

TEST REPORT

Product Name: walkie talkie
FCC ID: 2BO5B-TDC58
Trademark: N/A
Model Number: TD-C58, AI-58, AD-58, NC850, ET-C15, BM730, TK-A13, G96, S88, U5, G12, OMI-C58, G58, NC-850
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Sample Received Date: Apr. 24, 2025
Sample tested Date: Apr. 24 2025 to May. 28 2025
Issue Date: May. 28 2025
Report No.: CTB25042407103RF02
Test Standards: FCC Part 2, 22, 24E, 27
Test Results: PASS
Remark: This is LTE radio test report.

Compiled by:

Reviewed by:

Approved by:

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Bin Mei / Director

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

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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
CTB25042407103RF02	May. 28 2025	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
Conducted output power	Part 2.1046(a)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 22.913(a)(2)/ Part 24.232(c)/Part27.50(h)(2)/ Part27.50(d)(4)/ Part27.50(c)(10)/ Part27.50(b)(10)/ Part27.50(a)(3)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 22.913(d)/Part 27.50(d) /Part 27.50(a) (1)	KDB 971168 D01v03r01	PASS
99% & 26dB Occupied Bandwidth	Part 2.1049(h)	KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1051/ Part 24.238(a)/Part 27.53(g) (1) Part 22.917(a)/Part 27.53(i) (4)/ Part 27.53(c) /Part 27.253(f)/Part 27.53(a) (2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54/ Part 22.355	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS

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°C
frequency	1×10 ⁻⁷

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	TD-C58, AI-58, AD-58, NC850, ET-C15, BM730, TK-A13, G96, S88, U5, G12, OMI-C58, G58, NC-850
Model Description:	All the model are the same circuit and RF module, It's just a different color. Test sample model: TD-C58
Hardware Version:	V2
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz 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: 21.49dBm FDD-LTE BAND 4: 22.09dBm FDD-LTE BAND 7: 21.19dBm FDD-LTE BAND 12: 22.32dBm FDD-LTE BAND 13: 22.1dBm FDD-LTE BAND 17: 22.40dBm TDD-LTE BAND 38: 21.23dBm TDD-LTE BAND 40a: 21.69dBm TDD-LTE BAND 40b: 21.76dBm TDD-LTE BAND 41: 21.7dBm FDD-LTE BAND 66: 22.28dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: 0.75dBi FDD-LTE BAND 4: 0.37dBi FDD-LTE BAND 7: 0.63dBi FDD-LTE BAND 12: 0.84dBi FDD-LTE BAND 13: 0.89dBi FDD-LTE BAND 17: 0.86dBi TDD-LTE BAND 38: 0.75dBi TDD-LTE BAND 40a: 0.65dBi TDD-LTE BAND 40b: 0.65dBi TDD-LTE BAND 41: 0.87dBi

FDD-LTE BAND 66: 0.87dBi

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 7	Low, Middle, High Channels
TM4	FDD-LTE BAND 12	Low, Middle, High Channels
TM5	FDD-LTE BAND 13	Low, Middle, High Channels
TM6	FDD-LTE BAND 17	Low, Middle, High Channels
TM7	TDD-LTE BAND 38	Low, Middle, High Channels
TM8	TDD-LTE BAND 40a	Low, Middle, High Channels
TM9	TDD-LTE BAND 40b	Low, Middle, High Channels
TM10	TDD-LTE BAND 41	Low, Middle, High Channels
TM11	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 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, Xinghe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test Instrument Used

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

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

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.

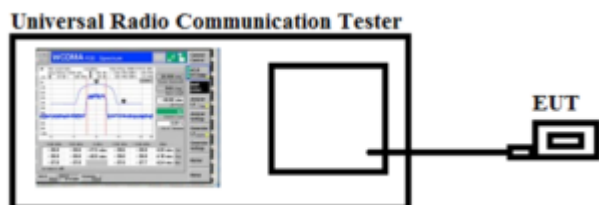
According to §27.50(h)(2), Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

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.

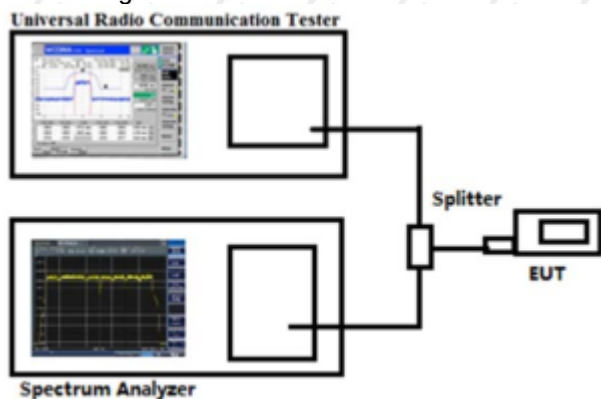
corresponding to the highest PAPR expected during periods of continuous transmission.

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.

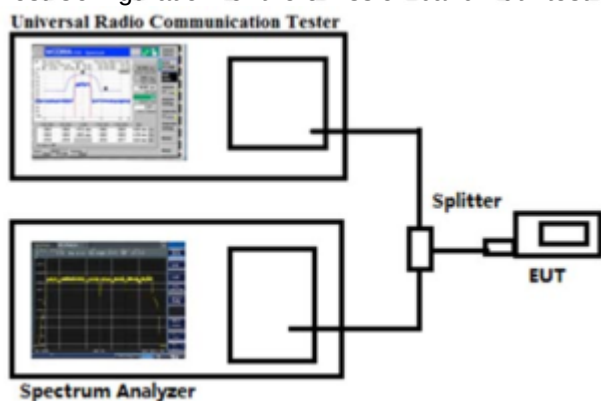
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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;

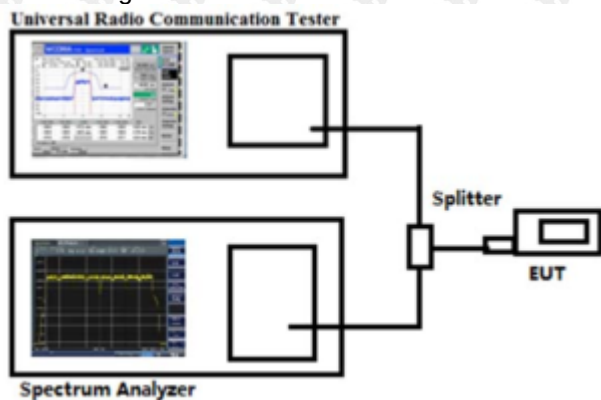
(2) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 70 + 10 log (P) dB on all frequencies between 2287.5 and 2300 MHz, 72 + 10 log (P) dB on all frequencies between 2285 and 2287.5 MHz, and 75 + 10 log (P) dB below 2285 MHz;

