.31	-13	-42.31	Pass	V
1494.41	152	317	-56.26	-13	-43.26	Pass	V
3444.79	141	241	-48.21	-13	-35.21	Pass	V
3783.66	145	78	-49.80	-13	-36.80	Pass	V
5846.90	147	64	-46.59	-13	-33.59	Pass	V
6596.45	140	341	-46.49	-13	-33.49	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.
1257.71	150	212	-53.43	-13	-40.43	Pass	H
1659.67	146	143	-50.68	-13	-37.68	Pass	H
3944.84	150	350	-52.02	-13	-39.02	Pass	H
5879.08	146	3	-45.83	-13	-32.83	Pass	H
6515.30	149	53	-50.73	-13	-37.73	Pass	H
7963.34	151	105	-45.58	-13	-32.58	Pass	H
1203.25	149	144	-56.48	-13	-43.48	Pass	V
1336.55	148	279	-62.03	-13	-49.03	Pass	V
3630.35	147	325	-52.68	-13	-39.68	Pass	V
3967.44	148	322	-52.07	-13	-39.07	Pass	V
5896.41	150	165	-48.40	-13	-35.40	Pass	V
6502.39	150	218	-46.13	-13	-33.13	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.
1359.13	148	160	-59.17	-13	-46.17	Pass	H
1583.92	153	336	-52.38	-13	-39.38	Pass	H
3935.62	146	71	-47.52	-13	-34.52	Pass	H
5859.69	148	214	-42.39	-13	-29.39	Pass	H
6578.94	154	27	-40.76	-13	-27.76	Pass	H
7983.89	151	174	-45.84	-13	-32.84	Pass	H
1345.71	145	9	-58.63	-13	-45.63	Pass	V
1489.97	146	254	-59.58	-13	-46.58	Pass	V
3487.63	149	80	-52.01	-13	-39.01	Pass	V
3836.99	154	82	-47.22	-13	-34.22	Pass	V
5698.34	148	80	-42.68	-13	-29.68	Pass	V
6570.25	148	80	-50.56	-13	-37.56	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.
1352.39	150	229	-60.42	-13	-47.42	Pass	H
1761.49	147	101	-44.59	-13	-31.59	Pass	H
3845.03	149	110	-48.70	-13	-35.70	Pass	H
5893.77	150	326	-45.19	-13	-32.19	Pass	H
6468.85	153	158	-45.66	-13	-32.66	Pass	H
8037.88	145	97	-39.71	-13	-26.71	Pass	H
1219.77	150	336	-50.04	-13	-37.04	Pass	V
1521.54	155	208	-58.46	-13	-45.46	Pass	V
3594.85	145	12	-54.38	-13	-41.38	Pass	V
3896.86	147	328	-49.93	-13	-36.93	Pass	V
5853.21	147	354	-43.41	-13	-30.41	Pass	V
6622.30	153	183	-49.87	-13	-36.87	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.
1265.68	155	34	-51.34	-13	-41.45	Pass	H
1687.11	151	9	-51.91	-13	-37.85	Pass	H
3864.19	153	120	-45.76	-13	-35.2	Pass	H
6027.27	149	65	-40.34	-13	-30.39	Pass	H
6513.46	152	282	-42.90	-13	-32.24	Pass	H
8051.78	147	345	-44.46	-13	-30.22	Pass	H
1171.97	147	240	-57.00	-13	-44.9	Pass	V
1471.28	149	324	-55.56	-13	-43.63	Pass	V
3441.19	148	30	-45.40	-13	-35.94	Pass	V
3825.41	147	98	-50.01	-13	-36.01	Pass	V
5746.24	150	73	-46.87	-13	-33.75	Pass	V
6603.50	148	248	-43.58	-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.
1403.08	149	91	-53.72	-13	-40.72	Pass	H
1681.47	148	136	-49.98	-13	-36.98	Pass	H
3889.84	150	158	-40.53	-13	-27.53	Pass	H
5977.15	148	345	-39.80	-13	-26.80	Pass	H
6421.21	150	186	-44.24	-13	-31.24	Pass	H
8036.39	153	84	-47.88	-13	-34.88	Pass	H
1248.83	150	32	-57.30	-13	-44.30	Pass	V
1449.08	145	55	-57.10	-13	-44.10	Pass	V
3536.23	146	182	-48.02	-13	-35.02	Pass	V
3761.19	148	134	-50.91	-13	-37.91	Pass	V
5814.09	155	29	-51.77	-13	-38.77	Pass	V
6656.18	149	347	-43.54	-13	-30.54	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.
1427.85	151	282	-56.52	-13	-43.52	Pass	H
1633.32	146	152	-47.92	-13	-34.92	Pass	H
3931.48	149	242	-49.33	-13	-36.33	Pass	H
5922.68	152	277	-41.41	-13	-28.41	Pass	H
6539.33	150	190	-39.78	-13	-26.78	Pass	H
8117.78	152	151	-42.43	-13	-29.43	Pass	H
1149.21	147	297	-55.24	-13	-42.24	Pass	V
1438.74	154	189	-58.72	-13	-45.72	Pass	V
3542.73	153	329	-49.79	-13	-36.79	Pass	V
3940.77	153	283	-48.94	-13	-35.94	Pass	V
5817.99	146	252	-43.96	-13	-30.96	Pass	V
6466.90	153	184	-42.49	-13	-29.49	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.
