



FCC RADIO TEST REPORT

FCC ID : 2ABOF-GXRN8356910
Equipment : RN system (Multiband)
Brand Name : Tarana
Model Name : GXRN8356910
Marketing Name : RN Product Line
Applicant : Tarana Wireless, Inc.
630 Alder Drive Milpitas, CA 95035
Manufacturer : Tarana Wireless, Inc.
630 Alder Drive Milpitas, CA 95035
Standard : FCC 47 CFR Part 2, 96

The product was received on Jun. 17, 2026 and testing was performed from Jun. 23, 2026 to Aug. 03, 2026. 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

Sporton 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

Report No.	Version	Description	Issue Date
FG651806	01	Initial issue of report	Aug. 06, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
		Power Density	Pass	-
3.5	§2.1049	Occupied Bandwidth	Pass	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1053 §96.41	Radiated Spurious Emission	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/manufacture 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:

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.

Reviewed by: Steve Chen**Report Producer: Freda Wu**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs: WLAN 2.4G, Proprietary radio 5G / 6G, CBRS and GNSS.
Antenna Type / Gain: WWAN : Array Antenna with Antenna Gain 12.63 dBi

Remark: The above EUT's information 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 Site

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.	
	TH05-22-HY	03CH20-HY
Test Engineer	Qiao Tan	John Chuang, David Dai and Sam Chou
Temperature (°C)	21.6~23.4	18.8~22.4
Relative Humidity (%)	47.8~53.7	64.3 ~70.5

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

FCC Designation No.: TW3786



1.4 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to v03r01 Power Meas. License Digital Systems v03r01 with maximum output power

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable with the EUT and EUT antenna in portrait orthogonal axis (Y-Plane), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

<Single Carrier (SC)>

Test Items	Frequency (MHz)	Bandwidth (MHz)				Test Channel		
		10	20	30	40	L	M	H
Max. Output Power	3550~3700	v	v	v	v	v	v	v
Peak EIRP Density	3550~3700	v	v	v	v	v	v	v
26dB and 99% Bandwidth	3550~3700	v	v	v	v		v	
Conducted Band Edge	3550~3700	v	v	v	v	v	v	v
Peak-to-Average Ratio	3550~3700	v	v	v	v		v	
Conducted Spurious Emission	3550~3700	v	v	v	v	v	v	v
E.I.R.P	3550~3700	v	v	v	v	v	v	v
Frequency Stability	3550~3700		v				v	
Radiated Spurious Emission	3550~3700	v	v	v	v	v	v	v
Remark	The mark "v" means that this configuration is chosen for testing							

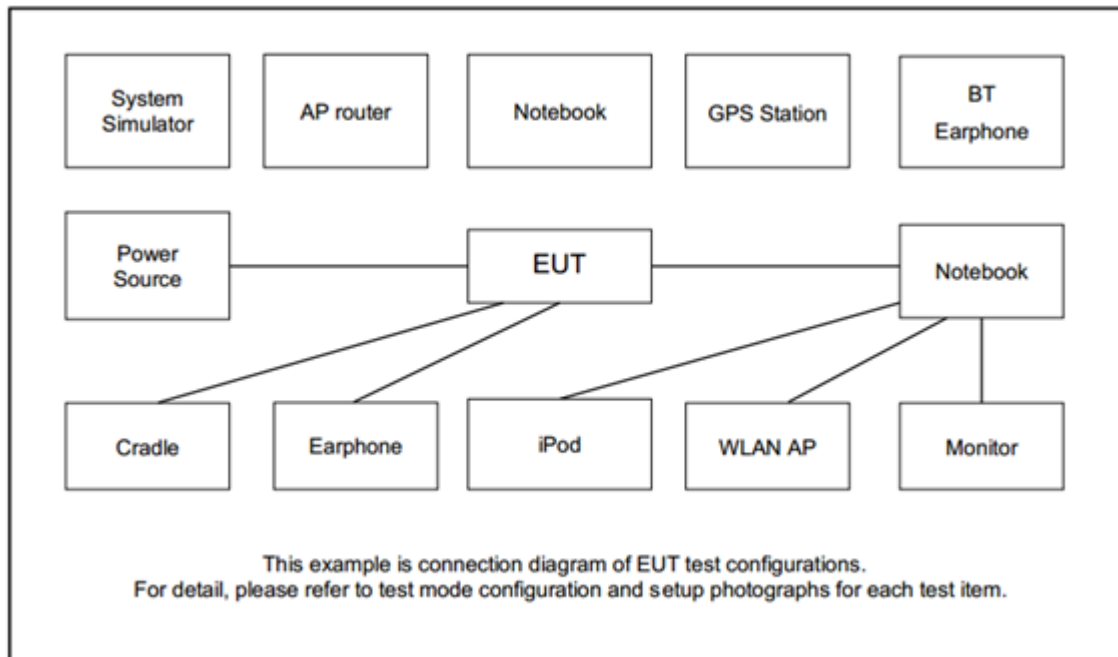
**<Multi Carrier (MC) Intra Band Contiguous>**

Test Items	Freq. (MHz)	Bandwidth (MHz)							Test Channel		
		20+20	20+30	20+40	30+30	30+40	40+40	40+20	L	M	H
Max. Output Power	3550~3700	v	v	v	v	v	v	v	v	v	v
Peak EIRP Density	3550~3700	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	3550~3700	v	v	v	v	v	v	v		v	
Conducted Band Edge	3550~3700	v	v	v	v	v	v	v	v	v	v
Conducted Spurious Emission	3550~3700	v	v	v	v	v	v	v	v	v	v
E.I.R.P.	3550~3700	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	3550~3700	v	v	v	v	v	v	v	v	v	v
Remark	The mark "v" means that this configuration is chosen for testing										

<Multi Carrier (MC) Intra Band Non-Contiguous>

Test Items	Freq. (MHz)	Bandwidth (MHz)							Test Channel		
		20+20	20+30	20+40	30+30	30+40	40+40	40+20	L	M	H
Max. Output Power	3550~3700	v	v	v	v	v	v	v	v		v
Peak EIRP Density	3550~3700	v	v	v	v	v	v	v	v		v
26dB and 99% Bandwidth	3550~3700	v	v	v	v	v	v	v	v		v
Conducted Band Edge	3550~3700	v	v	v	v	v	v	v	v		v
Conducted Spurious Emission	3550~3700	v	v	v	v	v	v	v	v		v
E.I.R.P.	3550~3700	v	v	v	v	v	v	v	v		v
Radiated Spurious Emission	3550~3700	v	v	v	v	v	v	v	v		v
Remark	The mark "v" means that this configuration is chosen for testing										

2.2 Connection Diagram of Test System



2.3 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.

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 4.5 dB and 10dB attenuator.

Example :

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

$$= 4.5 + 10 = 14.5 \text{ (dB)}$$



2.4 Frequency List of Low/Middle/High Channels

Single Carrier Frequency List				
BW [MHz]	Frequency (MHz)	Lowest	Middle	Highest
40	Frequency	3570	3625	3680
30	Frequency	3565	3625	3685
20	Frequency	3560	3625	3690
10	Frequency	3555	3625	3695

Multi Carrier (Contiguous) Frequency List					
BW [MHz]	Frequency (MHz)		Lowest	Middle	Highest
40 + 40	PCC	Frequency	3570	3605	3640
	SCC	Frequency	3610	3645	3680
40 + 20	PCC	Frequency	3570	3615	3660
	SCC	Frequency	3600	3645	3690
30 + 40	PCC	Frequency	3565	3605	3645
	SCC	Frequency	3600	3640	3680
30 + 30	PCC	Frequency	3565	3610	3655
	SCC	Frequency	3595	3640	3685
20 + 40	PCC	Frequency	3560	3605	3650
	SCC	Frequency	3590	3635	3680
20 + 30	PCC	Frequency	3560	3610	3660
	SCC	Frequency	3585	3635	3685
20 + 20	PCC	Frequency	3560	3615	3670
	SCC	Frequency	3580	3635	3690

Multi Carrier (Non-Contiguous) Frequency List				
BW [MHz]	Frequency (MHz)	Lowest (PCC)	-	Highest (SCC)
40 + 40	Frequency	3570	-	3680
40 + 20	Frequency	3570	-	3690
30 + 40	Frequency	3565	-	3680
30 + 30	Frequency	3565	-	3685
20 + 40	Frequency	3560	-	3680
20 + 30	Frequency	3560	-	3685
20 + 20	Frequency	3560	-	3690

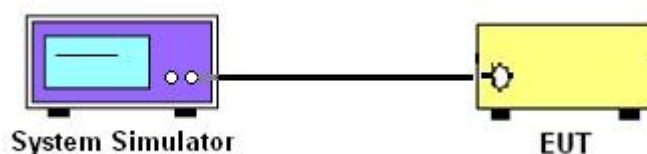
3 Conducted Test Items

3.1 Measuring Instruments

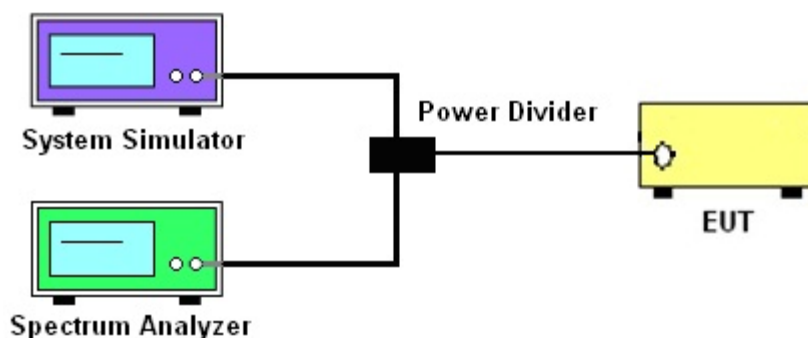
See list of measuring instruments of this test report.

3.1.1 Test Setup

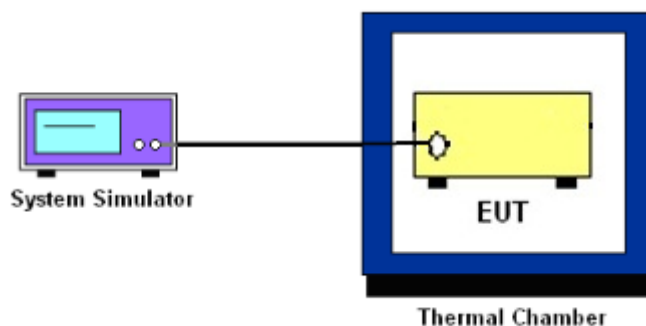
3.1.2 Conducted Output Power



3.1.3 EIRP and Power Density, Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power Measurement

3.2.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



3.4 EIRP and Power Density

3.4.1 Description of the EIRP and Power Density Measurement

The EIRP transmitters must not exceed 47 dBm /10 megahertz

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Category B CBSD	47	37

3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS

Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.



3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
8. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=8) = 9.03\text{dB}$ into the spectrum analyzer offset.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.



3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The test reduction is applied to 1RB case for 10MHz Bandwidth to cover the all operation bandwidths. RBW 500kHz is applied to the 0-1MHz offset from the edge of the frequency block group for 1RB mode in order to represent the worst case condition.
10. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=8) = 9.03\text{dB}$ into the spectrum analyzer offset.



3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.



3.9 Antenna Information

3.9.1 Antenna Directional Gain

The device can support MIMO with antenna.

There are a total of 8 antenna ports which are connected to 4 vertical and 4 horizontal antennas.

The manufacturer declares that it always transmits 2 spatial streams jointly across both polarizations.

MIMO calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 "Measure and add $10 \log (N_{ANT})$ dB". For the MIMO Factor in this report is $10 \cdot \log (8) = 9.03$ dB

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

Array Gain = $10 \log (N_{ANT} = 4 / N_{SS} = 2) = 3.01$ dB, where the lowest possible N_{SS} is 2.

Directional gain = Antenna gain + directionality gain = $12.63 + 10 \log (N_{ANT}/N_{SS} = 4/2)$
 $= 12.63 + 3.01 = 15.64$ dBi

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

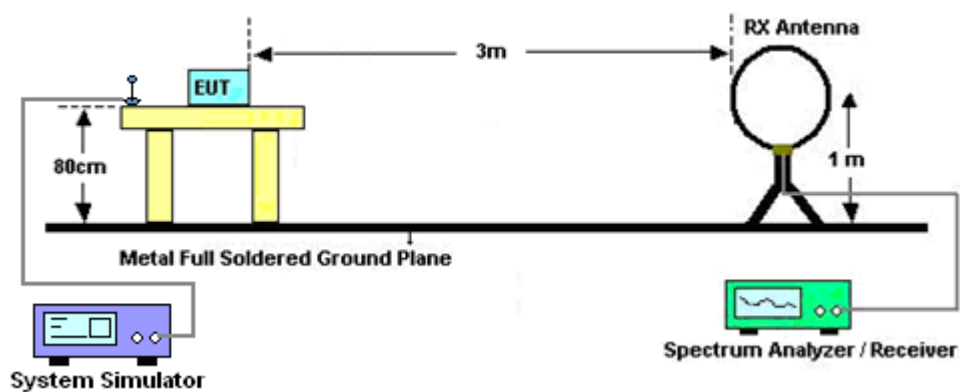
4 Radiated Test Items

4.1 Measuring Instruments

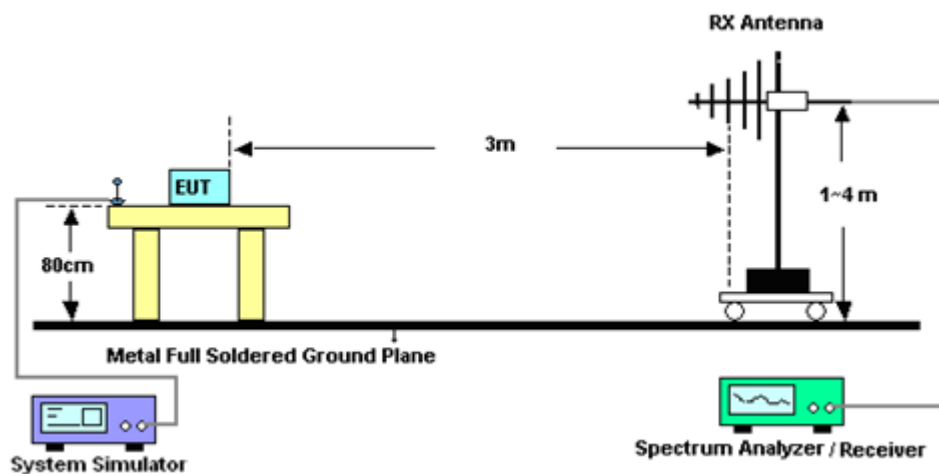
See list of measuring instruments of this test report.

