



TEST REPORT

Test item description: Smart Call Tablet PC
FCC ID: 2BW35-Q2
Trademark(s): **MONSTER®**
Model/Type reference: Q2, Q3, Q5, Q6, Q8, Q9, D22, D50, D60, D80, D90, F2, F3, F5, F6, F8, F9
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Sample Received Date: Nov. 20, 2025
Sample tested Date: Nov. 20, 2025 to May. 18, 2026
Issue Date: May. 18, 2026
Report No.: CTB25112014021RF07
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. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" 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
CTB25112014021RF07	May. 18, 2026	Original	Valid

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
Conducted output power	Part 2.1046(a)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 22.913(a)(5)/Part27.50(h)(2)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
peak-to-average ratio	Part 27.50(d)	KDB 971168 D01v03r01	PASS
99% & 26dB Occupied Bandwidth	Part 2.1049(h)	KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 27.53(m) (4)	KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 22.917(a)/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	Part 2.1053/ Part 22.917(a)/Part 27.53(m) (4)	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	Part 2.1055/Part 27.54	TIA-603-E-2016 & KDB 971168 D01v03r01	PASS

3. MEASUREMENT UNCERTAINTY

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

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power Above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m 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/Type reference:	Q2, Q3, Q5, Q6, Q8, Q9, D22, D50, D60, D80, D90, F2, F3, F5, F6, F8, F9
Model Description:	All the model are the same circuit and RF module, only the model names and appearances are different. Test sample model: Q2
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	FDD-LTE BAND 2: 1850-1910MHz FDD-LTE BAND 4: 1710-1755MHz FDD-LTE BAND 5: 824-849MHz FDD-LTE BAND 7: 2500-2570MHz
Max. RF output power:	FDD-LTE BAND 2: 21.61 dBm FDD-LTE BAND 4: 21.86dBm FDD-LTE BAND 5: 23.5dBm FDD-LTE BAND 7: 22.28dBm
Type of Modulation:	QPSK, 16QAM
Antenna installation:	FPC antenna
Antenna Gain:	FDD-LTE BAND 2: -1.72dBi FDD-LTE BAND 4: -1.61dBi FDD-LTE BAND 5: -6.49dBi FDD-LTE BAND 7: -4.3dBi
Ratings:	DC 5V charging from adapter DC 3.8V 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/Type No.	Series No.	Note
1	Adapter	JIYIN	JY-05100C	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Test Mode

Test Mode List		
Test Mode	Description	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

4.5 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC):	3.8V
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, Xinhua 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.

FCC Test Firm Registration Number: CN1276

5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/5/23	2026/5/22
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/5/23	2026/5/22
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/5/23	2026/5/22
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/5/23	2026/5/22
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/5/23	2026/5/22
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/5/22	2026/5/21
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/5/22	2026/5/21
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/5/22	2026/5/21
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	/	2025/6/18	2026/6/17
10	5 GHz Filter	Shenxiang	MSF5150-5850 MS-1155	20181015001	/	2025/6/18	2026/6/17
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	/	2025/5/24	2026/5/23
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	/	2025/10/20	2026/10/19
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/5/22	2026/5/21
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/5/23	2026/5/22

18	Amplifier	HP	8447E	2945A02747	/	2025/5/23	2026/5/22
19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/2	2026/6/1
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29	2026/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/1	2026/5/31
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/2	2026/6/1
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/2	2026/6/1
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/2	2026/6/1
27	Power Metter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/2	2026/6/1

6. RF EXPOSURE

6.1 Standard Applicable

According to §1.1307 and §2.1091, §2.1093, the portable transmitter must comply the RF exposure requirements.

6.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure report.

7. RF OUTPUT POWER

7.1 Standard Applicable

According to §22.913(a)(2), the ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

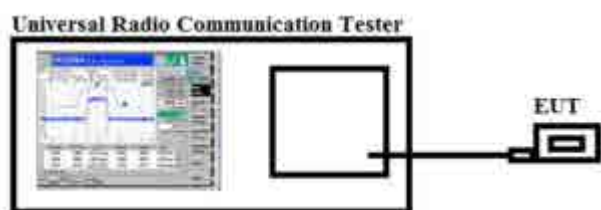
According to §24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to §27.50(d)(4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

According to §27.50(c)(10), portable stations (hand-held devices) in the 698-746 MHz band are limited to 3 watts ERP.