(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.
1243.50	145	74	-56.43	-13	-43.43	Pass	H
1725.29	145	112	-50.65	-13	-37.65	Pass	H
3969.69	156	73	-46.16	-13	-33.16	Pass	H
5846.32	146	81	-42.86	-13	-29.86	Pass	H
6604.83	148	90	-45.95	-13	-32.95	Pass	H
8160.47	148	305	-41.89	-13	-28.89	Pass	H
1269.67	147	270	-56.01	-13	-43.01	Pass	V
1445.13	144	284	-59.62	-13	-46.62	Pass	V
3526.88	147	295	-48.97	-13	-35.97	Pass	V
3781.12	145	182	-50.36	-13	-37.36	Pass	V
5870.79	144	188	-48.66	-13	-35.66	Pass	V
6538.23	150	215	-49.24	-13	-36.24	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.
1225.64	150	222	-56.42	-13	-43.42	Pass	H
1736.50	146	269	-54.39	-13	-41.39	Pass	H
3891.20	150	165	-47.98	-13	-34.98	Pass	H
5949.78	146	1	-45.37	-13	-32.37	Pass	H
6431.52	149	88	-49.57	-13	-36.57	Pass	H
8032.86	151	284	-48.96	-13	-35.96	Pass	H
1300.86	149	139	-51.10	-13	-38.10	Pass	V
1367.12	148	308	-59.26	-13	-46.26	Pass	V
3676.81	147	72	-53.20	-13	-40.20	Pass	V
3976.86	148	83	-50.70	-13	-37.70	Pass	V
5734.57	150	197	-51.25	-13	-38.25	Pass	V
6601.12	150	14	-48.74	-13	-35.74	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.
1322.16	150	222	-56.36	-13	-43.36	Pass	H
1738.40	155	98	-53.57	-13	-40.57	Pass	H
3873.40	151	77	-42.98	-13	-29.98	Pass	H
5991.52	155	123	-43.42	-13	-30.42	Pass	H
6484.03	149	229	-45.28	-13	-32.28	Pass	H
7964.50	155	352	-46.04	-13	-33.04	Pass	H
1257.71	150	75	-53.97	-13	-40.97	Pass	V
1463.72	150	290	-58.41	-13	-45.41	Pass	V
3433.01	149	250	-52.99	-13	-39.99	Pass	V
3938.90	153	185	-49.83	-13	-36.83	Pass	V
5775.37	149	114	-41.71	-13	-28.71	Pass	V
6613.51	154	225	-49.88	-13	-36.88	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.
1380.19	148	268	-60.65	-13	-47.65	Pass	H
1705.26	146	231	-50.15	-13	-37.15	Pass	H
3837.80	148	323	-51.76	-13	-38.76	Pass	H
5826.41	150	126	-44.73	-13	-31.73	Pass	H
6613.81	151	351	-43.30	-13	-30.30	Pass	H
8042.37	148	289	-42.47	-13	-29.47	Pass	H
1146.18	153	293	-55.41	-13	-42.41	Pass	V
1473.68	152	116	-56.56	-13	-43.56	Pass	V
3506.37	148	130	-50.32	-13	-37.32	Pass	V
3971.03	149	0	-53.80	-13	-40.80	Pass	V
5933.54	155	333	-47.17	-13	-34.17	Pass	V
6480.06	151	173	-51.89	-13	-38.89	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.
1351.39	150	203	-55.57	-13	-41.45	Pass	H
1333.73	147	301	-54.63	-13	-41.45	Pass	H
1816.58	145	354	-50.51	-13	-37.85	Pass	H
3777.94	150	258	-48.64	-13	-35.2	Pass	H
5873.24	153	180	-42.98	-13	-30.39	Pass	H
6415.42	146	42	-47.02	-13	-32.24	Pass	H
8077.20	152	164	-43.46	-13	-30.22	Pass	V
1225.19	149	139	-56.94	-13	-44.9	Pass	V
1413.50	153	227	-55.05	-13	-43.63	Pass	V
3617.41	148	75	-45.50	-13	-35.94	Pass	V
3783.30	153	43	-47.67	-13	-36.01	Pass	V
5723.26	154	114	-43.67	-13	-33.75	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.
1405.01	146	248	-58.34	-13	-45.34	Pass	H
1760.12	145	98	-46.32	-13	-33.32	Pass	H
3904.00	148	241	-46.45	-13	-33.45	Pass	H
5873.73	154	42	-44.20	-13	-31.20	Pass	H
6494.23	149	115	-41.70	-13	-28.70	Pass	H
8054.22	148	43	-46.52	-13	-33.52	Pass	H
1132.64	147	109	-56.90	-13	-43.90	Pass	V
1470.53	147	10	-56.54	-13	-43.54	Pass	V
3579.89	155	81	-52.73	-13	-39.73	Pass	V
3861.44	145	229	-47.88	-13	-34.88	Pass	V
5900.99	147	336	-51.66	-13	-38.66	Pass	V
6510.86	148	285	-47.13	-13	-34.13	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.
1401.09	146	113	-56.92	-13	-43.92	Pass	H
1624.37	151	256	-49.79	-13	-36.79	Pass	H
3858.58	148	27	-48.26	-13	-35.26	Pass	H
5879.55	151	307	-43.43	-13	-30.43	Pass	H
6463.59	153	104	-42.51	-13	-29.51	Pass	H
8036.86	146	254	-37.98	-13	-24.98	Pass	H
1164.36	151	141	-55.58	-13	-42.58	Pass	V
1328.25	147	94	-56.16	-13	-43.16	Pass	V
3512.10	149	210	-50.04	-13	-37.04	Pass	V
3861.01	147	213	-53.08	-13	-40.08	Pass	V
5919.24	151	146	-48.10	-13	-35.10	Pass	V
6572.15	154	179	-45.25	-13	-32.25	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.
1242.64	152	193	-51.03	-13	-38.03	Pass	H
1673.77	151	90	-47.07	-13	-34.07	Pass	H
3820.87	146	279	-47.42	-13	-34.42	Pass	H
5987.77	147	52	-41.35	-13	-28.35	Pass	H
6526.12	150	18	-41.88	-13	-28.88	Pass	H
7960.70	154	116	-42.64	-13	-29.64	Pass	H
1255.44	152	295	-54.40	-13	-41.40	Pass	V
1342.95	148	13	-56.64	-13	-43.64	Pass	V
3555.53	150	52	-47.72	-13	-34.72	Pass	V
3854.54	151	43	-45.58	-13	-32.58	Pass	V
5825.86	146	13	-44.30	-13	-31.30	Pass	V
6522.16	149	256	-48.56	-13	-35.56	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.
1279.75	149	298	-55.87	-13	-42.87	Pass	H
1801.80	149	185	-46.72	-13	-33.72	Pass	H
3958.26	150	237	-43.33	-13	-30.33	Pass	H
5845.58	148	7	-41.82	-13	-28.82	Pass	H
6536.05	145	273	-41.93	-13	-28.93	Pass	H
8114.73	149	255	-43.16	-13	-30.16	Pass	H
1245.13	152	72	-54.32	-13	-41.32	Pass	V
1504.40	151	359	-54.71	-13	-41.71	Pass	V
3523.92	146	48	-49.50	-13	-36.50	Pass	V
3927.19	148	326	-47.99	-13	-34.99	Pass	V
5742.74	151	275	-47.41	-13	-34.41	Pass	V
6521.33	152	250	-49.96	-13	-36.96	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.
