Note: This report is issued subject to the Testing, Certification, Validation and Verification Regulations (TCVVR) of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

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Report on the Radio Testing of:

adidas Zone for IHT SPIRIT System

Model(s): 125

In accordance with 47 CFR FCC Part 15C (BLUETOOTH LOW ENERGY)

Prepared for: adidas AG World of Sports, Adi-Dassler-Strasse 1, 91074 Herzogenaurach, Germany

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Document Number: 7191361208-EEC25/02 | Issue 01

FCC ID: 2BRBC127

RESPONSIBLE FOR	NAME	DATE	SIGNATURE	
Approved By	Foo Kai Maun	15 Jul 2025	Jr	
Prepared By	Quek Keng Huat	14 Jul 2025		

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD PSB document control

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with the mentioned standard(s).







LA-2007-0380-A L LA-2007-0381-F L LA-2007-0382-B L LA-2007-0383-G L LA-2007-0384-G L LA-2007-0385-E

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council.

Inspections/Calibrations/Tests marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our inspection body/laboratory.

Laboratory: TÜV SÜD PSB Pte. Ltd. 15 International Business Park TÜV SÜD @ IBP Singapore 609937

Phone: +65-6778 7777 E-mail: info.sg@tuvsud.com https://www.tuvsud.com/sg Co. Reg: 199002667R Regional Head Office: TÜV SÜD Asia Pacific Pte. Ltd. 15 International Business Park TÜV SÜD @ IBP Singapore 609937

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	15 Jul 2025



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1.2 Introduction

Applicant	:	adidas AG World of Sports,
		Adi-Dassler-Strasse 1,
		91074 Herzogenaurach, Germany
Manufacturer	:	Same as applicant
Factory	:	PCA Technology Limited 3 Ang Mo Kio Street 62 #05-01, Link@Amk Singapore 569139
Model Number(s)	ŀ	125
Serial Number(s)	:	Nil
Number of Samples Tested	i	2
	-	
Test Sample(s) Condition	:	Good
Quotation Reference	:	8196042
Test Specification/Issue/Date	:	FCC 47 CFR Part 15C
Test Sample(s) Received Date	:	04 Jul 2025
Start of Test	:	08 Jul 2025
Finish of Test	:	17 Jul 2025

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1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with specifications as shown below.

Specification Clause	Test Description	Result	Comments/Base Standard
47 CFR FCC Part 15			
15.107(a), 15.207	Conducted Emissions	Pass *See Note 6	ANSI C63.4: 2014 ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2018
15.109(a), 15.205, 15.209	Radiated Emissions (Spurious Emissions Inclusive Restricted Bands Requirement)	Pass	ANSI C63.4: 2014 ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(a)(2)	Spectrum Bandwidth (6dB Bandwidth Measurement)	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(b)(3)	Maximum Peak Power	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(d)	RF Conducted Spurious Emissions (Non-Restricted Bands)	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(d)	RF Conducted Spurious Emissions (Restricted Bands)	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(d)	Band Edge Compliance (Conducted)	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(d)	Band Edge Compliance (Radiated)	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.247(e)	Peak Power Spectral Density	Pass	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
15.35(c)	Duty Cycle Factor Computation	Not Applicable *See Note 5	ANSI C63.10: 2013 KDB 558074 D01 DTS Measurement Guidance V05R02: 2019
2.1093	Maximum Permissible Exposure	Pass	KDB 447498 D01 General RF Exposure Guidance v06: 2015

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Notes

- 1. All the measurements in section 15.247 were done based on conducted measurements except Band Edge Compliance (Radiated) test.
- 2. The EUT is a Class B device when in non-transmitting state and meets the 47 CFR FCC Part15B Class B requirements.
- 3. The maximum measured RF power of the Equipment Under Test is -1.26dBm.
- 4. The EUT was tested using fully charged batteries with DC voltage of 3.8V.
- 5. The EUT was operated in continuous transmission, ie 100% duty cycle.
- 6. The EUT was operated with charging simultaneously.





1.4 Product Information

1.4.1 Technical Description

Description	:	The Equipment Under Test(s) (EUT(s)) is adidas Zone for IHT SPIRIT System.
Microprocessor	:	- Arm® Cortex™-M4 CPU - Nordic Semiconductor nRF52832 Bluetooth SoC
Operating Frequency	:	2402MHz – 2480MHz
Clock / Oscillator Frequency	:	Crystal Clock: 32kHz Microprocessor Clock: 64MHz
Modulation	:	Gaussian Frequency Shift Keying (GFSK)
Antenna Gain	:	0dBi
Port / Connectors	:	Nil
Rated Power	:	Input 100V – 240V 50Hz/ 60Hz 500mA Output 5VDC 200mA
Accessories		Zone Charger 1262037005074

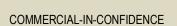


1.4.2 Test Configuration and Modes of Operation

Mode(s)	Description	Description			
Maximum RF power transmission	The EUT was exercised in the mode, transmitting at lower, middle and upper channels as shown below one at a time with all supported modulation schemes were evaluated. For Band Edge Compliance, only lower and upper channels were evaluated.				
	Transmit Channel	Frequency (GHz)			
	Channel 37 (Lower Channel)	2.402			
	Channel 17 (Middle Channel)	2.440			
	Channel 39 (Upper Channel)	2.480			

1.4.3 Performance Criteria and Monitoring Methods

Not Applicable.



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1.5 Deviations from the Standard

Nil.

1.6 EUT Modification Record

No modifications were made.

1.7 Test Location(s)

TÜV SÜD PSB Pte Ltd Electrical & Electronics Centre (EEC), Product Services, 15 International Business Park TÜV SÜD @ IBP Singapore 609937

1.8 Test Facilities Registrations

Requirements	Registration Numbers
FCC	994109 (Test Firm Registration Number) SG0002 (Designation Number)
ISED	SGAP01 (CAB Identifier) 2932N-1 (10m Semi-Anechoic Chamber)
VCCI	R-13324 (10m ANC), G-10203 (10mANC) R-20151 (3m RF Chamber - Lab 7), G-20149 (3m RF Chamber - Lab 7) C-14933 (C.E @ CEIBP) T-12403 (Telecom Ports @ CEIBP)
BSMI	SL2-IS-E-6001R [CNS-13803 (ISM Equipment)] SL2-IN-E-6001R [CNS-13438, CNS-15936 (IT Equipment)] SL2-R1/R2-E-6001R [CNS-13439, CNS-15936 (Broadcast Receivers)] SL2-A1-E-6001R [CNS-13783-1 (Household Appliances)] SL2-L1-E-6001R [CNS-14115 (Lighting Equipment)]
SABS	SABS/A-LAB/0030/2018
ASCA	TL-86



1.9 Supporting Equipment

Equipment Description (Including Brand Name)	Model, Serial & FCC ID Number	Cable Description (List Length, Type & Purpose)
HP EliteBook	M/N: HSN-Q39C-4	
	S/N: 5CD4422Y8E	
	FCC ID: SDoC	
Lenovo AC Adaptor	M/N: ADLX45YCC3A	1.80m unshielded power cable
	S/N: 8SSA10E75843C1SG8ADGTKX	
	FCC ID: SDoC	





2 Test Details

2.1 Conducted Emissions

2.1.1 Test Limits

Frequency Range	Limit Values (dBμV)					
(MHz)	Quasi-peak (Q-P)	Average (AV)				
0.15 - 0.5	66 – 56 *	56 – 46 *				
0.5 - 5.0	56	46				
5.0 - 30.0	60	50				
Decreasing linearly with the logarithm of the frequency						



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2.1.2 Test Setup

- 2.1.2.1 The EUT and supporting equipment were set up in accordance with the requirements of the standard as shown in the setup photos.
- 2.1.2.2 The power supply for the EUT was fed through a $50\Omega/50\mu H$ EUT LISN, connected to filtered mains.
- 2.1.2.3 The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 2.1.2.4 All other supporting equipment were powered separately from another LISN.