1417.96	150	19	-51.83	-13	-38.83	Pass	H
1665.11	149	349	-50.97	-13	-37.97	Pass	H
3839.93	151	36	-43.61	-13	-30.61	Pass	H
6008.34	150	70	-44.73	-13	-31.73	Pass	H
6435.08	145	295	-46.38	-13	-33.38	Pass	H
8061.05	148	250	-46.95	-13	-33.95	Pass	H
1168.68	148	307	-54.28	-13	-41.28	Pass	V
1322.60	155	69	-56.33	-13	-43.33	Pass	V
3580.53	151	174	-50.97	-13	-37.97	Pass	V
3815.75	146	277	-44.53	-13	-31.53	Pass	V
5847.23	146	26	-44.24	-13	-31.24	Pass	V
6425.32	147	158	-46.71	-13	-33.71	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.
1381.86	148	204	-55.64	-13	-42.64	Pass	H
1694.45	147	193	-50.15	-13	-37.15	Pass	H
3887.93	147	11	-46.75	-13	-33.75	Pass	H
5889.29	148	171	-43.90	-13	-30.90	Pass	H
6453.48	154	16	-43.13	-13	-30.13	Pass	H
8067.22	145	73	-44.69	-13	-31.69	Pass	H
1168.34	152	133	-54.33	-13	-41.33	Pass	V
1356.40	147	76	-58.75	-13	-45.75	Pass	V
3632.90	153	350	-49.92	-13	-36.92	Pass	V
3804.89	145	216	-44.55	-13	-31.55	Pass	V
5815.11	147	3	-44.22	-13	-31.22	Pass	V
6586.55	147	60	-43.30	-13	-30.30	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.
1321.43	149	41	-54.44	-13	-41.44	Pass	H
1751.22	151	235	-51.16	-13	-38.16	Pass	H
3764.03	150	246	-49.39	-13	-36.39	Pass	H
5837.75	146	166	-42.64	-13	-29.64	Pass	H
6520.59	147	28	-43.18	-13	-30.18	Pass	H
8098.30	148	286	-44.54	-13	-31.54	Pass	H
1185.79	147	40	-60.18	-13	-47.18	Pass	V
1358.71	151	182	-59.29	-13	-46.29	Pass	V
3528.46	154	124	-50.44	-13	-37.44	Pass	V
3783.48	152	142	-48.94	-13	-35.94	Pass	V
5762.45	152	70	-45.73	-13	-32.73	Pass	V
6419.62	151	326	-45.73	-13	-32.73	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.
1331.56	146	282	-55.07	-13	-42.07	Pass	H
1667.05	154	25	-49.10	-13	-36.10	Pass	H
3810.21	150	156	-47.86	-13	-34.86	Pass	H
5848.68	154	123	-41.45	-13	-28.45	Pass	H
6494.37	146	153	-40.98	-13	-27.98	Pass	H
8076.23	147	180	-46.68	-13	-33.68	Pass	H
1158.00	148	190	-60.06	-13	-47.06	Pass	V
1377.26	149	141	-61.86	-13	-48.86	Pass	V
3519.14	149	249	-46.69	-13	-33.69	Pass	V
3883.58	150	347	-45.59	-13	-32.59	Pass	V
5890.59	150	171	-46.54	-13	-33.54	Pass	V
6560.26	154	296	-43.02	-13	-30.02	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.
1412.67	150	160	-54.44	-13	-41.44	Pass	H
1751.95	147	120	-46.98	-13	-33.98	Pass	H
3818.57	152	248	-48.07	-13	-35.07	Pass	H
5866.89	148	215	-40.94	-13	-27.94	Pass	H
6587.35	150	189	-44.35	-13	-31.35	Pass	H
8124.58	155	218	-48.23	-13	-35.23	Pass	H
1220.10	149	217	-59.22	-13	-46.22	Pass	V
1344.75	152	27	-60.84	-13	-47.84	Pass	V
3606.88	152	152	-48.90	-13	-35.90	Pass	V
3788.21	149	104	-49.76	-13	-36.76	Pass	V
5810.41	153	266	-45.78	-13	-32.78	Pass	V
6581.67	151	328	-45.94	-13	-32.94	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.
1283.89	152	7	-52.89	-13	-39.89	Pass	H
1809.69	149	203	-49.73	-13	-36.73	Pass	H
3896.90	151	31	-45.27	-13	-32.27	Pass	H
5907.33	146	62	-42.85	-13	-29.85	Pass	H
6551.15	150	40	-45.11	-13	-32.11	Pass	H
8037.23	150	49	-47.68	-13	-34.68	Pass	H
1239.27	150	125	-60.44	-13	-47.44	Pass	V
1401.17	146	7	-58.75	-13	-45.75	Pass	V
3574.94	153	8	-51.04	-13	-38.04	Pass	V
3759.59	151	68	-49.19	-13	-36.19	Pass	V
5761.44	154	323	-44.09	-13	-31.09	Pass	V
6541.76	149	264	-41.91	-13	-28.91	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.
1333.54	154	149	-56.28	-13	-43.28	Pass	H
1648.76	153	165	-45.00	-13	-32.00	Pass	H
3927.44	148	190	-44.86	-13	-31.86	Pass	H
5940.99	147	249	-38.44	-13	-25.44	Pass	H
6526.87	153	235	-44.16	-13	-31.16	Pass	H
8122.92	147	24	-43.91	-13	-30.91	Pass	H
1215.58	154	18	-59.14	-13	-46.14	Pass	V
1388.43	151	240	-61.04	-13	-48.04	Pass	V
3523.79	146	49	-50.76	-13	-37.76	Pass	V
3891.27	148	49	-45.62	-13	-32.62	Pass	V
5876.38	154	219	-46.43	-13	-33.43	Pass	V
6599.32	155	316	-43.38	-13	-30.38	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.