1303.28	148	338	-54.76	-13	-41.76	Pass	H
1687.58	152	134	-54.98	-13	-41.98	Pass	H
3837.11	150	326	-49.63	-13	-36.63	Pass	H
5778.08	149	16	-46.94	-13	-33.94	Pass	H
6401.89	149	285	-49.22	-13	-36.22	Pass	H
8002.57	150	187	-44.63	-13	-31.63	Pass	H
1135.18	148	85	-53.66	-13	-40.66	Pass	V
1509.08	150	99	-51.80	-13	-38.80	Pass	V
3543.02	146	313	-53.29	-13	-40.29	Pass	V
3747.08	148	321	-46.37	-13	-33.37	Pass	V
5778.26	154	310	-46.65	-13	-33.65	Pass	V
6645.03	152	273	-50.48	-13	-37.48	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.
1205.98	148	327	-58.25	-13	-45.25	Pass	H
1740.52	152	191	-52.14	-13	-39.14	Pass	H
3841.65	153	54	-52.05	-13	-39.05	Pass	H
5769.78	149	259	-43.59	-13	-30.59	Pass	H
6547.84	152	227	-50.78	-13	-37.78	Pass	H
8118.23	150	59	-45.29	-13	-32.29	Pass	H
1156.10	151	17	-52.02	-13	-39.02	Pass	V
1432.76	145	79	-64.55	-13	-51.55	Pass	V
3676.75	149	250	-50.64	-13	-37.64	Pass	V
3952.24	152	32	-50.40	-13	-37.40	Pass	V
5914.90	149	176	-48.90	-13	-35.90	Pass	V
6497.87	151	320	-49.96	-13	-36.96	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.
1326.47	155	196	-58.22	-13	-45.22	Pass	H
1596.52	149	145	-53.39	-13	-40.39	Pass	H
3776.72	146	16	-42.89	-13	-29.89	Pass	H
5855.72	146	161	-43.66	-13	-30.66	Pass	H
6523.56	152	213	-42.95	-13	-29.95	Pass	H
7972.04	145	141	-44.00	-13	-31.00	Pass	H
1176.70	148	92	-55.03	-13	-42.03	Pass	V
1312.93	149	318	-53.12	-13	-40.12	Pass	V
3449.60	154	319	-54.42	-13	-41.42	Pass	V
3895.59	149	267	-45.58	-13	-32.58	Pass	V
5697.19	146	283	-47.11	-13	-34.11	Pass	V
6557.57	148	248	-43.97	-13	-30.97	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 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.
1322.45	154	62	-54.35	-13	-41.35	Pass	H
1745.09	146	125	-44.55	-13	-31.55	Pass	H
3826.09	151	149	-47.90	-13	-34.90	Pass	H
5890.00	147	40	-48.49	-13	-35.49	Pass	H
6532.10	151	231	-44.32	-13	-31.32	Pass	H
7950.87	149	137	-44.30	-13	-31.30	Pass	H
1093.93	145	332	-50.39	-13	-37.39	Pass	V
1408.15	154	141	-53.10	-13	-40.10	Pass	V
3659.49	154	57	-52.37	-13	-39.37	Pass	V
3999.01	148	81	-54.01	-13	-41.01	Pass	V
5834.96	154	10	-45.86	-13	-32.86	Pass	V
6613.05	155	201	-45.76	-13	-32.76	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.
1363.78	147	346	-52.64	-13	-39.64	Pass	H
1758.46	149	136	-51.71	-13	-38.71	Pass	H
3943.56	155	59	-46.92	-13	-33.92	Pass	H
5850.97	145	79	-38.36	-13	-25.36	Pass	H
6405.96	149	289	-40.12	-13	-27.12	Pass	H
8070.51	151	159	-42.01	-13	-29.01	Pass	H
1092.55	149	306	-58.61	-13	-45.61	Pass	V
1322.91	153	17	-61.18	-13	-48.18	Pass	V
3567.90	149	70	-48.29	-13	-35.29	Pass	V
3886.88	153	37	-50.78	-13	-37.78	Pass	V
5765.12	155	62	-42.16	-13	-29.16	Pass	V
6515.07	154	112	-42.52	-13	-29.52	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.
1367.87	145	336	-50.44	-13	-37.44	Pass	H
1694.62	153	305	-48.97	-13	-35.97	Pass	H
3819.12	153	2	-41.56	-13	-28.56	Pass	H
5955.84	148	2	-41.85	-13	-28.85	Pass	H
6578.93	151	234	-42.00	-13	-29.00	Pass	H
8087.46	146	342	-40.45	-13	-27.45	Pass	H
1154.30	149	179	-50.60	-13	-37.60	Pass	V
1538.34	147	71	-59.17	-13	-46.17	Pass	V
3517.55	146	8	-48.55	-13	-35.55	Pass	V
3827.49	151	185	-48.80	-13	-35.80	Pass	V
5900.84	147	128	-49.79	-13	-36.79	Pass	V
6566.69	148	69	-45.82	-13	-32.82	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.
1355.67	153	260	-58.28	-13	-45.28	Pass	H
1707.59	145	279	-54.40	-13	-41.40	Pass	H
3807.77	149	290	-47.54	-13	-34.54	Pass	H
5938.54	146	109	-43.04	-13	-30.04	Pass	H
6550.61	148	167	-48.47	-13	-35.47	Pass	H
8047.81	154	344	-46.36	-13	-33.36	Pass	H
1153.30	150	114	-60.19	-13	-47.19	Pass	V
1350.55	150	220	-58.19	-13	-45.19	Pass	V
3512.46	151	37	-48.84	-13	-35.84	Pass	V
3763.67	155	358	-50.34	-13	-37.34	Pass	V
5812.44	145	19	-44.92	-13	-31.92	Pass	V
6494.94	152	141	-44.29	-13	-31.29	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.
1231.84	151	213	-56.75	-13	-43.75	Pass	H
1718.46	148	241	-52.96	-13	-39.96	Pass	H
3779.03	155	342	-45.96	-13	-32.96	Pass	H
5895.42	148	276	-46.04	-13	-33.04	Pass	H
6522.31	152	359	-48.71	-13	-35.71	Pass	H
8033.79	148	312	-48.86	-13	-35.86	Pass	H
1292.12	152	99	-54.68	-13	-41.68	Pass	V
1437.01	151	177	-65.72	-13	-52.72	Pass	V
3595.24	147	194	-51.69	-13	-38.69	Pass	V
3972.74	150	244	-49.91	-13	-36.91	Pass	V
5852.73	154	98	-50.15	-13	-37.15	Pass	V
6515.39	152	241	-45.40	-13	-32.40	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.
1250.99	146	3	-53.76	-13	-40.76	Pass	H
1598.51	149	14	-49.88	-13	-36.88	Pass	H
3811.90	146	212	-44.92	-13	-31.92	Pass	H
5891.46	153	33	-43.38	-13	-30.38	Pass	H
6493.32	149	56	-45.60	-13	-32.60	Pass	H
8001.01	145	329	-45.90	-13	-32.90	Pass	H
1231.76	151	253	-54.31	-13	-41.31	Pass	V
1399.87	152	264	-50.66	-13	-37.66	Pass	V
3515.85	149	292	-53.40	-13	-40.40	Pass	V
3863.22	155	78	-44.20	-13	-31.20	Pass	V
5768.51	148	289	-47.81	-13	-34.81	Pass	V
6529.05	155	197	-48.49	-13	-35.49	Pass	V

