



TEST REPORT

Product Name: Xinli public network intercom
FCC ID: 2BK6D-G6S
Trademark: XINLIZP, AIRITON, WaurpHud, DuoMSera, OMIZN, eoev, X•loyoo
Model Number: G6S, G7S, G500S, OMI-M6, WH-G6, XL-G6S, K100S, V88, K180S, K200S, K280S, K320S, K350S, K90S, WWT01, XL-2, XL-3, XL-5, AI-G6
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Sample Received Date: Feb. 17, 2025
Sample tested Date: Feb. 17, 2025 to Apr. 13, 2025
Issue Date: Apr. 13, 2025
Report No.: CTB25032106803RF01
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

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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
CTB25032106803RF01	Apr. 13, 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

3. MEASUREMENT UNCERTAINTY

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

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

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	G6S, G7S, G500S, OMI-M6, WH-G6, XL-G6S, K100S, V88, K180S, K200S, K280S, K320S, K350S, K90S, WWT01, XL-2, XL-3, XL-5, AI-G6
Model Description:	All the model are the same circuit and RF module, only the model names are different. Test sample model: G6S
Hardware Version:	V0.1A
Software Version:	V008_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: 21.85dBm FDD-LTE BAND 4: 21.75dBm FDD-LTE BAND 5: 21.84dBm FDD-LTE BAND 7: 22.51dBm FDD-LTE BAND 12: 22.40dBm FDD-LTE BAND 13: 22.57dBm FDD-LTE BAND 17: 22.47dBm TDD-LTE BAND 38: 21.36dBm TDD-LTE BAND 40a: 19.73dBm TDD-LTE BAND 40b: 20.13dBm TDD-LTE BAND 41: 21.69dBm FDD-LTE BAND 66: 21.73dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	External antenna
Antenna Gain:	FDD-LTE BAND 2: 1.51dBi FDD-LTE BAND 4: 1.51dBi FDD-LTE BAND 5: 1.0dBi FDD-LTE BAND 7: 1.78dBi FDD-LTE BAND 12: 0.75dBi FDD-LTE BAND 13: 0.75dBi FDD-LTE BAND 17: 0.75dBi TDD-LTE BAND 38: 1.78dBi

TDD-LTE BAND 40a: 1.64dBi

TDD-LTE BAND 40b: 1.64dBi

TDD-LTE BAND 41: 1.78dBi

FDD-LTE BAND 66: 1.75dBi

Input: AC100-240V

Ratings:

Output: DC 5V

DC 4.2V 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):	4.2V
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

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

5.2 Test Instrument Used

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

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

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.

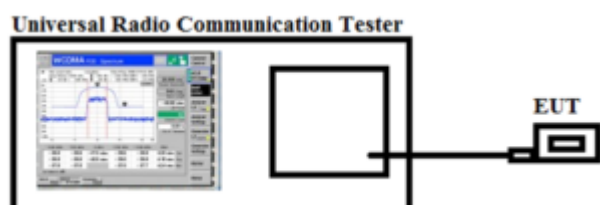
According to §27.50(h)(2), Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

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 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.

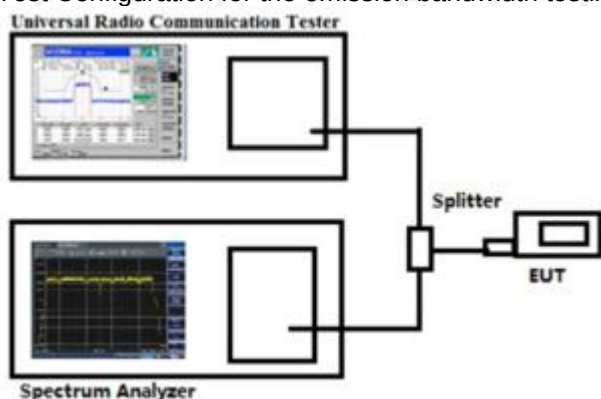
corresponding to the highest PAPR expected during periods of continuous transmission.

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 3: Peak-to-Average Ratio

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

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

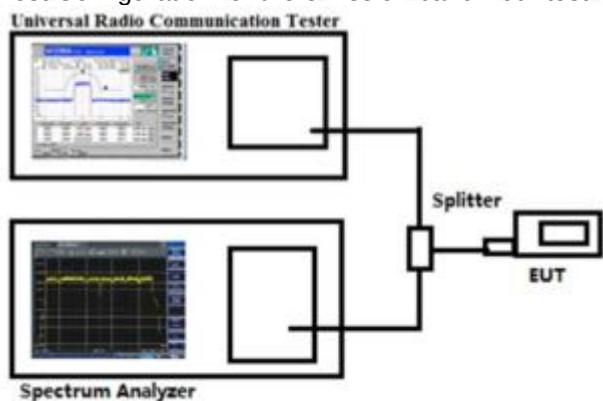
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

9.2 Test Procedure

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

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

Please refer to Appendix 4: 26dB Bandwidth and Occupied Bandwidth

Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

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

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

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

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

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;

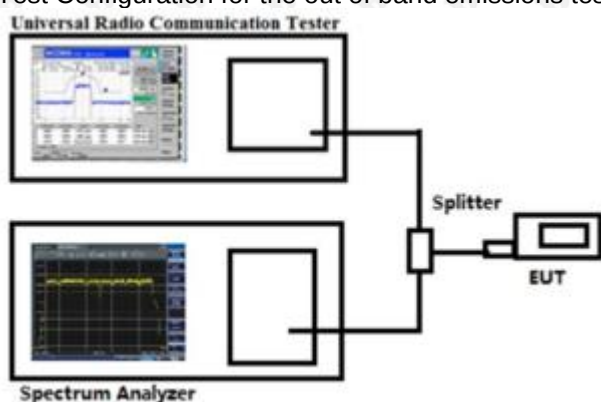
(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(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 $43 + 10 \log_{10}(P)$ dB.