1356.39	154	121	-52.27	-13	-39.27	Pass	H
1804.90	151	282	-50.60	-13	-37.60	Pass	H
3838.48	153	46	-47.41	-13	-34.41	Pass	H
5833.60	154	105	-41.61	-13	-28.61	Pass	H
6594.58	150	259	-44.17	-13	-31.17	Pass	H
7998.75	154	114	-47.44	-13	-34.44	Pass	H
1179.72	150	36	-56.17	-13	-43.17	Pass	V
1480.01	153	358	-59.23	-13	-46.23	Pass	V
3609.64	149	253	-51.70	-13	-38.70	Pass	V
3917.31	153	73	-45.31	-13	-32.31	Pass	V
5842.88	152	105	-45.91	-13	-32.91	Pass	V
6604.97	148	127	-43.06	-13	-30.06	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.
1375.97	151	238	-51.97	-13	-38.97	Pass	H
1774.46	149	315	-46.46	-13	-33.46	Pass	H
3793.12	153	15	-47.34	-13	-34.34	Pass	H
5931.38	155	221	-43.67	-13	-30.67	Pass	H
6541.34	146	239	-40.71	-13	-27.71	Pass	H
8032.27	154	224	-47.64	-13	-34.64	Pass	H
1231.66	151	141	-54.63	-13	-41.63	Pass	V
1454.85	148	118	-56.54	-13	-43.54	Pass	V
3454.04	152	358	-51.83	-13	-38.83	Pass	V
3775.03	146	117	-50.19	-13	-37.19	Pass	V
5755.04	150	208	-42.51	-13	-29.51	Pass	V
6522.35	146	140	-48.52	-13	-35.52	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.
1381.87	147	181	-56.97	-13	-43.97	Pass	H
1818.19	154	103	-50.92	-13	-37.92	Pass	H
3795.85	149	107	-48.12	-13	-35.12	Pass	H
5834.16	151	110	-42.69	-13	-29.69	Pass	H
6553.56	146	51	-41.40	-13	-28.40	Pass	H
8017.42	148	188	-47.10	-13	-34.10	Pass	H
1093.89	146	81	-59.60	-13	-46.60	Pass	V
1381.87	154	190	-58.92	-13	-45.92	Pass	V
3503.88	149	359	-45.20	-13	-32.20	Pass	V
3795.55	146	312	-48.05	-13	-35.05	Pass	V
5890.68	154	80	-44.16	-13	-31.16	Pass	V
6540.06	147	100	-42.47	-13	-29.47	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.
1329.00	148	253	-55.17	-13	-42.17	Pass	H
1728.02	152	44	-49.63	-13	-36.63	Pass	H
3907.16	146	75	-45.68	-13	-32.68	Pass	H
5923.26	146	278	-38.21	-13	-25.21	Pass	H
6442.28	153	277	-41.43	-13	-28.43	Pass	H
8116.09	152	216	-44.36	-13	-31.36	Pass	H
1092.42	151	265	-57.81	-13	-44.81	Pass	V
1433.37	152	354	-56.43	-13	-43.43	Pass	V
3485.90	147	240	-47.71	-13	-34.71	Pass	V
3772.02	151	111	-46.85	-13	-33.85	Pass	V
5768.63	147	51	-43.99	-13	-30.99	Pass	V
6505.10	151	142	-47.10	-13	-34.10	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.
1227.45	149	165	-55.36	-25	-30.36	Pass	H
1787.05	146	208	-47.11	-25	-22.11	Pass	H
3980.63	146	4	-47.60	-25	-22.60	Pass	H
5864.12	150	198	-40.58	-25	-15.58	Pass	H
6554.17	146	341	-40.71	-25	-15.71	Pass	H
8076.67	150	235	-41.81	-25	-16.81	Pass	H
1213.45	146	292	-53.67	-25	-28.67	Pass	V
1492.57	150	158	-58.92	-25	-33.92	Pass	V
3575.39	149	55	-49.74	-25	-24.74	Pass	V
3775.66	150	319	-52.56	-25	-27.56	Pass	V
5797.29	146	118	-43.60	-25	-18.60	Pass	V
6632.41	150	155	-46.48	-25	-21.48	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.
1252.85	149	165	-57.67	-25	-32.67	Pass	H
1600.99	146	208	-44.48	-25	-19.48	Pass	H
3847.58	146	4	-44.46	-25	-19.46	Pass	H
5866.37	150	198	-46.04	-25	-21.04	Pass	H
6596.48	146	341	-41.79	-25	-16.79	Pass	H
8048.25	150	235	-46.30	-25	-21.30	Pass	H
1188.62	146	292	-58.02	-25	-33.02	Pass	V
1300.30	150	158	-57.10	-25	-32.10	Pass	V
3492.27	149	55	-48.49	-25	-23.49	Pass	V
3805.53	150	319	-48.45	-25	-23.45	Pass	V
5926.50	146	118	-50.21	-25	-25.21	Pass	V
6668.70	150	155	-43.37	-25	-18.37	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.
1369.46	149	165	-57.67	-25	-32.67	Pass	H
1847.02	146	208	-49.07	-25	-24.07	Pass	H
3826.08	146	4	-41.49	-25	-16.49	Pass	H
5753.47	150	198	-45.66	-25	-20.66	Pass	H
6672.24	146	341	-42.61	-25	-17.61	Pass	H
7934.64	150	235	-43.54	-25	-18.54	Pass	H
1132.62	146	292	-54.78	-25	-29.78	Pass	V
1530.45	150	158	-56.30	-25	-31.30	Pass	V
3578.63	149	55	-51.34	-25	-26.34	Pass	V
4007.52	150	319	-47.53	-25	-22.53	Pass	V
5869.78	146	118	-43.17	-25	-18.17	Pass	V
6650.56	150	155	-48.52	-25	-23.52	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.