Note:

5) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

6) Tested with all kind of bandwidth, RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

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Band 12 23017 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1334.71	142	111	-56.50	-13	-43.50	Pass	H
1737.06	149	287	-48.97	-13	-35.97	Pass	H
3953.00	156	123	-46.60	-13	-33.60	Pass	H
5963.76	142	311	-45.46	-13	-32.46	Pass	H
6437.21	146	325	-42.88	-13	-29.88	Pass	H
7981.59	146	303	-42.96	-13	-29.96	Pass	H
1128.69	154	241	-52.51	-13	-39.51	Pass	V
1542.15	154	98	-57.66	-13	-44.66	Pass	V
3467.74	158	168	-52.56	-13	-39.56	Pass	V
3857.93	145	98	-52.73	-13	-39.73	Pass	V
5767.94	149	113	-48.10	-13	-35.10	Pass	V
6495.41	146	86	-44.74	-13	-31.74	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.
1318.16	150	326	-56.11	-13	-43.11	Pass	H
1814.24	146	161	-50.30	-13	-37.30	Pass	H
3784.38	150	112	-52.44	-13	-39.44	Pass	H
5923.14	146	346	-44.76	-13	-31.76	Pass	H
6449.40	149	14	-48.28	-13	-35.28	Pass	H
7999.10	151	165	-51.34	-13	-38.34	Pass	H
1197.92	149	312	-54.99	-13	-41.99	Pass	V
1427.31	148	294	-57.06	-13	-44.06	Pass	V
3643.46	147	84	-54.44	-13	-41.44	Pass	V
3840.05	148	349	-48.35	-13	-35.35	Pass	V
5758.77	150	180	-46.54	-13	-33.54	Pass	V
6578.36	150	92	-51.01	-13	-38.01	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.
1253.28	146	111	-57.29	-13	-44.29	Pass	H
1622.31	150	131	-51.95	-13	-38.95	Pass	H
3869.19	150	79	-46.88	-13	-33.88	Pass	H
5834.34	151	234	-39.25	-13	-26.25	Pass	H
6571.74	148	226	-42.58	-13	-29.58	Pass	H
7913.63	145	294	-44.49	-13	-31.49	Pass	H
1272.73	152	181	-58.13	-13	-45.13	Pass	V
1393.60	154	300	-59.39	-13	-46.39	Pass	V
3428.56	146	260	-51.29	-13	-38.29	Pass	V
4000.91	153	184	-48.00	-13	-35.00	Pass	V
5795.10	145	133	-41.66	-13	-28.66	Pass	V
6520.46	153	135	-48.74	-13	-35.74	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.
1296.89	148	182	-56.44	-13	-43.44	Pass	H
1747.73	151	211	-48.82	-13	-35.82	Pass	H
3933.11	151	289	-48.46	-13	-35.46	Pass	H
5949.56	153	237	-42.32	-13	-29.32	Pass	H
6556.54	145	119	-45.82	-13	-32.82	Pass	H
8024.60	150	236	-44.96	-13	-31.96	Pass	H
1231.13	145	213	-54.95	-13	-41.95	Pass	V
1361.97	149	300	-53.03	-13	-40.03	Pass	V
3666.54	147	241	-50.88	-13	-37.88	Pass	V
3908.18	151	281	-53.39	-13	-40.39	Pass	V
5871.06	149	171	-45.10	-13	-32.10	Pass	V
6601.86	146	18	-46.47	-13	-33.47	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.
1324.65	155	237	-52.26	-13	-41.45	Pass	H
1718.10	150	227	-49.99	-13	-37.85	Pass	H
3765.81	145	7	-45.19	-13	-35.2	Pass	H
5881.39	148	48	-44.80	-13	-30.39	Pass	H
6447.63	149	174	-47.22	-13	-32.24	Pass	H
8130.90	148	325	-40.67	-13	-30.22	Pass	H
1100.66	152	10	-55.28	-13	-44.9	Pass	V
1456.42	151	240	-54.92	-13	-43.63	Pass	V
3504.85	151	290	-47.72	-13	-35.94	Pass	V
3852.12	146	300	-50.06	-13	-36.01	Pass	V
5741.31	145	45	-44.04	-13	-33.75	Pass	V
6519.94	147	104	-46.56	-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.
1338.34	145	77	-55.36	-13	-42.36	Pass	H
1761.54	155	22	-46.12	-13	-33.12	Pass	H
3926.09	153	103	-41.93	-13	-28.93	Pass	H
5850.86	145	107	-41.44	-13	-28.44	Pass	H
6459.65	149	97	-38.66	-13	-25.66	Pass	H
8158.59	152	108	-48.77	-13	-35.77	Pass	H
1164.58	154	289	-55.23	-13	-42.23	Pass	V
1420.87	151	257	-60.49	-13	-47.49	Pass	V
3579.07	151	254	-48.99	-13	-35.99	Pass	V
3741.62	155	0	-47.45	-13	-34.45	Pass	V
5781.71	150	354	-50.99	-13	-37.99	Pass	V
6567.75	146	17	-42.86	-13	-29.86	Pass	V

Note:

7) Scan from 9kHz to 40GHz, the disturbance above 13GHz and below 1GHz are attenuated more than 20 dB below the applicable limit and not required to be reported, the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

8) Tested with all kind of bandwidth, RB Size and RB Offset, Found the 1.4MHz with full RB were the worst case; and then Only the worst case is recorded in the report.