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

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

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.
1255.25	153	327	-58.40	-13	-45.40	Pass	H
1694.12	151	99	-49.77	-13	-36.77	Pass	H
3969.61	151	295	-46.96	-13	-33.96	Pass	H
5944.26	140	11	-45.42	-13	-32.42	Pass	H
6542.31	156	179	-44.73	-13	-31.73	Pass	H
8021.03	146	347	-43.15	-13	-30.15	Pass	H
1158.68	154	220	-53.92	-13	-40.92	Pass	V
1434.92	150	259	-56.04	-13	-43.04	Pass	V
3514.02	143	342	-49.40	-13	-36.40	Pass	V
3874.84	149	40	-52.09	-13	-39.09	Pass	V
5771.72	142	17	-49.17	-13	-36.17	Pass	V
6650.18	148	297	-48.96	-13	-35.96	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.
1223.17	150	119	-57.56	-13	-44.56	Pass	H
1639.32	146	344	-50.04	-13	-37.04	Pass	H
3915.06	150	200	-52.16	-13	-39.16	Pass	H
5806.59	146	63	-43.24	-13	-30.24	Pass	H
6381.66	149	352	-46.62	-13	-33.62	Pass	H
8117.84	151	135	-51.38	-13	-38.38	Pass	H
1137.98	149	114	-56.48	-13	-43.48	Pass	V
1385.35	148	61	-58.89	-13	-45.89	Pass	V
3560.65	147	311	-53.39	-13	-40.39	Pass	V
3989.98	148	32	-50.59	-13	-37.59	Pass	V
5914.60	150	316	-46.58	-13	-33.58	Pass	V
6504.70	150	14	-45.94	-13	-32.94	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.
1253.69	148	285	-57.86	-13	-44.86	Pass	H
1726.46	147	335	-54.18	-13	-41.18	Pass	H
3913.57	153	115	-44.51	-13	-31.51	Pass	H
5944.26	149	333	-38.51	-13	-25.51	Pass	H
6604.17	146	210	-44.40	-13	-31.40	Pass	H
7945.12	150	306	-43.62	-13	-30.62	Pass	H
1357.24	154	59	-57.91	-13	-44.91	Pass	V
1472.03	147	264	-59.65	-13	-46.65	Pass	V
3452.22	148	60	-50.40	-13	-37.40	Pass	V
3983.99	152	312	-51.55	-13	-38.55	Pass	V
5747.61	152	78	-43.48	-13	-30.48	Pass	V
6648.49	151	254	-48.81	-13	-35.81	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.
1299.73	151	98	-59.02	-13	-46.02	Pass	H
1591.95	150	286	-50.31	-13	-37.31	Pass	H
3776.76	146	247	-49.28	-13	-36.28	Pass	H
5917.24	153	281	-44.24	-13	-31.24	Pass	H
6636.41	151	45	-42.27	-13	-29.27	Pass	H
8059.18	150	190	-41.48	-13	-28.48	Pass	H
1146.74	145	102	-49.53	-13	-36.53	Pass	V
1408.62	155	191	-53.53	-13	-40.53	Pass	V
3578.39	152	191	-53.33	-13	-40.33	Pass	V
3822.48	151	348	-52.60	-13	-39.60	Pass	V
5847.88	148	201	-44.27	-13	-31.27	Pass	V
6624.59	152	130	-46.67	-13	-33.67	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.
1282.52	151	53	-55.34	-13	-41.45	Pass	H
1694.57	155	244	-47.90	-13	-37.85	Pass	H
3831.87	154	243	-47.24	-13	-35.2	Pass	H
5860.35	147	331	-43.81	-13	-30.39	Pass	H
6528.03	150	174	-46.78	-13	-32.24	Pass	H
8146.48	151	274	-43.71	-13	-30.22	Pass	H
1185.65	153	198	-56.37	-13	-44.9	Pass	V
1363.49	149	340	-56.67	-13	-43.63	Pass	V
3599.17	149	131	-46.69	-13	-35.94	Pass	V
3761.98	149	217	-48.44	-13	-36.01	Pass	V
5738.80	149	69	-47.68	-13	-33.75	Pass	V
6490.30	150	13	-43.56	-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.
1355.84	149	257	-55.48	-13	-42.48	Pass	H
1797.12	145	167	-48.78	-13	-35.78	Pass	H
3907.14	153	148	-44.97	-13	-31.97	Pass	H
5937.64	151	332	-44.96	-13	-31.96	Pass	H
6597.76	145	290	-43.95	-13	-30.95	Pass	H
8008.05	151	163	-42.03	-13	-29.03	Pass	H
1167.04	154	143	-56.22	-13	-43.22	Pass	V
1531.13	153	207	-56.68	-13	-43.68	Pass	V
3523.20	148	117	-49.44	-13	-36.44	Pass	V
3825.00	150	83	-52.23	-13	-39.23	Pass	V
5713.91	152	190	-51.18	-13	-38.18	Pass	V
6649.52	147	155	-45.63	-13	-32.63	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.
1327.59	150	306	-58.44	-13	-45.44	Pass	H
1671.59	151	192	-43.52	-13	-30.52	Pass	H
3958.26	149	41	-47.55	-13	-34.55	Pass	H
5959.46	152	4	-42.34	-13	-29.34	Pass	H
6524.79	146	116	-42.83	-13	-29.83	Pass	H
7969.53	149	127	-43.72	-13	-30.72	Pass	H
1232.50	153	284	-54.44	-13	-41.44	Pass	V
1510.04	147	348	-55.38	-13	-42.38	Pass	V
3594.15	152	213	-48.82	-13	-35.82	Pass	V
3943.58	150	110	-51.06	-13	-38.06	Pass	V
5819.27	150	96	-41.68	-13	-28.68	Pass	V
6490.02	149	356	-45.39	-13	-32.39	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.
1242.22	149	126	-50.89	-13	-37.89	Pass	H
1704.34	150	254	-50.13	-13	-37.13	Pass	H
3900.18	153	224	-48.81	-13	-35.81	Pass	H
5847.17	150	136	-43.57	-13	-30.57	Pass	H
6515.78	152	131	-46.19	-13	-33.19	Pass	H
8071.92	145	347	-43.06	-13	-30.06	Pass	H
1204.75	154	262	-54.25	-13	-41.25	Pass	V
1372.28	147	95	-58.51	-13	-45.51	Pass	V
3596.25	147	68	-50.01	-13	-37.01	Pass	V
3803.73	145	161	-44.44	-13	-31.44	Pass	V
5745.09	150	313	-45.78	-13	-32.78	Pass	V
6612.21	153	309	-43.14	-13	-30.14	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.
1276.77	150	320	-53.64	-13	-40.64	Pass	H
1681.73	148	345	-49.72	-13	-36.72	Pass	H
3814.08	152	150	-46.61	-13	-33.61	Pass	H
5815.33	149	63	-42.13	-13	-29.13	Pass	H
6569.25	146	42	-41.17	-13	-28.17	Pass	H
8096.61	149	87	-38.74	-13	-25.74	Pass	H
1222.86	153	193	-52.22	-13	-39.22	Pass	V
1494.12	152	241	-56.06	-13	-43.06	Pass	V
3554.72	153	71	-47.64	-13	-34.64	Pass	V
3925.48	150	89	-49.27	-13	-36.27	Pass	V
5882.00	147	224	-49.11	-13	-36.11	Pass	V
6620.86	146	110	-46.54	-13	-33.54	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.
1424.62	148	295	-59.47	-13	-46.47	Pass	H
1660.24	151	136	-54.27	-13	-41.27	Pass	H
3892.51	145	41	-52.69	-13	-39.69	Pass	H
5877.75	149	169	-44.13	-13	-31.13	Pass	H
6518.31	155	78	-49.54	-13	-36.54	Pass	H
7956.66	152	261	-49.56	-13	-36.56	Pass	H
1155.58	152	271	-56.09	-13	-43.09	Pass	V
1378.03	149	146	-55.11	-13	-42.11	Pass	V
3514.35	149	206	-49.35	-13	-36.35	Pass	V
3910.98	146	123	-48.49	-13	-35.49	Pass	V
5827.72	147	49	-47.24	-13	-34.24	Pass	V
6594.09	154	120	-49.55	-13	-36.55	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.
1315.39	148	246	-59.21	-13	-46.21	Pass	H
1756.47	153	241	-55.92	-13	-42.92	Pass	H
3893.23	152	207	-48.56	-13	-35.56	Pass	H
5842.15	147	69	-44.23	-13	-31.23	Pass	H
6367.08	153	167	-51.01	-13	-38.01	Pass	H
8020.82	149	178	-44.64	-13	-31.64	Pass	H
1275.14	150	269	-52.48	-13	-39.48	Pass	V
1428.48	154	144	-62.99	-13	-49.99	Pass	V
3495.56	150	121	-49.03	-13	-36.03	Pass	V
3842.30	151	129	-55.39	-13	-42.39	Pass	V
5925.46	151	354	-50.30	-13	-37.30	Pass	V
6479.63	148	32	-48.39	-13	-35.39	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.
1322.41	148	300	-57.98	-13	-44.98	Pass	H
1648.84	153	269	-50.32	-13	-37.32	Pass	H
3772.01	152	205	-46.81	-13	-33.81	Pass	H
5849.45	148	159	-40.87	-13	-27.87	Pass	H
6518.13	146	157	-39.68	-13	-26.68	Pass	H
7944.22	152	357	-47.66	-13	-34.66	Pass	H
1253.14	151	170	-49.97	-13	-36.97	Pass	V
1321.70	149	130	-56.15	-13	-43.15	Pass	V
3443.61	149	310	-54.18	-13	-41.18	Pass	V
3811.91	153	240	-48.61	-13	-35.61	Pass	V
5718.61	146	288	-47.51	-13	-34.51	Pass	V
6526.02	153	58	-48.66	-13	-35.66	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.
1326.10	146	56	-55.79	-13	-42.79	Pass	H
1685.54	155	323	-49.47	-13	-36.47	Pass	H
3934.58	147	291	-48.46	-13	-35.46	Pass	H
5850.56	147	248	-42.46	-13	-29.46	Pass	H
6471.03	152	334	-44.37	-13	-31.37	Pass	H
8051.39	152	205	-43.38	-13	-30.38	Pass	H
1140.74	150	311	-56.86	-13	-43.86	Pass	V
1378.18	143	230	-60.42	-13	-47.42	Pass	V
3500.18	149	113	-50.36	-13	-37.36	Pass	V
3919.48	146	4	-51.81	-13	-38.81	Pass	V
5889.19	144	308	-47.83	-13	-34.83	Pass	V
6563.58	145	73	-48.27	-13	-35.27	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.
1362.16	150	309	-58.49	-13	-45.49	Pass	H
1682.74	146	103	-53.11	-13	-40.11	Pass	H
3868.43	150	156	-52.78	-13	-39.78	Pass	H
5849.46	146	36	-46.52	-13	-33.52	Pass	H
6552.57	149	184	-48.46	-13	-35.46	Pass	H
8029.15	151	82	-46.69	-13	-33.69	Pass	H
1223.02	149	168	-53.64	-13	-40.64	Pass	V
1335.69	148	106	-56.90	-13	-43.90	Pass	V
3671.49	147	171	-53.56	-13	-40.56	Pass	V
3886.77	148	22	-50.29	-13	-37.29	Pass	V
5832.22	150	65	-48.49	-13	-35.49	Pass	V
6461.27	150	34	-49.41	-13	-36.41	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.
1429.42	152	228	-55.85	-13	-42.85	Pass	H
1754.91	151	313	-53.07	-13	-40.07	Pass	H
3923.09	149	221	-48.15	-13	-35.15	Pass	H
5960.39	155	222	-38.75	-13	-25.75	Pass	H
6568.04	152	105	-42.01	-13	-29.01	Pass	H
8010.59	151	213	-45.65	-13	-32.65	Pass	H
1253.84	149	331	-54.25	-13	-41.25	Pass	V
1400.16	149	112	-54.25	-13	-41.25	Pass	V
3529.09	146	107	-53.01	-13	-40.01	Pass	V
3952.22	150	225	-50.12	-13	-37.12	Pass	V
5694.91	153	180	-41.54	-13	-28.54	Pass	V
6507.69	152	180	-45.48	-13	-32.48	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.
1271.54	151	89	-58.95	-13	-45.95	Pass	H
1615.39	147	10	-46.91	-13	-33.91	Pass	H
3771.88	145	291	-46.55	-13	-33.55	Pass	H
5966.73	148	218	-47.79	-13	-34.79	Pass	H
6466.48	147	167	-47.09	-13	-34.09	Pass	H
7982.23	147	245	-44.56	-13	-31.56	Pass	H
1081.42	147	298	-50.91	-13	-37.91	Pass	V
1373.56	146	18	-54.11	-13	-41.11	Pass	V
3637.42	145	166	-50.84	-13	-37.84	Pass	V
3887.68	151	90	-51.25	-13	-38.25	Pass	V
5932.70	146	352	-47.28	-13	-34.28	Pass	V
6530.98	146	355	-48.82	-13	-35.82	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.
1297.83	147	8	-52.02	-13	-41.45	Pass	H
1795.24	152	250	-53.23	-13	-37.85	Pass	H
3840.16	150	326	-51.16	-13	-35.2	Pass	H
5880.97	150	21	-42.30	-13	-30.39	Pass	H
6522.80	149	91	-46.57	-13	-32.24	Pass	H
8153.41	153	190	-40.44	-13	-30.22	Pass	H
1190.49	153	209	-56.72	-13	-44.9	Pass	V
1458.87	147	70	-58.89	-13	-43.63	Pass	V
3574.07	149	218	-49.73	-13	-35.94	Pass	V
3864.44	150	41	-47.96	-13	-36.01	Pass	V
5889.37	153	219	-45.68	-13	-33.75	Pass	V
6566.35	146	16	-45.70	-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.
1295.45	147	157	-58.24	-13	-45.24	Pass	H
1742.73	152	75	-48.94	-13	-35.94	Pass	H
3991.33	146	121	-41.85	-13	-28.85	Pass	H
5954.34	149	23	-44.85	-13	-31.85	Pass	H
6502.54	151	21	-41.71	-13	-28.71	Pass	H
8104.79	154	151	-48.49	-13	-35.49	Pass	H
1177.76	150	177	-55.34	-13	-42.34	Pass	V
1439.63	152	87	-60.95	-13	-47.95	Pass	V
3622.57	152	115	-50.67	-13	-37.67	Pass	V
3787.28	146	82	-53.46	-13	-40.46	Pass	V
5847.30	146	156	-51.51	-13	-38.51	Pass	V
6493.83	150	27	-43.70	-13	-30.70	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.
1354.41	154	147	-56.38	-13	-43.38	Pass	H
1744.49	153	71	-47.96	-13	-34.96	Pass	H
3817.33	146	4	-48.54	-13	-35.54	Pass	H
5949.79	146	274	-43.28	-13	-30.28	Pass	H
6497.24	147	100	-45.39	-13	-32.39	Pass	H
7931.86	155	134	-40.92	-13	-27.92	Pass	H
1280.33	154	112	-51.64	-13	-38.64	Pass	V
1472.65	149	238	-53.29	-13	-40.29	Pass	V
3541.11	149	172	-52.87	-13	-39.87	Pass	V
3935.02	150	139	-49.55	-13	-36.55	Pass	V
5925.31	147	42	-41.89	-13	-28.89	Pass	V
6659.30	147	68	-48.88	-13	-35.88	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.
1253.83	149	360	-52.89	-13	-39.89	Pass	H
1726.50	150	92	-50.83	-13	-37.83	Pass	H
3821.82	155	160	-46.32	-13	-33.32	Pass	H
5920.82	149	0	-41.61	-13	-28.61	Pass	H
6564.37	148	89	-42.02	-13	-29.02	Pass	H
8047.43	150	42	-47.34	-13	-34.34	Pass	H
1168.06	147	32	-60.34	-13	-47.34	Pass	V
1285.89	149	31	-62.16	-13	-49.16	Pass	V
3617.90	147	42	-49.29	-13	-36.29	Pass	V
3889.86	149	105	-44.39	-13	-31.39	Pass	V
5788.37	150	47	-41.03	-13	-28.03	Pass	V
6464.93	150	91	-45.30	-13	-32.30	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.
1428.68	147	176	-55.14	-13	-42.14	Pass	H
1679.41	153	347	-51.76	-13	-38.76	Pass	H
3953.42	147	85	-41.63	-13	-28.63	Pass	H
5977.01	145	309	-38.96	-13	-25.96	Pass	H
6461.00	155	157	-43.11	-13	-30.11	Pass	H
8040.61	149	209	-45.26	-13	-32.26	Pass	H
1163.89	147	29	-56.56	-13	-43.56	Pass	V
1485.67	148	247	-57.07	-13	-44.07	Pass	V
3587.93	149	66	-49.28	-13	-36.28	Pass	V
3768.56	146	77	-44.67	-13	-31.67	Pass	V
5840.60	146	351	-44.00	-13	-31.00	Pass	V
6557.06	153	101	-48.82	-13	-35.82	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.
1268.33	148	228	-58.39	-13	-45.39	Pass	H
1636.66	151	310	-53.64	-13	-40.64	Pass	H
3968.38	150	121	-50.21	-13	-37.21	Pass	H
5946.63	150	208	-44.05	-13	-31.05	Pass	H
6518.15	145	52	-49.98	-13	-36.98	Pass	H
7922.84	150	65	-46.23	-13	-33.23	Pass	H
1278.00	147	74	-57.12	-13	-44.12	Pass	V
1451.93	155	69	-56.76	-13	-43.76	Pass	V
3519.72	155	55	-50.52	-13	-37.52	Pass	V
3866.71	147	172	-45.56	-13	-32.56	Pass	V
5903.06	146	276	-46.65	-13	-33.65	Pass	V