2.1.3 Test Method

- 2.1.3.1 The EUT was switched on and allowed to warm up to its normal operating condition.
- 2.1.3.2 A scan was made on the NEUTRAL line over the required frequency range using an EMI test receiver.
- 2.1.3.3 High peaks, relative to the limit line, were then selected.
- 2.1.3.4 The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 9kHz. Both Quasi-peak and Average measurements were made.
- 2.1.3.5 The measurements were then repeated for the LIVE line.

Sample Calculation Example

At 20 MHz Q-P limit = $60.0 \text{ dB}\mu\text{V}$

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.2 dB Q-P reading obtained directly from EMI Receiver = 40.0 dB μ V

(Calibrated for system losses)

Therefore, Q-P margin = 60.0 - 40.0 = 20.0 i.e. 20.0 dB below Q-P limit

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2.1.4 Test Results

Test Input Power	120V 60Hz	Temperature	24°C	
Line Under Test	AC Mains	Relative Humidity	60%	
Mode	e Transmit Mode		1030mbar	
		Tested By	Mohamad Nazrulhizat	
		Test Date	16 Jul 2025	

Frequency (MHz)	Q-P Value (dBµV)	Q-P Limit (dBµV)	Q-P Margin (dB)	AV Value (dBµV)	ΑV Limit (dBμV)	AV Margin (dB)	Line	Channel (Worst)
0.5535	49.9	56.0	6.1	33.5	46.0	12.5	Live	37
0.5536	51.4	56.0	4.6	38.0	46.0	8.0	Neutral	37
7.0593	52.3	60.0	7.7	38.7	60.0	21.3	Neutral	37
7.2730	52.4	60.0	7.6	39.4	60.0	20.6	Live	37
9.0505	51.2	60.0	8.8	37.7	60.0	22.3	Neutral	37
10.9325	50.6	60.0	9.4	33.9	60.0	26.1	Live	37

<u>Notes</u>

1.	All possible modes of operation were investigated from 150kHz to 30MHz. Only the worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.						
2.	A "positive margin" indicates a PASS as it refers to the margin present below the limit line at the particular frequency. Conversely, a "negative margin" indicates a FAIL.						
3.	EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings: 150kHz - 30MHz RBW: 9kHz VBW: 30kHz						



2.2 Radiated Emissions (Spurious Emissions Inclusive Restricted Bands Requirement)

2.2.1 Test Limits

Frequency Range (MHz)	Quasi-Peak Limit Values (dBµV/m)
0.009 - 0.490 *	20 log [2400 / F (kHz)] @ 300m
0.490 - 1.705	20 log [24000 / F (kHz)] @ 30m
1.705 - 30.0	30.0 @ 30m
30 – 88	40.0 @ 3m
88 – 216	43.5 @ 3m
216 – 960	46.0 @ 3m
Above 960 *	54.0 @ 3m

^{*} For frequency bands 9kHz - 90kHz, 110kHz - 490kHz and above 1GHz, average detector was used. A peak limit of 20dB above the average limit does apply.

Restricted Bands

ı	ИHz			MHz			MHz			GHz	
0.090	-	0.110	16.42	-	16.423	399.9	-	410	4.5	-	5.15
0.495	-	0.505	16.69475	-	16.69525	608	-	614	5.35	-	5.46
2.1735	-	2.1905	16.80425	- (16.80475	960	2	1240	7.25	-	7.75
4.125	-	4.128	25.5	- 1	25.67	1300		1427	8.025	-	8.5
4.17725	-	4.17775	37.5	-	38.25	1435	-	1626.5	9.0	-	9.2
4.20725	-	4.20775	73	-	74.6	1645.5	-	1646.5	9.3	-	9.5
6.215	-	6.218	74.8	-	75.2	1660	- ,	1710	10.6	-	12.7
6.26775	-	6.26825	108	-	121.94	1718.8	1	1722.2	13.25	-	13.4
6.31175	-	6.31225	123	-	138	2200	-	2300	14.47	-	14.5
8.291	-	8.294	149.9	_	150.05	2310	_	2390	15.35	-	16.2
8.362	-	8.366	156.52475	-	156.52525	2483.5	-	2500	17.7	-	21.4
8.37625	-	8.38675	156.7	-	156.9	2690	-	2900	22.01	-	23.12
8.41425	-	8.41475	162.0125	-	167.17	3260	-	3267	23.6	-	24.0
12.29	-	12.293	167.72	-	173.2	3332	-	3339	31.2	-	31.8
12.51975	-	12.52025	240	-	285	3345.8	-	3358	36.43	-	36.5
12.57675	-	12.57725	322	-	335.4	3600	-	4400	A	bove 38	.6
13.36	-	13.41									

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2.2.2 Test Setup

- 2.2.2.1 The EUT and supporting equipment were set up in accordance with the requirements of the standard as shown in the setup photos.
- 2.2.2.2 The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 2.2.2.3 The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.

2.2.3 Test Method

- 2.2.3.1 The EUT was switched on and allowed to warm up to its normal operating condition.
- 2.2.3.2 A prescan was carried out to pick the worst emission frequencies from the EUT. For EUT which is a portable device, the prescan was carried out by rotating the EUT through three orthogonal axes to determine which altitude and equipment arrangement produces such emissions.
- 2.2.3.3 The test was carried out at the selected frequency points obtained from the pre-scan. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission
- 2.2.3.4 A Quasi-peak measurement was made for that frequency point if it was less than or equal to 1GHz.For frequency point in range of 9kHz 90kHz, 110kHz 490kHz and above 1GHz, both Peak and Average measurements were carried out.
- 2.2.3.5 The measurements were repeated for the next frequency point, until all selected frequency points were measured.
- 2.2.3.6 The frequency range covered was from the lowest radio frequency signal generated from the EUT, without going below 9kHz to 10th harmonics of the EUT fundamental frequency, using the loop antenna for frequency below 30MHz, Bi-log antenna for frequencies from 30MHz up to 1GHz, and the Horn antenna above 1GHz.

Sample Calculation Example

At 300 MHz Q-P limit = $46.0 \text{ dB}\mu\text{V/m}$

Log-periodic antenna factor & cable loss at 300 MHz = 18.5 dB Q-P reading obtained directly from EMI Receiver = 40.0 dB μ V/m (Calibrated level including antenna factors & cable losses)

Therefore, Q-P margin = 46.0 - 40.0 = 6.0 i.e. 6.0 dB below Q-P limit

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2.2.4 Test Results

Test Input Power	120V 60Hz	Temperature	24°C
Test Distance	10m (<30MHz) 3m (≥30MHz – 25GHz)	Relative Humidity	60%
Mode	Transmit Mode	Atmospheric Pressure	1030mbar
		Tested By	Mohamad Nazrulhizat
		Test Date	16 Jul 2025

Spurious Emissions ranging from 9kHz – 30MHz (for 9kHz – 90kHz, 110kHz – 490kHz) *See Note 4 & 5

Frequency (GHz)	Peak Value (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
	- 37	/					-	-	Q1	
							-			
						/	/			
						-/				
				\		12/7				
			-		-					1

Spurious Emissions ranging from 9kHz - 30MHz *See Note 4 & 5

Frequency (MHz)	Q-P Value (dBμV/m)	Q-P Limit (dBμV/m)	Q-P Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
		1			- /	A -	
		-			7		
		-			/ -		
		-			A-		
		-					

Spurious Emissions ranging from 30MHz - 1GHz

Frequency (MHz)	Q-P Value (dBμV/m)	Q-P Limit (dBμV/m)	Q-P Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
42.7040	17.4	40.0	22.6	200	234	Н	37
55.2120	23.9	40.0	16.1	100	218	V	37
181.5970	21.5	43.5	22.0	100	343	V	37
351.6460	24.4	46.0	21.6	200	280	V	37
801.8010	32.9	46.0	13.1	399	321	V	37
987.1330	36.3	54.0	17.7	100	309	V	37