1310.01	149	165	-53.59	-25	-28.59	Pass	H
1686.74	146	208	-43.92	-25	-18.92	Pass	H
3869.86	146	4	-49.91	-25	-24.91	Pass	H
5958.16	150	198	-42.00	-25	-17.00	Pass	H
6550.47	146	341	-40.93	-25	-15.93	Pass	H
8035.86	150	235	-42.69	-25	-17.69	Pass	H
1208.13	146	292	-50.61	-25	-25.61	Pass	V
1389.21	150	158	-57.83	-25	-32.83	Pass	V
3439.56	149	55	-51.93	-25	-26.93	Pass	V
3754.96	150	319	-49.88	-25	-24.88	Pass	V
5722.44	146	118	-49.38	-25	-24.38	Pass	V
6484.11	150	155	-45.63	-25	-20.63	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.
1348.27	152	250	-50.35	-25	-25.35	Pass	H
1726.88	155	1	-49.15	-25	-24.15	Pass	H
3698.95	147	105	-40.33	-25	-15.33	Pass	H
5884.95	149	302	-43.09	-25	-18.09	Pass	H
6641.81	151	329	-43.32	-25	-18.32	Pass	H
7934.04	147	192	-41.86	-25	-16.86	Pass	H
1142.64	147	107	-56.59	-25	-31.59	Pass	V
1352.52	154	58	-60.45	-25	-35.45	Pass	V
3548.50	149	183	-50.27	-25	-25.27	Pass	V
3765.33	152	246	-45.92	-25	-20.92	Pass	V
5876.80	147	263	-48.83	-25	-23.83	Pass	V
6610.63	152	126	-42.64	-25	-17.64	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.
1371.62	149	165	-57.96	-25	-32.96	Pass	H
1825.72	146	208	-44.10	-25	-19.10	Pass	H
3828.30	146	4	-44.52	-25	-19.52	Pass	H
5985.96	150	198	-39.97	-25	-14.97	Pass	H
6539.78	146	341	-42.17	-25	-17.17	Pass	H
8114.25	150	235	-39.83	-25	-14.83	Pass	H
1029.22	146	292	-54.89	-25	-29.89	Pass	V
1395.57	150	158	-56.23	-25	-31.23	Pass	V
3519.08	149	55	-53.10	-25	-28.10	Pass	V
3791.54	150	319	-50.83	-25	-25.83	Pass	V
5773.75	146	118	-46.64	-25	-21.64	Pass	V
6498.70	150	155	-44.92	-25	-19.92	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.
1364.01	146	293	-54.59	-13	-41.59	Pass	H
1665.34	155	114	-49.95	-13	-36.95	Pass	H
3939.70	146	20	-49.42	-13	-36.42	Pass	H
5911.82	152	117	-44.38	-13	-31.38	Pass	H
6417.19	145	53	-43.96	-13	-30.96	Pass	H
8117.39	150	287	-43.14	-13	-30.14	Pass	H
1218.98	150	23	-55.50	-13	-42.50	Pass	V
1313.20	152	339	-56.04	-13	-43.04	Pass	V
3458.11	153	256	-47.62	-13	-34.62	Pass	V
3851.98	153	179	-50.57	-13	-37.57	Pass	V
5813.29	150	150	-44.86	-13	-31.86	Pass	V
6477.98	152	288	-44.95	-13	-31.95	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.
1335.82	153	302	-52.62	-13	-39.62	Pass	H
1654.71	149	40	-45.64	-13	-32.64	Pass	H
3908.12	146	93	-49.34	-13	-36.34	Pass	H
5830.07	154	237	-43.84	-13	-30.84	Pass	H
6507.05	145	90	-42.91	-13	-29.91	Pass	H
7997.64	154	360	-45.34	-13	-32.34	Pass	H
1271.62	148	279	-60.12	-13	-47.12	Pass	V
1424.00	151	201	-60.55	-13	-47.55	Pass	V
3440.00	154	311	-46.37	-13	-33.37	Pass	V
3863.76	153	35	-48.36	-13	-35.36	Pass	V
5798.98	155	236	-44.60	-13	-31.60	Pass	V
6598.21	153	260	-44.68	-13	-31.68	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.
1270.44	153	15	-53.91	-13	-40.91	Pass	H
1764.64	149	27	-45.21	-13	-32.21	Pass	H
3901.49	150	263	-50.34	-13	-37.34	Pass	H
5898.84	151	130	-39.40	-13	-26.40	Pass	H
6440.99	151	343	-46.15	-13	-33.15	Pass	H
7987.87	146	243	-47.60	-13	-34.60	Pass	H
1273.71	146	62	-58.38	-13	-45.38	Pass	V
1480.38	152	291	-59.15	-13	-46.15	Pass	V
3530.42	148	331	-51.14	-13	-38.14	Pass	V
3884.85	151	62	-43.87	-13	-30.87	Pass	V
5856.00	149	270	-44.76	-13	-31.76	Pass	V
6442.43	147	360	-45.18	-13	-32.18	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.