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Band 13 23025 channel/BW 5(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1334.78	150	212	-56.10	-25	-31.10	Pass	H
1625.07	154	246	-46.70	-25	-21.70	Pass	H
4000.05	148	10	-49.53	-25	-24.53	Pass	H
5868.22	154	321	-43.69	-25	-18.69	Pass	H
6574.40	150	337	-39.63	-25	-14.63	Pass	H
8097.45	153	68	-44.34	-25	-19.34	Pass	H
1132.66	150	49	-56.68	-25	-31.68	Pass	V
1395.55	150	173	-60.65	-25	-35.65	Pass	V
3470.31	150	80	-49.81	-25	-24.81	Pass	V
3795.19	155	103	-50.96	-25	-25.96	Pass	V
5811.94	147	169	-45.60	-25	-20.60	Pass	V
6567.82	150	311	-46.41	-25	-21.41	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.
1389.58	154	29	-59.40	-25	-34.40	Pass	H
1798.94	145	55	-49.82	-25	-24.82	Pass	H
3980.56	146	349	-47.75	-25	-22.75	Pass	H
5956.41	149	214	-46.15	-25	-21.15	Pass	H
6526.20	151	32	-41.83	-25	-16.83	Pass	H
8049.71	153	284	-48.06	-25	-23.06	Pass	H
1270.58	150	103	-58.11	-25	-33.11	Pass	V
1536.05	147	342	-57.48	-25	-32.48	Pass	V
3480.20	146	346	-52.48	-25	-27.48	Pass	V
3785.09	153	223	-52.01	-25	-27.01	Pass	V
5704.06	145	224	-46.72	-25	-21.72	Pass	V
6657.14	153	84	-47.03	-25	-22.03	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.
1308.85	149	13	-53.18	-25	-28.18	Pass	H
1783.51	149	15	-45.94	-25	-20.94	Pass	H
3929.67	151	351	-45.44	-25	-20.44	Pass	H
5922.92	145	144	-40.95	-25	-15.95	Pass	H
6410.27	150	123	-43.50	-25	-18.50	Pass	H
7987.70	151	140	-40.45	-25	-15.45	Pass	H
1282.72	149	112	-51.41	-25	-26.41	Pass	V
1414.91	146	75	-59.20	-25	-34.20	Pass	V
3566.80	150	12	-46.11	-25	-21.11	Pass	V
3870.60	146	329	-50.25	-25	-25.25	Pass	V
5793.64	155	206	-45.95	-25	-20.95	Pass	V
6491.86	152	268	-46.51	-25	-21.51	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.
1265.95	147	204	-54.29	-25	-29.29	Pass	H
1711.12	155	315	-47.16	-25	-22.16	Pass	H
3939.83	146	271	-47.44	-25	-22.44	Pass	H
5874.96	154	284	-39.55	-25	-14.55	Pass	H
6477.92	147	213	-46.07	-25	-21.07	Pass	H
8061.05	148	308	-44.39	-25	-19.39	Pass	H
1194.50	151	291	-53.23	-25	-28.23	Pass	V
1542.46	149	282	-57.05	-25	-32.05	Pass	V
3456.05	145	197	-54.64	-25	-29.64	Pass	V
3857.63	154	108	-53.70	-25	-28.70	Pass	V
5819.48	149	202	-47.47	-25	-22.47	Pass	V
6532.65	149	221	-50.17	-25	-25.17	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.
1434.15	149	304	-56.84	-25	-31.84	Pass	H
1628.22	152	337	-47.46	-25	-22.46	Pass	H
3939.70	152	228	-44.62	-25	-19.62	Pass	H
5895.59	148	125	-40.11	-25	-15.11	Pass	H
6560.28	147	102	-45.31	-25	-20.31	Pass	H
8154.73	154	127	-40.97	-25	-15.97	Pass	H
1182.37	150	286	-53.77	-25	-28.77	Pass	V
1512.05	151	313	-61.77	-25	-36.77	Pass	V
3553.01	145	181	-53.48	-25	-28.48	Pass	V
3922.86	149	32	-46.89	-25	-21.89	Pass	V
5892.89	149	331	-46.15	-25	-21.15	Pass	V
6467.77	152	230	-48.23	-25	-23.23	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.
1274.72	149	122	-59.26	-25	-34.26	Pass	H
1730.49	149	30	-45.55	-25	-20.55	Pass	H
3887.88	152	122	-40.61	-25	-15.61	Pass	H
5894.13	147	155	-37.94	-25	-12.94	Pass	H
6411.43	153	165	-42.67	-25	-17.67	Pass	H
7994.69	154	340	-43.54	-25	-18.54	Pass	H
1291.59	145	163	-54.48	-25	-29.48	Pass	V
1387.17	152	80	-57.88	-25	-32.88	Pass	V
3581.35	151	287	-48.90	-25	-23.90	Pass	V
3859.41	148	10	-52.30	-25	-27.30	Pass	V
5732.09	153	274	-49.30	-25	-24.30	Pass	V
6646.07	150	176	-45.36	-25	-20.36	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 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.
1375.01	157	250	-56.08	-13	-43.08	Pass	H
1713.30	147	203	-46.43	-13	-33.43	Pass	H
3952.04	143	324	-49.55	-13	-36.55	Pass	H
5818.73	140	121	-46.60	-13	-33.60	Pass	H
6462.47	147	143	-44.71	-13	-31.71	Pass	H
8111.26	147	110	-41.65	-13	-28.65	Pass	H
1149.96	148	299	-55.80	-13	-42.80	Pass	V
1512.06	155	245	-56.11	-13	-43.11	Pass	V
3623.78	159	33	-52.30	-13	-39.30	Pass	V
3902.14	147	335	-50.84	-13	-37.84	Pass	V
5824.10	142	252	-47.11	-13	-34.11	Pass	V
6499.54	148	25	-46.09	-13	-33.09	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.
1371.72	150	210	-58.09	-13	-45.09	Pass	H
1726.50	146	212	-49.60	-13	-36.60	Pass	H
3801.81	150	230	-53.49	-13	-40.49	Pass	H
5925.94	146	183	-48.01	-13	-35.01	Pass	H
6445.19	149	256	-50.00	-13	-37.00	Pass	H
7925.00	151	291	-46.35	-13	-33.35	Pass	H
1181.70	149	73	-51.76	-13	-38.76	Pass	V
1304.76	148	164	-61.20	-13	-48.20	Pass	V
3580.58	147	122	-53.70	-13	-40.70	Pass	V
3985.00	148	155	-49.21	-13	-36.21	Pass	V
5770.67	150	236	-47.19	-13	-34.19	Pass	V
6590.89	150	68	-45.52	-13	-32.52	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.
1257.82	148	210	-53.95	-13	-40.95	Pass	H
1683.81	151	192	-53.42	-13	-40.42	Pass	H
3907.90	145	130	-43.58	-13	-30.58	Pass	H
5818.75	147	332	-43.87	-13	-30.87	Pass	H
6580.13	153	3	-41.48	-13	-28.48	Pass	H
7966.86	150	136	-43.86	-13	-30.86	Pass	H
1249.33	153	179	-54.18	-13	-41.18	Pass	V
1369.50	149	142	-56.48	-13	-43.48	Pass	V
3554.36	154	108	-55.73	-13	-42.73	Pass	V
3872.68	145	218	-46.12	-13	-33.12	Pass	V
5802.10	153	115	-42.36	-13	-29.36	Pass	V
6666.72	151	274	-46.58	-13	-33.58	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.
1368.04	147	318	-59.11	-13	-46.11	Pass	H
1785.73	153	246	-44.87	-13	-31.87	Pass	H
3935.59	152	110	-49.90	-13	-36.90	Pass	H
5966.03	148	227	-46.39	-13	-33.39	Pass	H
6623.54	154	43	-43.95	-13	-30.95	Pass	H
7969.40	154	105	-44.51	-13	-31.51	Pass	H
1121.17	149	134	-55.22	-13	-42.22	Pass	V
1499.08	154	139	-58.37	-13	-45.37	Pass	V
3569.37	146	95	-48.98	-13	-35.98	Pass	V
3818.78	148	351	-53.14	-13	-40.14	Pass	V
5777.53	154	77	-44.63	-13	-31.63	Pass	V
6487.70	147	212	-48.22	-13	-35.22	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.
1285.39	146	135	-52.17	-13	-41.45	Pass	H
1809.09	155	241	-52.41	-13	-37.85	Pass	H
3874.17	149	132	-45.59	-13	-35.2	Pass	H
5944.58	153	66	-41.90	-13	-30.39	Pass	H
6423.10	147	82	-45.12	-13	-32.24	Pass	H
8133.11	153	250	-45.61	-13	-30.22	Pass	H
1198.65	150	30	-56.99	-13	-44.9	Pass	V
1451.13	151	160	-53.84	-13	-43.63	Pass	V
3499.89	147	215	-47.93	-13	-35.94	Pass	V
3940.21	146	2	-51.92	-13	-36.01	Pass	V
5812.49	150	27	-44.76	-13	-33.75	Pass	V
6572.03	150	136	-43.20	-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.
1301.45	147	329	-57.29	-13	-44.29	Pass	H
1694.51	147	224	-48.08	-13	-35.08	Pass	H
3822.55	152	41	-44.34	-13	-31.34	Pass	H
5950.13	145	253	-45.18	-13	-32.18	Pass	H
6593.56	148	262	-42.41	-13	-29.41	Pass	H
8076.55	146	209	-42.61	-13	-29.61	Pass	H
1199.13	154	251	-58.32	-13	-45.32	Pass	V
1366.50	146	355	-61.65	-13	-48.65	Pass	V
3507.18	149	59	-51.95	-13	-38.95	Pass	V
3764.86	151	58	-50.29	-13	-37.29	Pass	V
5715.48	148	45	-49.04	-13	-36.04	Pass	V
6522.14	152	122	-46.55	-13	-33.55	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.