6536.15	153	307	-46.93	-13	-33.93	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.
1370.54	154	93	-57.36	-13	-44.36	Pass	H
1761.19	150	259	-50.34	-13	-37.34	Pass	H
3945.40	153	290	-48.57	-13	-35.57	Pass	H
5914.22	147	249	-45.41	-13	-32.41	Pass	H
6503.99	149	358	-50.52	-13	-37.52	Pass	H
8094.37	152	309	-44.20	-13	-31.20	Pass	H
1168.60	150	282	-53.35	-13	-40.35	Pass	V
1396.27	152	86	-64.16	-13	-51.16	Pass	V
3493.99	146	164	-51.47	-13	-38.47	Pass	V
3827.34	149	160	-55.75	-13	-42.75	Pass	V
5787.58	151	288	-53.80	-13	-40.80	Pass	V
6537.56	150	125	-46.75	-13	-33.75	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.
1320.31	146	155	-54.59	-13	-41.59	Pass	H
1584.18	152	140	-50.21	-13	-37.21	Pass	H
3811.68	152	257	-44.28	-13	-31.28	Pass	H
5841.34	146	326	-40.30	-13	-27.30	Pass	H
6435.99	150	24	-40.01	-13	-27.01	Pass	H
7923.65	147	351	-43.28	-13	-30.28	Pass	H
1195.60	151	138	-54.36	-13	-41.36	Pass	V
1396.73	150	26	-55.74	-13	-42.74	Pass	V
3466.65	149	34	-49.37	-13	-36.37	Pass	V
3893.75	147	22	-43.82	-13	-30.82	Pass	V
5723.19	154	337	-44.14	-13	-31.14	Pass	V
6551.81	153	348	-45.61	-13	-32.61	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.
1408.73	154	133	-57.70	-13	-44.70	Pass	H
1732.93	155	13	-47.58	-13	-34.58	Pass	H
3979.48	157	88	-48.31	-13	-35.31	Pass	H
5959.66	158	313	-42.97	-13	-29.97	Pass	H
6598.99	141	163	-43.52	-13	-30.52	Pass	H
7987.40	154	46	-41.16	-13	-28.16	Pass	H
1179.17	150	155	-52.89	-13	-39.89	Pass	V
1405.81	144	22	-59.98	-13	-46.98	Pass	V
3625.95	152	208	-51.78	-13	-38.78	Pass	V
3906.36	144	121	-53.58	-13	-40.58	Pass	V
5741.94	148	11	-46.97	-13	-33.97	Pass	V
6473.40	153	75	-48.34	-13	-35.34	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.
1291.11	150	355	-58.88	-13	-45.88	Pass	H
1689.30	146	209	-52.74	-13	-39.74	Pass	H
3931.06	150	2	-51.51	-13	-38.51	Pass	H
5853.71	146	77	-44.11	-13	-31.11	Pass	H
6518.54	149	204	-48.41	-13	-35.41	Pass	H
8013.28	151	181	-47.91	-13	-34.91	Pass	H
1293.18	149	86	-52.91	-13	-39.91	Pass	V
1447.13	148	90	-56.32	-13	-43.32	Pass	V
3609.18	147	299	-53.76	-13	-40.76	Pass	V
3823.94	148	163	-50.42	-13	-37.42	Pass	V
5823.61	150	27	-50.93	-13	-37.93	Pass	V
6434.72	150	249	-45.45	-13	-32.45	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.
1291.68	150	284	-54.38	-13	-41.38	Pass	H
1767.64	148	293	-53.13	-13	-40.13	Pass	H
3881.44	146	246	-47.41	-13	-34.41	Pass	H
5873.48	150	298	-38.57	-13	-25.57	Pass	H
6611.69	151	29	-44.88	-13	-31.88	Pass	H
7967.46	150	160	-44.51	-13	-31.51	Pass	H
1259.43	147	11	-58.57	-13	-45.57	Pass	V
1479.63	146	31	-57.34	-13	-44.34	Pass	V
3511.61	153	43	-52.88	-13	-39.88	Pass	V
3987.35	154	48	-50.44	-13	-37.44	Pass	V
5833.06	152	149	-45.05	-13	-32.05	Pass	V
6675.35	147	158	-45.82	-13	-32.82	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.
1431.54	151	180	-61.50	-13	-48.50	Pass	H
1686.43	148	286	-44.88	-13	-31.88	Pass	H
3949.44	154	225	-51.17	-13	-38.17	Pass	H
5927.08	147	109	-43.55	-13	-30.55	Pass	H
6651.08	154	224	-43.18	-13	-30.18	Pass	H
8018.16	153	264	-44.37	-13	-31.37	Pass	H
1081.78	147	332	-55.17	-13	-42.17	Pass	V
1428.85	150	297	-52.64	-13	-39.64	Pass	V
3538.53	146	6	-54.39	-13	-41.39	Pass	V
3805.53	155	273	-49.04	-13	-36.04	Pass	V
5941.91	146	227	-43.09	-13	-30.09	Pass	V
6610.68	151	110	-48.27	-13	-35.27	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.
1335.29	152	44	-52.17	-13	-41.45	Pass	H
1788.60	155	28	-47.52	-13	-37.85	Pass	H
3815.24	153	55	-45.34	-13	-35.2	Pass	H
5858.16	150	255	-43.79	-13	-30.39	Pass	H
6562.02	152	309	-46.54	-13	-32.24	Pass	H
8128.97	151	292	-42.52	-13	-30.22	Pass	H
1288.85	152	284	-56.30	-13	-44.9	Pass	V
1326.16	152	294	-54.56	-13	-43.63	Pass	V
3494.52	147	356	-45.13	-13	-35.94	Pass	V
3825.20	150	252	-47.89	-13	-36.01	Pass	V
5736.55	145	61	-44.91	-13	-33.75	Pass	V
6427.37	150	90	-44.99	-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.
1402.89	154	335	-55.68	-13	-42.68	Pass	H
1791.68	153	95	-50.73	-13	-37.73	Pass	H
3931.98	150	236	-42.78	-13	-29.78	Pass	H
5923.20	152	49	-41.52	-13	-28.52	Pass	H
6412.11	154	102	-38.30	-13	-25.30	Pass	H
8010.12	149	56	-43.88	-13	-30.88	Pass	H
1177.73	146	173	-58.69	-13	-45.69	Pass	V
1507.10	151	173	-59.71	-13	-46.71	Pass	V
3558.64	155	245	-52.23	-13	-39.23	Pass	V
3925.30	151	327	-49.06	-13	-36.06	Pass	V
5896.31	146	79	-50.69	-13	-37.69	Pass	V
6583.43	150	124	-46.58	-13	-33.58	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.
1404.17	151	99	-55.71	-25	-30.71	Pass	H
1718.61	151	316	-50.44	-25	-25.44	Pass	H
3926.97	147	183	-44.29	-25	-19.29	Pass	H
5949.31	149	260	-40.26	-25	-15.26	Pass	H
6426.47	153	282	-39.77	-25	-14.77	Pass	H
8007.96	152	66	-42.85	-25	-17.85	Pass	H
1305.08	151	80	-53.63	-25	-28.63	Pass	V
1456.61	151	334	-56.29	-25	-31.29	Pass	V
3574.11	155	199	-54.33	-25	-29.33	Pass	V
3815.87	150	23	-50.25	-25	-25.25	Pass	V
5811.10	145	67	-48.18	-25	-23.18	Pass	V
6474.48	149	185	-46.29	-25	-21.29	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.
1246.68	149	337	-53.81	-25	-28.81	Pass	H
1624.43	153	130	-46.84	-25	-21.84	Pass	H
3848.88	149	236	-49.51	-25	-24.51	Pass	H
5944.57	148	333	-42.26	-25	-17.26	Pass	H
6596.07	145	160	-40.50	-25	-15.50	Pass	H
8052.93	154	267	-43.75	-25	-18.75	Pass	H
1249.07	152	311	-58.57	-25	-33.57	Pass	V
1462.79	154	105	-57.78	-25	-32.78	Pass	V
3634.49	152	185	-52.83	-25	-27.83	Pass	V
3897.91	151	200	-49.86	-25	-24.86	Pass	V
5804.17	155	45	-47.39	-25	-22.39	Pass	V
6577.54	151	263	-48.11	-25	-23.11	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.
1427.68	151	357	-57.33	-25	-32.33	Pass	H
1721.66	145	39	-49.57	-25	-24.57	Pass	H
3803.55	147	293	-47.66	-25	-22.66	Pass	H
5852.58	146	59	-41.42	-25	-16.42	Pass	H
6473.83	150	222	-44.38	-25	-19.38	Pass	H
8067.85	153	129	-41.68	-25	-16.68	Pass	H
1108.79	153	144	-57.17	-25	-32.17	Pass	V
1401.60	153	75	-57.80	-25	-32.80	Pass	V
3596.44	152	353	-51.16	-25	-26.16	Pass	V
3821.51	146	111	-50.58	-25	-25.58	Pass	V
5789.85	145	326	-48.65	-25	-23.65	Pass	V
6529.17	146	269	-49.44	-25	-24.44	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.
1350.39	147	248	-55.39	-25	-30.39	Pass	H
1772.97	149	166	-45.81	-25	-20.81	Pass	H
3985.11	149	266	-43.27	-25	-18.27	Pass	H
5842.93	145	14	-43.27	-25	-18.27	Pass	H
6481.38	150	201	-44.32	-25	-19.32	Pass	H
8179.45	150	23	-44.35	-25	-19.35	Pass	H
1141.91	154	180	-52.72	-25	-27.72	Pass	V
1518.01	153	264	-57.26	-25	-32.26	Pass	V
3613.36	153	183	-50.51	-25	-25.51	Pass	V
3864.30	151	343	-51.59	-25	-26.59	Pass	V
5830.44	150	208	-44.98	-25	-19.98	Pass	V
6527.06	155	326	-48.68	-25	-23.68	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.
1307.03	148	231	-54.30	-25	-29.30	Pass	H
1676.48	153	262	-44.35	-25	-19.35	Pass	H
3926.55	153	100	-46.26	-25	-21.26	Pass	H
5973.71	148	311	-43.66	-25	-18.66	Pass	H
6426.05	147	153	-42.43	-25	-17.43	Pass	H
8101.41	150	104	-46.22	-25	-21.22	Pass	H
1151.32	155	333	-53.54	-25	-28.54	Pass	V
1379.37	155	39	-55.92	-25	-30.92	Pass	V
3539.80	154	168	-51.69	-25	-26.69	Pass	V
3780.28	151	161	-47.85	-25	-22.85	Pass	V
5805.01	148	82	-47.28	-25	-22.28	Pass	V
6565.59	148	184	-48.46	-25	-23.46	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.
1289.58	146	98	-55.15	-25	-30.15	Pass	H
1732.23	146	322	-43.60	-25	-18.60	Pass	H
3948.76	150	231	-44.52	-25	-19.52	Pass	H
5792.60	146	231	-41.83	-25	-16.83	Pass	H
6580.34	148	56	-45.10	-25	-20.10	Pass	H
8138.90	153	193	-42.51	-25	-17.51	Pass	H
1130.57	146	253	-54.62	-25	-29.62	Pass	V
1530.83	150	281	-56.22	-25	-31.22	Pass	V
3478.73	149	42	-49.60	-25	-24.60	Pass	V
3886.16	148	259	-52.95	-25	-27.95	Pass	V
5764.63	148	170	-43.67	-25	-18.67	Pass	V
6504.53	152	23	-44.28	-25	-19.28	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.
1273.37	145	343	-57.21	-13	-44.21	Pass	H
1738.46	141	178	-47.67	-13	-34.67	Pass	H
3921.20	145	340	-49.36	-13	-36.36	Pass	H
5958.26	141	59	-46.37	-13	-33.37	Pass	H
6592.32	160	93	-42.69	-13	-29.69	Pass	H
8165.00	151	192	-45.00	-13	-32.00	Pass	H
1185.70	154	156	-53.14	-13	-40.14	Pass	V
1367.59	148	290	-60.19	-13	-47.19	Pass	V
3488.82	147	302	-47.94	-13	-34.94	Pass	V
3790.11	140	56	-51.83	-13	-38.83	Pass	V
5851.43	158	148	-49.29	-13	-36.29	Pass	V
6489.92	147	163	-44.63	-13	-31.63	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.
1274.69	150	26	-55.46	-13	-42.46	Pass	H
1701.15	146	170	-49.65	-13	-36.65	Pass	H
3869.53	150	178	-47.57	-13	-34.57	Pass	H
5898.41	146	68	-43.47	-13	-30.47	Pass	H
6480.10	149	4	-46.27	-13	-33.27	Pass	H
8020.75	151	316	-47.40	-13	-34.40	Pass	H
1271.91	149	158	-51.43	-13	-38.43	Pass	V
1464.30	148	264	-57.65	-13	-44.65	Pass	V
3611.62	147	89	-56.39	-13	-43.39	Pass	V
3980.97	148	72	-53.33	-13	-40.33	Pass	V
5814.95	150	72	-50.88	-13	-37.88	Pass	V
6565.24	150	129	-46.79	-13	-33.79	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.
1272.70	155	221	-59.27	-13	-46.27	Pass	H
1634.44	151	52	-54.91	-13	-41.91	Pass	H
3864.94	147	313	-44.13	-13	-31.13	Pass	H
5827.01	152	3	-39.79	-13	-26.79	Pass	H
6454.81	146	285	-42.27	-13	-29.27	Pass	H
7916.39	148	118	-46.70	-13	-33.70	Pass	H
1348.22	146	282	-56.67	-13	-43.67	Pass	V
1449.33	154	200	-59.75	-13	-46.75	Pass	V
3599.99	146	171	-51.91	-13	-38.91	Pass	V
3881.32	146	167	-46.59	-13	-33.59	Pass	V
5716.18	150	270	-44.14	-13	-31.14	Pass	V
6515.59	151	310	-48.98	-13	-35.98	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.
1244.63	155	55	-60.76	-13	-47.76	Pass	H
1747.47	150	241	-49.06	-13	-36.06	Pass	H
3925.43	154	200	-47.10	-13	-34.10	Pass	H
5969.56	147	11	-42.63	-13	-29.63	Pass	H
6524.14	150	107	-43.25	-13	-30.25	Pass	H
8051.17	149	144	-40.59	-13	-27.59	Pass	H
1213.46	151	194	-54.20	-13	-41.20	Pass	V
1414.14	148	117	-57.05	-13	-44.05	Pass	V
3536.96	151	141	-48.53	-13	-35.53	Pass	V
3934.50	151	199	-54.19	-13	-41.19	Pass	V
5865.82	147	341	-47.96	-13	-34.96	Pass	V
6650.99	148	105	-49.00	-13	-36.00	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.
1238.28	148	322	-55.52	-13	-41.45	Pass	H
1741.33	149	93	-51.07	-13	-37.85	Pass	H
3824.51	148	336	-45.05	-13	-35.2	Pass	H
6002.73	151	116	-44.21	-13	-30.39	Pass	H
6559.51	154	46	-42.64	-13	-32.24	Pass	H
8095.31	146	24	-44.87	-13	-30.22	Pass	H
1253.83	152	10	-56.57	-13	-44.9	Pass	V
1322.52	145	192	-53.48	-13	-43.63	Pass	V
3553.57	154	238	-51.60	-13	-35.94	Pass	V
3798.91	155	47	-45.20	-13	-36.01	Pass	V
5731.75	149	341	-45.97	-13	-33.75	Pass	V
6579.44	152	26	-42.81	-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.
1258.19	149	74	-56.25	-13	-43.25	Pass	H
1707.10	149	221	-47.53	-13	-34.53	Pass	H
3821.53	152	191	-41.69	-13	-28.69	Pass	H
5892.62	152	130	-38.66	-13	-25.66	Pass	H
6490.19	150	70	-43.67	-13	-30.67	Pass	H
8149.56	155	206	-43.16	-13	-30.16	Pass	H
1208.82	154	107	-56.08	-13	-43.08	Pass	V
1388.12	153	179	-59.31	-13	-46.31	Pass	V
3605.24	147	235	-48.14	-13	-35.14	Pass	V
3865.98	152	185	-51.76	-13	-38.76	Pass	V
5857.60	154	202	-51.15	-13	-38.15	Pass	V
6574.07	154	128	-43.64	-13	-30.64	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	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1411.80	151	148	-56.00	-25	-31.00	Pass	H
1779.78	152	125	-51.23	-25	-26.23	Pass	H
3890.22	149	350	-49.01	-25	-24.01	Pass	H
5965.03	150	312	-42.24	-25	-17.24	Pass	H
6492.37	146	253	-41.43	-25	-16.43	Pass	H
8063.10	154	59	-43.94	-25	-18.94	Pass	H
1204.82	152	140	-56.48	-25	-31.48	Pass	V
1551.39	148	119	-56.48	-25	-31.48	Pass	V
3587.85	145	323	-49.65	-25	-24.65	Pass	V
3919.32	148	94	-48.70	-25	-23.70	Pass	V
5826.65	149	157	-48.09	-25	-23.09	Pass	V
6514.60	146	298	-44.41	-25	-19.41	Pass	V
Band 38 38000 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1393.24	154	130	-53.21	-25	-28.21	Pass	H
1743.07	149	137	-47.67	-25	-22.67	Pass	H
3815.19	152	24	-47.29	-25	-22.29	Pass	H
5802.14	148	1	-46.06	-25	-21.06	Pass	H
6477.31	146	95	-42.20	-25	-17.20	Pass	H
8026.41	147	343	-48.33	-25	-23.33	Pass	H
1225.10	149	345	-52.92	-25	-27.92	Pass	V
1369.16	150	152	-54.99	-25	-29.99	Pass	V
3474.75	152	252	-48.33	-25	-23.33	Pass	V
3756.43	153	174	-52.30	-25	-27.30	Pass	V
5878.29	151	163	-48.43	-25	-23.43	Pass	V
6592.56	146	187	-45.11	-25	-20.11	Pass	V