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Spurious Emissions above 1GHz - 25GHz

Frequency (GHz)	Peak Value (dΒμV/m)	Peak Limit (dΒμV/m)	Peak Margin (dB)	AV Value (dΒμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
1.1998	31.4	74.0	42.6	21.4	54.0	32.6	300	5	V	37
1.9540	36.2	74.0	37.8	20.2	54.0	33.8	100	355	Н	37
4.8038	45.9	74.0	28.1	32.1	54.0	21.9	200	257	Н	37
7.2054	50.1	74.0	23.9	35.6	54.0	18.4	300	283	V	37
			/ - /							
		//	/				-	<u></u>		

Spurious Emissions above 1GHz - 25GHz

Frequency (GHz)	Peak Value (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
1.1998	32.0	74.0	42.0	21.3	54.0	32.7	300	188	V	17
1.9440	37.9	74.0	36.1	19.8	54.0	34.2	100	27	V	17
4.8800	47.8	74.0	26.2	33.3	54.0	20.7	100	1	V	17
7.3194	50.0	74.0	24.0	35.1	54.0	18.9	100	250	V	17
			-			1				
				J.)}-	_	-)		

Spurious Emissions above 1GHz - 25GHz

Frequency (GHz)	Peak Value (dΒμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Azimuth (Degrees)	Pol (H/V)	Channel
1.1998	32.0	74.0	42.0	21.6	54.0	32.4	300	94	V	39
1.9491	38.2	74.0	35.8	20.2	54.0	33.8	300	283	V	39
4.9600	49.5	74.0	24.5	35.1	54.0	18.9	100	7	V	39
7.4398	47.4	74.0	26.6	34.4	54.0	19.6	400	112	V	39
9.0815	48.5	74.0	25.5	34.3	54.0	19.7	200	1	Н	39

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<u>Notes</u>

1.	All possible modes of operation were investigated. Only the worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.						
2.	A "positive margin" indicates a PASS as it refers to the margin present below the limit line at the particular frequency. Conversely, a "negative margin" indicates a FAIL.						
3.	EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:						
	<u>9kHz – 150kHz</u>						
	RBW: 200Hz VBW: 1kHz						
	150kHz – 30MHz						
	RBW: 9kHz VBW: 30kHz						
	<u>30MHz - 1GHz</u>						
	RBW: 120kHz VBW: 1MHz						
	>1GHz						
	RBW: 1MHz VBW: 3MHz						
4.	"" indicates no emissions were found and shows compliance to the limits						
5.	The measurement was done at 10m. The measured results were extrapolated to the specified test limits as specified in § 15.209 (a) based on 40dB/decade.						
6.	Quasi-peak measurement was used for frequency measurement up to 1GHz. Average and peak measurements were used for emissions above 1GHz. The average measurement was done by averaging over a complete cycle of the pulse train, including the blanking interval as the pulse train duration does not exceed 0.1 second.						
7.	The upper frequency of radiated emission investigations was according to requirements stated in Section 15.33 (a) for intentional radiators & Section 15.33 (b) for unintentional radiators.						
8.	The channel in the table refers to the transmit channel of the EUT.						



2.3 Spectrum Bandwidth (6db Bandwidth Measurement)

2.3.1 Test Limits

The EUT shows compliance to the requirements of this section, which states that the minimum bandwidth of the EUT employing digital modulation techniques shall be at least 500kHz.

2.3.2	Test Setup
2.3.2.1	The EUT and supporting equipment were set up as shown in the set up photo.
2.3.2.2	The power supply for the EUT was connected to a filtered mains.
2.3.2.3	The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
2.3.2.4	The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 3 times of RBW.
2.3.2.5	All other supporting equipment were powered separately from another filtered mains.
2.3.3	Test Method
2.3.3.1	The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode at lower channel.
2.3.3.2	The center frequency of the spectrum analyser was set to the transmitting frequency with the frequency span wide enough to capture the 6dB bandwidth of the transmitting frequency.
2.3.3.3	The spectrum analyser was set to max hold to capture the transmitting frequency. The signal capturing was continuous until no further changes were observed.
2.3.3.4	The peak of the transmitting frequency was detected with the marker peak function of the spectrum analyser. The frequencies below the 6dB peak frequency at lower (f_L) and upper (f_H) sides of the transmitting frequency were marked and measured by using the marker-delta function of the spectrum analyser.
2.3.3.5	The 6dB bandwidth of the transmitting frequency is the frequency difference between the marked lower and upper frequencies, \mid f _H – f _L \mid .
2.3.3.6	The measurements were repeated if the EUT supports more than one modulation and data rate.
2.3.3.7	The measurements were repeated with the transmitting frequency was set to middle and upper channels respectively.

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2.3.4 Test Results

Test Input Power	5Vdc	Temperature	24°C	
Attached Plots	1-3	Relative Humidity	60%	
		Atmospheric Pressure	1030mbar	
		Tested By	Mohamad Nazrulhizat	
		Test Date	08 Jul 2025	

Channel	· · · · · · · · · · · · · · · · · · ·		Limit (kHz)
Lower	2.402	0.688	≥ 500
Middle	2.440	0.688	≥ 500
Upper	2.480	0.692	≥ 500

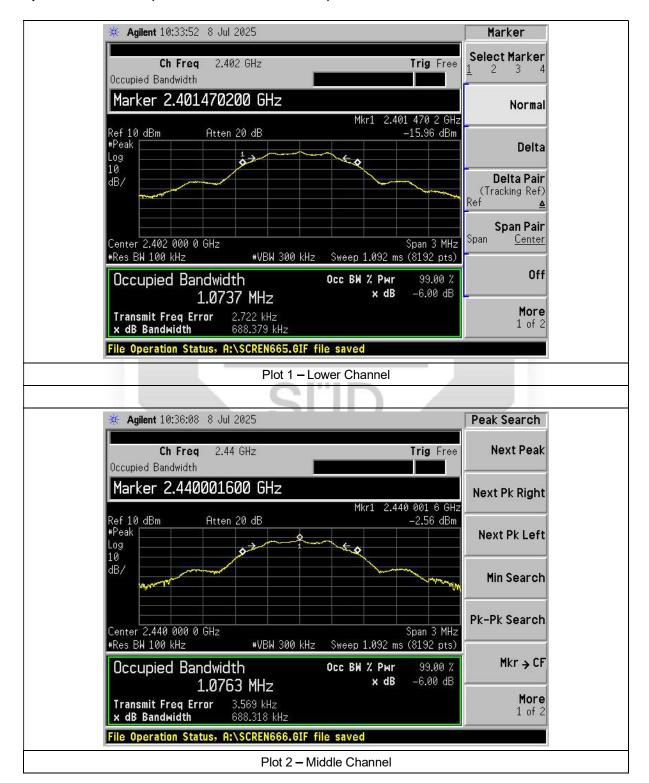
<u>Notes</u>

1. Only the largest measured bandwidths were reported. Refer to plots for all measured bandwidth.



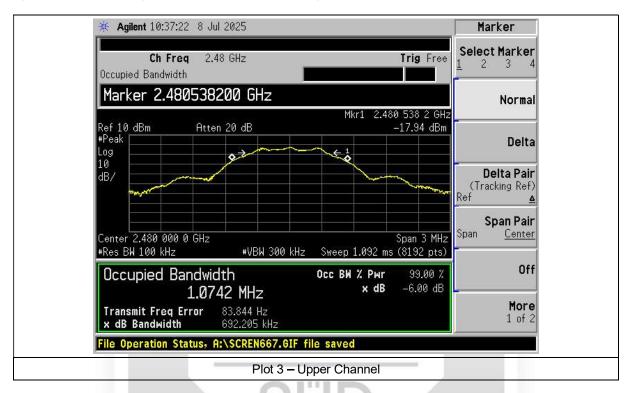


Spectrum Bandwidth (6dB Bandwidth Measurement) Plots





Spectrum Bandwidth (6dB Bandwidth Measurement) Plots



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2.4 Maximum Peak Power

upper channels respectively.

