



FCC RADIO TEST REPORT

FCC ID : 2AGOZ-NU4
Equipment : SMART GLASSES
Brand Name : 
Model Name : NU4, Aria Gen 2
Applicant : Meta Platforms Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Manufacturer : Meta Platforms Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jan. 06, 2025 and testing was performed from Mar. 21, 2025 to Mar. 27, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sportun International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different model name is for marketing segmentation.

Reviewed by: Avis Chuang

Report Producer: Ming Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Sub 1GHz, and GNSS.	
Antenna Type WLAN: <Ant. 0>: IFA Antenna <Ant. 1>: IFA Antenna	
Sample 1	L sku
Sample 2	S sku
Antenna information	
902 MHz ~ 928 MHz	Peak Gain (dBi) 2.8

Remark:

1. The antenna gain and performance are all the same on all SKUs.
2. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH11-HY

Note: The test site complies with ANSI C63.4 2014 requirement.—

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

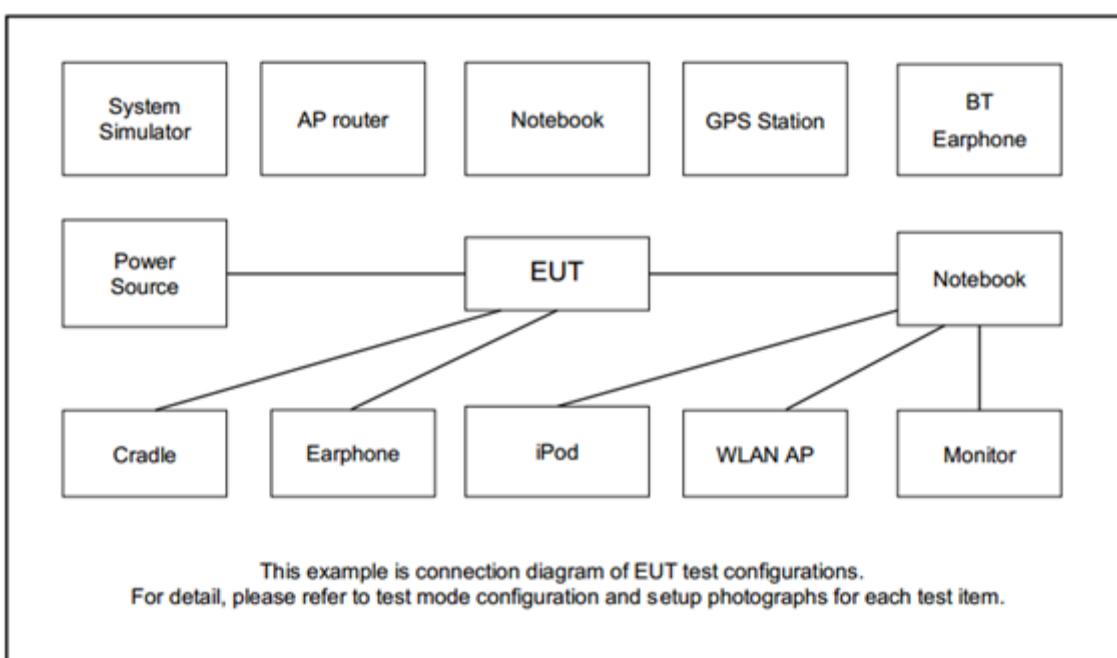
2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
902 – 928 MHz	10	903400	25	915400
	11	904200	26	916200
	12	905000	27	917000
	13	905800	28	917800
	14	906600	29	918600
	15	907400	30	919400
	16	908200	31	920200
	17	909000	32	921000
	18	909800	33	921800
	19	910600	34	922600
	20	911400	35	923400
	21	912200	36	924200
	22	913000	37	925000
	23	913800	38	925800
	24	914600	39	926600
			40	927400

2.2 Test Mode

Summary table of Test Cases	
Test Item	Sub-1GHz
Conducted Test Cases	Mode 1: CH10 S2-LP Tx _903.4 MHz Mode 2: CH25 S2-LP Tx _915.4 MHz Mode 3: CH40 S2-LP Tx _927.4 MHz
AC Conducted Emission	Mode 1: S2-LP Tx Channel 25 + USB cable + Adapter for Sample 2
Remark: 1. The detailed Radiated test modes are shown in Appendix C. 2. For radiated test cases, according to RSE pre-scan results on both SKUs, the worst condition is Sample 2 and the full test performed on it.	

2.3 Connection Diagram of Test System





2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	AC Adapter	Salcomp	MA0122	N/A	N/A	N/A
2.	USB cable	Cabletech	872-00270-01	N/A	Unshielded, 1m	N/A

2.5 EUT Operation Test Setup

Connect to EUT's COM port and enter continuous transfer commands via notebook's PuTTY program.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

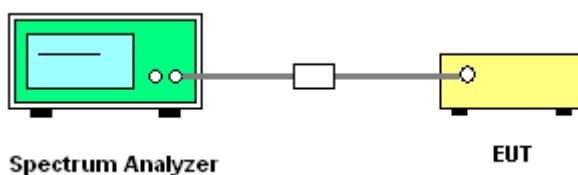
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

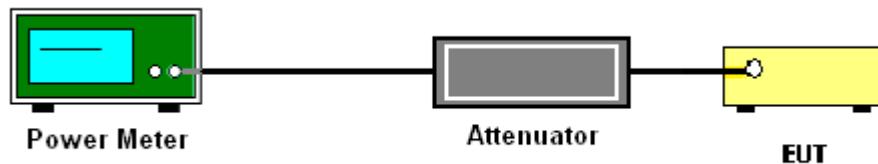
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.3 PKPM1
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

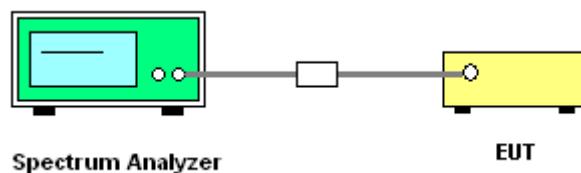
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

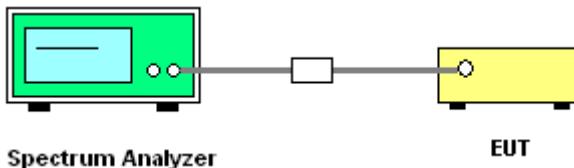
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

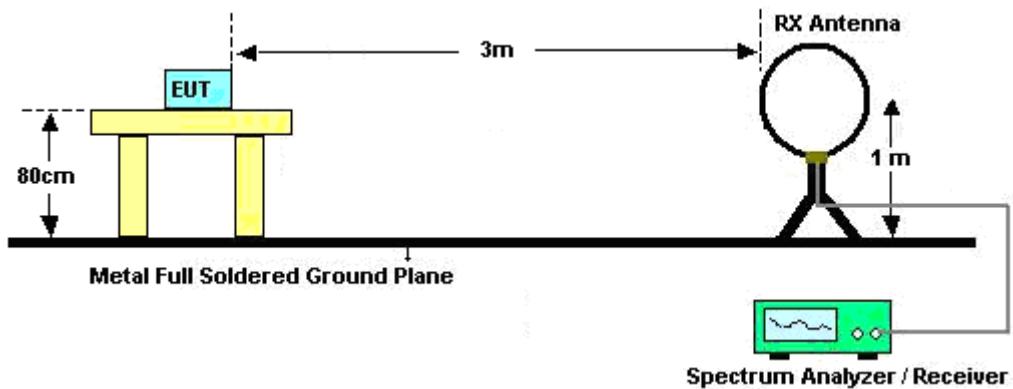
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “_”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

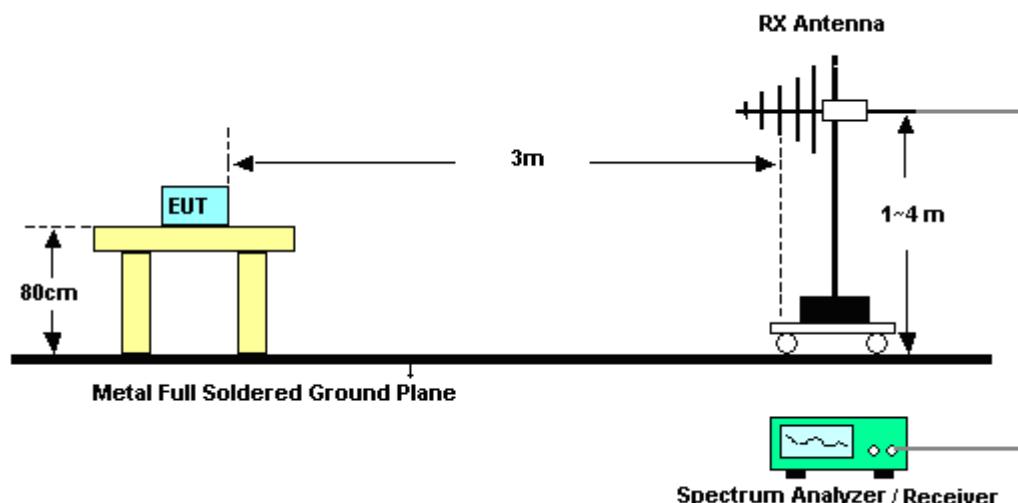
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