Band 38 38225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1334.89	154	170	-58.56	-25	-33.56	Pass	H
1748.14	147	334	-48.21	-25	-23.21	Pass	H
3887.53	151	122	-42.17	-25	-17.17	Pass	H
5883.31	152	227	-42.36	-25	-17.36	Pass	H
6417.24	150	52	-45.54	-25	-20.54	Pass	H
8176.30	145	138	-43.20	-25	-18.20	Pass	H
1207.82	154	328	-51.33	-25	-26.33	Pass	V
1467.16	145	334	-60.95	-25	-35.95	Pass	V
3609.21	151	19	-49.71	-25	-24.71	Pass	V
3847.32	152	57	-53.71	-25	-28.71	Pass	V
5852.83	154	168	-42.85	-25	-17.85	Pass	V
6467.16	145	203	-45.14	-25	-20.14	Pass	V
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Band 38 37775 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1403.62	151	51	-52.99	-25	-27.99	Pass	H
1638.16	154	87	-46.99	-25	-21.99	Pass	H
3875.34	150	14	-44.35	-25	-19.35	Pass	H
5872.15	151	228	-45.67	-25	-20.67	Pass	H
6487.16	154	321	-47.16	-25	-22.16	Pass	H
8064.07	151	247	-44.05	-25	-19.05	Pass	H
1131.01	146	99	-52.54	-25	-27.54	Pass	V
1510.25	155	125	-59.52	-25	-34.52	Pass	V
3643.10	151	56	-54.74	-25	-29.74	Pass	V
3779.33	154	317	-49.02	-25	-24.02	Pass	V
5756.94	147	69	-44.07	-25	-19.07	Pass	V
6562.70	149	354	-45.95	-25	-20.95	Pass	V