4.2 Test Setup

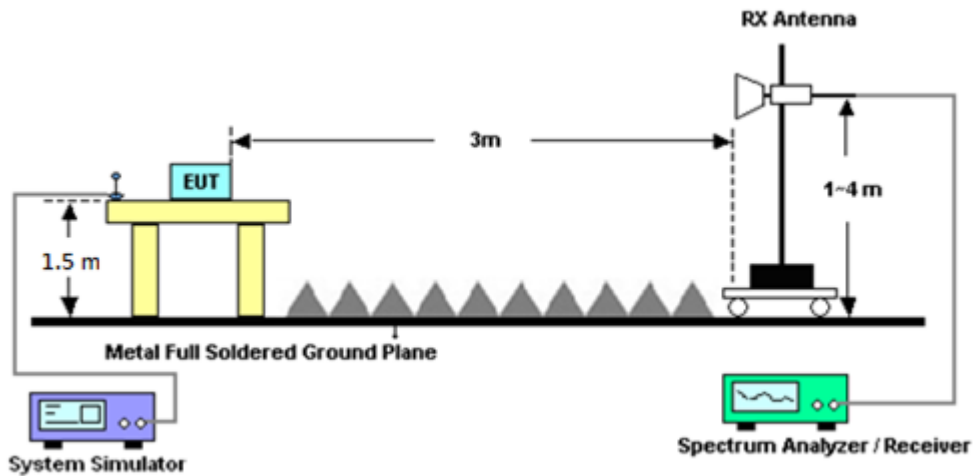
For radiated test below 30MHz



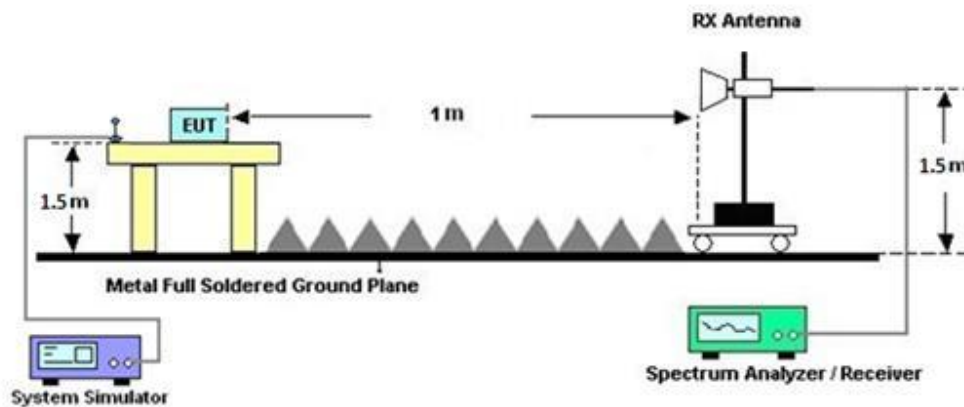
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was 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 came out very similar.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.7 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 08, 2026	Jul. 07, 2026 ~ Jul. 30, 2026	Jun. 07, 2027	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jul. 07, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 07, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 07, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1230	18GHz-40GHz	Nov. 05, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804015/2,25104239	N/A	Apr. 13, 2026	Jul. 07, 2026 ~ Jul. 30, 2026	Apr. 12, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Jul. 07, 2026 ~ Jul. 30, 2026	Oct. 20, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Jul. 07, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101356	10Hz~44GHz	Aug. 11, 2025	Jun. 23, 2026~ Aug. 03, 2026	Aug. 10, 2026	Conducted (TH05-22-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2468	N/A	Mar. 19, 2026	Jun. 23, 2026~ Aug. 03, 2026	Mar. 18, 2027	Conducted (TH05-22-HY)
Temperature Chamber	Ten Billion	TTH-D3SP	TBN-930701	-30°C~70°C	Nov. 19, 2025	Jun. 23, 2026~ Aug. 03, 2026	Nov. 18, 2026	Conducted (TH05-22-HY)
DC Power Supply	GW Instek	SPS-606	GES842931	0~60V ; 0~6A	Dec. 15, 2025	Jun. 23, 2026~ Aug. 03, 2026	Dec. 14, 2026	Conducted (TH05-22-HY)

6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
---	--------

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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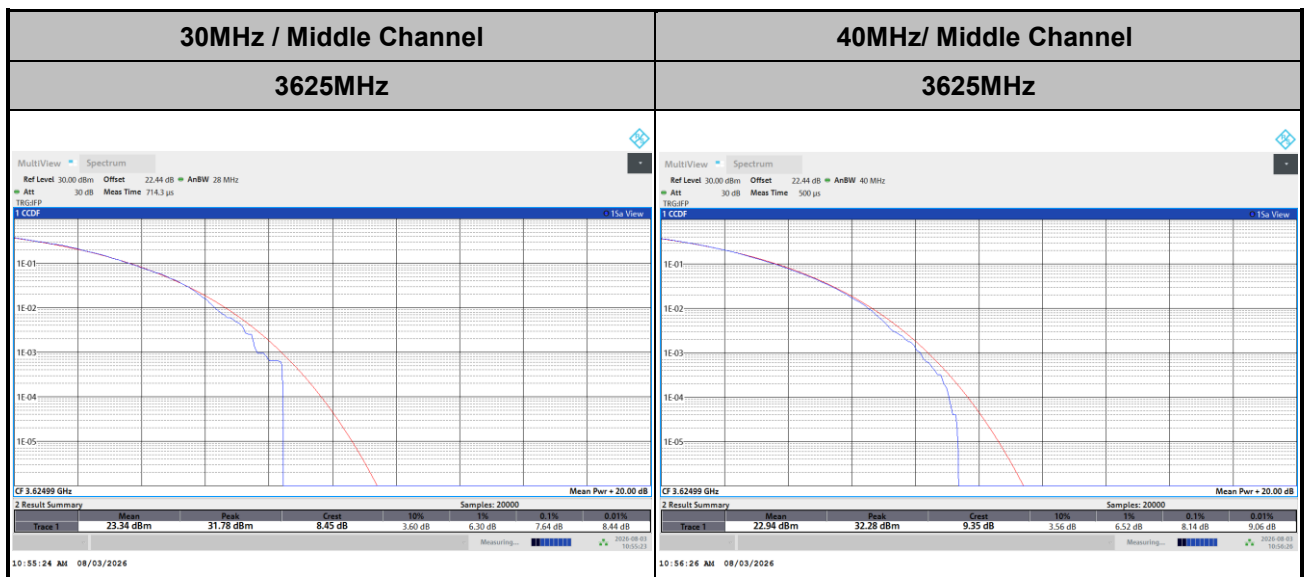
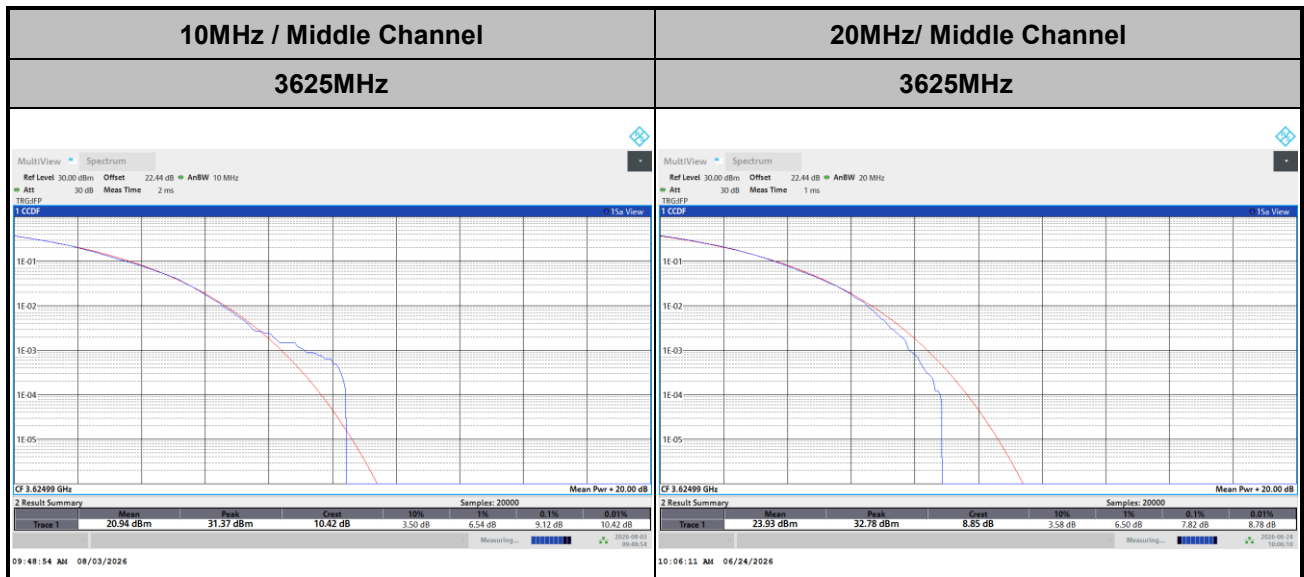


Appendix A. Test Results of Conducted Test

Peak-to-Average Ratio

<Single Carrier>

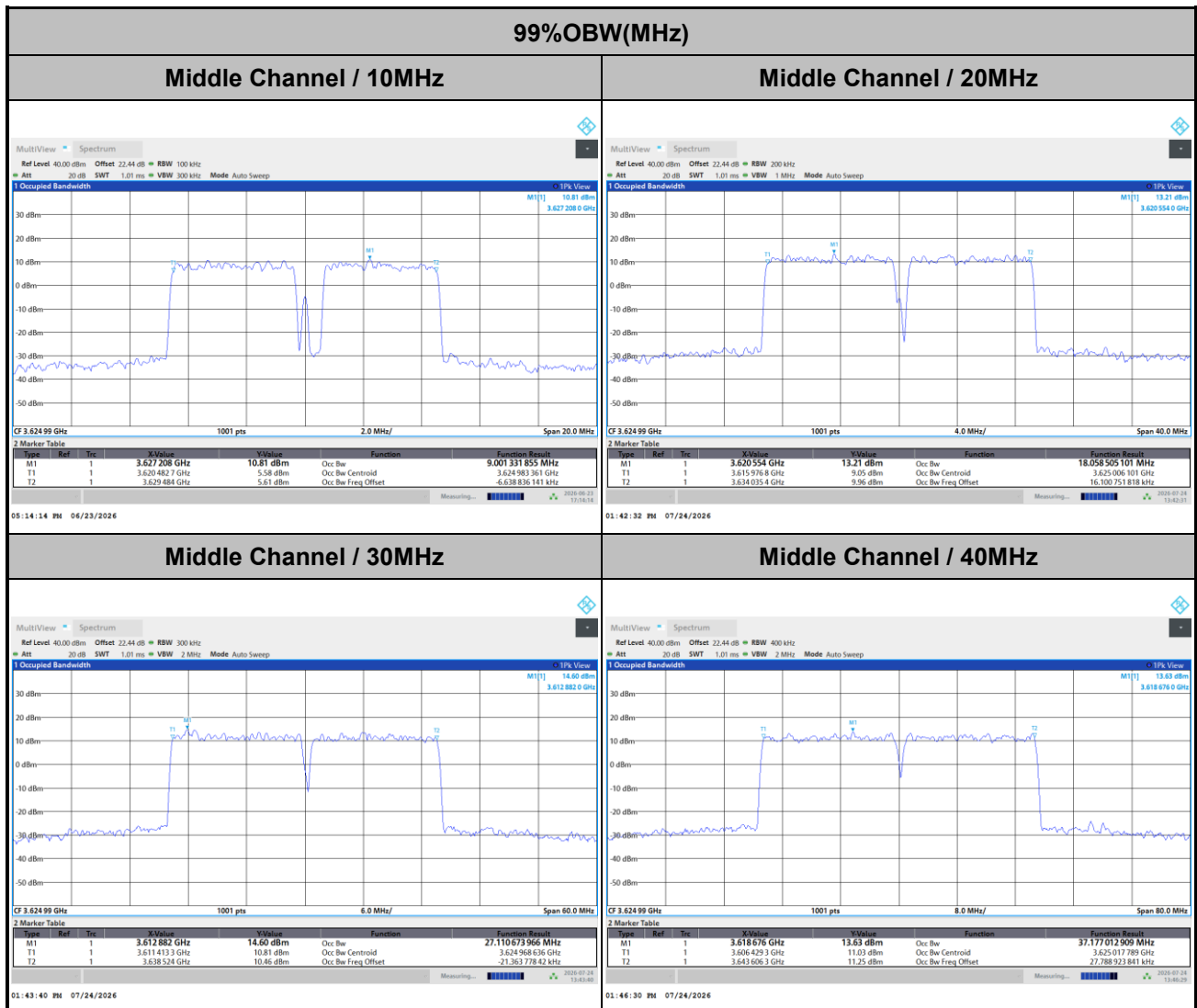
Mode	3625MHz / 10MHz	Limit: 13dB
		Result
Middle CH	9.12 dB	PASS
Mode	3625MHz / 20MHz	Limit: 13dB
		Result
Middle CH	7.82 dB	PASS
Mode	3625MHz / 30MHz	Limit: 13dB
		Result
Middle CH	7.64 dB	PASS
Mode	3625MHz / 40MHz	Limit: 13dB
		Result
Middle CH	8.14 dB	PASS