2.4.1 Test Limits

The EUT shows compliance to the requirements of this section, which states the maximum peak power of the EUT employing digital modulation shall not exceed 1W (30dBm).

2.4.2 **Test Setup** 2.4.2.1 The EUT and supporting equipment were set up as shown in the setup photo. 2.4.2.2 The power supply for the EUT was connected to a filtered mains. 2.4.2.3 The RF antenna connector was connected to a power meter. 2.4.2.4 All other supporting equipment were powered separately from another filtered mains. 2.4.3 **Test Method** 2.4.3.1 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode at lower channel. 2.4.3.2 The maximum peak power of the transmitting frequency was detected and recorded. 2.4.3.3 The measurements were repeated if the EUT supports more than one modulation and data rate. 2.4.3.4 The measurement was repeated with the transmitting frequency was set to middle channel and

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2.4.4 Test Results

Test Input Power	5Vdc	Temperature	24°C	
Antenna Gain	0.0dBi	Relative Humidity	60%	
		Atmospheric Pressure	1030mbar	
		Tested By	Mohamad Nazrulhizat	
		Test Date	08 Jul 2025	

Channel	Channel Frequency (GHz)	Maximum Peak Power (W) *See Note 1	Limit (W)
Lower	2.402	0.00075	1.0
Middle	2.440	0.00071	1.0
Upper	2.480	0.00066	1.0

<u>Notes</u>

1.	Only the highest measured peak power were reported.
----	---





2.5 RF Conducted Spurious Emissions (Non-Restricted Bands)

2.5.1 Test Limits

The EUT shows compliance to the requirements of this section, which states in any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator (EUT) is operating, the radio frequency power that is produced by the EUT shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

2.5.2	Test Setup
2.5.2.1	The EUT and supporting equipment were set up as shown in the setup photo.
2.5.2.2	The power supply for the EUT was connected to a filtered mains.
2.5.2.3	The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
2.5.2.4	The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 3 times of RBW.
2.5.2.5	All other supporting equipment were powered separately from another filtered mains.
2.5.3	Test Method
2.5.3.1	The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, with transmitting frequency at lower channel.
2.5.3.2	The start and stop frequencies of the spectrum analyser were set to 30MHz and 10GHz.
2.5.3.3	The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
2.5.3.4	The measurements were repeated with frequency span was set from 10GHz to 25GHz.
2.5.3.5	The measurements were repeated if the EUT supports more than one modulation and data rate.

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2.5.4 Test Results

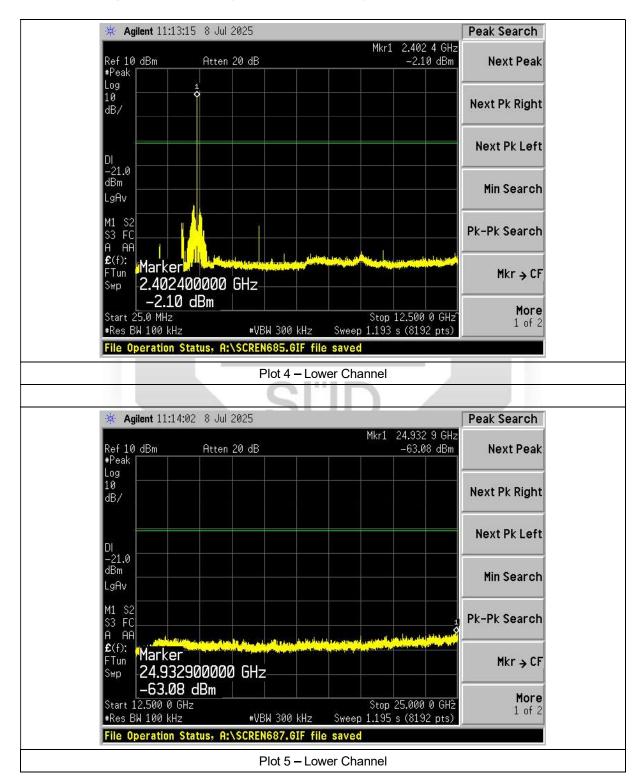
Test Input Power	5Vdc	Temperature 24°C			
Attached Plots	4-9	Relative Humidity	60%		
		Atmospheric Pressure	1030mbar		
		Tested By	Mohamad Nazrulhizat		
		Test Date	08 Jul 2025		

All spurious signals found were below the specified limit. Please refer to the attached plots.



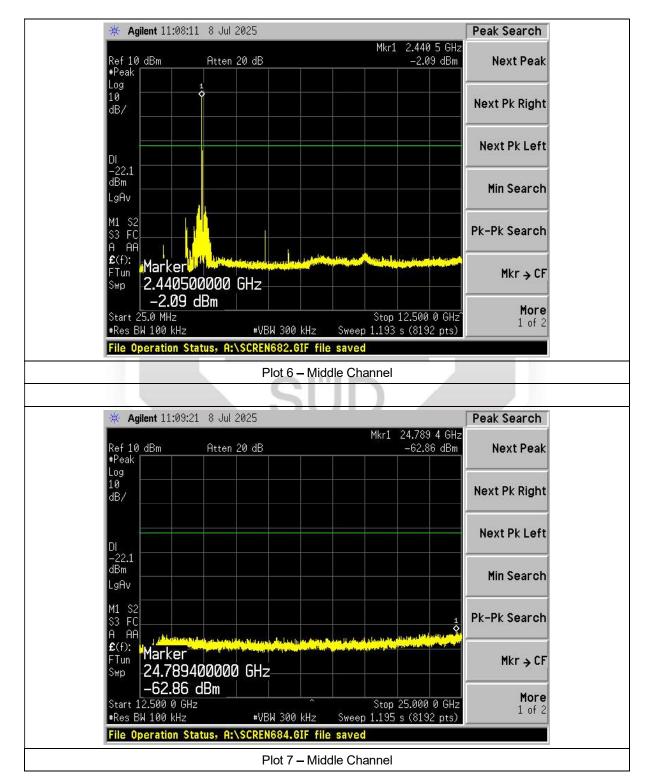


RF Conducted Spurious Emissions (Non-Restricted Bands) Plots



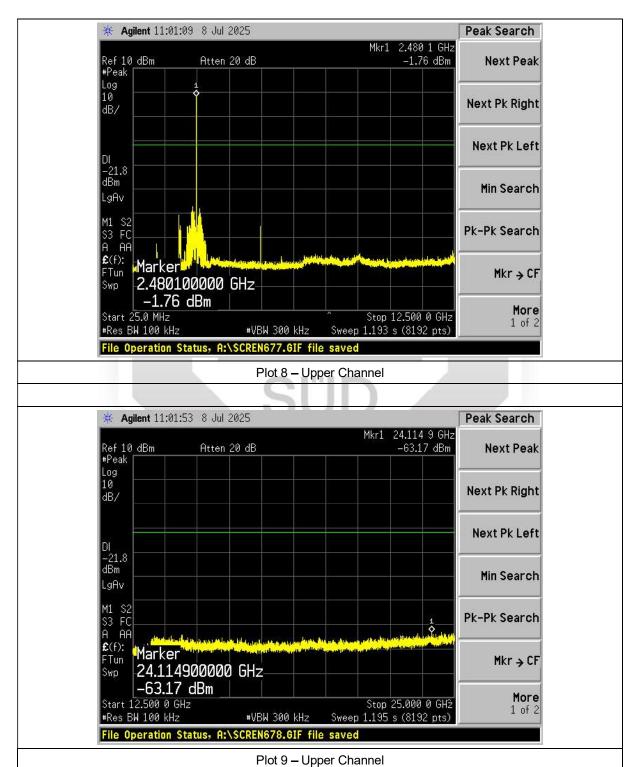


RF Conducted Spurious Emissions (Non-Restricted Bands) Plots





RF Conducted Spurious Emissions (Non-Restricted Bands) Plots





2.6 RF Conducted Spurious Emissions (Restricted Bands)

2.6.1 Test Limits

The EUT shows compliance to the requirements of this section, which states that emissions which fall in the restricted bands must comply with the radiated emission limits specified in the table below:

Frequency Range (MHz)	EIRP (dBm)	Radiated Emissions (dBµV/m)				
0.009 - 0.490	-6.7 – (-41.4) **	67.6 – 20logF* @ 300m **				
0.490 – 1.705	-41.4 – (-52.3) **	87.6 – 20logF* @ 30m **				
1.705 – 30	-45.7	29.5 @ 30m				
30 - 88	-55.2	40.0 @ 3m				
88 - 216	-51.7	43.5 @ 3m				
216 - 960	-49.2	46.0 @ 3m				
>960	-41.2 ***	54.0 @ 3m ***				
* F is frequency in kHz.						
** Decreasing linearly with the logarithm of the frequency.						
*** Above 1GHz, a peak limit of 20	dB above the average limit does app	ly.				