7.2 Test Procedure

Conducted output power test method:



Radiated power test method:

1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

7.3 Summary of Test Results/Plots

Please refer to Appendix 1: Conducted output power

Test result: Pass

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

8.1 Standard Applicable

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to §27.50(B), the peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal

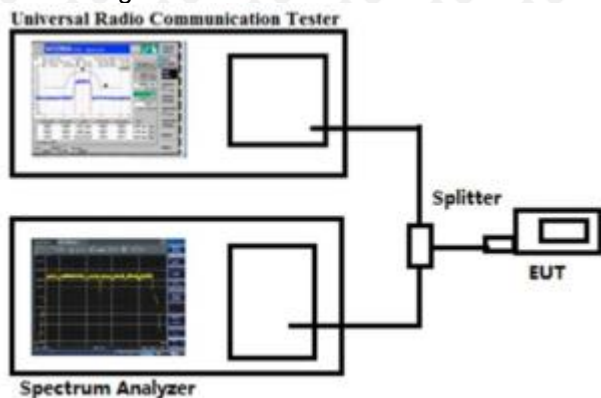
corresponding to the highest PAPR expected during periods of continuous transmission.

8.2 Test Procedure

According with KDB 971168

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Configuration for the emission bandwidth testing:



8.3 Summary of Test Results

Please refer to Appendix 3: Peak-to-Average Ratio

Test result: Pass

9. EMISSION BANDWIDTH

9.1 Standard Applicable

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

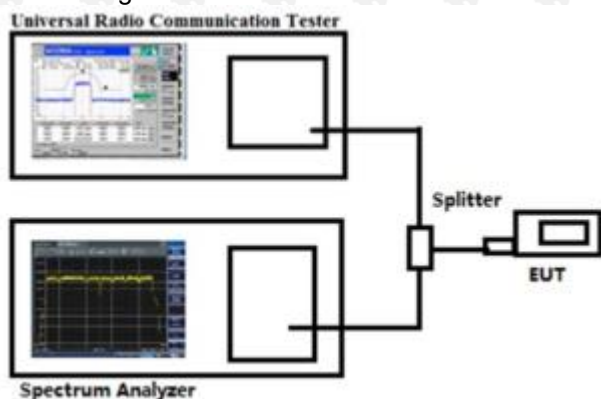
According to §24.238(b), the emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

9.2 Test Procedure

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

Test Configuration for the emission bandwidth testing:



9.3 Summary of Test Results/Plots

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

Test result: Pass

10. OUT OF BAND EMISSIONS AT ANTENNA TERMINAL

10.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

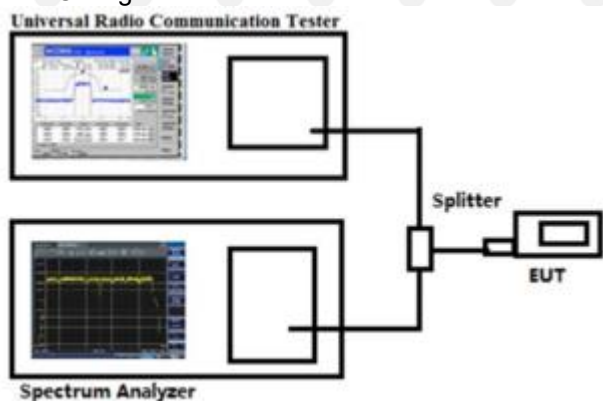
According to §27.53(g), for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$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

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

10.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to 10 th harmonic.

Test Configuration for the out of band emissions testing:



10.3 Summary of Test Results/Plots

Please refer to Appendix 5 & 6: Band Edge & Conducted Spurious Emission

Test result: Pass

11. SPURIOUS RADIATED EMISSIONS

11.1 Standard Applicable

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

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

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

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

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

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

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

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

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

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

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

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

11.2 Test Procedure

1. The setup of EUT is according with per ANSI/TIA-603-E and ANSI C63.4-2014 measurement procedure.
 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
- Spurious attenuation limit in dB = $43 + 10 \log_{10}(\text{power out in Watts})$

11.3 Summary of Test Results/Plots

- Note: 1. this EUT was tested in 3 orthogonal positions and the worst case position data was reported.
2. All test modes (different bandwidth and different modulation) are performed, but only the worst case is recorded in this report.