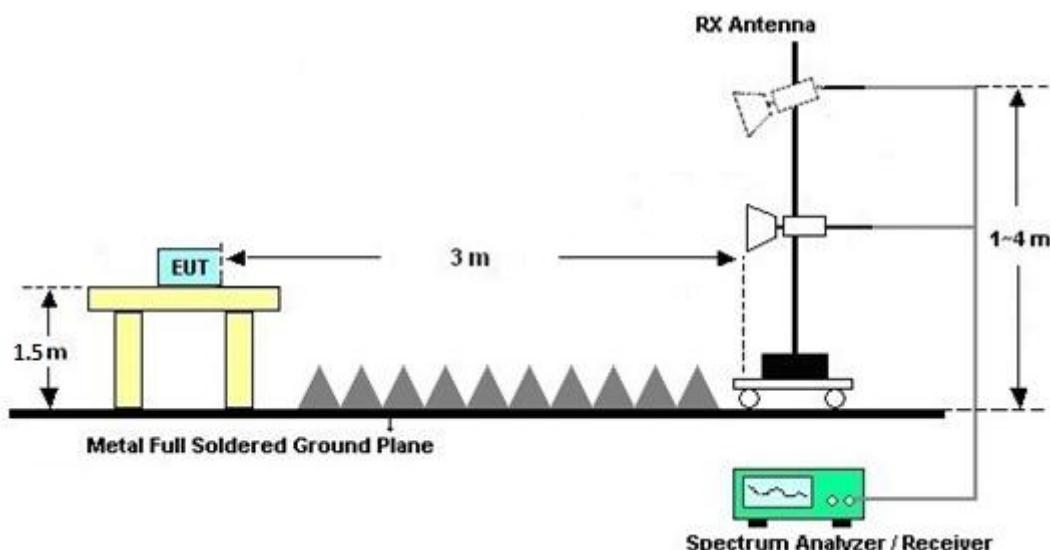
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 10GHz





3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C.



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

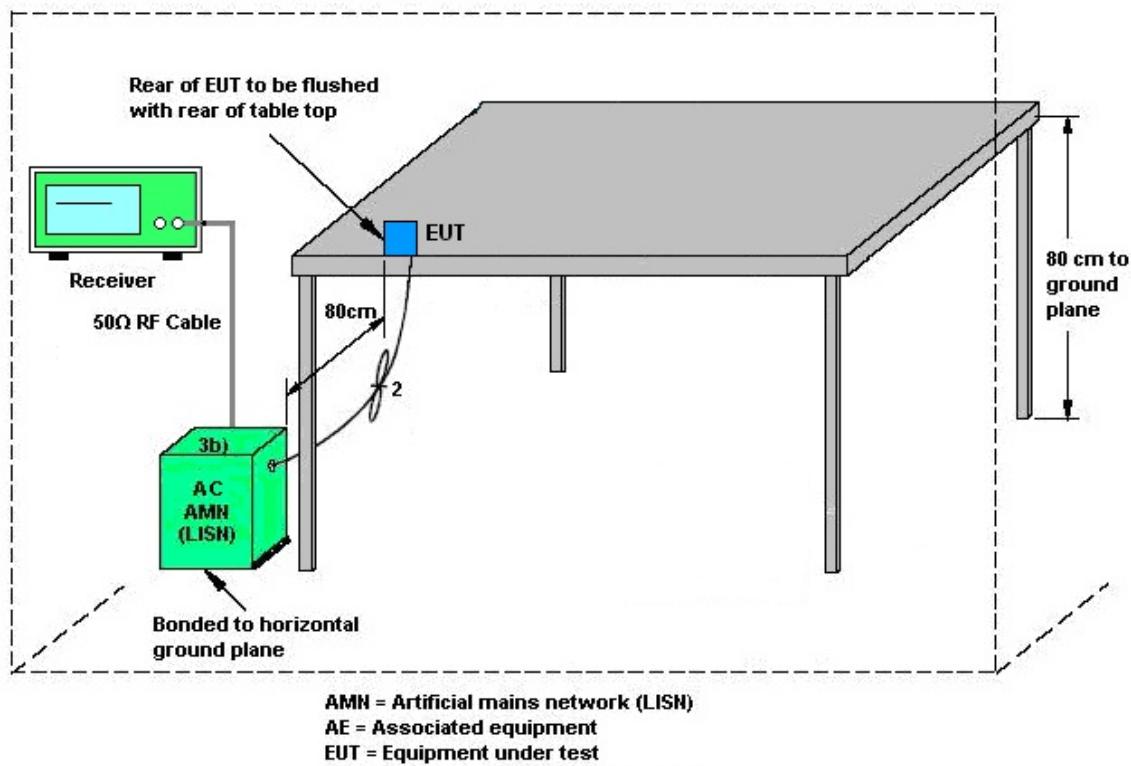
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 21, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 21, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Mar. 21, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Mar. 21, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Lisn	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 12, 2024	Mar. 21, 2025	Dec. 11, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 21, 2025	Sep. 22, 2025	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Mar. 20, 2025~Mar. 24, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Jun. 26, 2024	Mar. 20, 2025~Mar. 24, 2025	Jun. 25, 2025	Conducted (TH05-HY)
Power Sensor	Agilent	E9327A	US40441548	50MHz~18GHz	Jun. 25, 2024	Mar. 20, 2025~Mar. 24, 2025	Jun. 24, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Mar. 20, 2025~Mar. 24, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Mar. 20, 2025~Mar. 24, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Mar. 20, 2025~Mar. 24, 2025	N/A	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Mar. 24, 2025~Mar. 27, 2025	Nov. 26, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Mar. 24, 2025~Mar. 27, 2025	Aug. 28, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 28, 2024	Mar. 24, 2025~Mar. 27, 2025	Aug. 27, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Mar. 24, 2025~Mar. 27, 2025	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Mar. 24, 2025~Mar. 27, 2025	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Mar. 24, 2025~Mar. 27, 2025	Jan. 20, 2026	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	Mar. 24, 2025~Mar. 27, 2025	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 19, 2024	Mar. 24, 2025~Mar. 27, 2025	Jul. 18, 2025	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 24, 2025~Mar. 27, 2025	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 24, 2025~Mar. 27, 2025	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 24, 2025~Mar. 27, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 24, 2025~Mar. 27, 2025	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 29, 2024	Mar. 24, 2025~Mar. 27, 2025	Aug. 28, 2025	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar 05, 2025	Mar. 24, 2025~ Mar. 27, 2025	May 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar 05, 2025	Mar. 24, 2025~ Mar. 27, 2025	May 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar 05, 2025	Mar. 24, 2025~ Mar. 27, 2025	May 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar 05, 2025	Mar. 24, 2025~ Mar. 27, 2025	May 04, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WPKX12-900-1000-15000-60SS	SN12	1GHz High Pass Filter	Sep. 10, 2024	Mar. 24, 2025~ Mar. 27, 2025	Sep. 09, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 10, 2024	Mar. 24, 2025~ Mar. 27, 2025	Sep. 09, 2025	Radiation (03CH11-HY)



5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	6.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	5.1 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	5.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu			Temperature:	21~25	°C
Test Date:	2025/3/20~2025/3/25			Relative Humidity:	51~54	%

<u>TEST RESULTS DATA</u> <u>6dB and 99% Occupied Bandwidth</u>								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Sub G	250Kbps	1	CH10	903.4	0.729	0.520	0.50	Pass
Sub G	250Kbps	1	CH25	915.4	0.739	0.532	0.50	Pass
Sub G	250Kbps	1	CH40	927.4	0.705	0.520	0.50	Pass

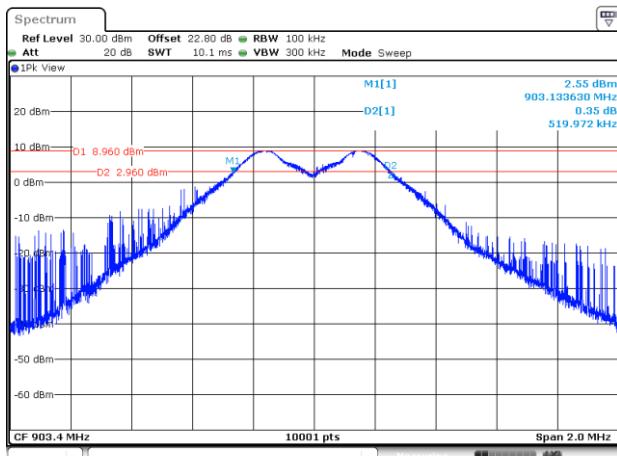
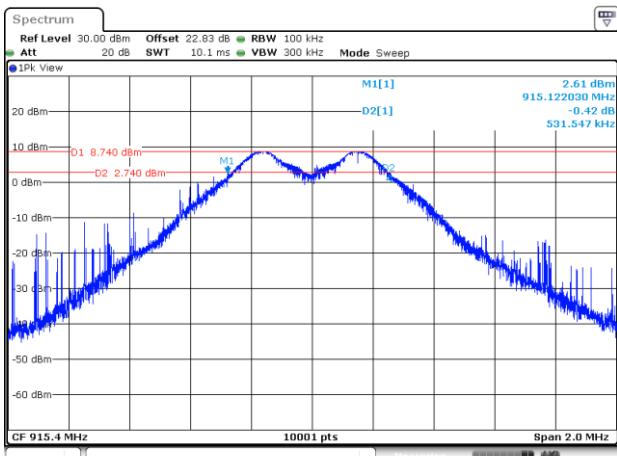
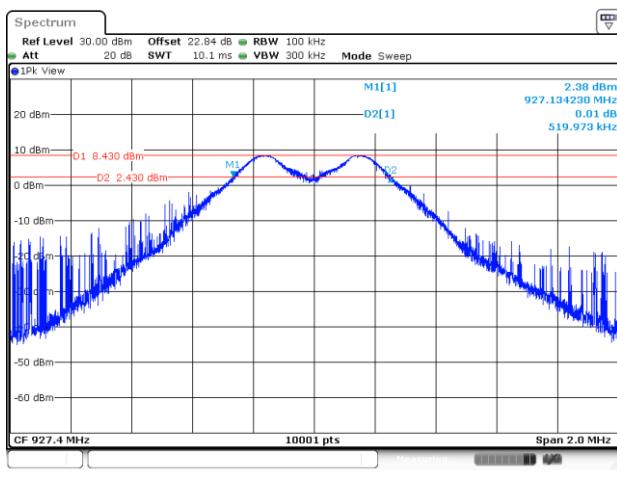
<u>TEST RESULTS DATA</u> <u>Peak Power Table</u>										Pass /Fail
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	
Sub G	250Kbps	1	CH10	903.4	9.62	30.00	2.80	12.42	36.00	Pass
Sub G	250Kbps	1	CH25	915.4	9.35	30.00	2.80	12.15	36.00	Pass
Sub G	250Kbps	1	CH40	927.4	9.05	30.00	2.80	11.85	36.00	Pass