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ı	MHz		·	MHz			MHz		4	GHz	
0.090	-	0.110	16.42	-	16.423	399.9	-	410	4.5	-	5.15
0.495	-	0.505	16.69475	-	16.69525	608	-	614	5.35	-	5.46
2.1735	-	2.1905	16.80425	-	16.80475	960	/-	1240	7.25	-	7.75
4.125	-	4.128	25.5	-	25.67	1300	4	1427	8.025	-	8.5
4.17725	-	4.17775	37.5	-	38.25	1435	_	1626.5	9.0	-	9.2
4.20725	-	4.20775	73	-	74.6	1645.5	-	1646.5	9.3	-	9.5
6.215	-	6.218	74.8	-	75.2	1660	-	1710	10.6	-	12.7
6.26775	-	6.26825	108	-	121.94	1718.8	-	1722.2	13.25	-	13.4
6.31175	-	6.31225	123	-	138	2200	-	2300	14.47	-	14.5
8.291	-	8.294	149.9	-	150.05	2310	-	2390	15.35	-	16.2
8.362	-	8.366	156.52475	-	156.52525	2483.5	-	2500	17.7	-	21.4
8.37625	-	8.38675	156.7	-	156.9	2690	-	2900	22.01	-	23.12
8.41425	-	8.41475	162.0125	-	167.17	3260	-	3267	23.6	-	24.0
12.29	-	12.293	167.72	-	173.2	3332	-	3339	31.2	-	31.8
12.51975	-	12.52025	240	-	285	3345.8	-	3358	36.43	-	36.5
12.57675	-	12.57725	322	-	335.4	3600	-	4400	Ab	ove 3	3.6
13.36	-	13.41			·						



2.6.2 Test Setup

- 2.6.2.1 The EUT and supporting equipment were set up as shown in the setup photo.
- 2.6.2.2 The power supply for the EUT was connected to a filtered-mains.
- 2.6.2.3 The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
- 2.6.2.4 The resolution bandwidth (RBW) of the spectrum analyser was set to the following settings. The video bandwidth (VBW) was set to at least three times of the RBW.

Frequency (MHz)	RBW (kHz)
0.009 - 0.150	0.2
0.150 - 30.0	9.0
30.0 - 1000	100.0
> 1000	1000.0

- 2.6.2.5 The detector of the spectrum analyser was set to peak detection mode.
- 2.6.2.6 All other supporting equipment were powered separately from another filtered mains.

2.6.3 Test Method

Measurement in the range 9kHz - 1000MHz

- 2.6.3.1 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, with the transmitting frequency was set to lower channel.
- 2.6.3.2 The start and stop frequencies of the spectrum analyser were set according to the supported RBW.
- 2.6.3.3 The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected. The antenna gain of the EUT was added to the captured spurious emissions.
- 2.6.3.4 No further measurement was required if all the captured emissions complied to the limits. Else, the spectrum analyser was set to zoom to the captured emission with the detector of the spectrum analyser was set to quasi-peak. The emission level of the captured frequency was measured.
- 2.6.3.5 The measurements were repeated until all the captured emissions which exceeding the limits were measured.
- 2.6.3.6 The measurements were repeated if the EUT supports more than one modulation and data rate.
- 2.6.3.7 The measurements were repeated with the transmitting frequency was set to middle and upper channels respectively.

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Measurement above 1000MHz

- 2.6.3.8 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode, with the transmitting frequency was set to lower channel.
- 2.6.3.9 The start and stop frequencies of the spectrum analyser were set according to the supported frequency band of the set RBW with the number of points in a sweep was set to equal or greater than 2 times of the ratio of span over RBW.
- 2.6.3.10 The detector of the spectrum analyser was set to power average (RMS) mode with the sweep time was set to equal or greater than 10 times of the product of number of measurement points in a sweep and transmission symbol time.
- 2.6.3.11 The spectrum analyser was then allowed to capture any spurious emissions within a single sweep. The peak marker function of the spectrum analyser was used to locate the highest power level. The antenna gain of the EUT was added to the captured spurious emissions.
- 2.6.3.12 The measurements were repeated until all the required frequency bands were measured.
- 2.6.3.13 The measurements were repeated if the EUT supports more than one modulation and data rate.
- 2.6.3.14 The measurements were repeated with the transmitting frequency was set to middle and upper channels respectively.
- 2.6.3.15 The measurements were repeated with the detector of the spectrum analyser was set to peak detecting mode. The sweep time was set to auto coupler.





2.6.4 Test Results

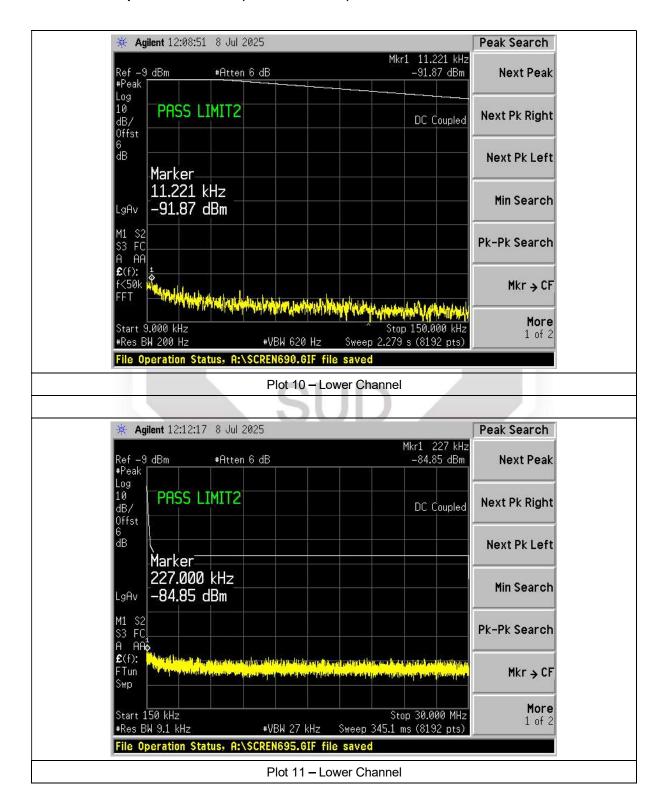
Test Input Power	5Vdc	Temperature 24°C			
Attached Plots	10 – 42 (Peak)	Relative Humidity	60%		
		Atmospheric Pressure	1030mbar		
		Tested By	Mohamad Nazrulhizat		
		Test Date	08 Jul 2025		

All spurious signals found were below the specified limit. Please refer to the attached plots.