Band 38 38000 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1259.63	155	233	-55.55	-25	-30.55	Pass	H
1667.98	152	119	-48.10	-25	-23.10	Pass	H
3829.79	149	124	-45.21	-25	-20.21	Pass	H
5976.39	155	27	-43.86	-25	-18.86	Pass	H
6552.67	153	254	-44.13	-25	-19.13	Pass	H
8043.02	153	99	-40.61	-25	-15.61	Pass	H
1139.03	153	202	-55.44	-25	-30.44	Pass	V
1504.36	154	227	-56.79	-25	-31.79	Pass	V
3599.22	153	35	-48.66	-25	-23.66	Pass	V
3819.85	153	120	-46.83	-25	-21.83	Pass	V
5711.29	154	45	-46.49	-25	-21.49	Pass	V
6576.16	147	170	-45.91	-25	-20.91	Pass	V
Band 38 38225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1360.32	147	109	-56.90	-25	-31.90	Pass	H
1665.86	152	255	-46.14	-25	-21.14	Pass	H
3971.98	153	102	-44.74	-25	-19.74	Pass	H
5793.85	154	271	-41.23	-25	-16.23	Pass	H
6445.39	152	80	-38.98	-25	-13.98	Pass	H
8018.77	154	355	-43.84	-25	-18.84	Pass	H
1242.45	150	186	-52.11	-25	-27.11	Pass	V
1448.48	153	152	-56.09	-25	-31.09	Pass	V
3619.27	145	200	-51.44	-25	-26.44	Pass	V
3737.00	149	349	-50.15	-25	-25.15	Pass	V
5868.87	147	248	-44.70	-25	-19.70	Pass	V
6519.81	151	108	-49.60	-25	-24.60	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	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1328.95	147	20	-58.40	-25	-33.40	Pass	H
1610.47	155	271	-48.73	-25	-23.73	Pass	H
3916.47	152	23	-45.06	-25	-20.06	Pass	H
5794.27	146	316	-40.72	-25	-15.72	Pass	H
6472.33	152	206	-45.82	-25	-20.82	Pass	H
8008.99	150	268	-41.94	-25	-16.94	Pass	H
1185.20	155	235	-54.53	-25	-29.53	Pass	V
1428.91	149	281	-60.97	-25	-35.97	Pass	V
3557.51	147	102	-52.73	-25	-27.73	Pass	V
3798.42	154	191	-50.20	-25	-25.20	Pass	V
5731.34	151	325	-47.18	-25	-22.18	Pass	V
6579.78	154	102	-49.57	-25	-24.57	Pass	V
Band 41 40740 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1328.31	155	231	-57.39	-25	-32.39	Pass	H
1782.56	146	37	-48.23	-25	-23.23	Pass	H
3868.39	153	94	-49.43	-25	-24.43	Pass	H
5832.51	146	190	-46.22	-25	-21.22	Pass	H
6421.61	148	120	-40.52	-25	-15.52	Pass	H
8148.62	153	76	-45.98	-25	-20.98	Pass	H
1198.24	150	20	-55.68	-25	-30.68	Pass	V
1391.78	152	305	-52.81	-25	-27.81	Pass	V
3531.34	148	232	-50.95	-25	-25.95	Pass	V
3823.41	148	25	-48.59	-25	-23.59	Pass	V
5777.07	152	192	-43.65	-25	-18.65	Pass	V
6554.51	145	235	-45.95	-25	-20.95	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1292.94	145	132	-56.12	-25	-31.12	Pass	H
1796.34	146	217	-51.22	-25	-26.22	Pass	H
3967.50	146	322	-46.48	-25	-21.48	Pass	H
5984.67	148	150	-44.80	-25	-19.80	Pass	H
6552.94	149	168	-45.03	-25	-20.03	Pass	H
8019.97	150	310	-40.94	-25	-15.94	Pass	H
1108.55	150	51	-57.27	-25	-32.27	Pass	V
1399.40	151	141	-56.94	-25	-31.94	Pass	V
3595.07	146	179	-53.00	-25	-28.00	Pass	V
3749.46	148	49	-48.94	-25	-23.94	Pass	V
5710.83	147	113	-46.35	-25	-21.35	Pass	V
6590.81	148	349	-48.14	-25	-23.14	Pass	V