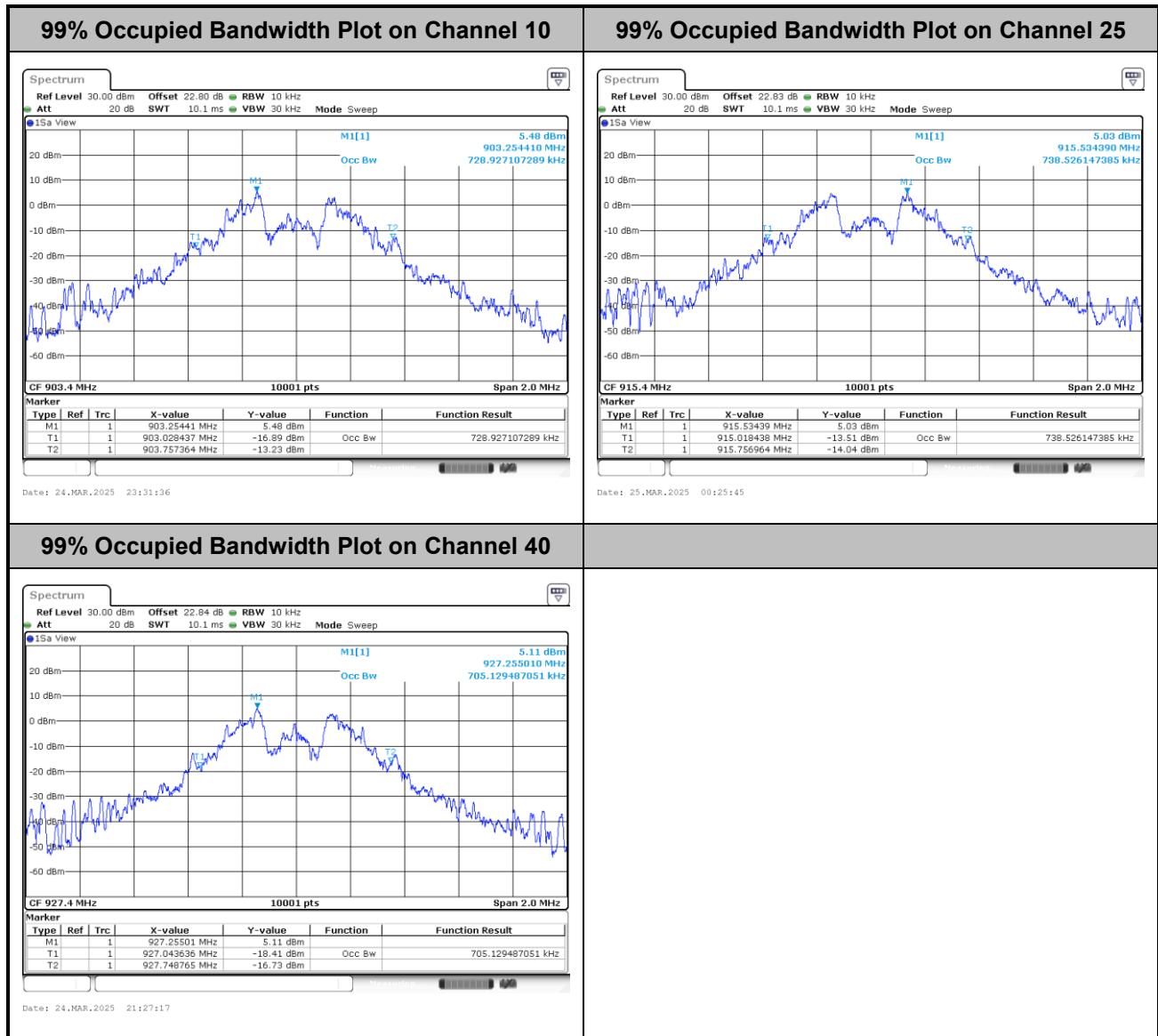
<u>TEST RESULTS DATA</u> <u>Peak Power Density</u>									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
Sub G	250Kbps	1	CH10	903.4	8.96	0.98	2.80	8.00	Pass
Sub G	250Kbps	1	CH25	915.4	8.75	1.19	2.80	8.00	Pass
Sub G	250Kbps	1	CH40	927.4	8.33	0.49	2.80	8.00	Pass

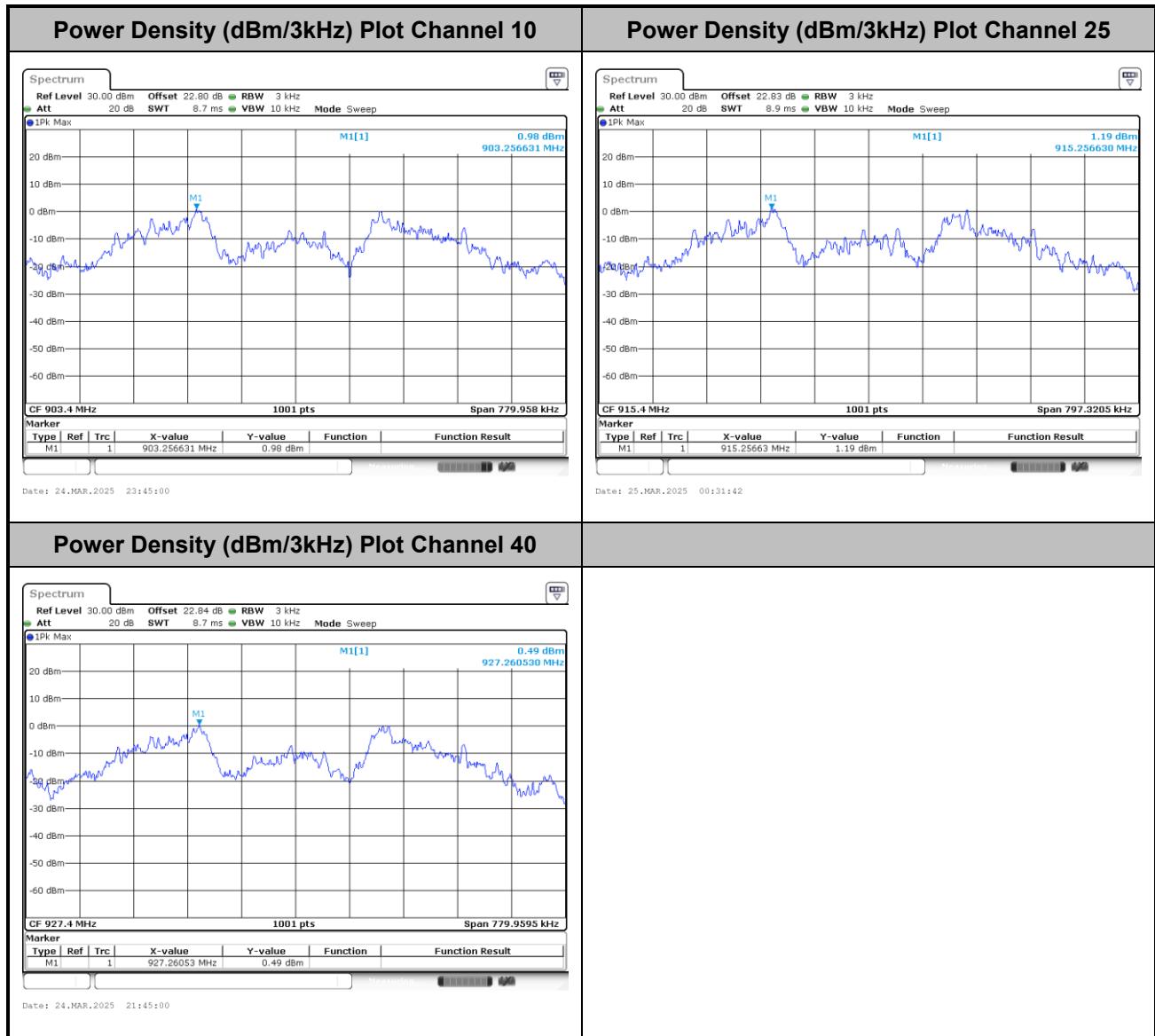
Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