QPSK							
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)			
1367.95	155	27	-53.99	-25	-28.99	Pass	H
1745.61	155	199	-48.71	-25	-23.71	Pass	H
3812.59	150	85	-44.27	-25	-19.27	Pass	H
5945.96	154	266	-38.93	-25	-13.93	Pass	H
6513.45	152	7	-45.39	-25	-20.39	Pass	H
8103.30	151	99	-43.77	-25	-18.77	Pass	H
1130.81	155	327	-52.95	-25	-27.95	Pass	V
1443.18	153	265	-59.78	-25	-34.78	Pass	V
3513.10	150	332	-51.76	-25	-26.76	Pass	V
3848.39	146	38	-48.61	-25	-23.61	Pass	V
5807.19	153	343	-48.10	-25	-23.10	Pass	V
6515.58	150	180	-49.94	-25	-24.94	Pass	V
Band 38 38000 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1245.79	147	28	-54.24	-25	-29.24	Pass	H
1714.00	154	30	-45.65	-25	-20.65	Pass	H
3823.30	154	349	-47.62	-25	-22.62	Pass	H
5902.64	154	6	-44.28	-25	-19.28	Pass	H
6541.51	151	164	-44.55	-25	-19.55	Pass	H
8018.82	151	352	-43.81	-25	-18.81	Pass	H
1129.31	155	55	-57.77	-25	-32.77	Pass	V
1402.95	153	266	-52.56	-25	-27.56	Pass	V
3558.78	149	293	-49.99	-25	-24.99	Pass	V
3821.69	150	336	-47.52	-25	-22.52	Pass	V
5803.04	154	32	-49.13	-25	-24.13	Pass	V
6607.86	148	359	-48.48	-25	-23.48	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)			
1343.55	147	318	-55.15	-25	-30.15	Pass	H
1684.72	150	9	-48.33	-25	-23.33	Pass	H
3920.79	154	73	-44.30	-25	-19.30	Pass	H
5921.94	146	222	-45.17	-25	-20.17	Pass	H
6462.50	149	155	-45.87	-25	-20.87	Pass	H
8153.98	146	204	-46.13	-25	-21.13	Pass	H
1203.34	147	126	-52.28	-25	-27.28	Pass	V
1550.20	149	41	-59.30	-25	-34.30	Pass	V
3581.37	154	186	-46.70	-25	-21.70	Pass	V
3782.81	153	333	-47.21	-25	-22.21	Pass	V
5872.17	147	250	-44.85	-25	-19.85	Pass	V
6491.92	154	119	-46.36	-25	-21.36	Pass	V
16QAM							
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)			
1415.66	145	286	-55.97	-25	-30.97	Pass	H
1695.07	151	158	-50.18	-25	-25.18	Pass	H
3849.15	149	179	-44.38	-25	-19.38	Pass	H
5865.15	153	220	-42.83	-25	-17.83	Pass	H
6556.13	153	226	-47.22	-25	-22.22	Pass	H
7987.04	151	63	-48.82	-25	-23.82	Pass	H
1230.79	150	101	-50.79	-25	-25.79	Pass	V
1540.12	150	87	-58.58	-25	-33.58	Pass	V
3509.21	150	325	-49.84	-25	-24.84	Pass	V
3790.86	147	67	-51.87	-25	-26.87	Pass	V
5866.59	148	213	-48.67	-25	-23.67	Pass	V
6540.39	150	294	-44.24	-25	-19.24	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)		
1243.69	145	126	-56.52	-25	-31.52	Pass	H
1618.39	145	50	-49.62	-25	-24.62	Pass	H
3840.88	148	275	-40.37	-25	-15.37	Pass	H
5843.30	151	264	-42.71	-25	-17.71	Pass	H
6491.91	147	228	-45.41	-25	-20.41	Pass	H
8168.91	152	276	-45.97	-25	-20.97	Pass	H
1120.57	153	44	-52.79	-25	-27.79	Pass	V
1492.95	145	189	-59.03	-25	-34.03	Pass	V
3553.34	153	200	-52.64	-25	-27.64	Pass	V
3740.14	153	27	-49.85	-25	-24.85	Pass	V
5788.75	155	4	-44.20	-25	-19.20	Pass	V
6520.35	153	338	-46.29	-25	-21.29	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)		
1258.67	146	291	-58.04	-25	-33.04	Pass	H
1715.22	153	55	-50.20	-25	-25.20	Pass	H
3921.66	146	158	-43.59	-25	-18.59	Pass	H
5895.71	152	134	-41.26	-25	-16.26	Pass	H
6470.15	154	156	-38.87	-25	-13.87	Pass	H
8168.52	150	276	-41.91	-25	-16.91	Pass	H
1281.97	152	116	-53.21	-25	-28.21	Pass	V
1524.15	147	185	-58.80	-25	-33.80	Pass	V
3547.50	150	57	-50.55	-25	-25.55	Pass	V
3829.47	147	19	-52.46	-25	-27.46	Pass	V
5880.77	151	173	-44.55	-25	-19.55	Pass	V
6618.13	146	110	-45.43	-25	-20.43	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.

QPSK-B41							
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)			
1374.84	146	10	-54.03	-25	-29.03	Pass	H
1609.46	150	258	-49.36	-25	-24.36	Pass	H
3960.13	148	1	-43.76	-25	-18.76	Pass	H
5918.28	149	142	-38.96	-25	-13.96	Pass	H
6504.73	149	0	-45.05	-25	-20.05	Pass	H
8080.91	147	181	-48.74	-25	-23.74	Pass	H
1120.47	147	277	-52.97	-25	-27.97	Pass	V
1388.72	154	274	-62.50	-25	-37.50	Pass	V
3592.56	148	357	-53.40	-25	-28.40	Pass	V
3908.26	153	150	-46.53	-25	-21.53	Pass	V
5901.62	146	306	-47.28	-25	-22.28	Pass	V
6497.18	153	143	-48.28	-25	-23.28	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)			
1362.59	150	90	-53.83	-25	-28.83	Pass	H
1652.67	153	63	-44.10	-25	-19.10	Pass	H
4002.75	153	56	-48.51	-25	-23.51	Pass	H
5884.40	152	309	-45.58	-25	-20.58	Pass	H
6480.56	155	17	-44.55	-25	-19.55	Pass	H
8115.78	153	294	-47.38	-25	-22.38	Pass	H
1123.01	147	283	-56.13	-25	-31.13	Pass	V
1429.08	153	170	-52.47	-25	-27.47	Pass	V
3456.34	150	337	-47.20	-25	-22.20	Pass	V
3885.48	147	104	-49.19	-25	-24.19	Pass	V
5711.74	153	283	-50.57	-25	-25.57	Pass	V
6588.20	152	205	-42.60	-25	-17.60	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)			
1420.71	151	332	-51.93	-25	-26.93	Pass	H
1770.59	146	228	-50.90	-25	-25.90	Pass	H
3815.29	151	304	-44.79	-25	-19.79	Pass	H
5934.03	153	65	-47.02	-25	-22.02	Pass	H
6582.54	147	88	-41.57	-25	-16.57	Pass	H
8058.37	150	223	-40.10	-25	-15.10	Pass	H
1200.12	145	338	-55.07	-25	-30.07	Pass	V
1492.99	150	25	-58.60	-25	-33.60	Pass	V
3486.82	150	25	-52.04	-25	-27.04	Pass	V
3745.95	148	47	-48.44	-25	-23.44	Pass	V
5891.80	151	87	-44.06	-25	-19.06	Pass	V
6646.81	150	356	-48.89	-25	-23.89	Pass	V

16QAM-B41							
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)			
1326.71	145	161	-54.40	-25	-29.40	Pass	H
1701.04	152	111	-49.40	-25	-24.40	Pass	H
3943.41	147	294	-49.91	-25	-24.91	Pass	H
5878.35	151	118	-39.27	-25	-14.27	Pass	H
6482.73	146	91	-47.06	-25	-22.06	Pass	H
8027.78	152	293	-48.28	-25	-23.28	Pass	H
1182.85	146	287	-52.61	-25	-27.61	Pass	V
1447.87	152	104	-55.95	-25	-30.95	Pass	V
3465.12	147	5	-54.84	-25	-29.84	Pass	V
3855.75	149	120	-48.20	-25	-23.20	Pass	V
5749.54	153	304	-47.60	-25	-22.60	Pass	V
6547.73	145	148	-48.68	-25	-23.68	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)		
1286.63	150	71	-54.62	-25	-29.62	Pass	H
1746.15	149	339	-50.00	-25	-25.00	Pass	H
3909.04	148	311	-44.53	-25	-19.53	Pass	H
5869.22	148	140	-42.86	-25	-17.86	Pass	H
6524.83	150	333	-45.24	-25	-20.24	Pass	H
8037.91	149	292	-41.34	-25	-16.34	Pass	H
1109.35	152	96	-56.53	-25	-31.53	Pass	V
1406.88	148	231	-59.17	-25	-34.17	Pass	V
3584.79	147	313	-47.80	-25	-22.80	Pass	V
3917.17	152	335	-45.62	-25	-20.62	Pass	V
5849.55	147	288	-45.93	-25	-20.93	Pass	V
6459.56	146	156	-43.96	-25	-18.96	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)		
1309.93	149	63	-58.51	-25	-33.51	Pass	H
1758.50	152	199	-48.95	-25	-23.95	Pass	H
3822.99	153	324	-44.80	-25	-19.80	Pass	H
5926.06	147	351	-44.08	-25	-19.08	Pass	H
6562.03	147	359	-42.14	-25	-17.14	Pass	H
8153.82	148	27	-40.04	-25	-15.04	Pass	H
1199.92	146	329	-51.30	-25	-26.30	Pass	V
1385.88	146	202	-56.78	-25	-31.78	Pass	V
3457.14	145	212	-51.98	-25	-26.98	Pass	V
3759.11	149	228	-50.72	-25	-25.72	Pass	V
5792.04	152	229	-46.01	-25	-21.01	Pass	V
6500.06	145	26	-45.87	-25	-20.87	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.