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Band 41 40265 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1336.13	151	128	-56.35	-25	-31.35	Pass	H
1657.87	146	302	-48.60	-25	-23.60	Pass	H
3842.00	151	336	-46.10	-25	-21.10	Pass	H
5988.39	150	217	-38.77	-25	-13.77	Pass	H
6423.42	154	241	-41.00	-25	-16.00	Pass	H
8030.37	152	54	-43.34	-25	-18.34	Pass	H
1285.06	152	90	-49.82	-25	-24.82	Pass	V
1484.14	148	221	-61.51	-25	-36.51	Pass	V
3631.03	147	125	-50.55	-25	-25.55	Pass	V
3809.02	154	24	-54.39	-25	-29.39	Pass	V
5798.66	152	227	-46.78	-25	-21.78	Pass	V
6536.84	146	247	-46.81	-25	-21.81	Pass	V

Band 41 40740 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1317.85	147	265	-53.48	-25	-28.48	Pass	H
1753.51	154	280	-46.54	-25	-21.54	Pass	H
3880.81	153	94	-45.72	-25	-20.72	Pass	H
5966.50	148	134	-37.82	-25	-12.82	Pass	H
6576.68	152	143	-41.47	-25	-16.47	Pass	H
8042.11	151	352	-45.82	-25	-20.82	Pass	H
1137.73	149	241	-51.66	-25	-26.66	Pass	V
1481.77	153	259	-60.35	-25	-35.35	Pass	V
3580.56	153	124	-51.82	-25	-26.82	Pass	V
3875.86	153	223	-50.68	-25	-25.68	Pass	V
5842.98	147	234	-43.78	-25	-18.78	Pass	V
6524.12	151	201	-46.06	-25	-21.06	Pass	V