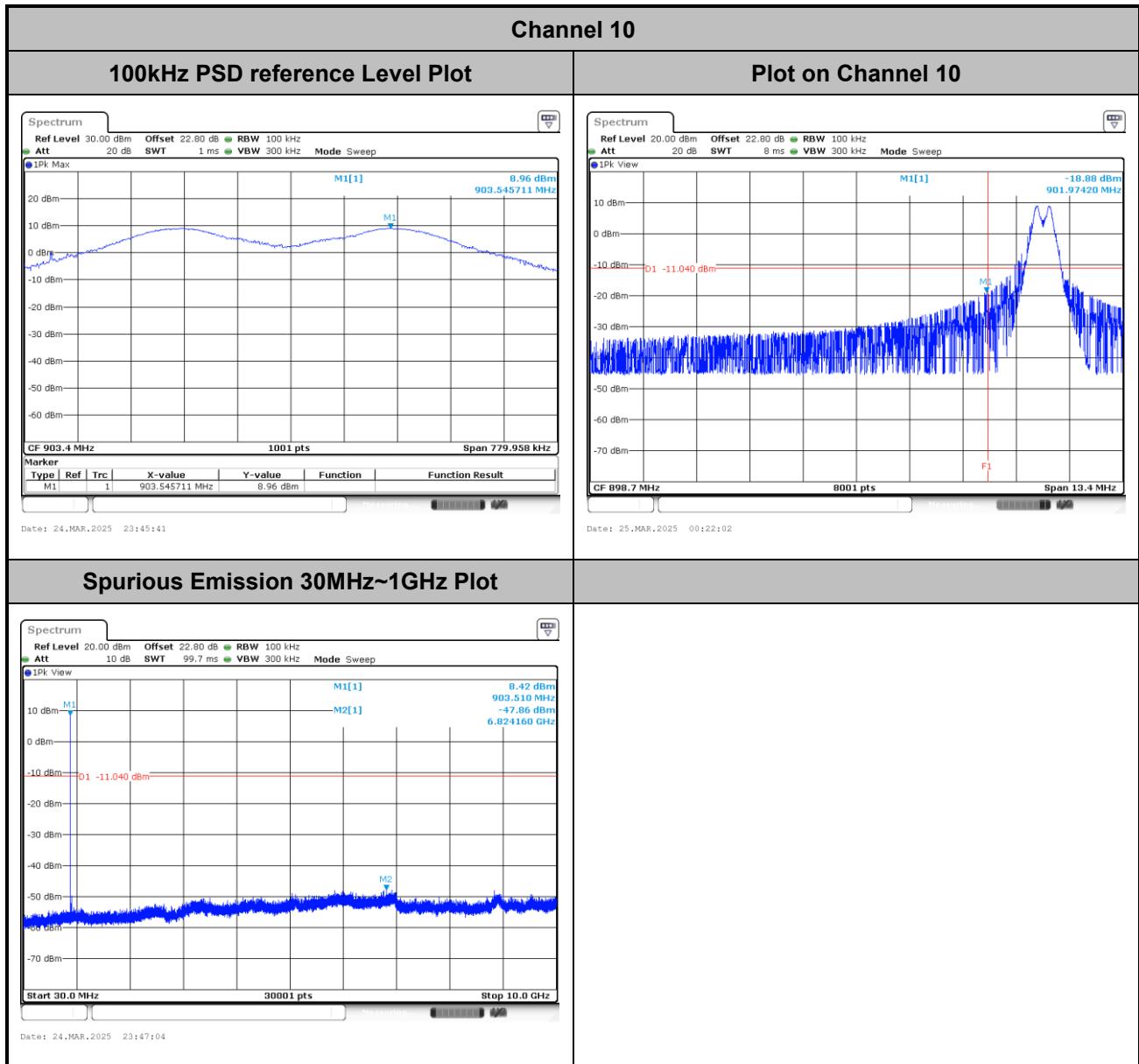
TEST RESULTS DATA
Average Power Table
(Reporting Only)

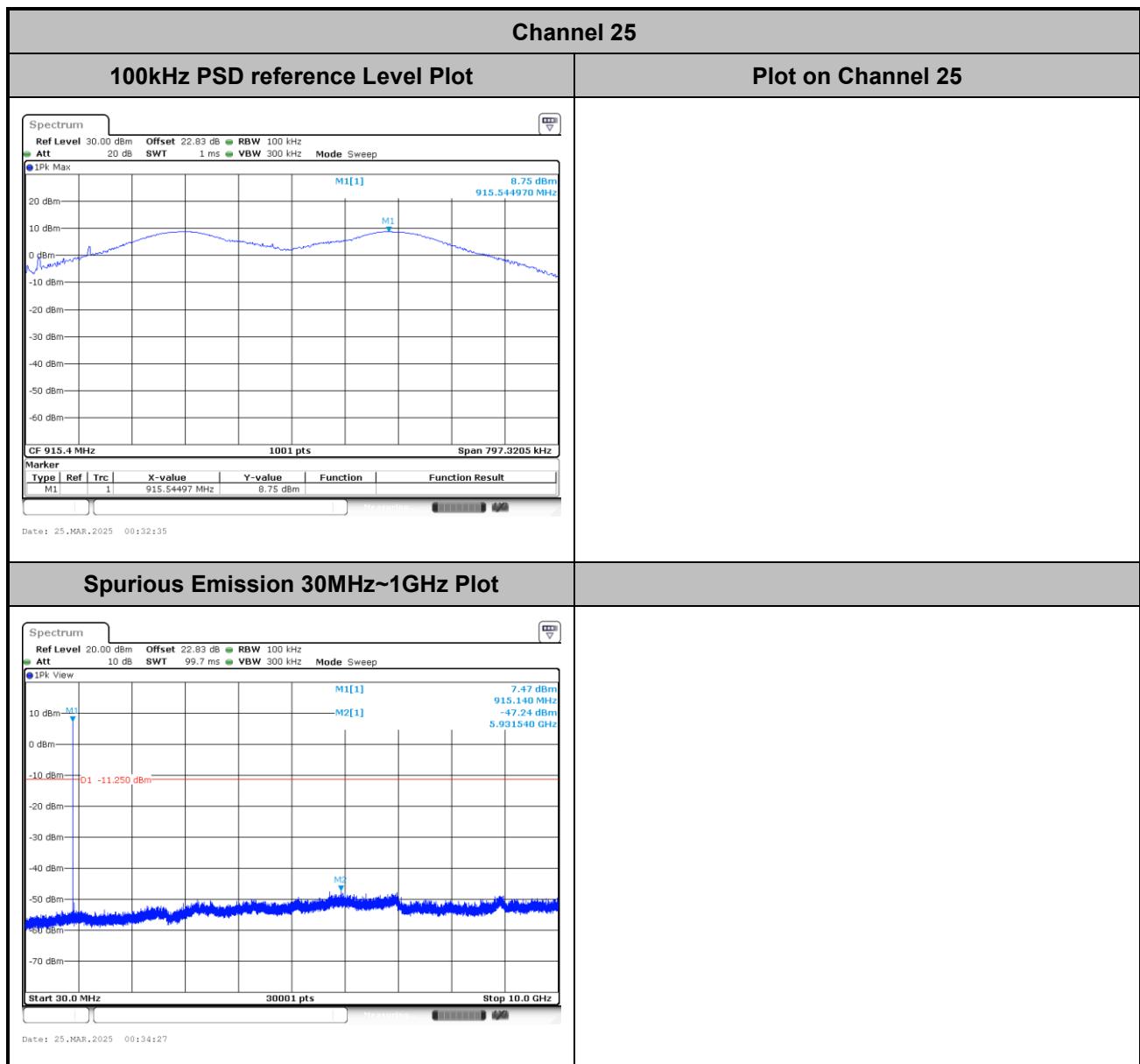
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)
Sub G	250Kbps	1	CH10	903.4	9.30
Sub G	250Kbps	1	CH25	915.4	9.20
Sub G	250Kbps	1	CH40	927.4	8.90