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.
1338.28	160	110	-57.36	-13	-44.36	Pass	H
1747.40	146	143	-46.46	-13	-33.46	Pass	H
3890.54	156	114	-47.67	-13	-34.67	Pass	H
5829.43	146	74	-43.69	-13	-30.69	Pass	H
6486.83	157	260	-46.06	-13	-33.06	Pass	H
8161.33	144	271	-42.01	-13	-29.01	Pass	H
1213.80	151	47	-55.20	-13	-42.20	Pass	V
1379.00	154	75	-57.64	-13	-44.64	Pass	V
3604.95	151	74	-51.33	-13	-38.33	Pass	V
3882.63	153	199	-51.64	-13	-38.64	Pass	V
5759.70	145	284	-46.64	-13	-33.64	Pass	V
6605.05	156	302	-45.78	-13	-32.78	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.
1311.44	157	298	-55.01	-13	-42.01	Pass	H
1653.31	143	210	-48.44	-13	-35.44	Pass	H
3823.88	149	279	-47.13	-13	-34.13	Pass	H
5962.54	151	181	-45.23	-13	-32.23	Pass	H
6477.41	157	303	-45.17	-13	-32.17	Pass	H
8110.04	144	293	-40.89	-13	-27.89	Pass	H
1107.41	147	350	-52.48	-13	-39.48	Pass	V
1396.80	155	155	-55.79	-13	-42.79	Pass	V
3624.31	149	134	-48.54	-13	-35.54	Pass	V
3915.30	144	340	-53.83	-13	-40.83	Pass	V
5705.40	158	130	-46.22	-13	-33.22	Pass	V
6527.01	156	308	-49.00	-13	-36.00	Pass	V

Band 2 19193 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1278.07	158	319	-57.15	-13	-44.15	Pass	H
1670.89	155	192	-47.48	-13	-34.48	Pass	H
3889.96	141	342	-45.61	-13	-32.61	Pass	H
5969.23	140	52	-44.92	-13	-31.92	Pass	H
6595.49	155	201	-43.26	-13	-30.26	Pass	H
8116.25	152	54	-45.38	-13	-32.38	Pass	H
1206.91	140	210	-53.52	-13	-40.52	Pass	V
1432.15	154	27	-60.10	-13	-47.10	Pass	V
3469.62	152	136	-48.80	-13	-35.80	Pass	V
3863.97	148	195	-52.29	-13	-39.29	Pass	V
5786.63	143	320	-50.51	-13	-37.51	Pass	V
6551.15	152	266	-45.34	-13	-32.34	Pass	V

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Band 2 18607 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1360.63	159	39	-55.89	-13	-42.89	Pass	H
1728.67	156	270	-51.18	-13	-38.18	Pass	H
3881.46	158	149	-48.62	-13	-35.62	Pass	H
5899.77	157	42	-45.35	-13	-32.35	Pass	H
6525.40	158	293	-41.67	-13	-28.67	Pass	H
8015.59	155	331	-42.55	-13	-29.55	Pass	H
1244.56	142	156	-55.18	-13	-42.18	Pass	V
1405.96	159	86	-56.00	-13	-43.00	Pass	V
3466.54	155	349	-50.39	-13	-37.39	Pass	V
3755.04	152	238	-52.16	-13	-39.16	Pass	V
5750.20	154	194	-46.31	-13	-33.31	Pass	V
6523.82	159	237	-46.92	-13	-33.92	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.
1337.85	147	273	-57.66	-13	-44.66	Pass	H
1701.42	141	67	-49.87	-13	-36.87	Pass	H
3925.47	157	3	-47.42	-13	-34.42	Pass	H
5855.52	144	125	-45.37	-13	-32.37	Pass	H
6482.90	152	187	-43.67	-13	-30.67	Pass	H
8067.78	141	194	-41.87	-13	-28.87	Pass	H
1195.74	142	98	-53.12	-13	-40.12	Pass	V
1429.98	159	206	-59.96	-13	-46.96	Pass	V
3538.85	140	309	-49.56	-13	-36.56	Pass	V
3895.49	158	219	-49.85	-13	-36.85	Pass	V
5812.04	149	125	-47.57	-13	-34.57	Pass	V
6504.90	145	72	-45.99	-13	-32.99	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.
1289.70	143	101	-57.86	-13	-44.86	Pass	H
1726.52	151	36	-50.48	-13	-37.48	Pass	H
3889.86	145	15	-49.70	-13	-36.70	Pass	H
5838.63	160	200	-46.14	-13	-33.14	Pass	H
6558.09	152	220	-42.63	-13	-29.63	Pass	H
8034.58	154	225	-43.98	-13	-30.98	Pass	H
1284.56	143	75	-56.33	-13	-43.33	Pass	V
1506.65	151	138	-57.13	-13	-44.13	Pass	V
3641.73	147	131	-50.06	-13	-37.06	Pass	V
3838.63	152	289	-49.21	-13	-36.21	Pass	V
5798.78	156	305	-50.18	-13	-37.18	Pass	V
6478.87	142	55	-47.65	-13	-34.65	Pass	V