Occupied Bandwidth

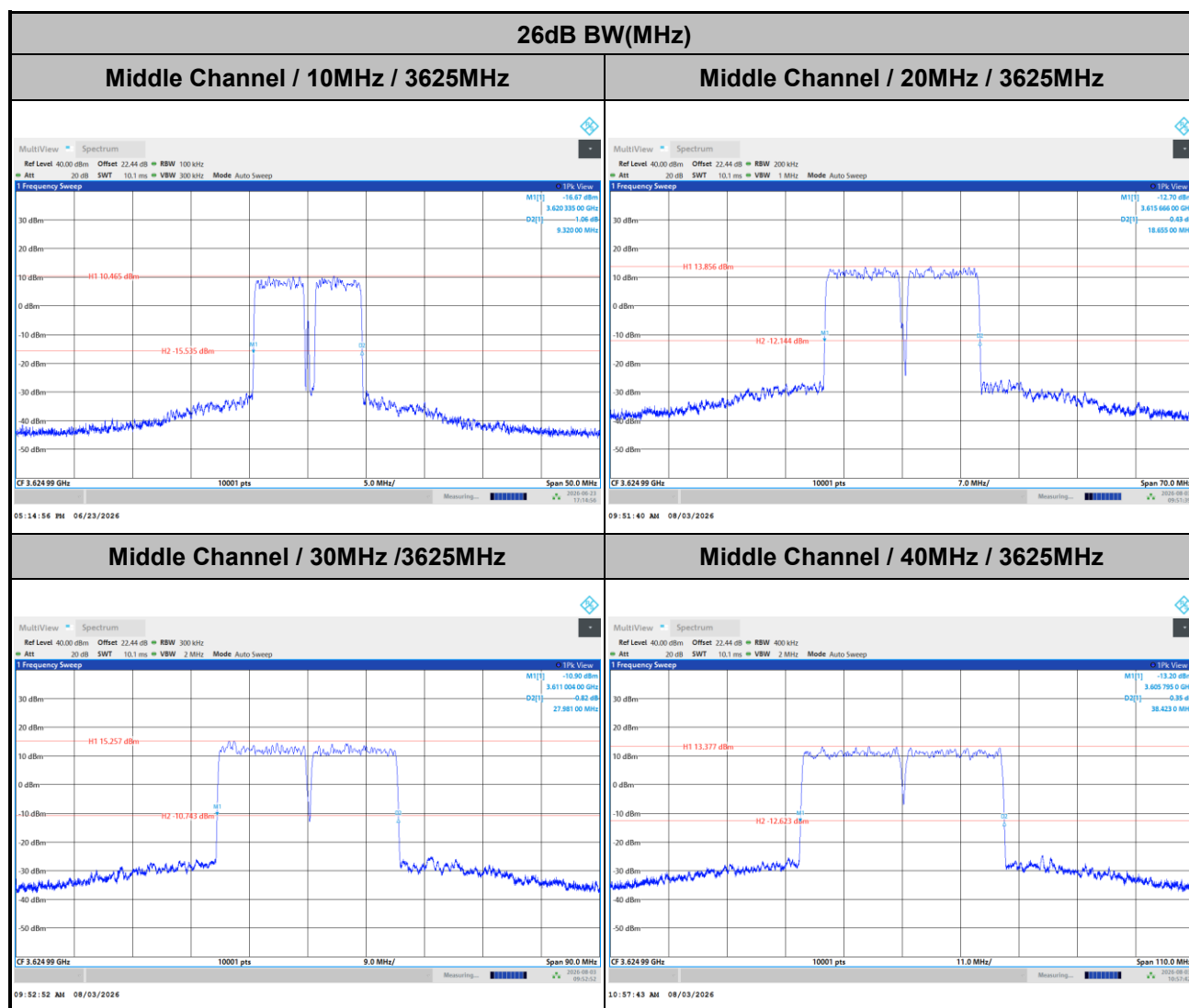
Mode	99%OBW(MHz)			
Frequency	3625MHz			
BW	10MHz	20MHz	30MHz	40MHz
Middle CH	9.00	18.06	27.11	37.18





Emission Bandwidth

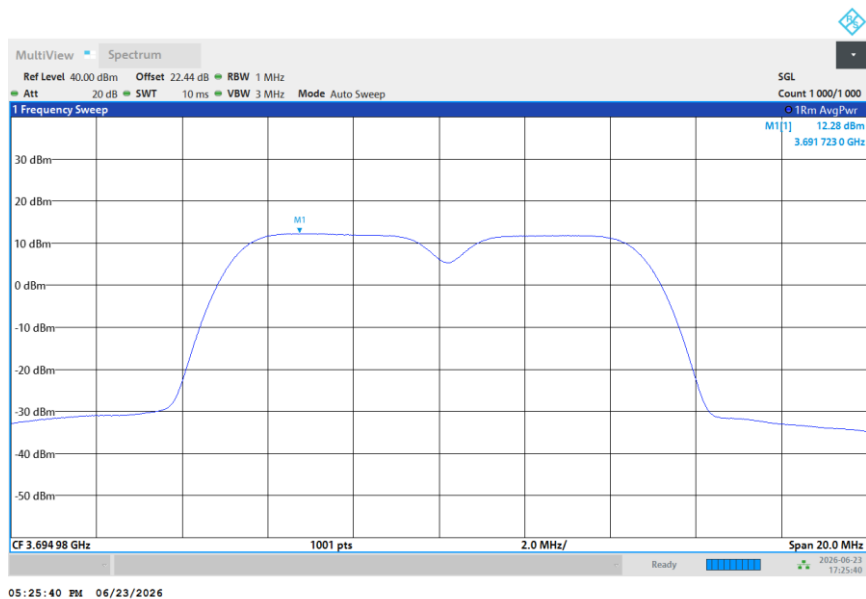
Mode	26dB BW(MHz)			
Frequency	3625MHz			
BW	10MHz	20MHz	30MHz	40MHz
Middle CH	9.32	18.66	27.98	38.42



**EIRP Power Density**

	EIRP PSD (dBm/MHz)									
	Bandwidth(MHz)	Frequency(MHz)	Power Setting		Single Port Conducted PSD (dBm/MHz)	MIMO Factor (dB)	Directional Gain (dBi)	Total EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
			Attn	ADAK						
X1 Mode Single Carrier	10MHz	3555	9	1	12.21	9.03	15.64	36.88	37.00	Pass
		3625	9	-1.2	12.28	9.03	15.64	36.95	37.00	Pass
		3695	9	1	12.28	9.03	15.64	36.95	37.00	Pass
	20MHz	3560	6	0.5	11.77	9.03	15.64	36.44	37.00	Pass
		3625	9	2	11.99	9.03	15.64	36.66	37.00	Pass
		3690	9	2.8	11.38	9.03	15.64	36.05	37.00	Pass
	30MHz	3565	6	1	10.41	9.03	15.64	35.08	37.00	Pass
		3625	9	2.3	10.38	9.03	15.64	35.05	37.00	Pass
		3685	6	0	10.49	9.03	15.64	35.16	37.00	Pass
	40MHz	3570	6	0.5	8.60	9.03	15.64	33.27	37.00	Pass
		3625	9	2	8.86	9.03	15.64	33.53	37.00	Pass
		3680	9	2.5	8.82	9.03	15.64	33.49	37.00	Pass

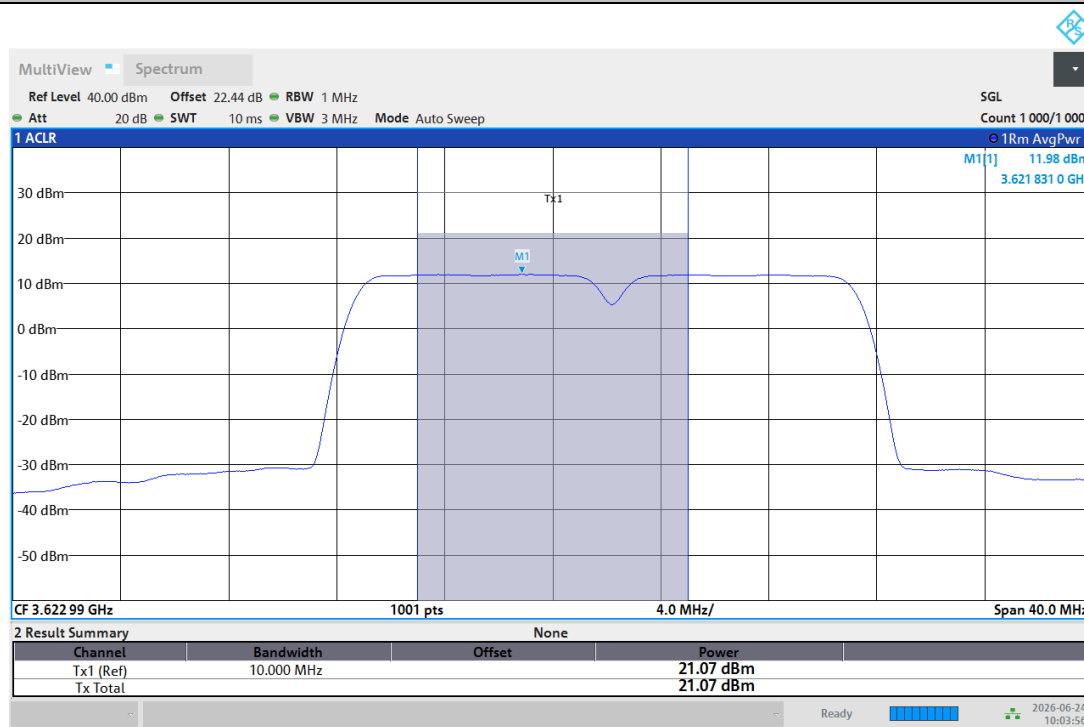
Remark:

DG (dBi, 4H/4V) = antenna gain + $10 \cdot \log(\text{Nant}/\text{Nss}) = 12.63 + 10 \cdot \log(4/2) = 15.64$ dBiMIMO Factor: $10 \cdot \log(8) = 9.03$ dB**Maximum EIRP Power Density – 10MHz 3695MHz**

**EIRP Power (dBm/10MHz)**

	EIRP PSD (dBm/10MHz)									
	Bandwidth(MHz)	Frequency(MHz)	Power Setting		Single Port Conduted Power (dBm/10MHz)	MIMO Factor (dB)	Directional Gain (dBi)	Total EIRP (dBm/10MHz)	EIRP Limit (dBm/10 MHz)	Result
			Attn	ADAK						
X1 Mode Single Carrier	10MHz	3555	9	1	20.66	9.03	15.64	45.33	47.00	Pass
		3625	9	-1.2	20.76	9.03	15.64	45.43	47.00	Pass
		3695	9	1	20.6	9.03	15.64	45.27	47.00	Pass
	20MHz	3560	6	0.5	20.75	9.03	15.64	45.42	47.00	Pass
		3625	9	2	21.07	9.03	15.64	45.74	47.00	Pass
		3690	9	2.8	20.31	9.03	15.64	44.98	47.00	Pass
	30MHz	3565	6	1	19.92	9.03	15.64	44.59	47.00	Pass
		3625	9	2.3	19.98	9.03	15.64	44.65	47.00	Pass
		3685	6	0	19.88	9.03	15.64	44.55	47.00	Pass
	40MHz	3570	6	0.5	18.13	9.03	15.64	42.80	47.00	Pass
		3625	9	2	18.39	9.03	15.64	43.06	47.00	Pass
		3680	9	2.5	18.37	9.03	15.64	43.04	47.00	Pass

Remark:

DG (dBi, 4H/4V) = antenna gain + $10 \cdot \log(\text{Nant}/\text{Nss}) = 12.63 + 10 \cdot \log(4/2) = 15.64$ dBiMIMO Factor: $10 \cdot \log(8) = 9.03$ dB**Maximum EIRP Power (dBm/10MHz) – 20MHz 3625MHz**