1307.57	148	153	-50.85	-13	-37.85	Pass	H
1681.07	146	161	-50.18	-13	-37.18	Pass	H
3767.17	152	250	-43.75	-13	-30.75	Pass	H
5904.98	152	29	-43.63	-13	-30.63	Pass	H
6555.69	151	103	-44.55	-13	-31.55	Pass	H
8070.65	153	72	-48.10	-13	-35.10	Pass	H
1182.10	149	355	-56.25	-13	-43.25	Pass	V
1413.66	150	132	-60.37	-13	-47.37	Pass	V
3559.32	151	19	-51.70	-13	-38.70	Pass	V
3930.99	155	280	-49.81	-13	-36.81	Pass	V
5874.28	155	265	-40.37	-13	-27.37	Pass	V
6565.70	151	203	-46.45	-13	-33.45	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.
1240.06	152	353	-54.98	-13	-41.98	Pass	H
1637.40	146	271	-44.90	-13	-31.90	Pass	H
3837.54	148	59	-47.63	-13	-34.63	Pass	H
6018.17	152	279	-45.01	-13	-32.01	Pass	H
6461.96	149	350	-45.17	-13	-32.17	Pass	H
8083.36	151	222	-45.47	-13	-32.47	Pass	H
1173.74	147	98	-55.48	-13	-42.48	Pass	V
1394.65	153	12	-60.74	-13	-47.74	Pass	V
3549.04	154	289	-45.01	-13	-32.01	Pass	V
3900.00	147	64	-44.40	-13	-31.40	Pass	V
5824.60	149	74	-46.36	-13	-33.36	Pass	V
6459.00	155	183	-48.56	-13	-35.56	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.
1363.25	152	108	-54.92	-13	-41.92	Pass	H
1803.79	148	181	-50.88	-13	-37.88	Pass	H
3777.19	155	244	-45.16	-13	-32.16	Pass	H
5920.64	146	41	-40.52	-13	-27.52	Pass	H
6523.34	154	308	-43.78	-13	-30.78	Pass	H
8105.41	148	3	-43.82	-13	-30.82	Pass	H
1251.77	146	349	-58.71	-13	-45.71	Pass	V
1354.26	147	249	-55.73	-13	-42.73	Pass	V
3548.66	150	11	-45.24	-13	-32.24	Pass	V
3914.97	146	49	-48.60	-13	-35.60	Pass	V
5749.94	148	316	-40.15	-13	-27.15	Pass	V
6564.31	148	128	-46.72	-13	-33.72	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.
1429.77	150	115	-57.55	-13	-44.55	Pass	H
1765.50	154	64	-50.12	-13	-37.12	Pass	H
3948.34	150	224	-47.65	-13	-34.65	Pass	H
5914.12	146	177	-42.24	-13	-29.24	Pass	H
6611.02	155	346	-47.27	-13	-34.27	Pass	H
8034.10	146	278	-41.89	-13	-28.89	Pass	H
1235.26	149	144	-53.17	-13	-40.17	Pass	V
1479.33	151	229	-57.25	-13	-44.25	Pass	V
3689.35	155	9	-48.87	-13	-35.87	Pass	V
3929.83	153	46	-51.00	-13	-38.00	Pass	V
5759.23	149	3	-48.24	-13	-35.24	Pass	V
6485.29	148	105	-49.56	-13	-36.56	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.
1398.55	150	227	-54.55	-13	-41.55	Pass	H
1818.94	147	260	-47.68	-13	-34.68	Pass	H
3943.59	154	242	-45.52	-13	-32.52	Pass	H
6011.42	148	164	-38.33	-13	-25.33	Pass	H
6414.36	150	165	-46.14	-13	-33.14	Pass	H
8091.87	152	268	-47.14	-13	-34.14	Pass	H
1158.10	148	106	-59.82	-13	-46.82	Pass	V
1358.61	153	288	-57.76	-13	-44.76	Pass	V
3586.74	150	199	-50.31	-13	-37.31	Pass	V
3784.75	153	54	-43.82	-13	-30.82	Pass	V
5818.93	151	11	-40.46	-13	-27.46	Pass	V
6595.28	152	159	-47.77	-13	-34.77	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.
1287.52	149	165	-51.20	-13	-38.20	Pass	H
1678.35	146	208	-49.74	-13	-36.74	Pass	H
3801.94	146	4	-40.77	-13	-27.77	Pass	H
5919.28	150	198	-40.30	-13	-27.30	Pass	H
6458.84	146	341	-44.61	-13	-31.61	Pass	H
8042.65	150	235	-44.79	-13	-31.79	Pass	H
1242.63	146	292	-57.25	-13	-44.25	Pass	V
1432.75	150	158	-54.91	-13	-41.91	Pass	V
3624.00	149	55	-52.13	-13	-39.13	Pass	V
3782.07	150	319	-46.31	-13	-33.31	Pass	V
5745.62	146	118	-45.79	-13	-32.79	Pass	V
6593.89	150	155	-51.22	-13	-38.22	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.
1395.32	150	78	-58.90	-13	-45.90	Pass	H
1760.48	149	291	-52.06	-13	-39.06	Pass	H
3855.40	151	213	-49.48	-13	-36.48	Pass	H
5827.78	150	89	-45.05	-13	-32.05	Pass	H
6448.92	151	329	-45.24	-13	-32.24	Pass	H
7897.71	148	138	-48.97	-13	-35.97	Pass	H
1222.40	149	99	-60.27	-13	-47.27	Pass	V
1510.96	148	217	-55.77	-13	-42.77	Pass	V
3649.95	150	12	-52.12	-13	-39.12	Pass	V
3881.18	150	137	-46.86	-13	-33.86	Pass	V
5842.51	146	356	-48.77	-13	-35.77	Pass	V
6533.89	146	95	-48.92	-13	-35.92	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.