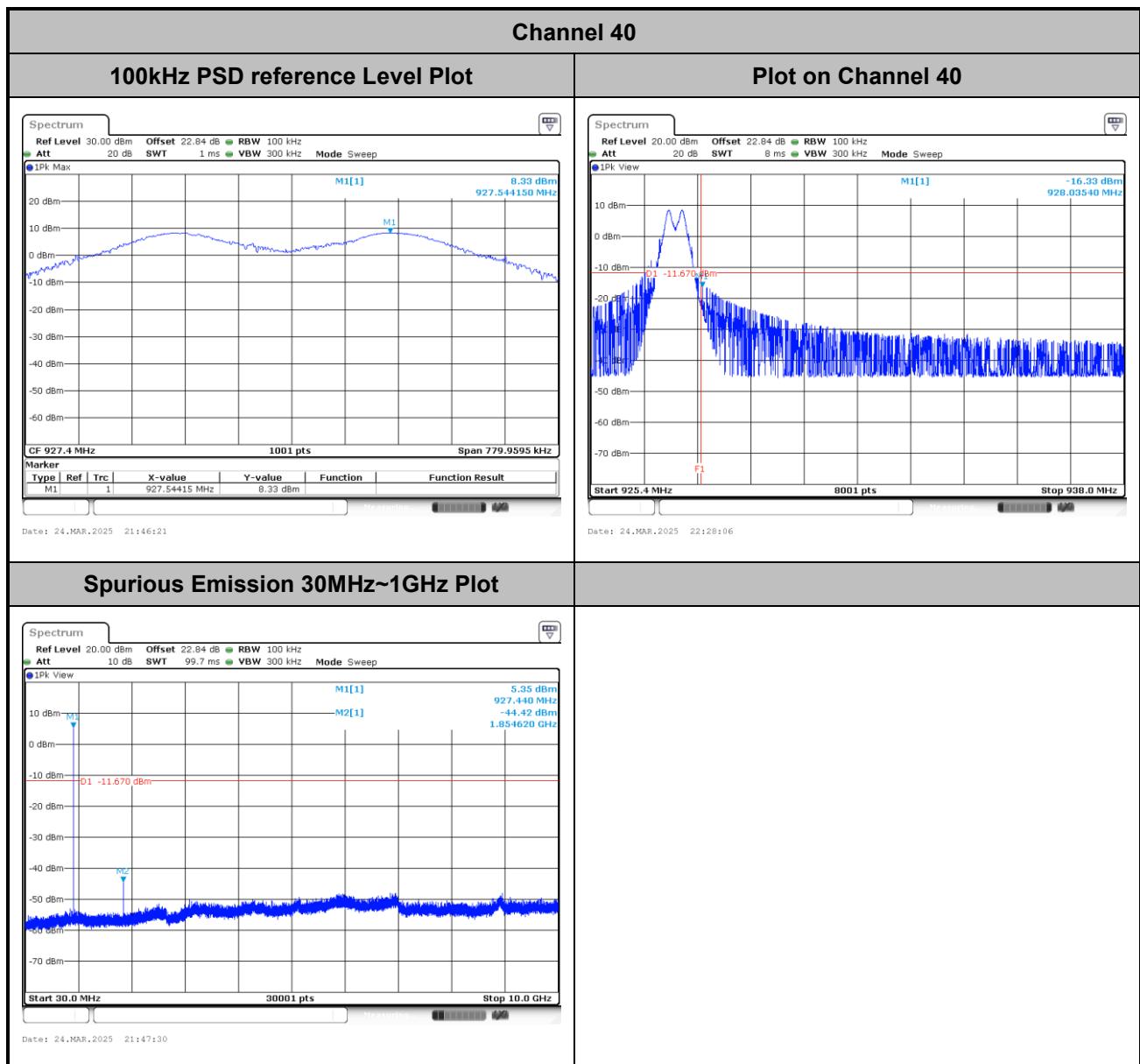
**6dB Bandwidth****6 dB Bandwidth Plot on Channel 10****6 dB Bandwidth Plot on Channel 25****6 dB Bandwidth Plot on Channel 40**

**99% Occupied Bandwidth**

**Power Spectral Density (dBm/3kHz)**

**Band Edge and Conducted Spurious Emission**







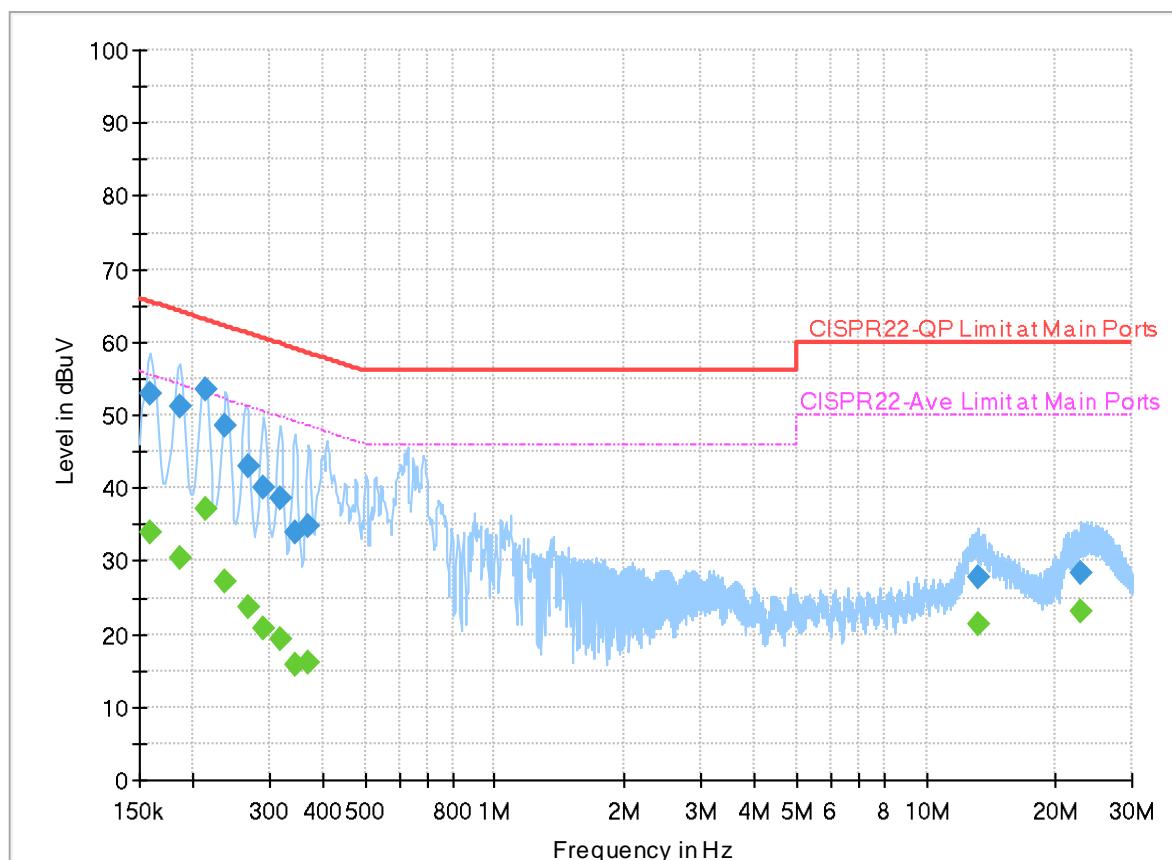
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	20.3~23.4°C
		Relative Humidity :	36.1~42%

EUT Information

Report NO : 472626
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum

**Final Result**

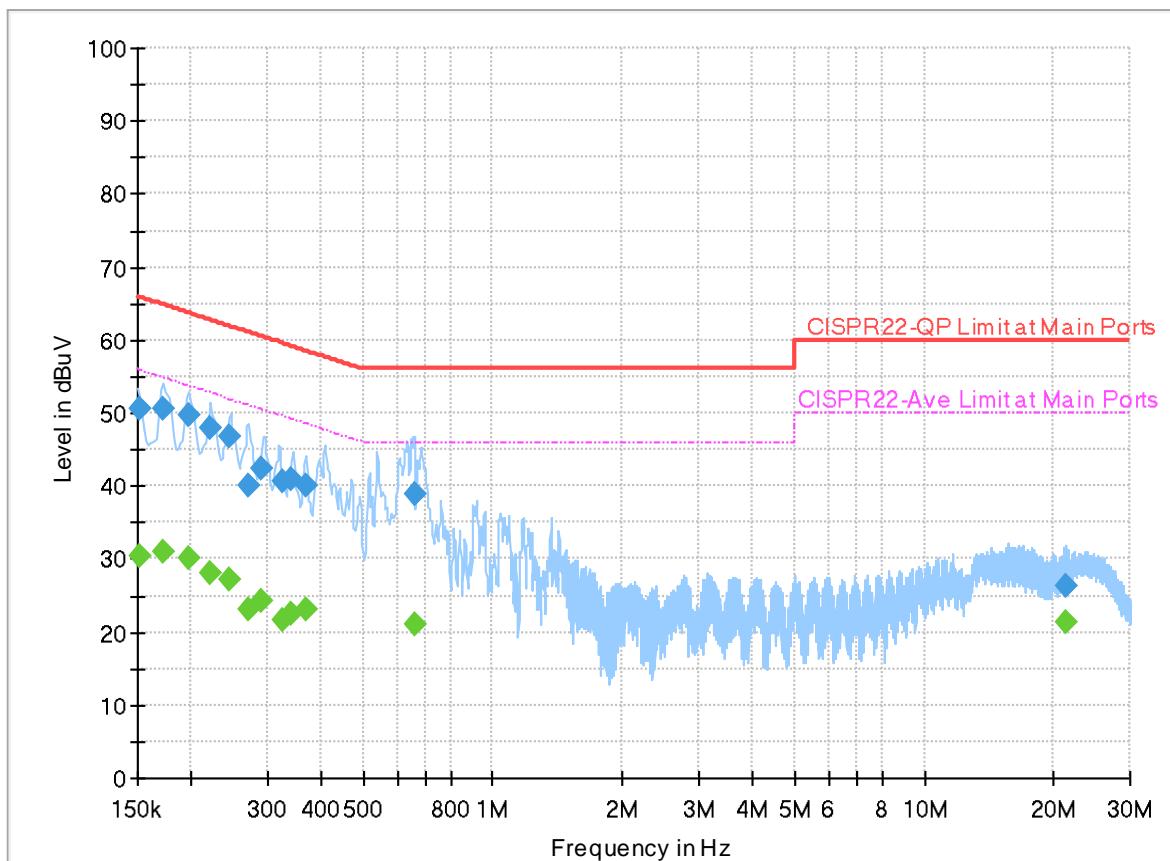
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	33.94	55.52	21.58	L1	OFF	19.8
0.159000	52.82	---	65.52	12.70	L1	OFF	19.8
0.186000	---	30.48	54.21	23.73	L1	OFF	19.8
0.186000	51.12	---	64.21	13.09	L1	OFF	19.8
0.213000	---	37.22	53.09	15.87	L1	OFF	19.8
0.213000	53.60	---	63.09	9.49	L1	OFF	19.8
0.237750	---	27.10	52.17	25.07	L1	OFF	19.8
0.237750	48.58	---	62.17	13.59	L1	OFF	19.8
0.267000	---	23.58	51.21	27.63	L1	OFF	19.8
0.267000	43.03	---	61.21	18.18	L1	OFF	19.8
0.289500	---	20.89	50.54	29.65	L1	OFF	19.8
0.289500	39.94	---	60.54	20.60	L1	OFF	19.8
0.316500	---	19.39	49.80	30.41	L1	OFF	19.8
0.316500	38.53	---	59.80	21.27	L1	OFF	19.8
0.343500	---	15.70	49.12	33.42	L1	OFF	19.8
0.343500	33.94	---	59.12	25.18	L1	OFF	19.8
0.370500	---	16.11	48.49	32.38	L1	OFF	19.8
0.370500	34.66	---	58.49	23.83	L1	OFF	19.8
13.170750	---	21.25	50.00	28.75	L1	OFF	20.3