10:03:57 AM 06/24/2026

**EIRP total Power (dBm) for reporting only**

	Total EIRP Power (dBm) reporting only							
	Bandwidth(MHz)	Frequency(MHz)	Power Setting		Single Port Conducted Power (dBm)	MIMO Factor (dB)	Directional Gain (dBi)	Total EIRP (dBm)
			Attn	ADAK				
X1 Mode Single Carrier	10MHz	3555	9	1	20.67	9.03	15.64	45.34
		3625	9	-1.2	20.71	9.03	15.64	45.38
		3695	9	1	20.61	9.03	15.64	45.28
	20MHz	3560	6	0.5	23.37	9.03	15.64	48.04
		3625	9	2	23.96	9.03	15.64	48.63
		3690	9	2.8	22.79	9.03	15.64	47.46
	30MHz	3565	6	1	23.9	9.03	15.64	48.57
		3625	9	2.3	24.08	9.03	15.64	48.75
		3685	6	0	23.53	9.03	15.64	48.20
	40MHz	3570	6	0.5	23.55	9.03	15.64	48.22
		3625	9	2	23.95	9.03	15.64	48.62
		3680	9	2.5	23.38	9.03	15.64	48.05

Remark:

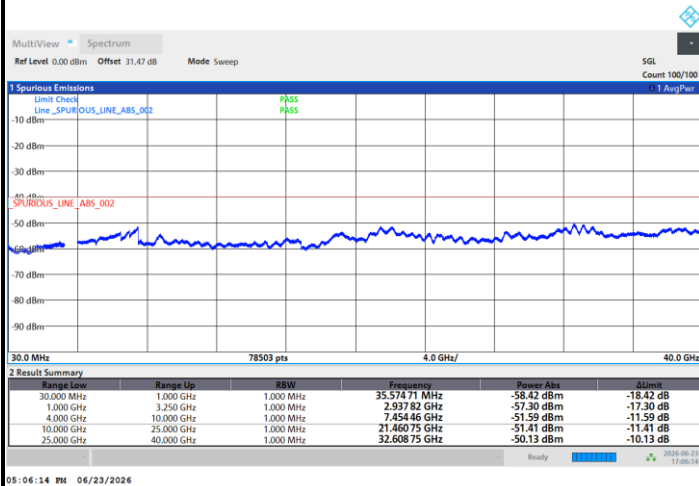
DG (dBi, 4H/4V) = antenna gain + $10 \cdot \log(\text{Nant}/\text{Nss}) = 12.63 + 10 \cdot \log(4/2) = 15.64$ dBiMIMO Factor: $10 \cdot \log(8) = 9.03$ dB