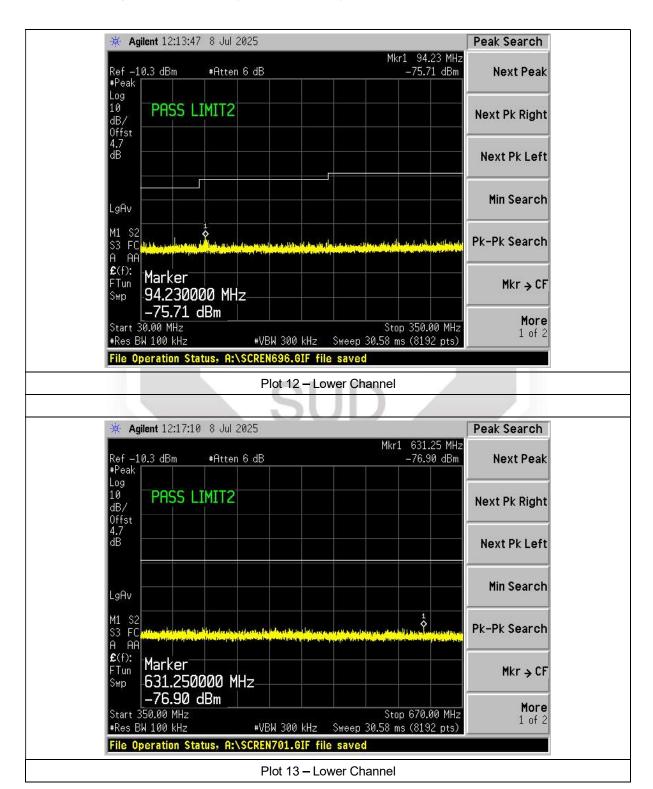


RF Conducted Spurious Emissions (Restricted Bands) Plots - Peak



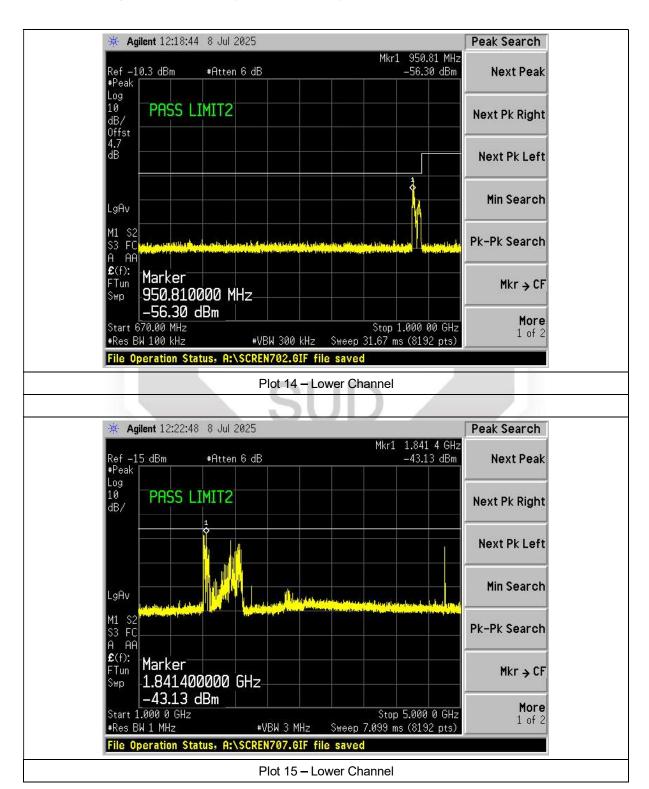


RF Conducted Spurious Emissions (Restricted Bands) Plots – Peak

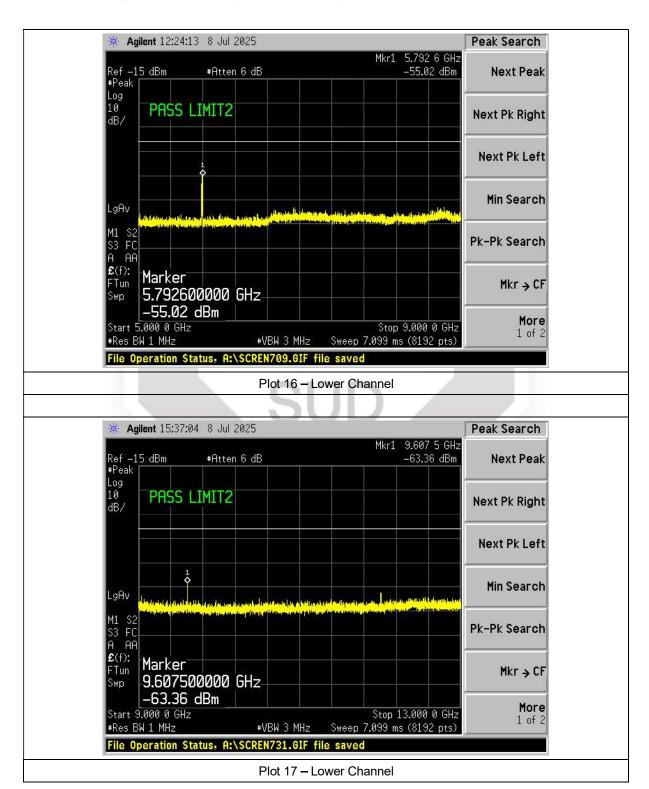




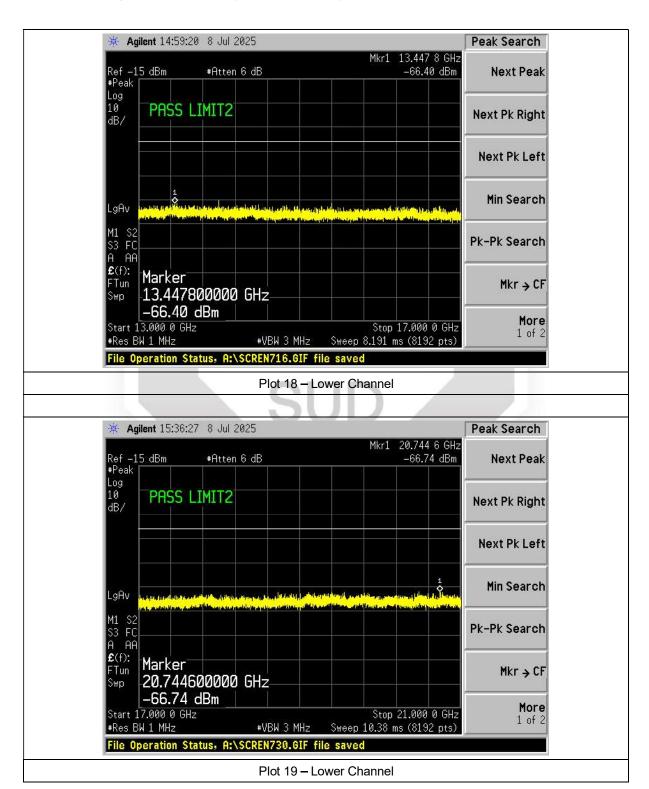
RF Conducted Spurious Emissions (Restricted Bands) Plots – Peak