1390.69	150	142	-53.36	-13	-40.36	Pass	H
1701.38	146	280	-53.25	-13	-40.25	Pass	H
3912.83	150	330	-49.84	-13	-36.84	Pass	H
5824.16	146	194	-43.58	-13	-30.58	Pass	H
6464.14	149	260	-48.12	-13	-35.12	Pass	H
7930.45	151	31	-48.36	-13	-35.36	Pass	H
1324.01	149	4	-54.37	-13	-41.37	Pass	V
1429.98	148	257	-60.47	-13	-47.47	Pass	V
3527.16	147	55	-54.80	-13	-41.80	Pass	V
3882.07	148	273	-52.29	-13	-39.29	Pass	V
5897.88	150	136	-50.31	-13	-37.31	Pass	V
6488.20	150	16	-46.33	-13	-33.33	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.
1244.06	149	156	-53.76	-13	-40.76	Pass	H
1650.36	149	170	-52.71	-13	-39.71	Pass	H
3802.63	149	127	-47.40	-13	-34.40	Pass	H
5871.75	146	42	-40.77	-13	-27.77	Pass	H
6491.41	147	69	-43.88	-13	-30.88	Pass	H
7985.75	151	110	-43.66	-13	-30.66	Pass	H
1200.53	148	61	-54.45	-13	-41.45	Pass	V
1380.48	147	266	-50.28	-13	-37.28	Pass	V
3470.36	148	303	-52.24	-13	-39.24	Pass	V
3894.19	149	195	-47.36	-13	-34.36	Pass	V
5700.92	147	323	-45.66	-13	-32.66	Pass	V
6519.00	146	325	-45.81	-13	-32.81	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 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.
1344.26	147	287	-55.70	-40	-15.70	Pass	H
1642.39	145	299	-48.76	-40	-8.76	Pass	H
3850.11	150	48	-51.93	-40	-11.93	Pass	H
5934.00	150	49	-43.19	-40	-3.19	Pass	H
6539.12	147	91	-46.68	-40	-6.68	Pass	H
7965.27	148	129	-43.91	-40	-3.91	Pass	H
1202.76	150	183	-53.05	-40	-13.05	Pass	V
1465.64	149	266	-57.14	-40	-17.14	Pass	V
3586.57	154	289	-48.53	-40	-8.53	Pass	V
3794.68	153	178	-45.17	-40	-5.17	Pass	V
5844.62	152	182	-43.14	-40	-3.14	Pass	V
6481.70	148	173	-48.22	-40	-8.22	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.
1394.69	146	197	-58.07	-40	-18.07	Pass	H
1646.88	153	113	-53.55	-40	-13.55	Pass	H
3894.61	149	168	-50.89	-40	-10.89	Pass	H
5984.24	151	139	-45.90	-40	-5.90	Pass	H
6436.70	146	358	-47.46	-40	-7.46	Pass	H
8147.69	153	294	-43.00	-40	-3.00	Pass	H
1193.38	151	11	-60.11	-40	-20.11	Pass	V
1334.04	150	214	-59.61	-40	-19.61	Pass	V
3581.93	149	37	-50.07	-40	-10.07	Pass	V
3878.66	154	212	-49.39	-40	-9.39	Pass	V
5756.44	155	320	-49.53	-40	-9.53	Pass	V
6534.22	151	141	-45.30	-40	-5.30	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.
1388.16	147	13	-54.12	-40	-14.12	Pass	H
1780.80	148	96	-48.67	-40	-8.67	Pass	H
3913.90	145	115	-50.71	-40	-10.71	Pass	H
5920.23	150	57	-45.75	-40	-5.75	Pass	H
6547.79	147	334	-44.81	-40	-4.81	Pass	H
7969.59	149	58	-48.10	-40	-8.10	Pass	H
1174.98	154	233	-60.76	-40	-20.76	Pass	V
1388.09	150	297	-62.91	-40	-22.91	Pass	V
3501.76	145	90	-51.91	-40	-11.91	Pass	V
3943.63	147	356	-51.82	-40	-11.82	Pass	V
5880.04	150	84	-49.01	-40	-9.01	Pass	V
6496.35	149	298	-47.71	-40	-5.68	Pass	V

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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.
1367.37	151	58	-54.87	-40	-14.87	Pass	H
1723.91	147	26	-49.27	-40	-9.27	Pass	H
3943.86	151	175	-49.81	-40	-9.81	Pass	H
6023.76	149	220	-47.78	-40	-7.78	Pass	H
6563.35	148	65	-47.39	-40	-7.39	Pass	H
7959.89	150	234	-43.34	-40	-3.34	Pass	H
1223.55	149	203	-58.32	-40	-18.32	Pass	V
1387.22	147	334	-58.90	-40	-18.90	Pass	V
3453.54	153	6	-53.38	-40	-13.38	Pass	V
3844.28	155	55	-51.57	-40	-11.57	Pass	V
5731.48	148	0	-47.93	-40	-7.93	Pass	V
6429.84	152.01	276.97	-46.57	-40	-6.57	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.
1250.07	154	307	-57.76	-40	-17.76	Pass	H
1809.77	145	208	-49.02	-40	-9.02	Pass	H
3907.53	151	80	-51.04	-40	-11.04	Pass	H
5875.22	150	250	-46.92	-40	-6.92	Pass	H
6523.32	153	35	-48.06	-40	-8.06	Pass	H
8038.77	153	218	-43.81	-40	-3.81	Pass	H
1197.62	154	191	-56.08	-40	-16.08	Pass	V
1395.72	152	138	-60.64	-40	-20.64	Pass	V
3610.81	153	242	-50.34	-40	-10.34	Pass	V
3800.86	153	254	-51.51	-40	-11.51	Pass	V
5727.19	150	323	-43.88	-40	-3.88	Pass	V
6436.55	153	118	-46.75	-40	-6.75	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.