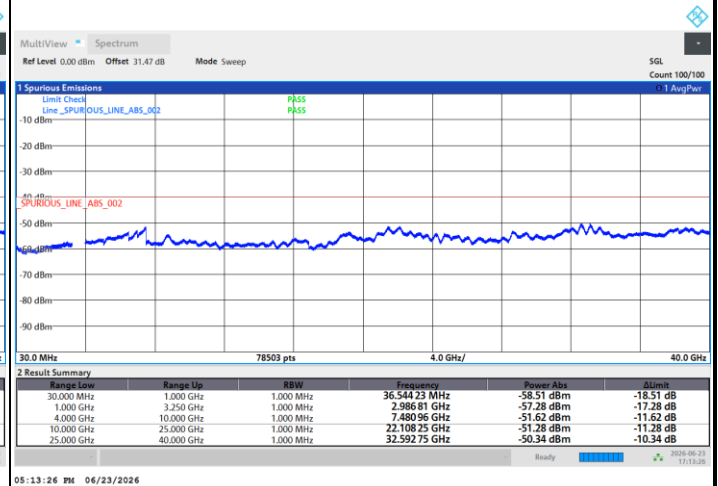
Conducted Spurious Emissions

10MHz

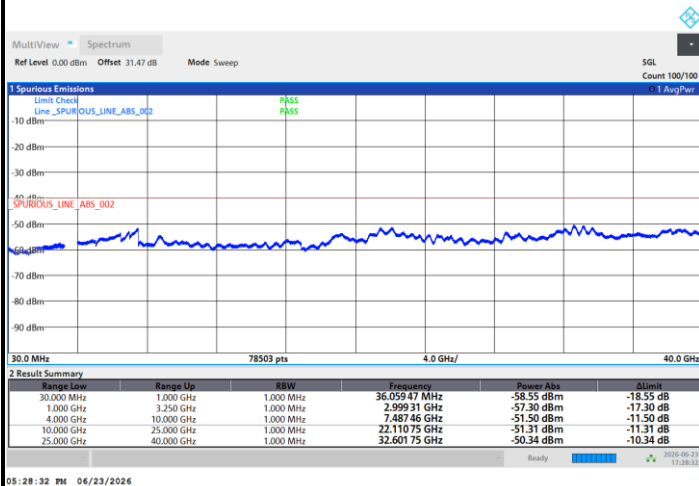
Low Channel / 3555MHz



Middle Channel/ 3625MHz



High Channel / 3695MHz

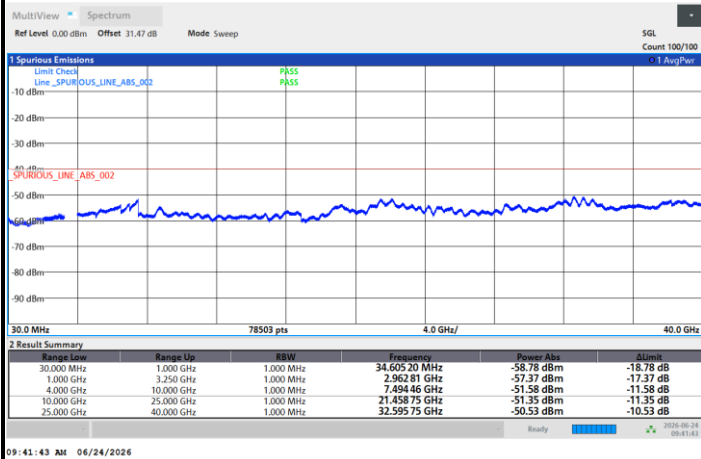


N/A

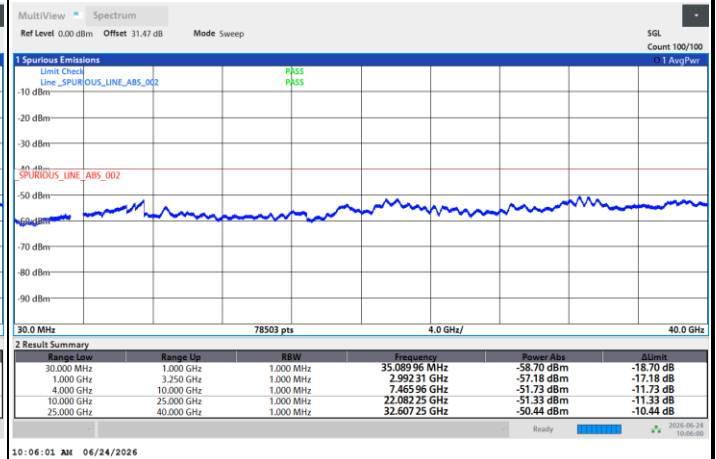


20MHz

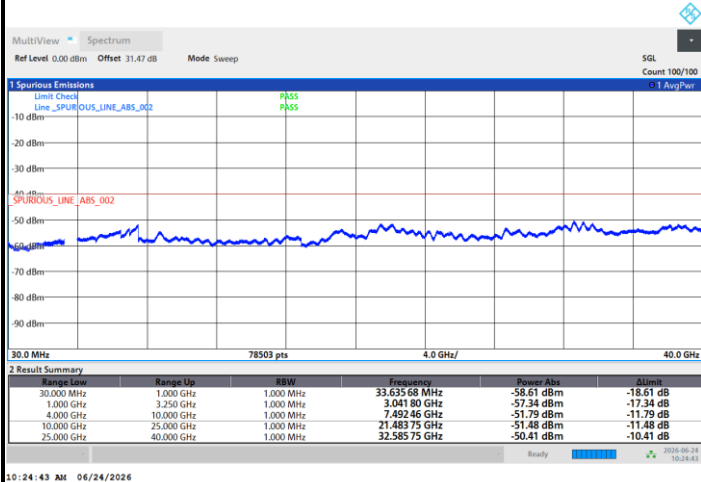
Low Channel / 3560MHz



Middle Channel / 3625MHz



High Channel / 3690MHz

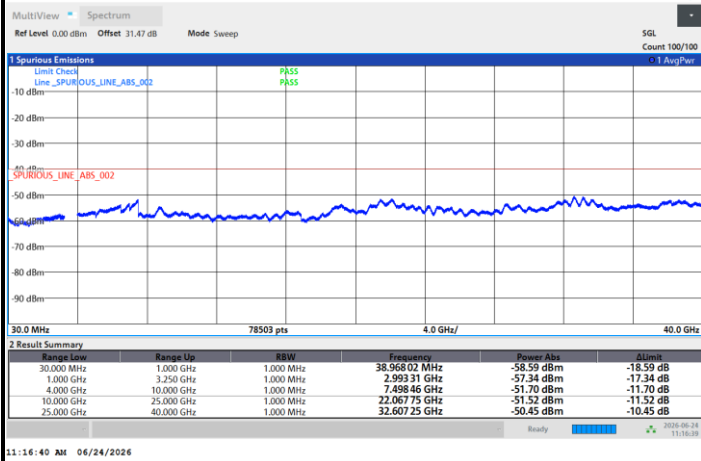


N/A

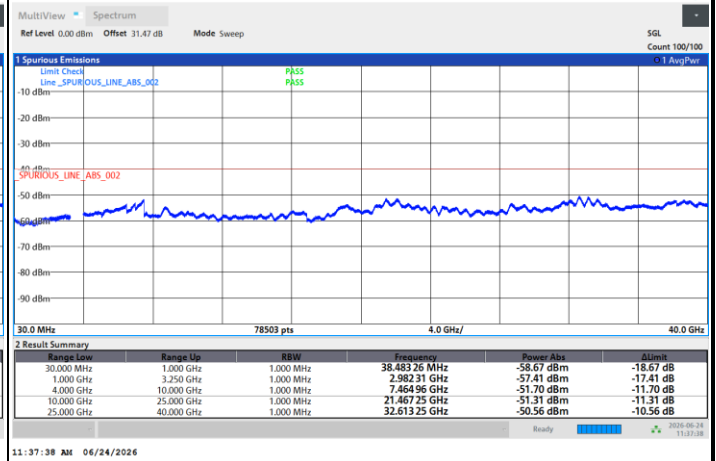


30MHz

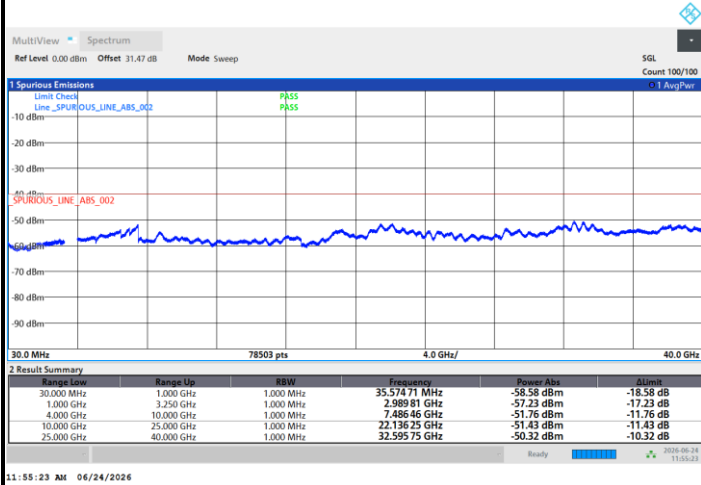
Low Channel / 3565MHz



Middle Channel / 3625MHz



High Channel / 3685MHz

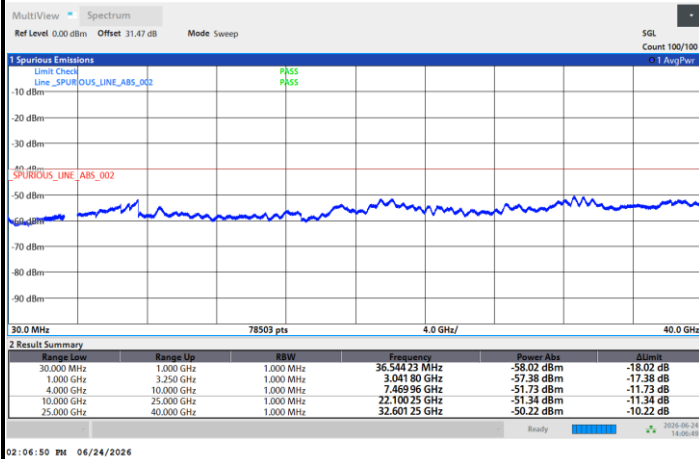


N/A

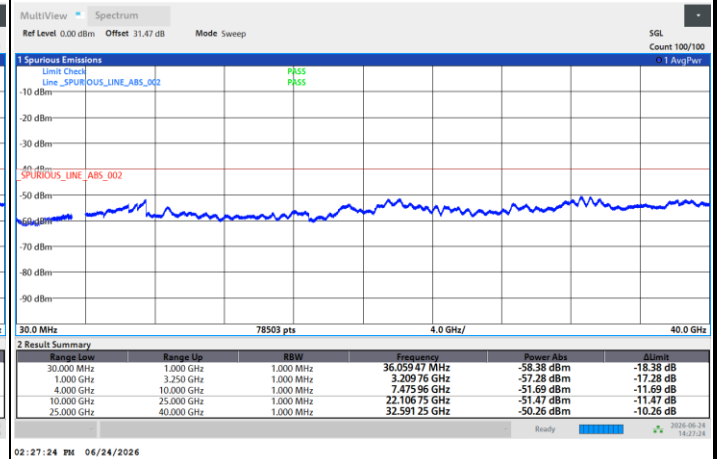


40MHz

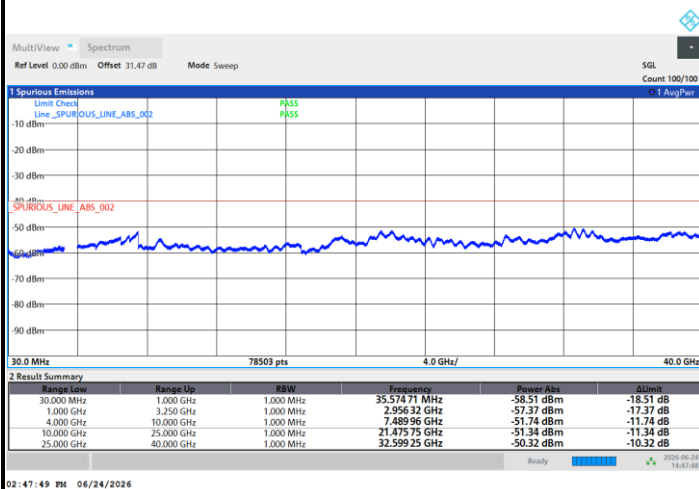
Low Channel / 3570MHz



Middle Channel / 3625MHz



High Channel / 3680MHz



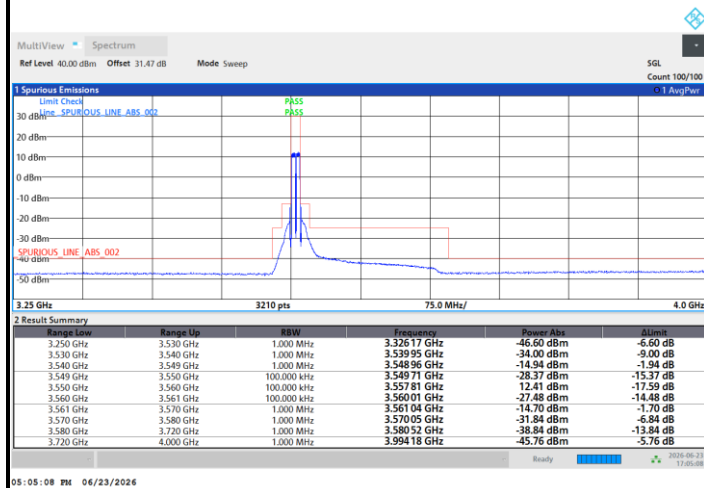
N/A



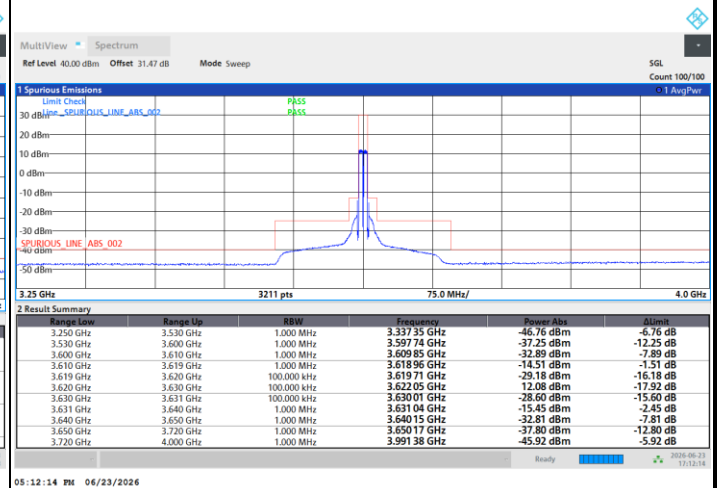
Conducted Band Edge

10MHz

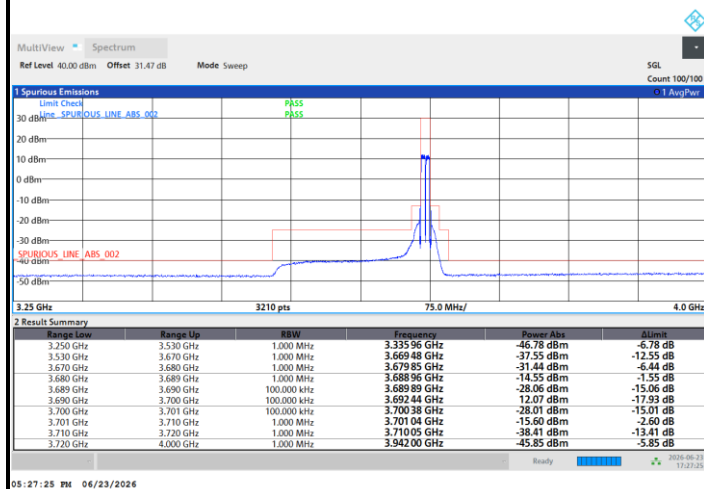
Low Channel / 3555MHz



Middle Channel / 3625MHz



High Channel / 3695MHz

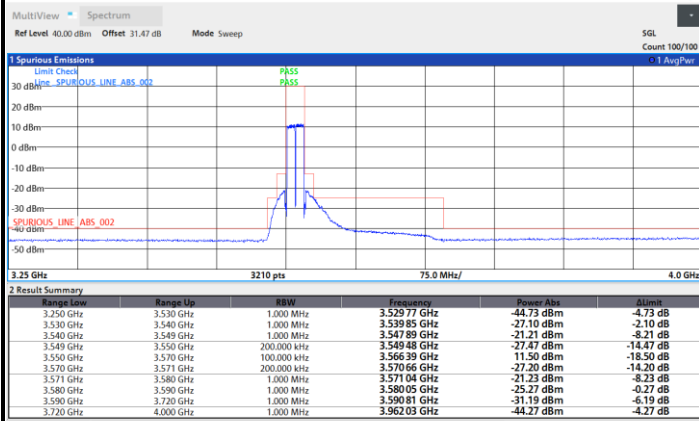


N/A

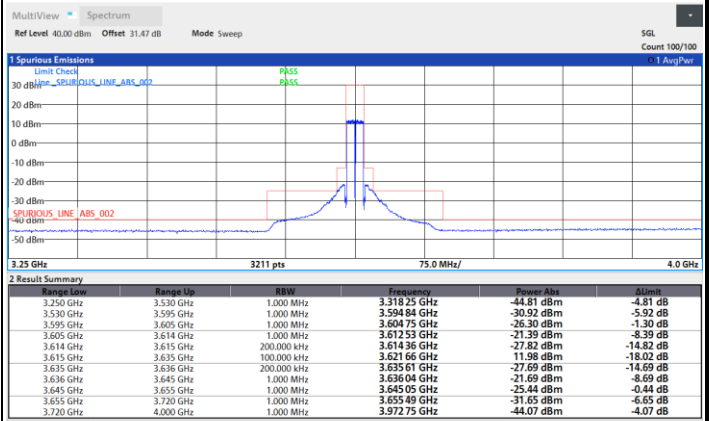


20MHz

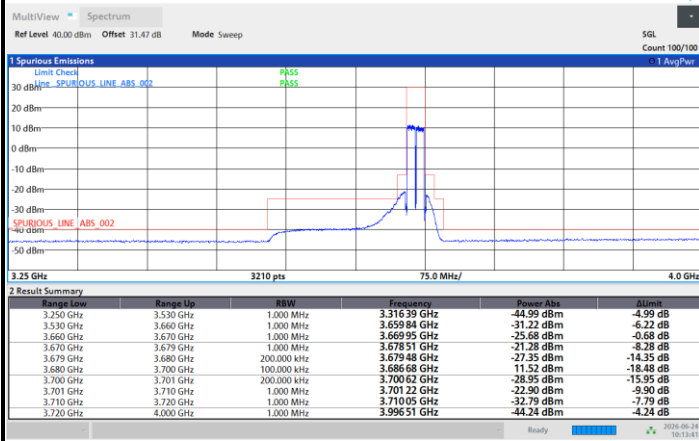
Low Channel / 3560MHz



Middle Channel / 3625MHz



High Channel / 3690MHz

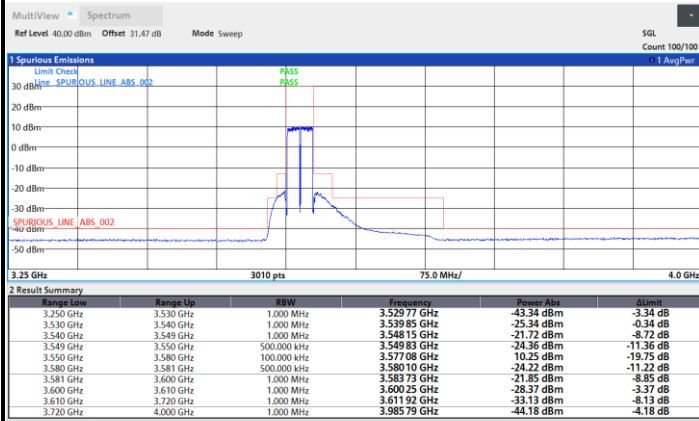


N/A



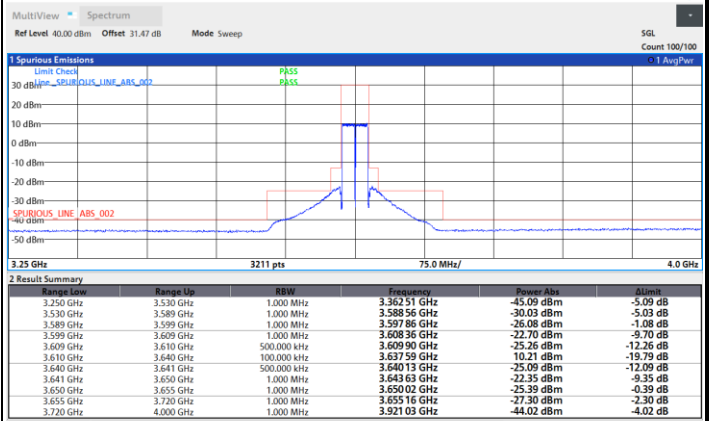
30MHz

Low Channel / 3565MHz



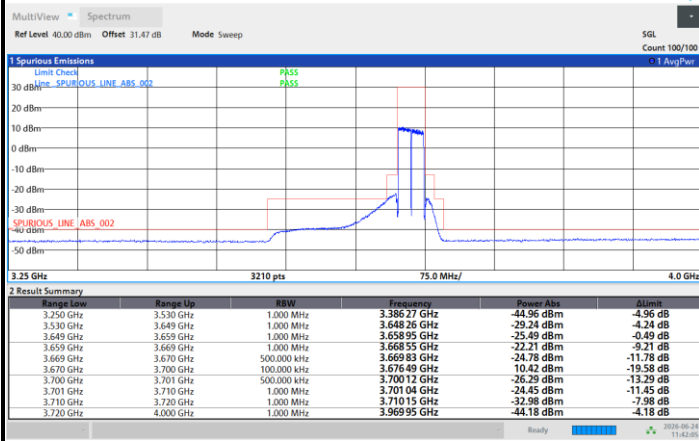
10:54:53 AM 06/24/2026

Middle Channel / 3625MHz



11:33:29 AM 06/24/2026

High Channel / 3685MHz



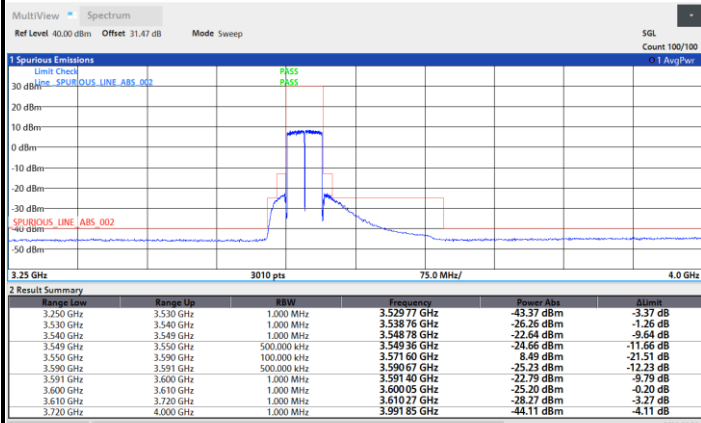