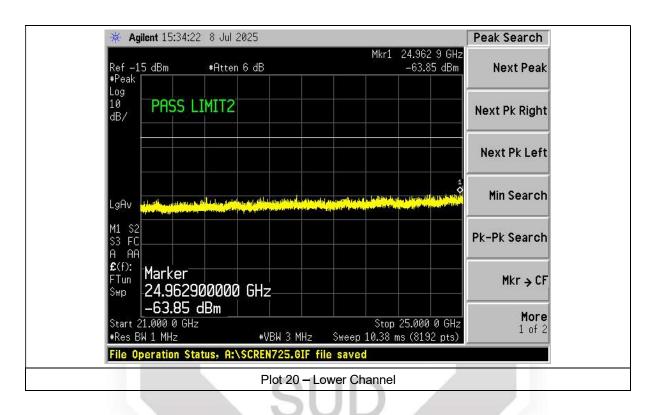




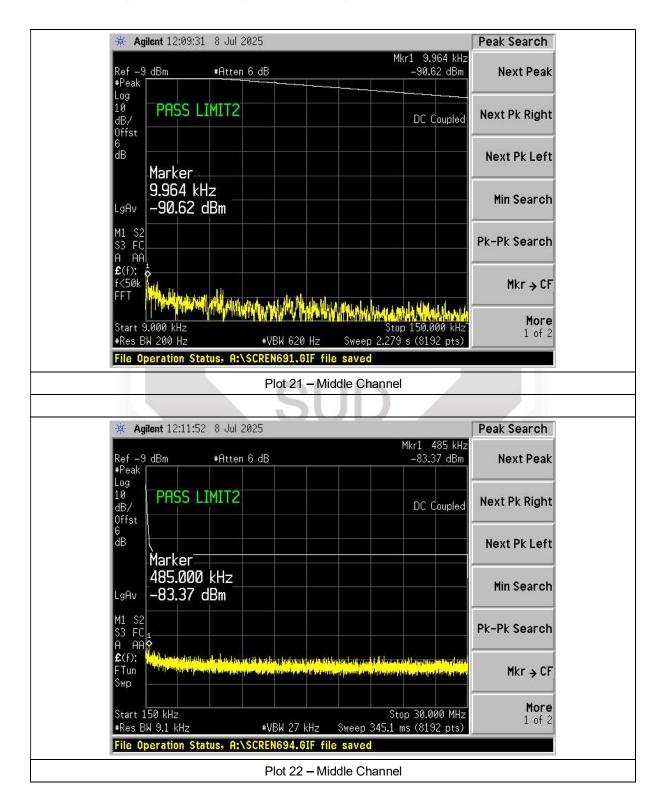




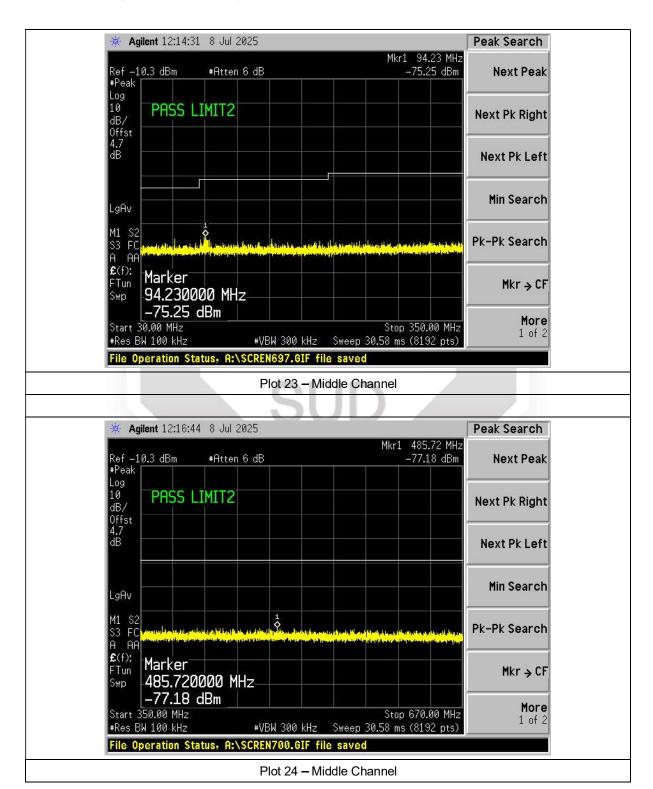




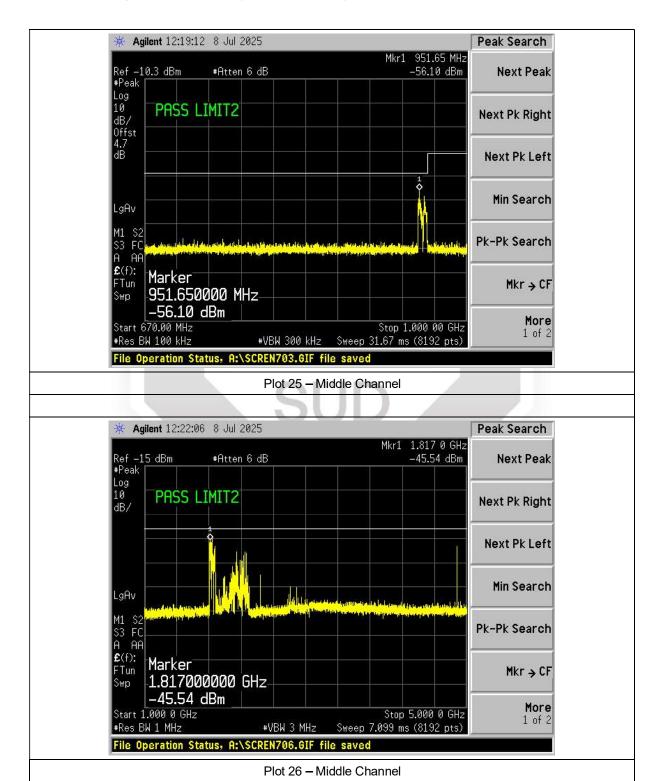




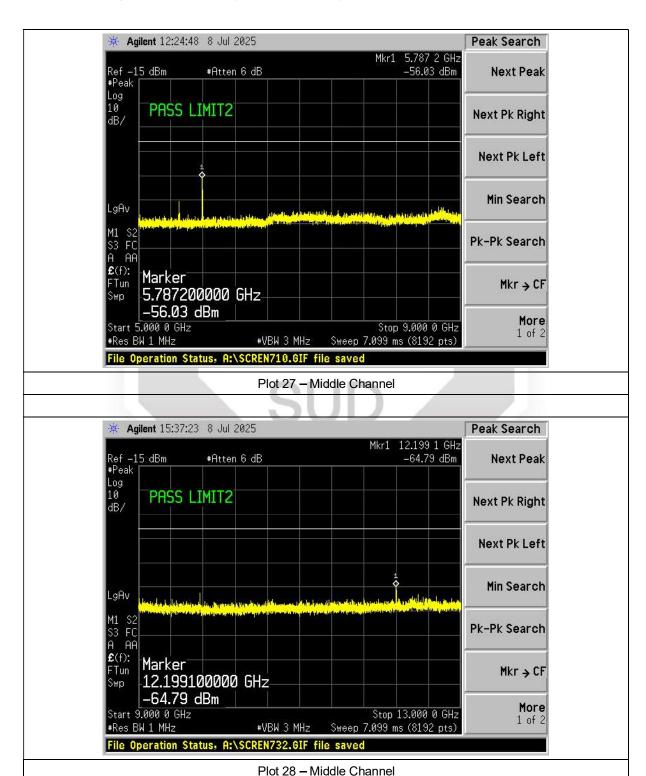