13.170750	27.71	---	60.00	32.29	L1	OFF	20.3
22.787250	---	22.96	50.00	27.04	L1	OFF	20.7
22.787250	28.47	---	60.00	31.53	L1	OFF	20.7

EUT Information

Report NO : 472626
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum

**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152093	---	30.48	55.89	25.41	N	OFF	19.8
0.152093	50.53	---	65.89	15.36	N	OFF	19.8
0.171825	---	30.85	54.87	24.02	N	OFF	19.8
0.171825	50.68	---	64.87	14.19	N	OFF	19.8
0.196710	---	30.14	53.75	23.61	N	OFF	19.8
0.196710	49.79	---	63.75	13.96	N	OFF	19.8
0.221055	---	28.19	52.78	24.59	N	OFF	19.8
0.221055	47.86	---	62.78	14.92	N	OFF	19.8
0.245940	---	27.21	51.89	24.68	N	OFF	19.8
0.245940	46.65	---	61.89	15.24	N	OFF	19.8
0.270105	---	23.11	51.12	28.01	N	OFF	19.8
0.270105	40.11	---	61.12	21.01	N	OFF	19.8
0.291750	---	24.39	50.47	26.08	N	OFF	19.8
0.291750	42.51	---	60.47	17.96	N	OFF	19.8
0.325500	---	21.73	49.57	27.84	N	OFF	19.8
0.325500	40.59	---	59.57	18.98	N	OFF	19.8
0.342330	---	22.57	49.15	26.58	N	OFF	19.8
0.342330	40.81	---	59.15	18.34	N	OFF	19.8
0.369330	---	23.03	48.52	25.49	N	OFF	19.8

0.369330	40.15	---	58.52	18.37	N	OFF	19.8
0.657600	---	20.98	46.00	25.02	N	OFF	19.8
0.657600	39.02	---	56.00	16.98	N	OFF	19.8
21.257340	---	21.40	50.00	28.60	N	OFF	20.8
21.257340	26.28	---	60.00	33.72	N	OFF	20.8



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee and Fu Chen	Temperature :	19.1~20.8°C
		Relative Humidity :	51.2~65.8%

Note symbol

-L	Low channel location
-R	High channel location

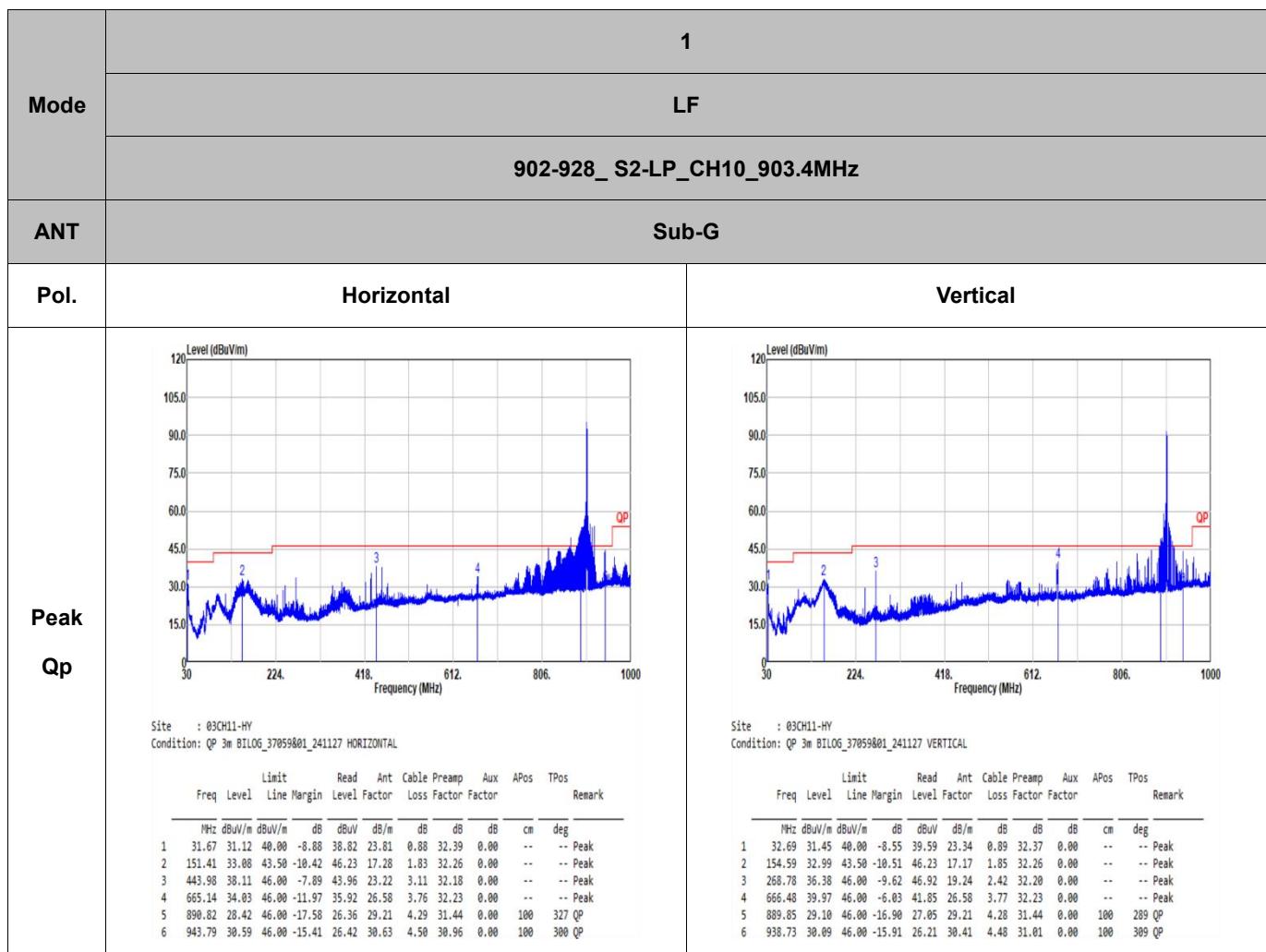


C1. Radiated Spurious Emission Test Modes

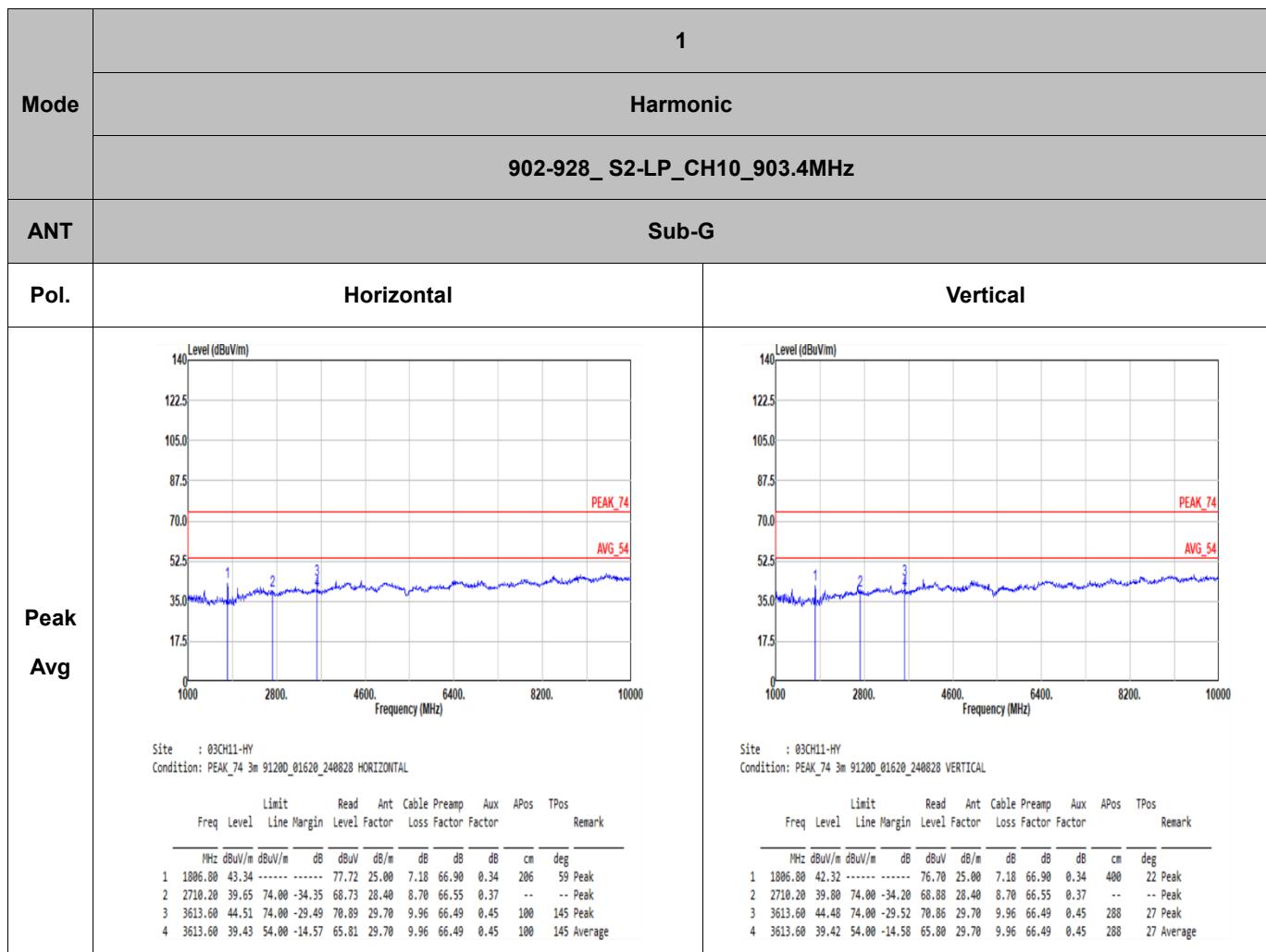
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	902-928	Sub-G	S2-LP Tx	10	903.4	250kbps	-	-
Mode 2	902-928	Sub-G	S2-LP Tx	25	915.4	250kbps	-	-
Mode 3	902-928	Sub-G	S2-LP Tx	40	927.4	250kbps	-	-