11:42:06 AM 06/24/2026

N/A



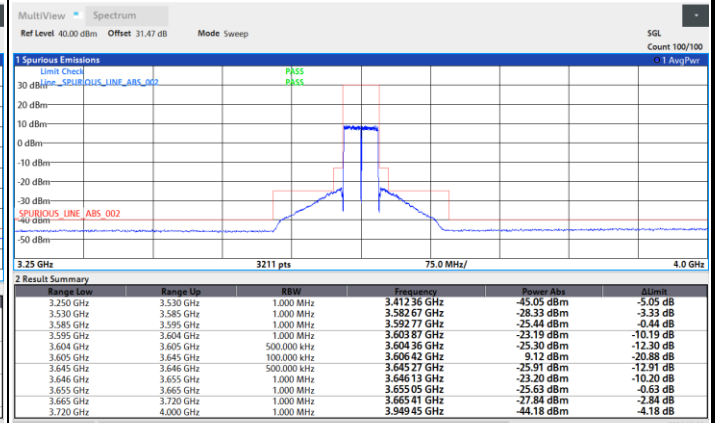
40MHz

Low Channel / 3570MHz



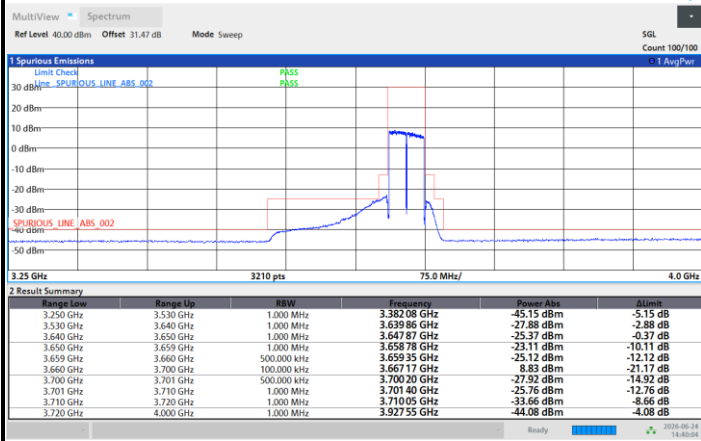
12:00:40 PM 06/24/2026

Middle Channel /3625MHz



02:13:58 PM 06/24/2026

High Channel / 3680MHz



02:40:04 PM 06/24/2026

N/A

Frequency Stability

Test Conditions		Middle Channel / 3625MHz		Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz		Note 2.
		Lower Frequency (MHz)	Upper Frequency (MHz)	Result
50	Normal Voltage	0.001	-0.004	PASS
40	Normal Voltage	-0.001	-0.001	
30	Normal Voltage	0.000	-0.002	
20(Ref.)	Normal Voltage	0.000	0.000	
10	Normal Voltage	0.000	-0.001	
0	Normal Voltage	0.001	-0.003	
-10	Normal Voltage	0.005	-0.011	
-20	Normal Voltage	0.017	-0.027	
-30	Normal Voltage	0.021	-0.034	
20	Maximum Voltage	-0.006	0.003	
20	Normal Voltage	0.000	0.000	
20	Minimum Voltage	-0.003	0.001	

Note:

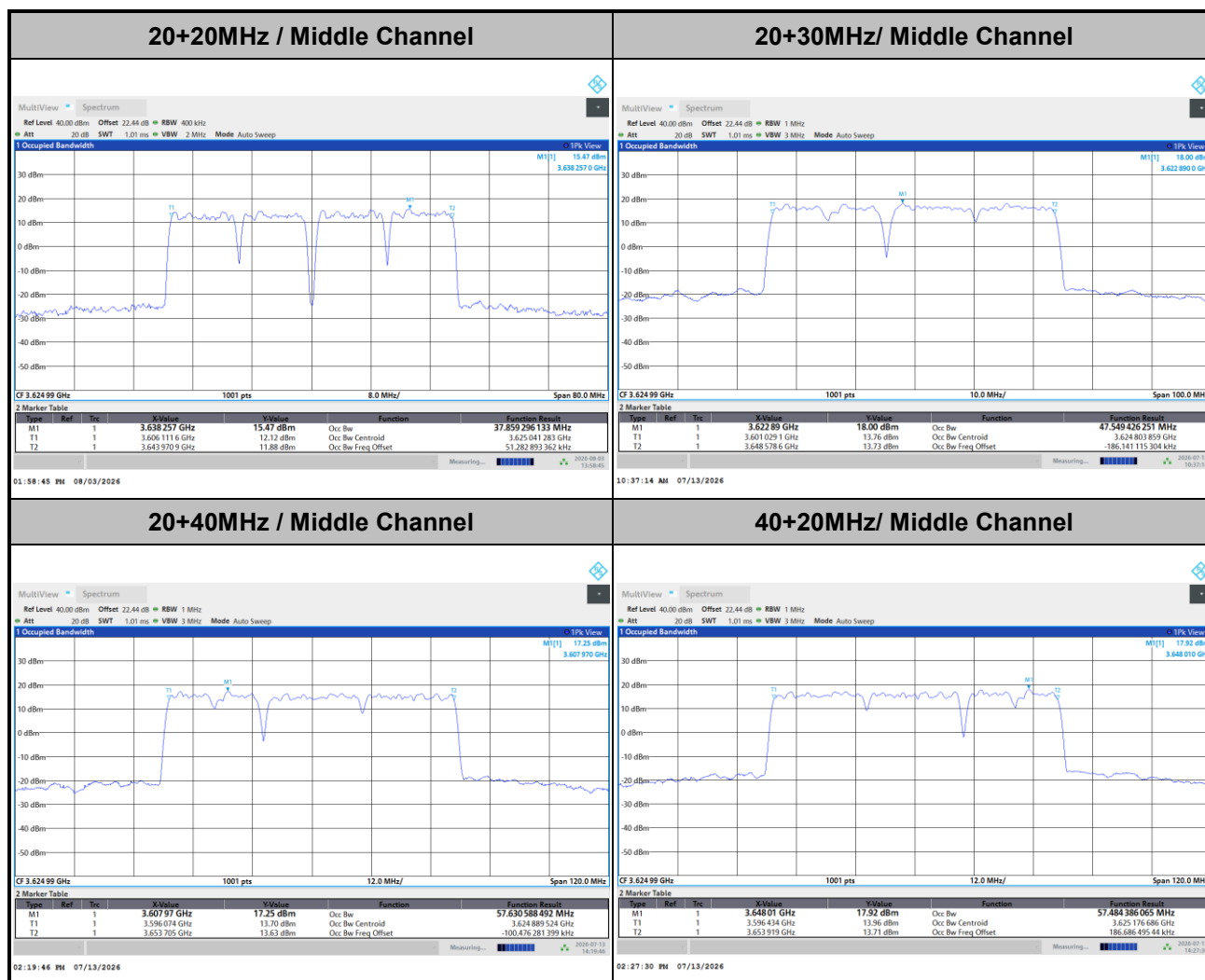
1. Normal Voltage = 56 V. ; Minimum Voltage = 47.6 V. ; Maximum Voltage = 60 V.
2. The frequency fundamental emissions stay within the authorized frequency block
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



<Multi Carrier (Contiguous)>

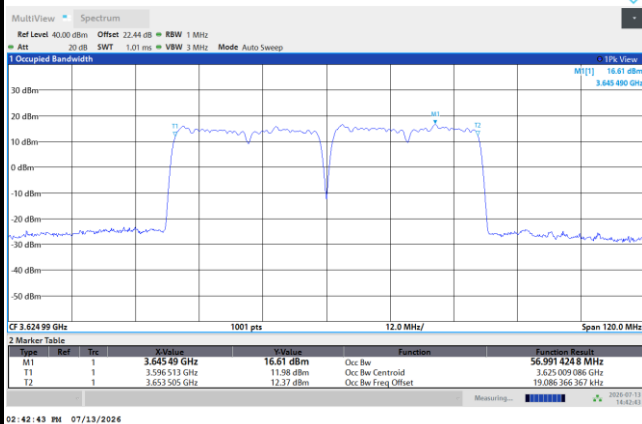
Occupied Bandwidth

Mode	99%OBW(MHz)		
Frequency	3615MHz + 3635MHz	3610MHz + 3635MHz	3605MHz + 3635MHz
BW	20MHz + 20MHz	20MHz + 30MHz	20MHz + 40MHz
Middle CH	37.86	47.55	57.63
Frequency	3615MHz + 3645MHz	3610MHz + 3640MHz	3605MHz + 3640MHz
BW	40MHz + 20MHz	30MHz + 30MHz	30MHz + 40MHz
Middle CH	57.48	56.99	67.15
Frequency	3605MHz + 3645MHz		
BW	40MHz + 40MHz		
Middle CH	77.08		