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Band 4 19957 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1290.56	154	204	-56.11	-13	-43.11	Pass	H
1769.87	158	229	-50.32	-13	-37.32	Pass	H
3928.91	159	29	-45.24	-13	-32.24	Pass	H
5888.23	149	103	-43.84	-13	-30.84	Pass	H
6597.73	160	300	-46.10	-13	-33.10	Pass	H
7994.73	144	358	-43.94	-13	-30.94	Pass	H
1222.20	158	274	-53.44	-13	-40.44	Pass	V
1396.71	143	308	-60.19	-13	-47.19	Pass	V
3473.88	157	182	-49.39	-13	-36.39	Pass	V
3850.74	144	359	-49.93	-13	-36.93	Pass	V
5762.39	142	131	-46.49	-13	-33.49	Pass	V
6461.83	156	120	-47.86	-13	-34.86	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.
1247.40	156	90	-57.54	-13	-44.54	Pass	H
1614.01	149	257	-46.75	-13	-33.75	Pass	H
3981.01	150	182	-47.57	-13	-34.57	Pass	H
5980.15	153	227	-45.40	-13	-32.40	Pass	H
6443.31	148	98	-44.36	-13	-31.36	Pass	H
8123.16	142	236	-41.87	-13	-28.87	Pass	H
1286.50	149	187	-56.32	-13	-43.32	Pass	V
1363.77	153	59	-58.79	-13	-45.79	Pass	V
3477.57	141	5	-49.42	-13	-36.42	Pass	V
3747.13	154	41	-51.71	-13	-38.71	Pass	V
5852.65	155	112	-48.21	-13	-35.21	Pass	V
6650.99	151	357	-47.03	-13	-34.03	Pass	V

Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1249.01	155	248	-54.27	-13	-41.27	Pass	H
1657.31	147	169	-47.30	-13	-34.30	Pass	H
3927.90	149	291	-41.87	-13	-28.87	Pass	H
5975.28	150	129	-37.59	-13	-24.59	Pass	H
6491.31	151	284	-44.71	-13	-31.71	Pass	H
8163.22	146	171	-41.09	-13	-28.09	Pass	H
1201.11	154	241	-56.69	-13	-43.69	Pass	V
1373.21	149	27	-56.93	-13	-43.93	Pass	V
3555.16	150	148	-53.44	-13	-40.44	Pass	V
3808.95	151	168	-44.58	-13	-31.58	Pass	V
5819.39	155	276	-47.94	-13	-34.94	Pass	V
6652.15	146	96	-45.53	-13	-32.53	Pass	V