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)					
1320.72	146	266	-56.58	-40	-16.58	Pass	H
1698.35	145	277	-48.91	-40	-8.91	Pass	H
3805.18	146	204	-46.33	-40	-6.33	Pass	H
5934.06	153	283	-41.19	-40	-1.19	Pass	H
6515.10	146	337	-48.16	-40	-8.16	Pass	H
8084.78	155	150	-41.03	-40	-1.03	Pass	H
1200.63	154	48	-54.06	-40	-14.06	Pass	V
1288.32	148	90	-56.34	-40	-16.34	Pass	V
3492.52	152	124	-48.56	-40	-8.56	Pass	V
3860.31	153	319	-48.09	-40	-8.09	Pass	V
5867.51	145	195	-42.61	-40	-2.61	Pass	V
6586.98	146	352	-48.22	-40	-8.22	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)					
1339.91	153	312	-56.93	-40	-16.93	Pass	H
1695.43	147	90	-53.58	-40	-13.58	Pass	H
3902.29	154	337	-51.08	-40	-11.08	Pass	H
5893.59	147	327	-45.73	-40	-5.73	Pass	H
6523.53	146	205	-49.63	-40	-9.63	Pass	H
8076.08	150	165	-42.02	-40	-2.02	Pass	H
1211.91	154	22	-58.59	-40	-18.59	Pass	V
1465.10	146	66	-58.30	-40	-18.30	Pass	V
3447.90	147	250	-49.10	-40	-9.10	Pass	V
3942.64	154	187	-49.10	-40	-9.10	Pass	V
5766.79	149	346	-49.06	-40	-9.06	Pass	V
6510.66	154	281	-43.67	-40	-3.67	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)		
1429.86	148	249	-54.29	-40	-14.29	Pass	H
1819.09	154	172	-49.29	-40	-9.29	Pass	H
3805.69	154	218	-51.75	-40	-11.75	Pass	H
5851.03	147	81	-44.16	-40	-4.16	Pass	H
6491.22	155	278	-44.26	-40	-4.26	Pass	H
8156.32	151	330	-46.17	-40	-6.17	Pass	H
1096.40	154	136	-60.01	-40	-20.01	Pass	V
1329.49	152	177	-61.14	-40	-21.14	Pass	V
3460.26	147	65	-50.53	-40	-10.53	Pass	V
3923.48	153	354	-50.86	-40	-10.86	Pass	V
5862.60	154	5	-49.93	-40	-9.93	Pass	V
6454.90	149	147	-47.77	-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)		
1270.87	153	26	-54.99	-40	-14.99	Pass	H
1809.25	154	96	-48.71	-40	-8.71	Pass	H
3798.85	152	48	-49.34	-40	-9.34	Pass	H
5867.39	153	2	-46.86	-40	-6.86	Pass	H
6485.55	145	85	-47.01	-40	-7.01	Pass	H
8017.22	149	21	-42.99	-40	-2.99	Pass	H
1176.67	150	55	-58.03	-40	-18.03	Pass	V
1471.01	149	49	-58.29	-40	-18.29	Pass	V
3586.44	150	45	-54.25	-40	-14.25	Pass	V
3897.53	152	132	-50.02	-40	-10.02	Pass	V
5895.57	154	11	-49.25	-40	-9.25	Pass	V
6609.25	145.61	236.51	-46.59	-40	-6.59	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)		
1355.05	148	125	-54.40	-40	-14.40	Pass	H
1791.88	151	100	-48.15	-40	-8.15	Pass	H
3892.74	151	198	-51.18	-40	-11.18	Pass	H
5997.85	148	7	-44.92	-40	-4.92	Pass	H
6440.56	149	122	-45.95	-40	-5.95	Pass	H
8141.41	148	330	-44.45	-40	-4.45	Pass	H
1097.92	153	301	-56.80	-40	-16.80	Pass	V
1434.52	149	41	-62.50	-40	-22.50	Pass	V
3573.13	145	164	-49.89	-40	-9.89	Pass	V
3813.77	149	220	-48.83	-40	-8.83	Pass	V
5847.88	153	160	-44.15	-40	-4.15	Pass	V
6492.84	152	260	-44.76	-40	-4.76	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)		
1387.00	145	99	-58.14	-40	-18.14	Pass	H
1690.59	145	310	-47.07	-40	-7.07	Pass	H
3762.35	154	88	-49.64	-40	-9.64	Pass	H
6002.03	153	68	-44.41	-40	-4.41	Pass	H
6435.20	155	27	-47.98	-40	-7.98	Pass	H
8067.14	153	90	-44.95	-40	-4.95	Pass	H
1156.26	147	129	-58.28	-40	-18.28	Pass	V
1304.32	145	340	-61.07	-40	-21.07	Pass	V
3634.05	146	160	-51.05	-40	-11.05	Pass	V
3759.16	154	76	-49.01	-40	-9.01	Pass	V
5812.16	151	88	-44.39	-40	-4.39	Pass	V
6502.60	145	140	-47.19	-40	-7.19	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 40B 39175channel/BW 5(lowest channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1412.30	154	178	-53.20	-40	-13.20	Pass	H
1714.24	147	128	-48.47	-40	-8.47	Pass	H
3888.27	153	2	-48.65	-40	-8.65	Pass	H
5887.35	145	181	-45.53	-40	-5.53	Pass	H
6551.20	150	128	-46.39	-40	-6.39	Pass	H
8124.63	147	100	-48.26	-40	-8.26	Pass	H
1205.45	149	212	-58.55	-40	-18.55	Pass	V
1449.61	145	132	-59.77	-40	-19.77	Pass	V
3621.42	149	80	-46.31	-40	-6.31	Pass	V
3870.21	147	179	-50.65	-40	-10.65	Pass	V
5774.46	150	58	-48.71	-40	-8.71	Pass	V
6464.77	147	354	-46.38	-40	-6.38	Pass	V
Band 40B 39200 channel/BW 5(middle channel)							
Frequency	Height	Azimuth	Spurious Emission Level (dBm)	Limit	Over Limit (dB)	Result	Antenna Polaxis.
(MHz)	(cm)	(deg)		(dBm)			
1284.76	151	142	-57.58	-40	-17.58	Pass	H
1669.01	148	181	-48.20	-40	-8.20	Pass	H
3843.06	149	165	-49.30	-40	-9.30	Pass	H
5873.98	147	93	-43.96	-40	-3.96	Pass	H
6433.23	150	81	-48.05	-40	-8.05	Pass	H
8047.28	146	37	-44.73	-40	-4.73	Pass	H
1156.95	148	273	-57.58	-40	-17.58	Pass	V
1337.34	147	65	-57.13	-40	-17.13	Pass	V
3603.78	154	135	-49.63	-40	-9.63	Pass	V
3902.35	155	93	-50.15	-40	-10.15	Pass	V
5892.33	150	164	-47.05	-40	-7.05	Pass	V
6585.30	148	31	-46.76	-40	-6.76	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)		
1245.62	147	67	-57.18	-40	-17.18	Pass	H
1633.12	153	115	-50.06	-40	-10.06	Pass	H
3872.92	152	345	-51.01	-40	-11.01	Pass	H
5935.51	145	342	-43.01	-40	-3.01	Pass	H
6408.63	152	61	-48.03	-40	-8.03	Pass	H
8084.20	147	115	-44.78	-40	-4.78	Pass	H
1226.76	147	295	-58.11	-40	-18.11	Pass	V
1336.72	151	158	-57.92	-40	-17.92	Pass	V
3467.19	153	63	-50.86	-40	-10.86	Pass	V
3813.88	154	309	-50.56	-40	-10.56	Pass	V
5746.39	152	320	-48.21	-40	-8.21	Pass	V
6582.08	145	191	-44.92	-40	-4.92	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)		