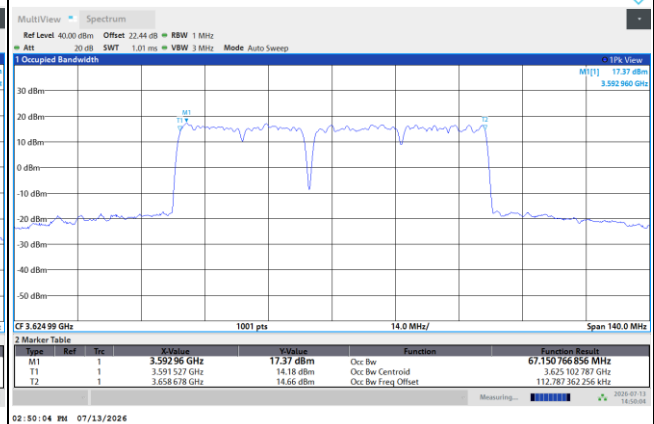




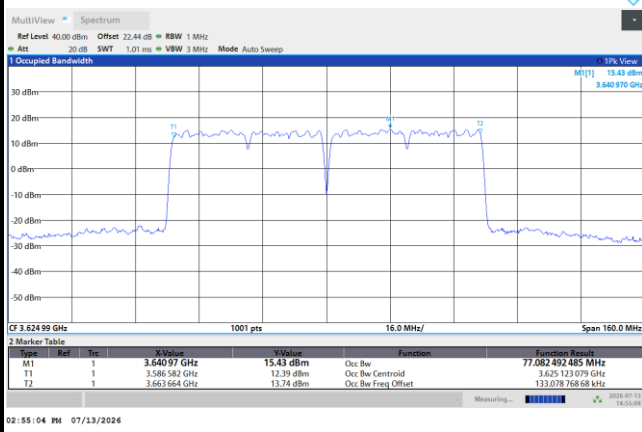
30+30MHz / Middle Channel



30+40MHz/ Middle Channel



40+40MHz / Middle Channel



NA

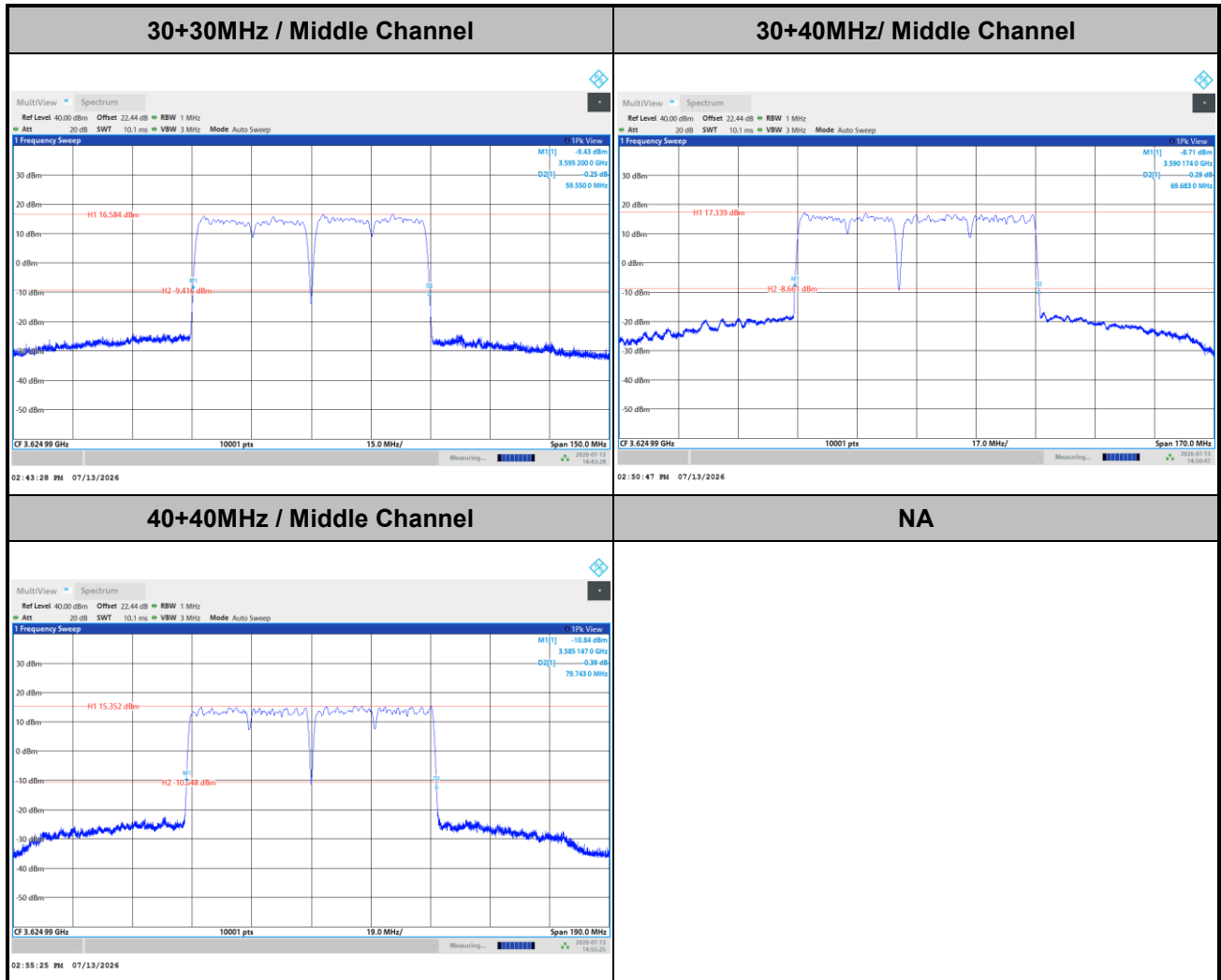


20+20MHz / Middle Channel

20+30MHz/ Middle Channel

20+40MHz / Middle Channel

40+20MHz/ Middle Channel





Power Spectral Density

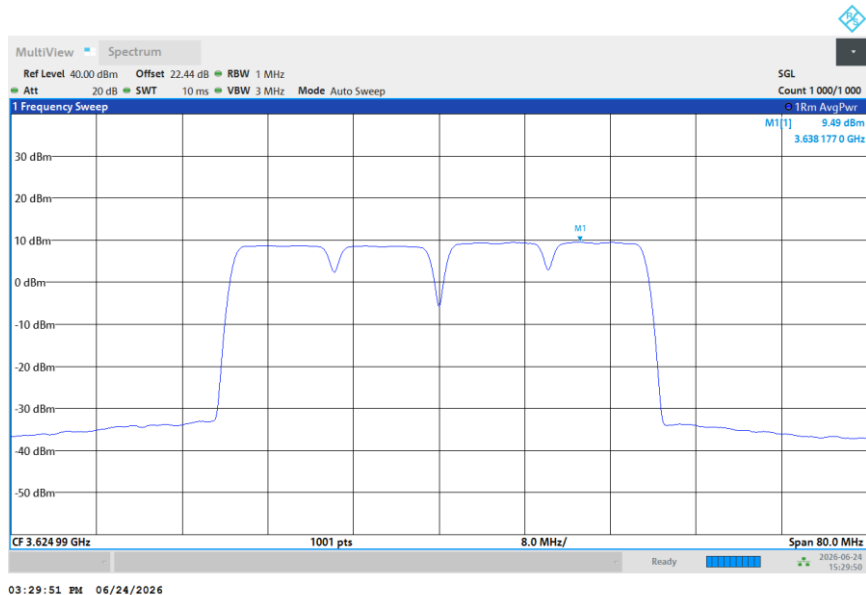
	EIRP PSD (dBm/MHz)									
	Bandwidth(MHz)	Frequency(MHz)	Power Setting		Single Port Conducted PSD (dBm/MHz)	MIMO Factor (dB)	Directional Gain (dBi)	Total EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Result
			Attn	ADAK						
X1 Mode Multi Carrier Contiguous	20MHz+20MHz	3560 + 3580	9	1.8	9.30	9.03	15.64	33.97	37.00	Pass
		3615 + 3635	9	-1 / 0	9.49	9.03	15.64	34.16	37.00	Pass
		3670 + 3690	9	-0.5 / 1	9.15	9.03	15.64	33.82	37.00	Pass
	20MHz+30MHz	3560 + 3585	9	0.2 / 1.7	8.41	9.03	15.64	33.08	37.00	Pass
		3610 + 3635	9	-2.7 / 0	8.05	9.03	15.64	32.72	37.00	Pass
		3660 + 3685	9	-2.5 / -1	8.11	9.03	15.64	32.78	37.00	Pass
	20MHz+40MHz	3560 + 3590	9	-0.5 / 2.3	7.74	9.03	15.64	32.41	37.00	Pass
		3605 + 3635	12	-1 / 2.5	7.40	9.03	15.64	32.07	37.00	Pass
		3650 + 3680	9	-2.8 / 0	7.39	9.03	15.64	32.06	37.00	Pass
	40MHz+20MHz	3570 + 3600	9	2 / -2.5	7.94	9.03	15.64	32.61	37.00	Pass
		3615 + 3645	9 / 12	0.5 / 0	6.54	9.03	15.64	31.21	37.00	Pass
		3660 + 3690	9	0.8 / -1	6.63	9.03	15.64	31.30	37.00	Pass
	30MHz+30MHz	3565 + 3595	9	1.8	8.13	9.03	15.64	32.80	37.00	Pass
		3610 + 3640	9	-2.5 / -1.5	7.06	9.03	15.64	31.73	37.00	Pass
		3655 + 3685	9	-2 / -1	9.13	9.03	15.64	33.80	37.00	Pass
	30MHz+40MHz	3565 + 3600	9	0.5 / -0.5	5.94	9.03	15.64	30.61	37.00	Pass
		3605 + 3640	9	-1 / 0.5	6.91	9.03	15.64	31.58	37.00	Pass
		3645 + 3680	9	-1.5 / 0	7.50	9.03	15.64	32.17	37.00	Pass
	40MHz+40MHz	3570 + 3610	9	1 / -0.3	7.20	9.03	15.64	31.87	37.00	Pass
		3605 + 3645	9	-1.8 / -1	7.07	9.03	15.64	31.74	37.00	Pass
		3640 + 3680	9	-1.5 / -0.5	6.96	9.03	15.64	31.63	37.00	Pass

Remark:

DG (dBi, 4H/4V) = antenna gain + $10 \cdot \log(\text{Nant}/\text{Nss}) = 12.63 + 10 \cdot \log(4/2) = 15.64$ dBi

MIMO Factor: $10 \cdot \log(8) = 9.03$ dB

Maximum EIRP Power Density – 20MHz + 20MHz / 3615MHz + 3635MHz



**EIRP Power (dBm/10MHz)**

	Bandwidth(MHz)	Frequency(MHz)	EIRP Power (dBm/10MHz)							
			Power Setting		Single Port Conducted Power (dBm/10MHz)	MIMO Factor (dB)	Directional Gain (dBi)	Total EIRP (dBm/10MHz)	EIRP Limit (dBm/10 MHz)	Result
			Attn	ADAK						
X1 Mode Multi Carrier Contiguous	20MHz+20MHz	3560 + 3580	9	1.8	18.28	9.03	15.64	42.95	47.00	Pass
		3615 + 3635	9	-1 / 0	18.55	9.03	15.64	43.22	47.00	Pass
		3670 + 3690	9	-0.5 / 1	18.09	9.03	15.64	42.76	47.00	Pass
	20MHz+30MHz	3560 + 3585	9	0.2 / 1.7	17.39	9.03	15.64	42.06	47.00	Pass
		3610 + 3635	9	-2.7 / 0	17.60	9.03	15.64	42.27	47.00	Pass
		3660 + 3685	9	-2.5 / -1	17.54	9.03	15.64	42.21	47.00	Pass
	20MHz+40MHz	3560 + 3590	9	-0.5 / 2.3	16.76	9.03	15.64	41.43	47.00	Pass
		3605 + 3635	12	-1 / 2.5	16.32	9.03	15.64	40.99	47.00	Pass
		3650 + 3680	9	-2.8 / 0	16.45	9.03	15.64	41.12	47.00	Pass
	40MHz+20MHz	3570 + 3600	9	2 / -2.5	16.97	9.03	15.64	41.64	47.00	Pass
		3615 + 3645	9 / 12	0.5 / 0	15.64	9.03	15.64	40.31	47.00	Pass
		3660 + 3690	9	0.8 / -1	15.57	9.03	15.64	40.24	47.00	Pass
	30MHz+30MHz	3565 + 3595	9	1.8	17.70	9.03	15.64	42.37	47.00	Pass
		3610 + 3640	9	-2.5 / -1.5	16.52	9.03	15.64	41.19	47.00	Pass
		3655 + 3685	9	-2 / -1	18.55	9.03	15.64	43.22	47.00	Pass
	30MHz+40MHz	3565 + 3600	9	0.5 / -0.5	15.52	9.03	15.64	40.19	47.00	Pass
		3605 + 3640	9	-1 / 0.5	16.52	9.03	15.64	41.19	47.00	Pass
		3645 + 3680	9	-1.5 / 0	17.07	9.03	15.64	41.74	47.00	Pass
	40MHz+40MHz	3570 + 3610	9	1 / -0.3	16.80	9.03	15.64	41.47	47.00	Pass
		3605 + 3645	9	-1.8 / -1	16.62	9.03	15.64	41.29	47.00	Pass
		3640 + 3680	9	-1.5 / -0.5	16.52	9.03	15.64	41.19	47.00	Pass

Remark:

DG (dBi, 4H/4V) = antenna gain + 10*log(Nant/Nss) = 12.63 + 10*log(4/2) = 15.64 dBi

MIMO Factor: 10*log(8) = 9.03 dB

Maximum EIRP Power (dBm/10MHz) – 20MHz + 20MHz / 3615MHz + 3635MHz

**EIRP total Power (dBm) for reporting only**

	Total EIRP Power (dBm) reporting only							
	Bandwidth(MHz)	Frequency(MHz)	Power Setting		Single Port Conducted Power (dBm)	MIMO Factor (dB)	Directional Gain (dBi)	Total EIRP (dBm)
			Attn	ADAK				
X1 Mode Multi Carrier Contiguous	20MHz+20MHz	3560 + 3580	9	1.8	23.99	9.03	15.64	48.66
		3615 + 3635	9	-1 / 0	24.05	9.03	15.64	48.72
		3670 + 3690	9	-0.5 / 1	23.5	9.03	15.64	48.17
	20MHz+30MHz	3560 + 3585	9	0.2 / 1.7	23.8	9.03	15.64	48.47
		3610 + 3635	9	-2.7 / 0	23.6	9.03	15.64	48.27
		3660 + 3685	9	-2.5 / -1	23.03	9.03	15.64	47.70
	20MHz+40MHz	3560 + 3590	9	-0.5 / 2.3	23.87	9.03	15.64	48.54
		3605 + 3635	12	-1 / 2.5	23.97	9.03	15.64	48.64
		3650 + 3680	9	-2.8 / 0	23.2	9.03	15.64	47.87
	40MHz+20MHz	3570 + 3600	9	2 / -2.5	24.12	9.03	15.64	48.79
		3615 + 3645	9 / 12	0.5 / 0	23.09	9.03	15.64	47.76
		3660 + 3690	9	0.8 / -1	22.84	9.03	15.64	47.51
	30MHz+30MHz	3565 + 3595	9	1.8	24.53	9.03	15.64	49.20
		3610 + 3640	9	-2.5 / -1.5	23.5	9.03	15.64	48.17
		3655 + 3685	9	-2 / -1	24.2	9.03	15.64	48.87
	30MHz+40MHz	3565 + 3600	9	0.5 / -0.5	22.99	9.03	15.64	47.66
		3605 + 3640	9	-1 / 0.5	24.08	9.03	15.64	48.75
		3645 + 3680	9	-1.5 / 0	23.92	9.03	15.64	48.59
	40MHz+40MHz	3570 + 3610	9	1 / -0.3	24.24	9.03	15.64	48.91
		3605 + 3645	9	-1.8 / -1	23.97	9.03	15.64	48.64
		3640 + 3680	9	-1.5 / -0.5	24.14	9.03	15.64	48.81

Remark:

$$DG \text{ (dBi, 4H/4V)} = \text{antenna gain} + 10 \cdot \log(\text{Nant/Nss}) = 12.63 + 10 \cdot \log(4/2) = 15.64 \text{ dBi}$$

$$\text{MIMO Factor: } 10 \cdot \log(8) = 9.03 \text{ dB}$$

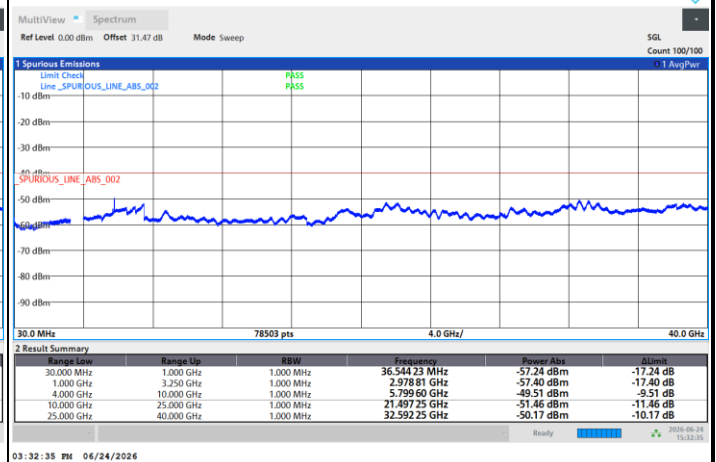
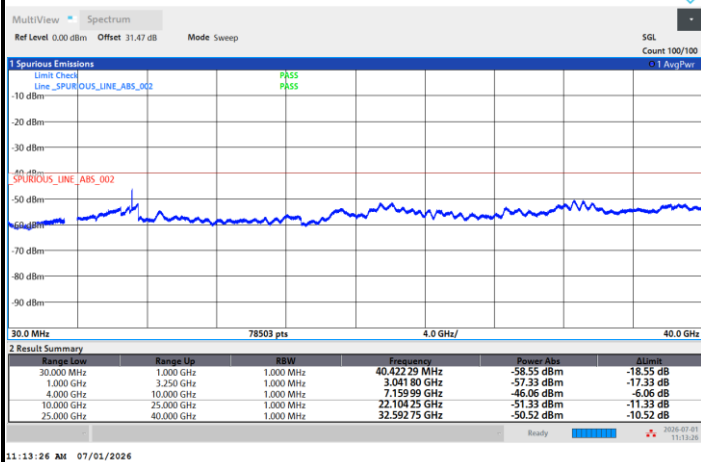