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Band 4 19957 channel/BW1.4(lowest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1354.01	159	327	-58.65	-13	-45.65	Pass	H
1726.12	146	349	-51.16	-13	-38.16	Pass	H
3829.65	146	7	-46.77	-13	-33.77	Pass	H
5834.04	146	66	-42.28	-13	-29.28	Pass	H
6567.55	147	106	-42.98	-13	-29.98	Pass	H
8048.50	156	329	-42.10	-13	-29.10	Pass	H
1215.75	152	222	-55.10	-13	-42.10	Pass	V
1551.03	158	108	-57.21	-13	-44.21	Pass	V
3448.43	160	267	-49.87	-13	-36.87	Pass	V
3879.04	151	262	-52.97	-13	-39.97	Pass	V
5852.40	153	139	-49.46	-13	-36.46	Pass	V
6630.44	159	9	-48.49	-13	-35.49	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.
1264.70	146	70	-59.27	-13	-46.27	Pass	H
1649.57	143	318	-49.60	-13	-36.60	Pass	H
3954.33	160	160	-49.27	-13	-36.27	Pass	H
5882.37	148	57	-46.33	-13	-33.33	Pass	H
6538.94	145	294	-42.40	-13	-29.40	Pass	H
8120.40	148	231	-45.09	-13	-32.09	Pass	H
1215.53	142	258	-55.41	-13	-42.41	Pass	V
1462.79	147	19	-59.29	-13	-46.29	Pass	V
3489.17	140	40	-51.45	-13	-38.45	Pass	V
3768.79	155	253	-49.32	-13	-36.32	Pass	V
5813.88	143	343	-47.98	-13	-34.98	Pass	V
6540.40	158	261	-45.94	-13	-32.94	Pass	V
Band 4 20393 channel/BW1.4(highest channel)							
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1388.47	150	167	-56.52	-13	-43.52	Pass	H
1767.31	153	52	-47.24	-13	-34.24	Pass	H
3885.07	155	56	-47.10	-13	-34.10	Pass	H
5874.67	140	3	-46.37	-13	-33.37	Pass	H
6591.50	150	128	-45.85	-13	-32.85	Pass	H
7986.95	156	330	-42.27	-13	-29.27	Pass	H
1135.30	147	187	-54.87	-13	-41.87	Pass	V
1442.54	146	36	-58.55	-13	-45.55	Pass	V
3570.58	153	300	-51.48	-13	-38.48	Pass	V
3735.35	152	196	-49.05	-13	-36.05	Pass	V
5781.28	144	298	-46.48	-13	-33.48	Pass	V
6565.66	145	257	-45.54	-13	-32.54	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.
1406.67	149	159	-54.28	-13	-41.28	Pass	H
1607.41	150	359	-47.69	-13	-34.69	Pass	H
3775.02	148	242	-49.63	-13	-36.63	Pass	H
5936.13	146	20	-42.16	-13	-29.16	Pass	H
6462.54	151	137	-42.06	-13	-29.06	Pass	H
7991.03	146	283	-43.43	-13	-30.43	Pass	H
1205.45	145	353	-56.98	-13	-43.98	Pass	V
1413.30	150	4	-56.19	-13	-43.19	Pass	V
3600.44	150	69	-53.67	-13	-40.67	Pass	V
3882.80	153	101	-50.02	-13	-37.02	Pass	V
5887.81	150	297	-43.67	-13	-30.67	Pass	V
6651.90	148	309	-45.25	-13	-32.25	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.
1400.67	149	336	-52.32	-13	-39.32	Pass	H
1699.48	149	48	-47.91	-13	-34.91	Pass	H
3863.94	150	7	-48.17	-13	-35.17	Pass	H
5939.69	146	15	-42.07	-13	-29.07	Pass	H
6467.49	155	146	-45.65	-13	-32.65	Pass	H
8013.12	146	96	-42.34	-13	-29.34	Pass	H
1210.98	155	255	-60.36	-13	-47.36	Pass	V
1308.70	155	211	-57.96	-13	-44.96	Pass	V
3590.02	147	99	-45.82	-13	-32.82	Pass	V
3822.01	147	150	-47.69	-13	-34.69	Pass	V
5757.49	148	278	-41.57	-13	-28.57	Pass	V
6451.51	152	104	-42.86	-13	-29.86	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.