1432.59	146	62	-57.93	-40	-17.93	Pass	H
1805.85	145	139	-49.78	-40	-9.78	Pass	H
3922.65	150	10	-49.26	-40	-9.26	Pass	H
5912.04	152	269	-44.54	-40	-4.54	Pass	H
6557.92	149	148	-48.24	-40	-8.24	Pass	H
8125.85	151	234	-41.93	-40	-1.93	Pass	H
1176.72	150	236	-56.68	-40	-16.68	Pass	V
1407.67	149	226	-59.90	-40	-19.90	Pass	V
3549.76	148	91	-50.27	-40	-10.27	Pass	V
3765.65	148	334	-45.94	-40	-5.94	Pass	V
5822.95	152	234	-46.86	-40	-6.86	Pass	V
6516.95	153	139	-47.85	-40	-7.85	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.

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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.
1419.01	152	307	-54.87	-40	-14.87	Pass	H
1692.65	151	352	-48.90	-40	-8.90	Pass	H
3781.38	145	320	-47.43	-40	-7.43	Pass	H
5923.05	154	155	-43.94	-40	-3.94	Pass	H
6428.08	148	261	-48.18	-40	-8.18	Pass	H
8041.75	149	252	-48.23	-40	-8.23	Pass	H
1164.81	149	338	-58.48	-40	-18.48	Pass	V
1436.51	154	341	-62.44	-40	-22.44	Pass	V
3448.80	149	149	-46.58	-40	-6.58	Pass	V
3853.90	145	360	-49.58	-40	-9.58	Pass	V
5854.10	146	344	-45.04	-40	-5.04	Pass	V
6565.88	152	43	-44.06	-40	-4.06	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.
1264.78	150	180	-54.68	-40	-14.68	Pass	H
1800.91	153	281	-49.52	-40	-9.52	Pass	H
3905.82	145	0	-51.09	-40	-11.09	Pass	H
5991.47	150	153	-46.81	-40	-6.81	Pass	H
6474.05	152	217	-47.69	-40	-7.69	Pass	H
8027.29	152	48	-43.27	-40	-3.27	Pass	H
1222.04	152	210	-58.12	-40	-18.12	Pass	V
1369.70	147	181	-57.08	-40	-17.08	Pass	V
3441.04	148	103	-51.35	-40	-11.35	Pass	V
3837.46	148	243	-53.36	-40	-13.36	Pass	V
5778.76	155	166	-45.44	-40	-5.44	Pass	V
6568.73	152	7	-48.45	-40	-8.45	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.
1310.11	152	253	-56.60	-40	-16.60	Pass	H
1714.49	150	250	-52.01	-40	-12.01	Pass	H
3779.91	153	314	-50.56	-40	-10.56	Pass	H
5876.64	151	269	-44.06	-40	-4.06	Pass	H
6495.24	154	33	-47.58	-40	-7.58	Pass	H
8126.59	154	174	-43.34	-40	-3.34	Pass	H
1139.43	153	271	-56.96	-40	-16.96	Pass	V
1468.41	153	270	-59.05	-40	-19.05	Pass	V
3565.02	153	244	-53.16	-40	-13.16	Pass	V
3904.29	147	47	-50.16	-40	-10.16	Pass	V
5891.11	155	75	-46.21	-40	-6.21	Pass	V
6620.08	150	200	-44.35	-40	-4.35	Pass	V

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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.
1244.14	152	236	-53.37	-40	-13.37	Pass	H
1728.15	152	252	-47.49	-40	-7.49	Pass	H
3917.36	152	43	-50.69	-40	-10.69	Pass	H
5981.93	150	250	-43.81	-40	-3.81	Pass	H
6458.55	154	259	-48.83	-40	-8.83	Pass	H
8084.36	150	193	-44.70	-40	-4.70	Pass	H
1133.75	155	192	-60.11	-40	-20.11	Pass	V
1431.62	153	279	-61.78	-40	-21.78	Pass	V
3497.72	147	255	-53.44	-40	-13.44	Pass	V
3920.52	148	191	-48.19	-40	-8.19	Pass	V
5746.32	147	211	-48.22	-40	-8.22	Pass	V
6429.48	153	121	-48.97	-40	-8.97	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.
1243.08	145	127	-54.04	-40	-14.04	Pass	H
1714.39	146	158	-45.94	-40	-5.94	Pass	H
3929.73	146	70	-48.97	-40	-8.97	Pass	H
6003.53	146	105	-46.09	-40	-6.09	Pass	H
6540.81	146	55	-45.51	-40	-5.51	Pass	H
8005.42	146	215	-44.44	-40	-4.44	Pass	H
1257.88	146	327	-60.88	-40	-20.88	Pass	V
1305.41	146	226	-61.12	-40	-21.12	Pass	V
3531.64	146	245	-52.98	-40	-12.98	Pass	V
3894.36	145	245	-50.03	-40	-10.03	Pass	V
5775.98	145	325	-49.94	-40	-9.94	Pass	V
6474.40	146	238	-47.70	-40	-7.70	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.
1367.47	155	72	-52.19	-40	-12.19	Pass	H
1652.13	148	272	-48.30	-40	-8.30	Pass	H
3766.07	149	220	-46.73	-40	-6.73	Pass	H
5972.62	150	265	-45.18	-40	-5.18	Pass	H
6467.40	154	184	-49.09	-40	-9.09	Pass	H
8019.64	150	220	-47.29	-40	-7.29	Pass	H
1160.02	145	42	-57.81	-40	-17.81	Pass	V
1416.67	146	356	-61.48	-40	-21.48	Pass	V
3444.83	148	125	-49.22	-40	-9.22	Pass	V
3811.71	147	302	-48.54	-40	-8.54	Pass	V
5790.41	154	219	-50.25	-40	-10.25	Pass	V
6493.14	149	182	-46.73	-40	-6.73	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.