C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	S2-LP Tx	10	666.48	39.97	46.00	-6.03	V	Peak	Pass	-	LF
1	S2-LP Tx	10	3613.60	39.43	54.00	-14.57	H	Average	Pass	-	Harmonic
2	S2-LP Tx	25	115.12	36.97	43.50	-6.53	H	Peak	Pass	-	LF
2	S2-LP Tx	25	3661.60	41.62	54.00	-12.38	H	Average	Pass	-	Harmonic
3	S2-LP Tx	40	268.78	39.91	46.00	-6.09	H	Peak	Pass	-	LF
3	S2-LP Tx	40	3709.60	42.75	54.00	-11.25	H	Average	Pass	-	Harmonic

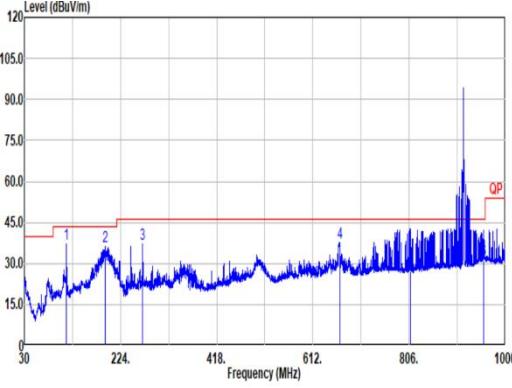
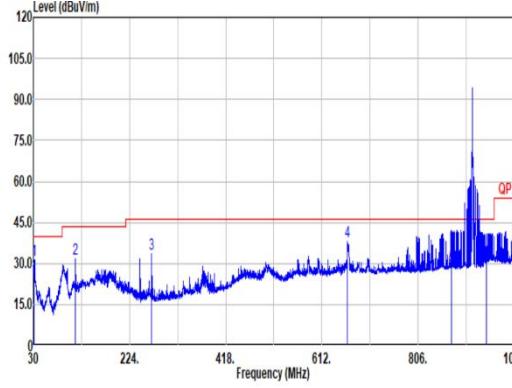


Remark: 614MHz to 960MHz is not within the restricted bands. The spurious emission level is at least 20dB below the fundamental signal level in any 100kHz bandwidth.

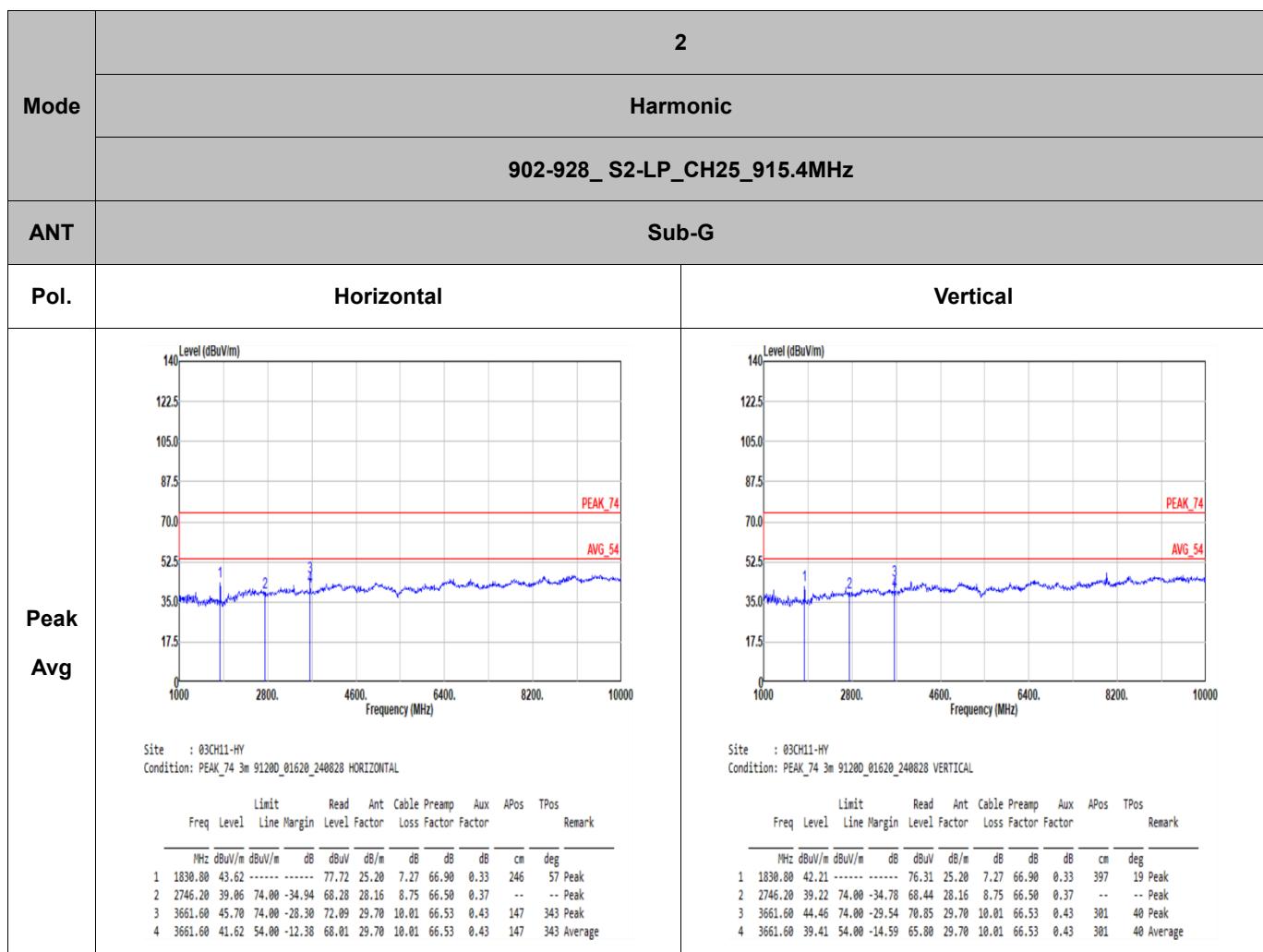


Remark: 1806.8MHz is the 2nd harmonic signal and not within the restricted bands. The spurious emission level is at least 20dB below the fundamental signal level in any 100kHz bandwidth.