1239.12	147	88	-52.87	-13	-39.87	Pass	H
1700.82	151	11	-45.39	-13	-32.39	Pass	H
3836.96	148	247	-40.69	-13	-27.69	Pass	H
5870.37	150	213	-41.82	-13	-28.82	Pass	H
6555.18	153	144	-41.38	-13	-28.38	Pass	H
7988.94	148	223	-40.91	-13	-27.91	Pass	H
1289.80	150	206	-56.46	-13	-43.46	Pass	V
1511.88	146	356	-59.14	-13	-46.14	Pass	V
3635.11	152	154	-48.93	-13	-35.93	Pass	V
3886.98	152	254	-49.51	-13	-36.51	Pass	V
5869.07	155	102	-48.40	-13	-35.40	Pass	V
6615.25	148	42	-47.53	-13	-34.53	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.
1332.36	151	188	-55.28	-13	-42.28	Pass	H
1645.42	147	303	-53.46	-13	-40.46	Pass	H
3983.24	150	42	-51.50	-13	-38.50	Pass	H
5932.48	153	155	-44.19	-13	-31.19	Pass	H
6581.08	150	235	-45.31	-13	-32.31	Pass	H
8068.73	154	172	-49.07	-13	-36.07	Pass	H
1195.23	152	251	-54.68	-13	-41.68	Pass	V
1426.44	150	325	-58.15	-13	-45.15	Pass	V
3645.15	146	53	-50.37	-13	-37.37	Pass	V
3860.30	154	236	-51.37	-13	-38.37	Pass	V
5892.80	155	171	-48.58	-13	-35.58	Pass	V
6608.28	153	208	-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.
1211.60	149	282	-54.10	-13	-41.10	Pass	H
1626.17	154	101	-54.52	-13	-41.52	Pass	H
3910.58	146	16	-47.20	-13	-34.20	Pass	H
5866.15	151	91	-47.51	-13	-34.51	Pass	H
6421.63	146	168	-49.99	-13	-36.99	Pass	H
8010.90	145	348	-43.15	-13	-30.15	Pass	H
1232.14	148	348	-54.05	-13	-41.05	Pass	V
1431.45	152	132	-59.75	-13	-46.75	Pass	V
3687.57	152	49	-49.28	-13	-36.28	Pass	V
4008.82	151	305	-52.90	-13	-39.90	Pass	V
5919.46	150	36	-49.71	-13	-36.71	Pass	V
6585.12	154	195	-46.82	-13	-33.82	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.
1323.89	153	61	-53.54	-13	-40.54	Pass	H
1647.11	148	180	-52.32	-13	-39.32	Pass	H
3788.24	152	234	-43.23	-13	-30.23	Pass	H
5832.44	152	138	-43.01	-13	-30.01	Pass	H
6517.93	155	269	-40.91	-13	-27.91	Pass	H
7997.99	154	36	-43.42	-13	-30.42	Pass	H
1201.40	153	161	-50.38	-13	-37.38	Pass	V
1385.95	154	35	-49.88	-13	-36.88	Pass	V
3480.90	148	145	-49.37	-13	-36.37	Pass	V
3870.58	149	133	-45.05	-13	-32.05	Pass	V
5726.61	152	112	-46.35	-13	-33.35	Pass	V
6501.10	154	131	-44.72	-13	-31.72	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.
1281.80	144	3	-58.39	-13	-45.39	Pass	H
1759.19	151	291	-47.34	-13	-34.34	Pass	H
3894.99	157	93	-45.94	-13	-32.94	Pass	H
5873.85	147	193	-46.94	-13	-33.94	Pass	H
6477.89	140	236	-43.99	-13	-30.99	Pass	H
8063.07	144	318	-42.86	-13	-29.86	Pass	H
1233.15	140	332	-54.93	-13	-41.93	Pass	V
1547.64	154	195	-56.67	-13	-43.67	Pass	V
3573.46	143	93	-49.14	-13	-36.14	Pass	V
3860.45	156	126	-50.89	-13	-37.89	Pass	V
5804.53	152	163	-47.49	-13	-34.49	Pass	V
6593.41	141	62	-48.19	-13	-35.19	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.
1266.89	150	163	-59.10	-13	-46.10	Pass	H
1805.53	146	130	-50.11	-13	-37.11	Pass	H
3816.47	150	62	-52.28	-13	-39.28	Pass	H