Band 41 41215 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1378.53	149	241	-55.53	-25	-30.53	Pass	H
1702.82	153	232	-45.40	-25	-20.40	Pass	H
3938.62	155	106	-46.52	-25	-21.52	Pass	H
5866.98	150	140	-39.09	-25	-14.09	Pass	H
6448.74	150	84	-43.85	-25	-18.85	Pass	H
8016.60	154	232	-43.08	-25	-18.08	Pass	H
1249.70	154	56	-51.36	-25	-26.36	Pass	V
1452.64	149	63	-53.99	-25	-28.99	Pass	V
3527.40	150	293	-49.75	-25	-24.75	Pass	V
3765.28	151	5	-48.79	-25	-23.79	Pass	V
5742.58	152	218	-45.68	-25	-20.68	Pass	V
6460.46	152	10	-48.37	-25	-23.37	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	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1399.30	146	58	-58.28	-40	-18.28	Pass	H
1683.19	148	100	-44.73	-40	-4.73	Pass	H
3772.28	154	253	-52.00	-40	-12.00	Pass	H
5979.72	153	167	-43.07	-40	-3.07	Pass	H
6437.12	148	172	-44.31	-40	-4.31	Pass	H
7974.34	152	346	-46.48	-40	-6.48	Pass	H
1252.17	154	227	-55.15	-40	-15.15	Pass	V
1438.09	149	4	-58.08	-40	-18.08	Pass	V
3500.79	152	286	-49.76	-40	-9.76	Pass	V
3799.70	153	23	-46.86	-40	-6.86	Pass	V
5848.91	151	190	-45.04	-40	-5.04	Pass	V
6549.76	150	104	-46.42	-40	-6.42	Pass	V
Band 40A 38750 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1367.42	150	27	-58.49	-40	-18.49	Pass	H
1770.16	149	186	-53.99	-40	-13.99	Pass	H
3909.46	151	208	-50.23	-40	-10.23	Pass	H
5996.32	147	205	-45.18	-40	-5.18	Pass	H
6454.18	152	183	-48.81	-40	-8.81	Pass	H
8113.84	146	33	-42.14	-40	-2.14	Pass	H
1284.40	154	195	-60.93	-40	-20.93	Pass	V
1448.37	153	57	-58.72	-40	-18.72	Pass	V
3536.27	153	282	-51.58	-40	-11.58	Pass	V
3909.74	149	161	-50.12	-40	-10.12	Pass	V
5827.06	148	200	-47.94	-40	-7.94	Pass	V
6586.67	149	216	-43.25	-40	-3.25	Pass	V

Band 40A 38775 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1275.34	155	351	-54.48	-40	-14.48	Pass	H
1722.23	150	251	-49.28	-40	-9.28	Pass	H
3907.25	151	20	-50.61	-40	-10.61	Pass	H
5839.71	148	189	-45.80	-40	-5.80	Pass	H
6534.41	154	100	-43.23	-40	-3.23	Pass	H
8149.05	149	11	-47.50	-40	-7.50	Pass	H
1208.47	149	111	-61.44	-40	-21.44	Pass	V
1437.26	152	4	-61.29	-40	-21.29	Pass	V
3485.48	149	226	-51.44	-40	-11.44	Pass	V
3822.74	147	208	-51.88	-40	-11.88	Pass	V
5801.24	148	348	-49.21	-40	-9.21	Pass	V
6543.40	155	87	-46.85	-40	-5.68	Pass	V
16QAM							
Band 40A 38725 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1350.13	148	51	-53.52	-40	-13.52	Pass	H
1794.54	154	327	-49.70	-40	-9.70	Pass	H
3895.72	148	277	-48.67	-40	-8.67	Pass	H
5942.98	153	337	-46.73	-40	-6.73	Pass	H
6467.86	147	18	-47.18	-40	-7.18	Pass	H
7979.52	149	313	-43.31	-40	-3.31	Pass	H
1288.42	155	14	-59.21	-40	-19.21	Pass	V
1348.95	150	218	-59.47	-40	-19.47	Pass	V
3530.02	148	22	-53.87	-40	-13.87	Pass	V
3911.81	146	311	-51.06	-40	-11.06	Pass	V
5803.21	146	77	-48.01	-40	-8.01	Pass	V
6541.16	151.62	87.95	-45.98	-40	-5.98	Pass	V

Band 40A 38750channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1265.27	147	14	-55.10	-40	-15.10	Pass	H
1649.41	145	270	-49.13	-40	-9.13	Pass	H
3945.43	149	92	-52.17	-40	-12.17	Pass	H
5963.17	152	111	-45.27	-40	-5.27	Pass	H
6445.11	147	42	-48.04	-40	-8.04	Pass	H
7960.49	150	187	-46.84	-40	-6.84	Pass	H
1119.03	149	127	-57.88	-40	-17.88	Pass	V
1289.69	150	196	-60.79	-40	-20.79	Pass	V
3556.46	146	74	-50.70	-40	-10.70	Pass	V
3811.34	150	346	-48.72	-40	-8.72	Pass	V
5759.96	153	7	-45.04	-40	-5.04	Pass	V
6513.34	148	121	-45.05	-40	-5.05	Pass	V
Band 40A 38875 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1250.28	154	63	-57.58	-40	-17.58	Pass	H
1656.69	146	57	-47.95	-40	-7.95	Pass	H
3946.41	146	165	-49.66	-40	-9.66	Pass	H
5927.84	146	82	-44.86	-40	-4.86	Pass	H
6494.49	152	122	-45.65	-40	-5.65	Pass	H
8151.87	150	185	-43.47	-40	-3.47	Pass	H
1206.30	155	7	-55.53	-40	-15.53	Pass	V
1436.85	149	278	-59.08	-40	-19.08	Pass	V
3444.13	152	314	-49.27	-40	-9.27	Pass	V
3921.43	154	120	-46.56	-40	-6.56	Pass	V
5841.19	153	196	-43.77	-40	-3.77	Pass	V
6519.45	145	30	-48.31	-40	-8.31	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	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1358.63	154	220	-55.49	-40	-15.49	Pass	H
1730.67	149	106	-50.39	-40	-10.39	Pass	H
3778.76	148	146	-47.02	-40	-7.02	Pass	H
5922.19	146	116	-42.85	-40	-2.85	Pass	H
6578.31	154	286	-45.58	-40	-5.58	Pass	H
7988.46	150	311	-48.08	-40	-8.08	Pass	H
1203.27	154	269	-55.43	-40	-15.43	Pass	V
1298.24	153	163	-61.89	-40	-21.89	Pass	V
3463.84	152	277	-50.05	-40	-10.05	Pass	V
3787.40	147	160	-52.14	-40	-12.14	Pass	V
5847.71	152	357	-46.85	-40	-6.85	Pass	V
6588.23	149	253	-43.11	-40	-3.11	Pass	V
Band 40B 39200 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)					
1294.00	152	107	-55.23	-40	-15.23	Pass	H
1744.86	146	254	-49.12	-40	-9.12	Pass	H
3911.80	149	140	-50.64	-40	-10.64	Pass	H
5833.58	147	348	-44.42	-40	-4.42	Pass	H
6491.08	146	139	-47.61	-40	-7.61	Pass	H
7979.22	145	109	-43.80	-40	-3.80	Pass	H
1146.48	153	193	-55.93	-40	-15.93	Pass	V
1446.76	150	228	-58.00	-40	-18.00	Pass	V
3626.34	152	340	-50.91	-40	-10.91	Pass	V
3781.38	148	309	-49.62	-40	-9.62	Pass	V
5830.66	145	308	-46.98	-40	-6.98	Pass	V
6469.58	151	238	-45.76	-40	-5.76	Pass	V