1423.55	153	174	-54.29	-40	-14.29	Pass	H
1788.79	150	304	-47.02	-40	-7.02	Pass	H
3848.96	154	342	-50.02	-40	-10.02	Pass	H
5977.08	152	198	-45.22	-40	-5.22	Pass	H
6547.79	152	243	-47.17	-40	-7.17	Pass	H
8077.77	148	174	-44.75	-40	-4.75	Pass	H
1155.33	148	346	-59.62	-40	-19.62	Pass	V
1482.60	148	126	-62.57	-40	-22.57	Pass	V
3576.54	152	30	-53.25	-40	-13.25	Pass	V
3903.37	147	291	-49.29	-40	-9.29	Pass	V
5860.79	155	97	-46.72	-40	-6.72	Pass	V
6519.29	154	193	-46.98	-40	-6.98	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)		
1308.03	146	177	-52.93	-40	-12.93	Pass	H
1753.74	145	311	-49.42	-40	-9.42	Pass	H
3763.61	146	192	-46.93	-40	-6.93	Pass	H
6021.68	146	219	-45.46	-40	-5.46	Pass	H
6568.22	145	225	-43.86	-40	-3.86	Pass	H
7993.23	146	294	-44.26	-40	-4.26	Pass	H
1170.84	146	223	-61.22	-40	-21.22	Pass	V
1287.76	145	133	-57.43	-40	-17.43	Pass	V
3464.62	146	14	-51.08	-40	-11.08	Pass	V
3909.84	146	26	-51.02	-40	-11.02	Pass	V
5727.26	145	37	-49.75	-40	-9.75	Pass	V
6469.36	145	347	-44.95	-40	-4.95	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)		
1363.44	150	300	-53.51	-40	-13.51	Pass	H
1712.68	148	159	-51.06	-40	-11.06	Pass	H
3765.22	151	152	-46.22	-40	-6.22	Pass	H
5986.37	148	48	-47.35	-40	-7.35	Pass	H
6417.96	149	213	-49.42	-40	-9.42	Pass	H
7990.78	150	140	-46.47	-40	-6.47	Pass	H
1133.17	153	177	-58.28	-40	-18.28	Pass	V
1342.70	154	41	-59.15	-40	-19.15	Pass	V
3472.23	148	5	-50.12	-40	-10.12	Pass	V
3930.66	154	310	-51.72	-40	-11.72	Pass	V
5892.57	153	297	-48.13	-40	-8.13	Pass	V
6563.49	149	337	-46.91	-40	-6.91	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 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.
1375.48	147	303	-58.32	-13	-45.32	Pass	H
1715.15	142	115	-50.40	-13	-37.40	Pass	H
3812.54	146	322	-45.31	-13	-32.31	Pass	H
5882.71	145	167	-45.32	-13	-32.32	Pass	H
6608.23	152	209	-43.32	-13	-30.32	Pass	H
8004.92	147	175	-40.99	-13	-27.99	Pass	H
1218.54	158	245	-56.60	-13	-43.60	Pass	V
1448.83	157	278	-59.25	-13	-46.25	Pass	V
3529.15	158	328	-52.55	-13	-39.55	Pass	V
3917.42	156	39	-52.66	-13	-39.66	Pass	V
5795.91	152	35	-48.02	-13	-35.02	Pass	V
6472.85	152	85	-45.58	-13	-32.58	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.
1257.15	150	317	-54.92	-13	-41.92	Pass	H
1762.24	146	70	-54.32	-13	-41.32	Pass	H
3784.47	150	205	-53.25	-13	-40.25	Pass	H
5870.43	146	275	-47.14	-13	-34.14	Pass	H
6384.61	149	150	-49.55	-13	-36.55	Pass	H
8016.29	151	182	-51.48	-13	-38.48	Pass	H
1144.91	149	204	-55.88	-13	-42.88	Pass	V
1370.84	148	110	-57.17	-13	-44.17	Pass	V
3618.52	147	260	-55.54	-13	-42.54	Pass	V
3942.83	148	357	-48.06	-13	-35.06	Pass	V
5808.50	150	145	-47.35	-13	-34.35	Pass	V
6442.18	150	331	-50.78	-13	-37.78	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.
1259.22	152	253	-55.69	-13	-42.69	Pass	H
1677.24	149	221	-52.91	-13	-39.91	Pass	H
3904.84	145	286	-46.66	-13	-33.66	Pass	H
5918.08	152	195	-42.50	-13	-29.50	Pass	H
6483.71	146	217	-39.78	-13	-26.78	Pass	H
7982.84	147	327	-45.57	-13	-32.57	Pass	H
1197.95	150	31	-56.63	-13	-43.63	Pass	V
1396.68	147	192	-56.63	-13	-43.63	Pass	V
3527.94	150	327	-50.93	-13	-37.93	Pass	V
3865.09	147	232	-46.09	-13	-33.09	Pass	V
5751.81	150	200	-40.65	-13	-27.65	Pass	V
6601.41	147	347	-46.17	-13	-33.17	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.
1397.18	152	56	-58.39	-13	-45.39	Pass	H
1591.78	150	325	-48.41	-13	-35.41	Pass	H
3953.84	148	137	-47.95	-13	-34.95	Pass	H
6008.60	152	283	-43.00	-13	-30.00	Pass	H
6542.45	145	149	-46.41	-13	-33.41	Pass	H
8037.68	145	56	-42.57	-13	-29.57	Pass	H
1114.05	154	339	-51.90	-13	-38.90	Pass	V
1344.27	153	316	-56.91	-13	-43.91	Pass	V
3501.63	150	204	-49.14	-13	-36.14	Pass	V
3884.24	153	330	-54.02	-13	-41.02	Pass	V
5944.07	153	176	-48.10	-13	-35.10	Pass	V
6511.66	154	77	-50.90	-13	-37.90	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.
1259.06	147	44	-51.49	-13	-41.45	Pass	H
1645.82	148	151	-48.56	-13	-37.85	Pass	H
3800.26	153	123	-45.31	-13	-35.2	Pass	H
5830.89	146	169	-42.76	-13	-30.39	Pass	H
6507.01	149	345	-46.76	-13	-32.24	Pass	H
8107.47	147	292	-42.09	-13	-30.22	Pass	H
1249.15	147	22	-60.05	-13	-44.9	Pass	V
1307.12	150	289	-57.08	-13	-43.63	Pass	V
3606.00	154	358	-47.25	-13	-35.94	Pass	V
3871.85	151	79	-45.98	-13	-36.01	Pass	V
5818.88	155	65	-49.44	-13	-33.75	Pass	V
6522.57	152	186	-47.03	-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.
1241.22	152	133	-54.25	-13	-41.25	Pass	H
1695.57	152	176	-48.20	-13	-35.20	Pass	H
3940.41	146	321	-43.90	-13	-30.90	Pass	H
5970.86	147	147	-40.66	-13	-27.66	Pass	H
6452.23	150	353	-43.01	-13	-30.01	Pass	H
8066.94	146	81	-45.92	-13	-32.92	Pass	H
1265.41	152	64	-53.77	-13	-40.77	Pass	V
1456.05	148	21	-61.48	-13	-48.48	Pass	V
3624.49	147	210	-52.14	-13	-39.14	Pass	V
3860.53	147	115	-48.93	-13	-35.93	Pass	V
5855.34	146	143	-46.70	-13	-33.70	Pass	V
6526.91	153	337	-43.20	-13	-30.20	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=DC4.2V; Low Voltage LV=DC3.78V; High Voltage HV=DC4.62V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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