5938.00	146	306	-46.36	-13	-33.36	Pass	H
6509.51	149	249	-51.36	-13	-38.36	Pass	H
7942.03	151	11	-49.50	-13	-36.50	Pass	H
1200.89	149	242	-53.72	-13	-40.72	Pass	V
1465.44	148	269	-57.98	-13	-44.98	Pass	V
3533.03	147	140	-51.01	-13	-38.01	Pass	V
3816.89	148	178	-50.09	-13	-37.09	Pass	V
5778.64	150	235	-48.07	-13	-35.07	Pass	V
6509.73	150	148	-50.57	-13	-37.57	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.
1320.44	147	332	-58.93	-13	-45.93	Pass	H
1685.06	152	312	-51.10	-13	-38.10	Pass	H
3942.95	151	27	-43.75	-13	-30.75	Pass	H
5863.31	146	278	-43.01	-13	-30.01	Pass	H
6540.79	148	129	-39.65	-13	-26.65	Pass	H
8098.11	149	39	-44.71	-13	-31.71	Pass	H
1221.45	148	163	-58.61	-13	-45.61	Pass	V
1386.73	149	175	-53.99	-13	-40.99	Pass	V
3541.56	154	105	-55.03	-13	-42.03	Pass	V
3923.79	146	151	-51.01	-13	-38.01	Pass	V
5836.89	147	150	-42.27	-13	-29.27	Pass	V
6509.84	149	336	-49.61	-13	-36.61	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.
1263.74	151	291	-57.44	-13	-44.44	Pass	H
1786.15	152	326	-44.88	-13	-31.88	Pass	H
3901.37	151	340	-49.51	-13	-36.51	Pass	H
5961.65	149	220	-46.57	-13	-33.57	Pass	H
6612.24	151	283	-46.78	-13	-33.78	Pass	H
8026.94	148	210	-42.19	-13	-29.19	Pass	H
1159.75	149	209	-54.78	-13	-41.78	Pass	V
1346.06	151	249	-53.31	-13	-40.31	Pass	V
3600.75	145	105	-49.02	-13	-36.02	Pass	V
3936.53	155	41	-50.72	-13	-37.72	Pass	V
5907.49	149	59	-47.64	-13	-34.64	Pass	V
6667.10	150	217	-51.73	-13	-38.73	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.
1290.27	148	149	-52.69	-13	-41.45	Pass	H
1813.46	145	282	-50.28	-13	-37.85	Pass	H
3882.64	152	104	-50.94	-13	-35.2	Pass	H
5900.06	147	221	-41.59	-13	-30.39	Pass	H
6444.46	152	244	-45.78	-13	-32.24	Pass	H
8108.02	149	224	-41.56	-13	-30.22	Pass	H
1095.16	155	104	-53.94	-13	-44.9	Pass	V
1322.43	154	127	-54.84	-13	-43.63	Pass	V
3486.71	151	237	-45.76	-13	-35.94	Pass	V
3762.41	151	42	-46.99	-13	-36.01	Pass	V
5744.43	149	248	-47.96	-13	-33.75	Pass	V
6489.72	146	216	-42.31	-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.
1388.42	152	260	-58.06	-13	-45.06	Pass	H
1669.60	145	103	-52.14	-13	-39.14	Pass	H
3830.31	155	72	-47.13	-13	-34.13	Pass	H
5797.50	151	345	-41.05	-13	-28.05	Pass	H
6572.90	150	18	-39.14	-13	-26.14	Pass	H
8041.68	147	85	-45.33	-13	-32.33	Pass	H
1196.34	149	196	-52.16	-13	-39.16	Pass	V
1455.95	150	162	-57.89	-13	-44.89	Pass	V
3611.85	154	161	-51.12	-13	-38.12	Pass	V
3849.66	154	46	-52.34	-13	-39.34	Pass	V
5752.54	148	288	-49.56	-13	-36.56	Pass	V
6573.16	153	275	-43.43	-13	-30.43	Pass	V

Note:

- 1) Scan from 9kHz to 25GHz, 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.

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=DC 3.8V; Low Voltage LV=DC 3.42V; High Voltage HV=DC 4.18V

Please refer to Appendix 2: Frequency Stability

Test result: Pass

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