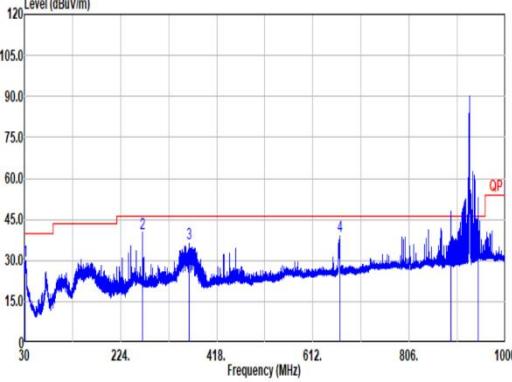
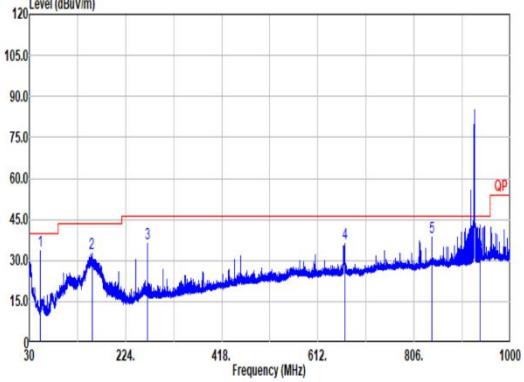
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	902-928_ S2-LP_CH25_915.4MHz																																																																																																																																																																																					
ANT	Sub-G																																																																																																																																																																																					
Pol.	Horizontal 																																																																																																																																																																																					
Peak QP	 Site : 03CH11-HY Condition: QP 3m Bilog_63304_241217 HORIZONTAL <table border="1" data-bbox="282 1123 774 1320"> <thead> <tr> <th></th> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>115.12</td> <td>36.97</td> <td>43.50</td> <td>-6.53</td> <td>50.89</td> <td>17.19</td> <td>1.16</td> <td>32.31</td> <td>0.04</td> </tr> <tr> <td>2</td> <td>193.45</td> <td>36.19</td> <td>43.50</td> <td>-7.31</td> <td>51.82</td> <td>14.88</td> <td>1.64</td> <td>32.20</td> <td>0.13</td> </tr> <tr> <td>3</td> <td>268.86</td> <td>37.05</td> <td>46.00</td> <td>-8.95</td> <td>47.79</td> <td>19.33</td> <td>2.08</td> <td>32.20</td> <td>0.13</td> </tr> <tr> <td>4</td> <td>665.84</td> <td>37.45</td> <td>46.00</td> <td>-8.55</td> <td>39.74</td> <td>26.42</td> <td>3.37</td> <td>32.23</td> <td>0.15</td> </tr> <tr> <td>5</td> <td>808.18</td> <td>27.12</td> <td>46.00</td> <td>-18.88</td> <td>27.10</td> <td>28.04</td> <td>3.71</td> <td>31.89</td> <td>0.16</td> </tr> <tr> <td>6</td> <td>955.62</td> <td>31.35</td> <td>46.00</td> <td>-14.65</td> <td>26.38</td> <td>31.50</td> <td>4.09</td> <td>30.84</td> <td>0.22</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>100</td> <td>199</td> <td>QP</td> </tr> </tbody> </table> <table border="1" data-bbox="921 1123 1397 1320"> <thead> <tr> <th></th> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Factor</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>31.94</td> <td>31.42</td> <td>40.00</td> <td>-8.58</td> <td>39.28</td> <td>24.02</td> <td>0.47</td> <td>32.39</td> <td>0.06</td> </tr> <tr> <td>2</td> <td>115.12</td> <td>31.70</td> <td>43.50</td> <td>-11.88</td> <td>45.62</td> <td>17.19</td> <td>1.16</td> <td>32.31</td> <td>0.04</td> </tr> <tr> <td>3</td> <td>268.86</td> <td>33.58</td> <td>46.00</td> <td>-12.42</td> <td>44.32</td> <td>19.33</td> <td>2.08</td> <td>32.20</td> <td>0.13</td> </tr> <tr> <td>4</td> <td>663.65</td> <td>38.06</td> <td>46.00</td> <td>-7.94</td> <td>40.42</td> <td>26.37</td> <td>3.36</td> <td>32.24</td> <td>0.15</td> </tr> <tr> <td>5</td> <td>872.45</td> <td>29.14</td> <td>46.00</td> <td>-16.86</td> <td>27.41</td> <td>29.25</td> <td>3.88</td> <td>31.56</td> <td>0.16</td> </tr> <tr> <td>6</td> <td>943.01</td> <td>30.95</td> <td>46.00</td> <td>-15.05</td> <td>26.90</td> <td>30.74</td> <td>4.07</td> <td>30.97</td> <td>0.21</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>100</td> <td>308</td> <td>QP</td> </tr> </tbody> </table>			Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor			1	115.12	36.97	43.50	-6.53	50.89	17.19	1.16	32.31	0.04	2	193.45	36.19	43.50	-7.31	51.82	14.88	1.64	32.20	0.13	3	268.86	37.05	46.00	-8.95	47.79	19.33	2.08	32.20	0.13	4	665.84	37.45	46.00	-8.55	39.74	26.42	3.37	32.23	0.15	5	808.18	27.12	46.00	-18.88	27.10	28.04	3.71	31.89	0.16	6	955.62	31.35	46.00	-14.65	26.38	31.50	4.09	30.84	0.22								100	199	QP		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor			1	31.94	31.42	40.00	-8.58	39.28	24.02	0.47	32.39	0.06	2	115.12	31.70	43.50	-11.88	45.62	17.19	1.16	32.31	0.04	3	268.86	33.58	46.00	-12.42	44.32	19.33	2.08	32.20	0.13	4	663.65	38.06	46.00	-7.94	40.42	26.37	3.36	32.24	0.15	5	872.45	29.14	46.00	-16.86	27.41	29.25	3.88	31.56	0.16	6	943.01	30.95	46.00	-15.05	26.90	30.74	4.07	30.97	0.21								100	308	QP
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1	31.94	31.42	40.00	-8.58	39.28	24.02	0.47	32.39	0.06																																																																																																																																																																													
2	115.12	31.70	43.50	-11.88	45.62	17.19	1.16	32.31	0.04																																																																																																																																																																													
3	268.86	33.58	46.00	-12.42	44.32	19.33	2.08	32.20	0.13																																																																																																																																																																													
4	663.65	38.06	46.00	-7.94	40.42	26.37	3.36	32.24	0.15																																																																																																																																																																													
5	872.45	29.14	46.00	-16.86	27.41	29.25	3.88	31.56	0.16																																																																																																																																																																													
6	943.01	30.95	46.00	-15.05	26.90	30.74	4.07	30.97	0.21																																																																																																																																																																													
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Remark: 614MHz to 960MHz is not within the restricted bands. The spurious emission level is at least 20dB below the fundamental signal level in any 100kHz bandwidth.

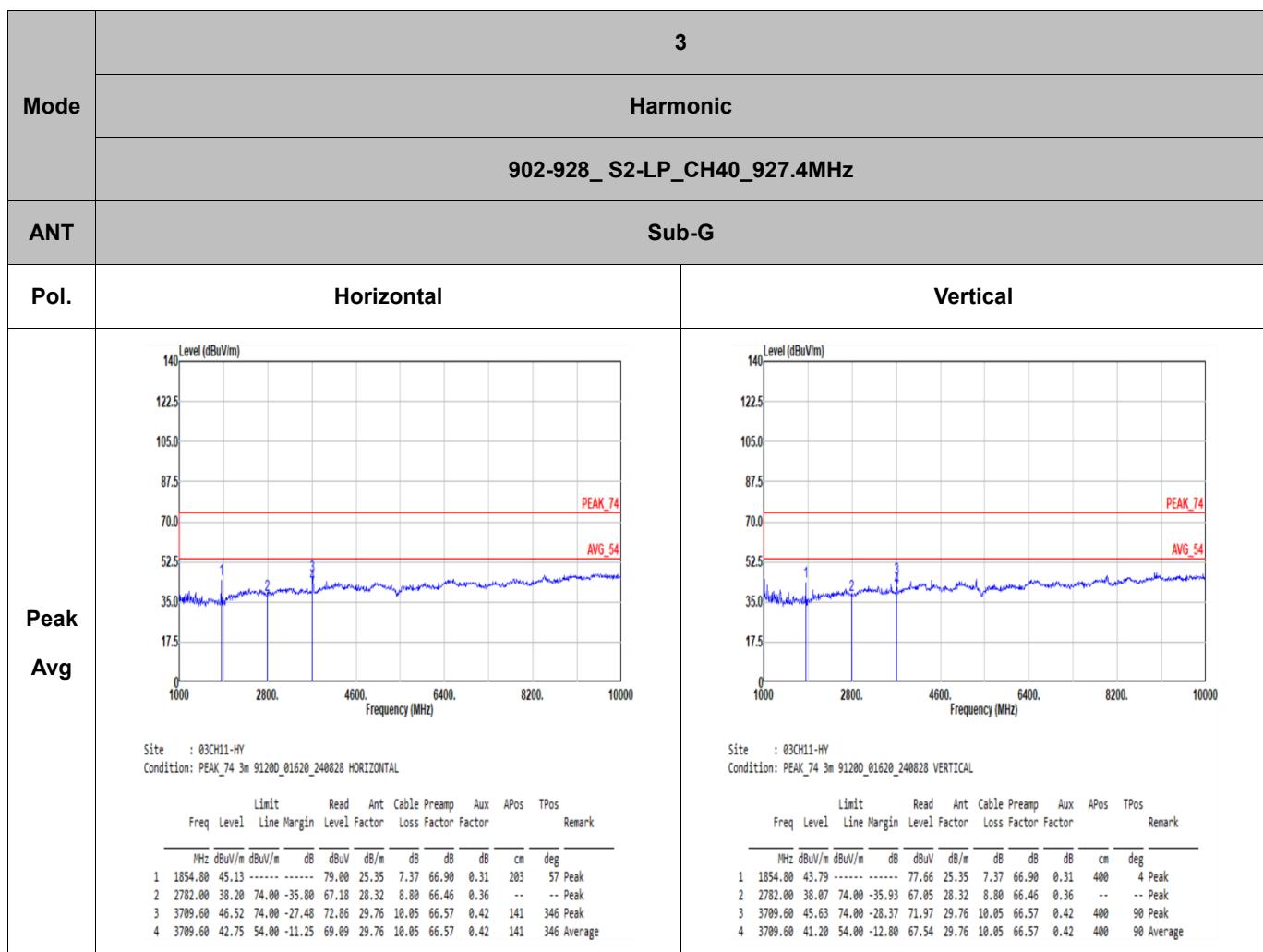


Remark: 1830.8MHz is the 2nd harmonic signal and not within the restricted bands. The spurious emission level is at least 20dB below the fundamental signal level in any 100kHz bandwidth.



Mode	3																																																																																											
	LF																																																																																											
	902-928_ S2-LP_CH40_927.4MHz																																																																																											
ANT	Sub-G																																																																																											
Pol.	Horizontal 																																																																																											
Peak Qp																																																																																												
Site : 03CH11-HY Condition: QP 3m 81L06_37059&01_241127 HORIZONTAL																																																																																												
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Remark: 614MHz to 960MHz is not within the restricted bands. The spurious emission level is at least 20dB below the fundamental signal level in any 100kHz bandwidth.



Remark: 1854.8MHz is the 2nd harmonic signal and not within the restricted bands. The spurious emission level is at least 20dB below the fundamental signal level in any 100kHz bandwidth.



Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Sub 1 GHz	0.60	3000	0.333	0.51KHz