Conducted Spurious Emissions

20+20MHz

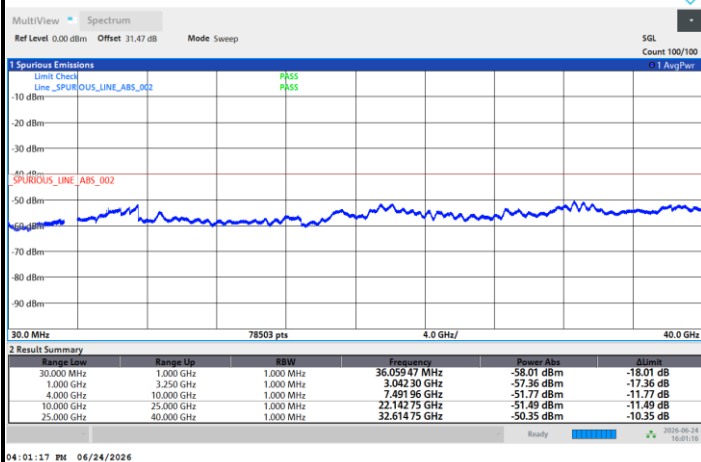
Low Channel / (3560+3580)MHz

Middle Channel / (3615+3635)MHz



High Channel / (3670+3690)MHz

N/A

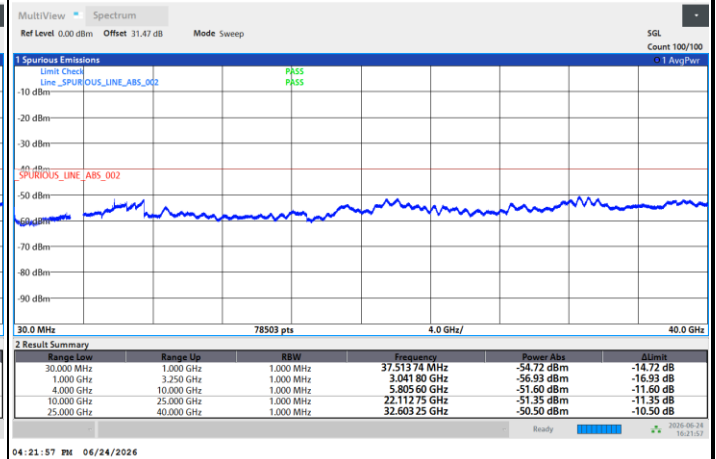
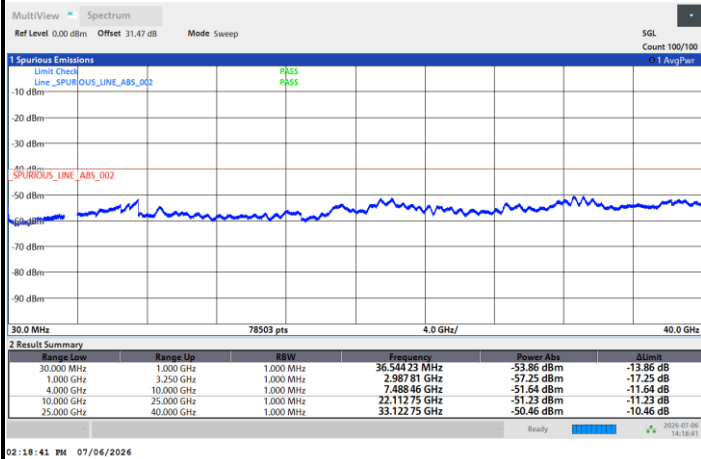




20+30MHz

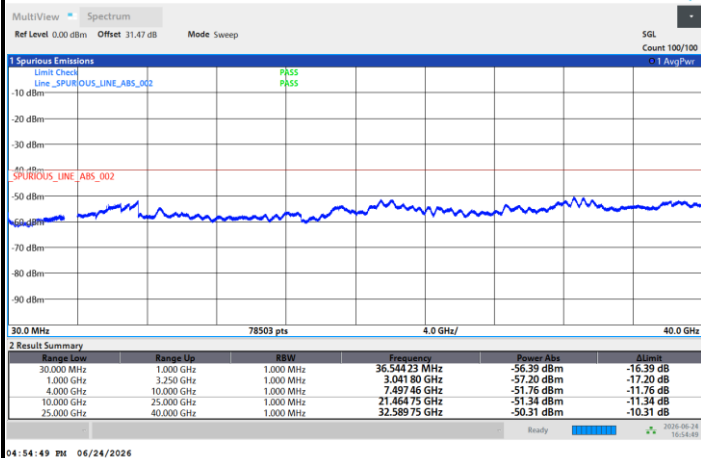
Low Channel / (3560+3585)MHz

Middle Channel / (3610+3635)MHz



High Channel / (3660+3685)MHz

N/A

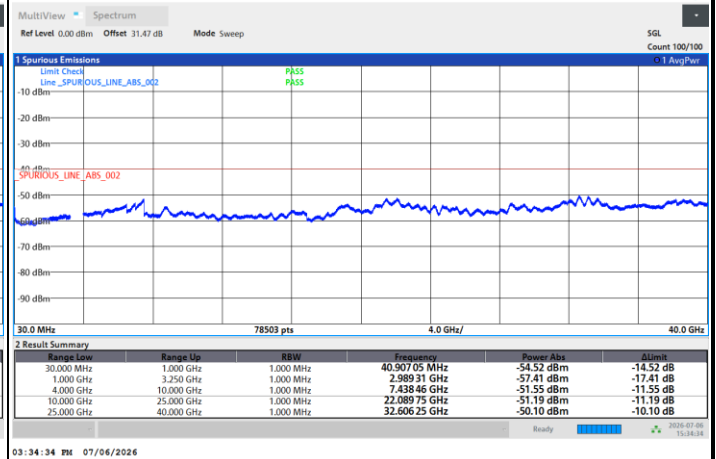
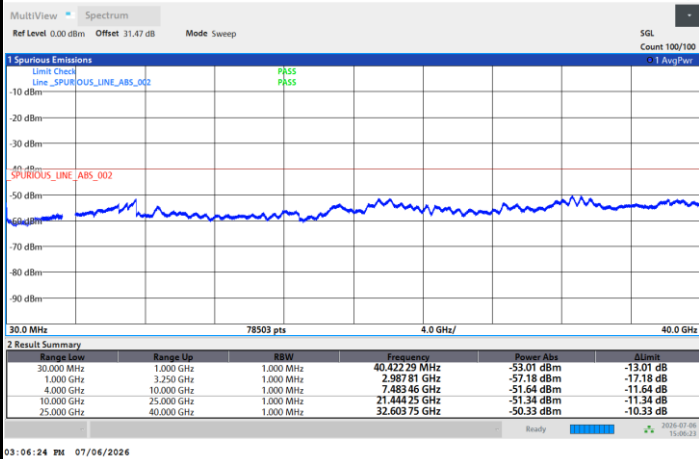




20+40MHz

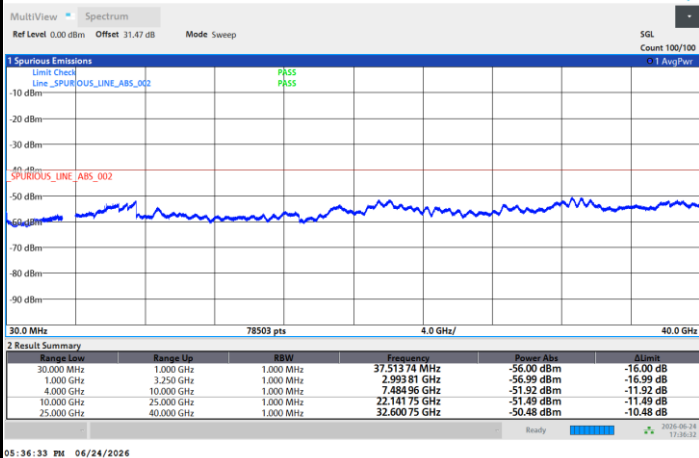
Low Channel / (3560+3590)MHz

Middle Channel / (3605+3635)MHz



High Channel / (3650+3680)MHz

N/A

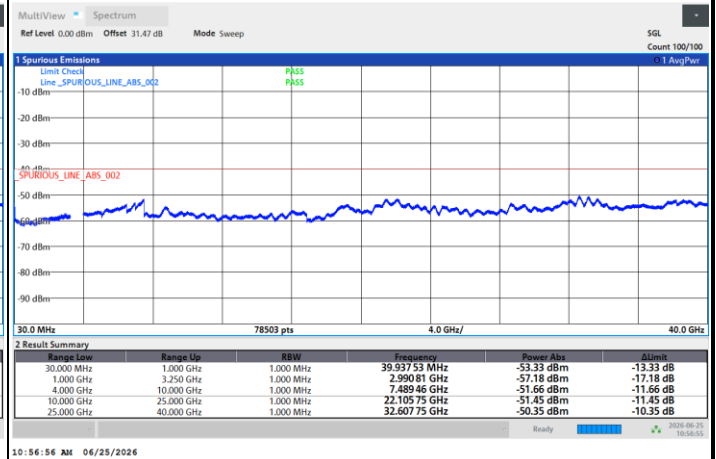
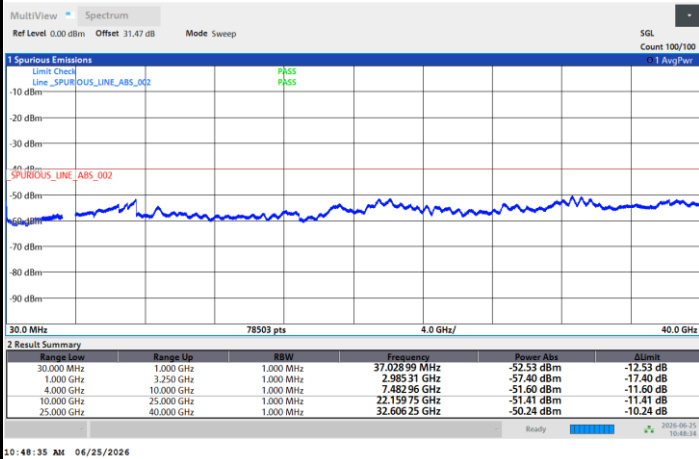




40+20MHz

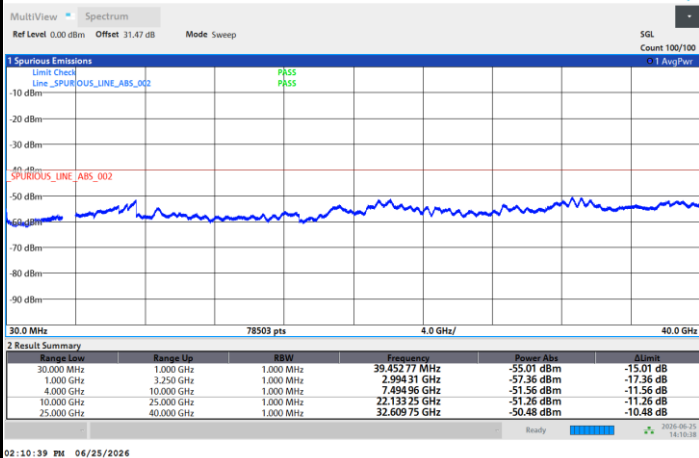
Low Channel / (3570+3600)MHz

Middle Channel / (3615+3645)MHz



High Channel / (3660+3690)MHz

N/A

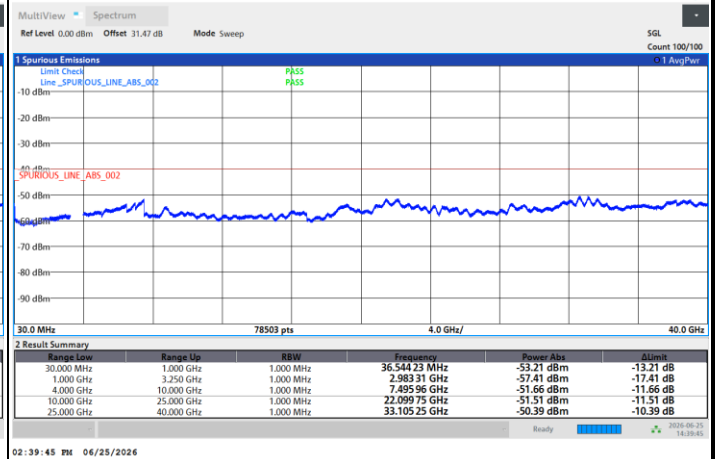
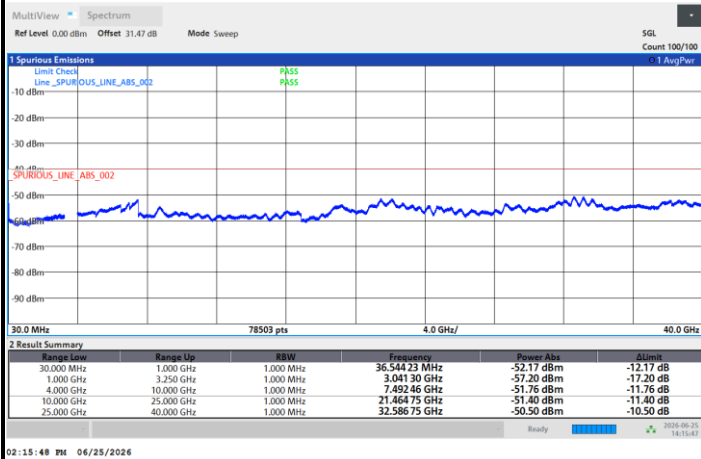




30+30MHz

Low Channel / (3565+3595)MHz

Middle Channel / (3610+3640)MHz



High Channel / (3655+3685)MHz

N/A