Band 40B 39225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1347.98	147	298	-59.06	-40	-19.06	Pass	H
1660.51	148	90	-51.28	-40	-11.28	Pass	H
3785.55	152	91	-50.75	-40	-10.75	Pass	H
5917.43	147	118	-43.36	-40	-3.36	Pass	H
6496.32	150	130	-47.35	-40	-7.35	Pass	H
7998.51	152	211	-44.99	-40	-4.99	Pass	H
1172.69	153	86	-57.11	-40	-17.11	Pass	V
1426.32	147	58	-57.50	-40	-17.50	Pass	V
3607.60	148	327	-51.98	-40	-11.98	Pass	V
3831.31	146	269	-50.58	-40	-10.58	Pass	V
5898.09	149	109	-46.36	-40	-6.36	Pass	V
6589.93	145	44	-45.01	-40	-5.01	Pass	V
16QAM							
Band 40B 39175 channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1353.69	148	262	-54.74	-40	-14.74	Pass	H
1807.44	154	26	-47.75	-40	-7.75	Pass	H
3923.60	148	66	-50.03	-40	-10.03	Pass	H
5885.22	152	326	-45.22	-40	-5.22	Pass	H
6465.34	152	111	-49.05	-40	-9.05	Pass	H
8124.85	152	77	-45.83	-40	-5.83	Pass	H
1263.20	146	206	-58.16	-40	-18.16	Pass	V
1285.16	155	177	-60.04	-40	-20.04	Pass	V
3633.10	152	325	-51.38	-40	-11.38	Pass	V
3931.13	153	240	-48.56	-40	-8.56	Pass	V
5784.25	154	17	-47.26	-40	-7.26	Pass	V
6548.02	149	39	-47.83	-40	-7.83	Pass	V

Band 40B 39200channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1392.33	145	359	-52.11	-40	-12.11	Pass	H
1721.89	146	105	-48.58	-40	-8.58	Pass	H
3794.21	145	97	-46.49	-40	-6.49	Pass	H
5877.39	145	281	-44.73	-40	-4.73	Pass	H
6470.70	145	167	-45.32	-40	-5.32	Pass	H
7994.59	146	39	-45.06	-40	-5.06	Pass	H
1229.50	146	67	-60.36	-40	-20.36	Pass	V
1311.75	146	101	-60.51	-40	-20.51	Pass	V
3482.14	145	317	-53.61	-40	-13.61	Pass	V
3915.68	146	6	-51.98	-40	-11.98	Pass	V
5737.70	146	141	-48.40	-40	-8.40	Pass	V
6584.76	145	305	-47.76	-40	-7.76	Pass	V
Band 40B 39225 channel/BW 5(highest channel)							
Frequency	Height	Azimuth	Spurious Emission Level	Limit	Over Limit	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)	(dBm)	(dBm)	(dB)		
1388.49	154	201	-54.58	-40	-14.58	Pass	H
1705.94	152	112	-48.83	-40	-8.83	Pass	H
3838.41	153	187	-46.47	-40	-6.47	Pass	H
5862.28	149	273	-48.42	-40	-8.42	Pass	H
6527.76	153	169	-49.17	-40	-9.17	Pass	H
8029.66	147	55	-45.72	-40	-5.72	Pass	H
1121.32	155	116	-58.59	-40	-18.59	Pass	V
1283.34	148	80	-58.57	-40	-18.57	Pass	V
3455.61	148	81	-49.61	-40	-9.61	Pass	V
3763.17	145	186	-51.30	-40	-11.30	Pass	V
5759.49	148	37	-47.52	-40	-7.52	Pass	V
6511.57	148	302	-46.05	-40	-6.05	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.
1310.38	157	143	-57.36	-13	-44.36	Pass	H
1646.53	156	41	-50.20	-13	-37.20	Pass	H
3984.86	149	99	-47.75	-13	-34.75	Pass	H
5931.00	155	290	-43.96	-13	-30.96	Pass	H
6571.78	142	220	-44.42	-13	-31.42	Pass	H
8101.77	141	303	-44.26	-13	-31.26	Pass	H
1144.96	142	53	-53.37	-13	-40.37	Pass	V
1394.33	150	152	-56.52	-13	-43.52	Pass	V
3562.05	147	50	-51.66	-13	-38.66	Pass	V
3865.15	146	22	-51.00	-13	-38.00	Pass	V
5784.80	147	85	-48.54	-13	-35.54	Pass	V
6615.63	141	328	-47.07	-13	-34.07	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.
1267.37	150	18	-57.23	-13	-44.23	Pass	H
1727.34	146	288	-53.63	-13	-40.63	Pass	H
3911.27	150	295	-51.55	-13	-38.55	Pass	H
5883.87	146	34	-43.88	-13	-30.88	Pass	H
6395.25	149	69	-47.59	-13	-34.59	Pass	H
8015.13	151	263	-50.98	-13	-37.98	Pass	H
1254.85	149	117	-53.66	-13	-40.66	Pass	V
1322.59	148	252	-61.37	-13	-48.37	Pass	V
3607.29	147	173	-56.36	-13	-43.36	Pass	V
3959.31	148	238	-50.99	-13	-37.99	Pass	V
5857.11	150	231	-45.75	-13	-32.75	Pass	V
6512.52	150	157	-45.69	-13	-32.69	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.
1404.99	149	191	-57.83	-13	-44.83	Pass	H
1678.66	151	95	-50.73	-13	-37.73	Pass	H
3821.45	151	113	-43.35	-13	-30.35	Pass	H
5895.04	145	81	-40.18	-13	-27.18	Pass	H
6439.03	154	65	-40.61	-13	-27.61	Pass	H
8005.10	155	123	-47.02	-13	-34.02	Pass	H
1161.40	155	69	-59.21	-13	-46.21	Pass	V
1451.78	153	225	-57.15	-13	-44.15	Pass	V
3606.54	154	225	-50.91	-13	-37.91	Pass	V
3994.71	149	166	-48.91	-13	-35.91	Pass	V
5828.54	152	142	-42.53	-13	-29.53	Pass	V
6625.30	148	33	-45.49	-13	-32.49	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.
1239.60	154	31	-56.64	-13	-43.64	Pass	H
1746.10	150	82	-49.72	-13	-36.72	Pass	H
3832.83	150	226	-48.03	-13	-35.03	Pass	H
5976.50	148	356	-43.37	-13	-30.37	Pass	H
6504.88	154	86	-41.89	-13	-28.89	Pass	H
8094.99	152	267	-42.18	-13	-29.18	Pass	H
1240.89	149	133	-53.07	-13	-40.07	Pass	V
1399.96	150	135	-58.26	-13	-45.26	Pass	V
3561.73	154	248	-51.89	-13	-38.89	Pass	V
3841.92	155	200	-54.16	-13	-41.16	Pass	V
5824.15	150	130	-47.15	-13	-34.15	Pass	V
6662.99	145	195	-52.33	-13	-39.33	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.
1280.40	146	75	-52.15	-13	-41.45	Pass	H
1804.44	155	97	-50.97	-13	-37.85	Pass	H
3770.11	153	53	-49.67	-13	-35.2	Pass	H
6011.89	151	14	-42.35	-13	-30.39	Pass	H
6569.25	152	358	-43.95	-13	-32.24	Pass	H
7967.96	148	23	-40.26	-13	-30.22	Pass	H
1127.85	149	85	-60.65	-13	-44.9	Pass	V
1296.13	154	68	-56.14	-13	-43.63	Pass	V
3533.11	146	72	-45.10	-13	-35.94	Pass	V
3856.32	151	322	-46.84	-13	-36.01	Pass	V
5902.66	155	221	-45.84	-13	-33.75	Pass	V
6423.66	147	196	-45.35	-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.
1239.36	154	314	-58.71	-13	-45.71	Pass	H
1713.65	146	54	-46.02	-13	-33.02	Pass	H
3962.89	148	104	-44.11	-13	-31.11	Pass	H
5842.48	154	101	-39.77	-13	-26.77	Pass	H
6538.78	153	213	-40.84	-13	-27.84	Pass	H
8065.51	153	135	-45.82	-13	-32.82	Pass	H
1118.30	148	310	-54.30	-13	-41.30	Pass	V
1511.93	149	94	-57.26	-13	-44.26	Pass	V
3581.64	155	153	-52.10	-13	-39.10	Pass	V
3827.63	154	129	-49.30	-13	-36.30	Pass	V
5864.77	146	290	-45.54	-13	-32.54	Pass	V
6476.48	154	151	-45.53	-13	-32.53	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=DC3.8V; Low Voltage LV=DC3.42; High Voltage HV=DC4.18V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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