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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.
1291.89	154	209	-60.54	-13	-47.54	Pass	H
1718.94	146	62	-47.18	-13	-34.18	Pass	H
3967.04	150	176	-51.06	-13	-38.06	Pass	H
5945.08	152	289	-43.50	-13	-30.50	Pass	H
6458.16	149	100	-45.28	-13	-32.28	Pass	H
7972.29	148	115	-40.19	-13	-27.19	Pass	H
1266.84	148	165	-51.03	-13	-38.03	Pass	V
1402.18	152	261	-54.81	-13	-41.81	Pass	V
3562.60	147	335	-49.02	-13	-36.02	Pass	V
3930.93	154	230	-49.29	-13	-36.29	Pass	V
5866.84	149	35	-42.31	-13	-29.31	Pass	V
6510.40	149	170	-50.06	-13	-37.06	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.
1280.58	146	119	-51.93	-13	-38.93	Pass	H
1642.49	149	204	-47.68	-13	-34.68	Pass	H
3862.46	147	106	-44.99	-13	-31.99	Pass	H
5958.78	149	249	-44.05	-13	-31.05	Pass	H
6540.54	145	174	-46.18	-13	-33.18	Pass	H
8151.06	155	156	-42.14	-13	-29.14	Pass	H
1125.16	146	147	-58.86	-13	-45.86	Pass	V
1335.93	146	91	-57.74	-13	-44.74	Pass	V
3505.36	154	61	-49.04	-13	-36.04	Pass	V
3760.01	153	164	-49.31	-13	-36.31	Pass	V
5803.43	153	97	-45.95	-13	-32.95	Pass	V
6465.34	151	250	-45.58	-13	-32.58	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.
1312.47	149	165	-56.00	-13	-43.00	Pass	H
1687.37	146	208	-49.53	-13	-36.53	Pass	H
3939.82	146	4	-46.66	-13	-33.66	Pass	H
5804.24	150	198	-39.34	-13	-26.34	Pass	H
6574.31	146	341	-41.79	-13	-28.79	Pass	H
8045.18	150	235	-40.42	-13	-27.42	Pass	H
1230.63	146	292	-54.43	-13	-41.43	Pass	V
1458.29	150	158	-56.37	-13	-43.37	Pass	V
3560.36	149	55	-52.54	-13	-39.54	Pass	V
3758.57	150	319	-45.66	-13	-32.66	Pass	V
5758.31	146	118	-44.21	-13	-31.21	Pass	V
6634.30	150	155	-47.49	-13	-34.49	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.
1273.49	150	78	-57.63	-13	-44.63	Pass	H
1767.13	149	291	-55.25	-13	-42.25	Pass	H
3957.81	151	213	-51.32	-13	-38.32	Pass	H
5895.47	150	89	-43.34	-13	-30.34	Pass	H
6415.82	151	329	-47.66	-13	-34.66	Pass	H
7969.94	148	138	-49.72	-13	-36.72	Pass	H
1130.94	149	99	-56.87	-13	-43.87	Pass	V
1430.60	148	217	-56.50	-13	-43.50	Pass	V
3580.07	150	12	-53.07	-13	-40.07	Pass	V
3755.31	150	137	-47.51	-13	-34.51	Pass	V
5857.37	146	356	-47.10	-13	-34.10	Pass	V
6615.13	146	95	-50.98	-13	-37.98	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.
1236.34	150	142	-59.82	-13	-46.82	Pass	H
1695.32	146	280	-55.38	-13	-42.38	Pass	H
3954.15	150	330	-48.41	-13	-35.41	Pass	H
5917.98	146	194	-44.78	-13	-31.78	Pass	H
6506.62	149	260	-47.38	-13	-34.38	Pass	H
7931.94	151	31	-47.10	-13	-34.10	Pass	H
1227.95	149	4	-55.23	-13	-42.23	Pass	V
1442.28	148	257	-59.64	-13	-46.64	Pass	V
3672.88	147	55	-52.24	-13	-39.24	Pass	V
3982.05	148	273	-50.56	-13	-37.56	Pass	V
5766.39	150	136	-53.32	-13	-40.32	Pass	V
6427.69	150	16	-51.72	-13	-38.72	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.
1334.56	149	156	-59.68	-13	-46.68	Pass	H
1653.08	149	170	-50.44	-13	-37.44	Pass	H
3792.20	149	127	-46.76	-13	-33.76	Pass	H
5860.55	146	42	-41.63	-13	-28.63	Pass	H
6476.86	147	69	-43.17	-13	-30.17	Pass	H
7986.85	151	110	-46.48	-13	-33.48	Pass	H
1184.75	148	61	-52.19	-13	-39.19	Pass	V
1340.97	147	266	-53.07	-13	-40.07	Pass	V
3518.70	148	303	-52.06	-13	-39.06	Pass	V
3835.00	149	195	-46.39	-13	-33.39	Pass	V
5697.96	147	323	-47.85	-13	-34.85	Pass	V
6532.12	146	325	-49.93	-13	-36.93	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.

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=DC5V; Low Voltage LV=DC4.5; High Voltage HV=DC5.5V
Please refer to Appendix 2: Frequency Stability
Test result: Pass

※※※※※ **END OF REPORT** ※※※※※