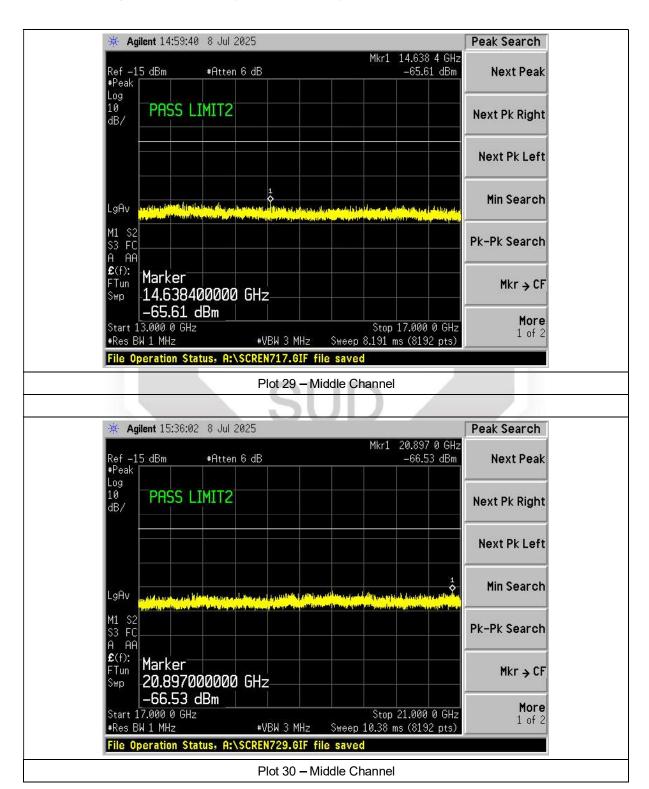




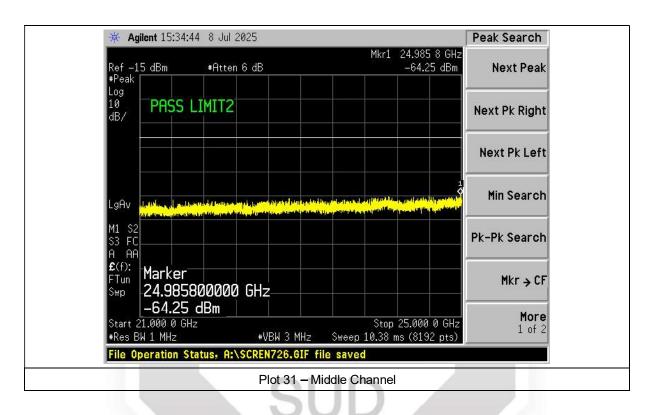




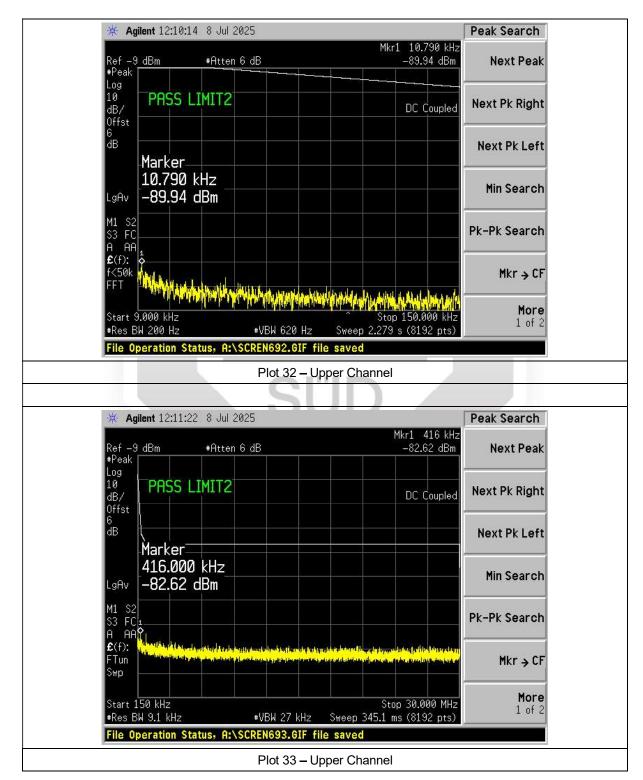




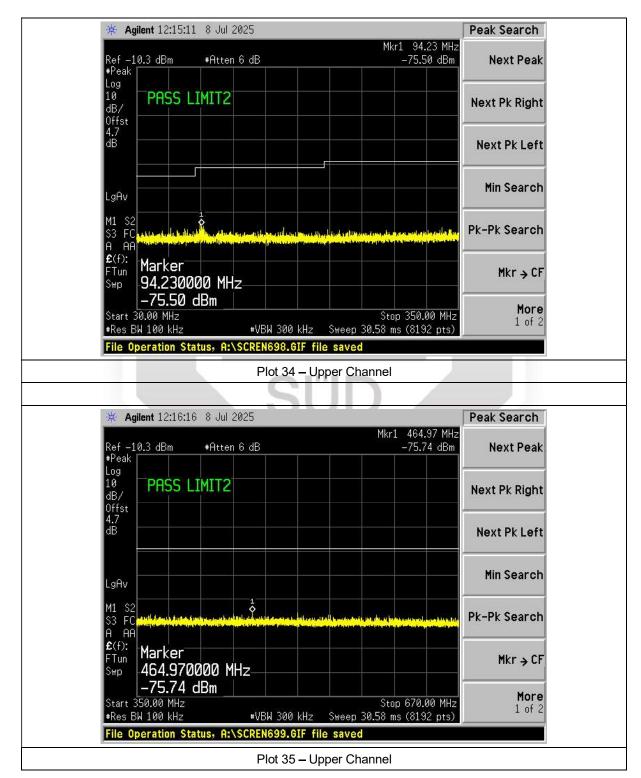




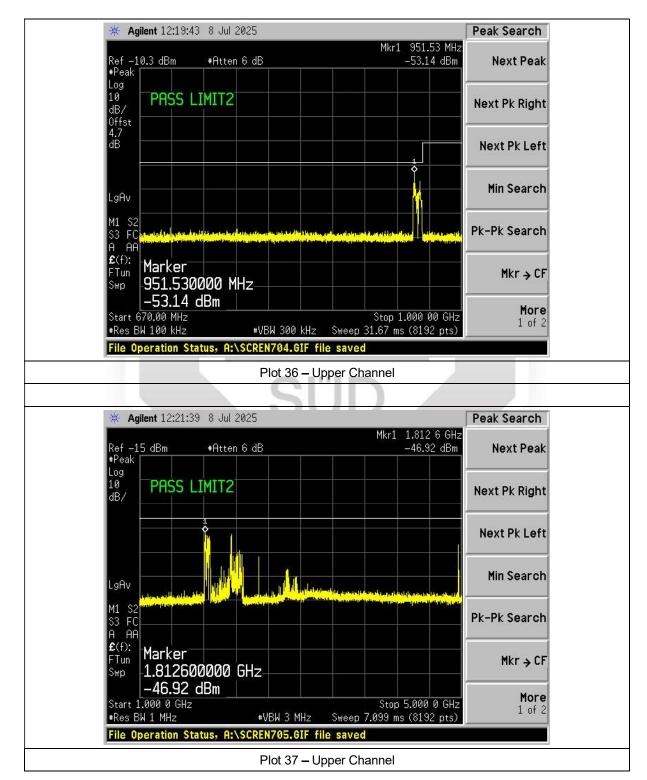




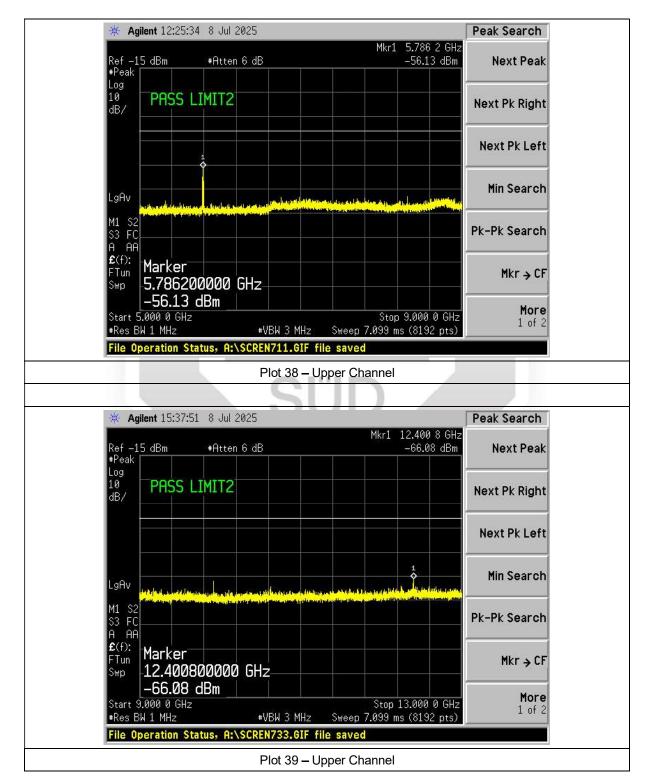




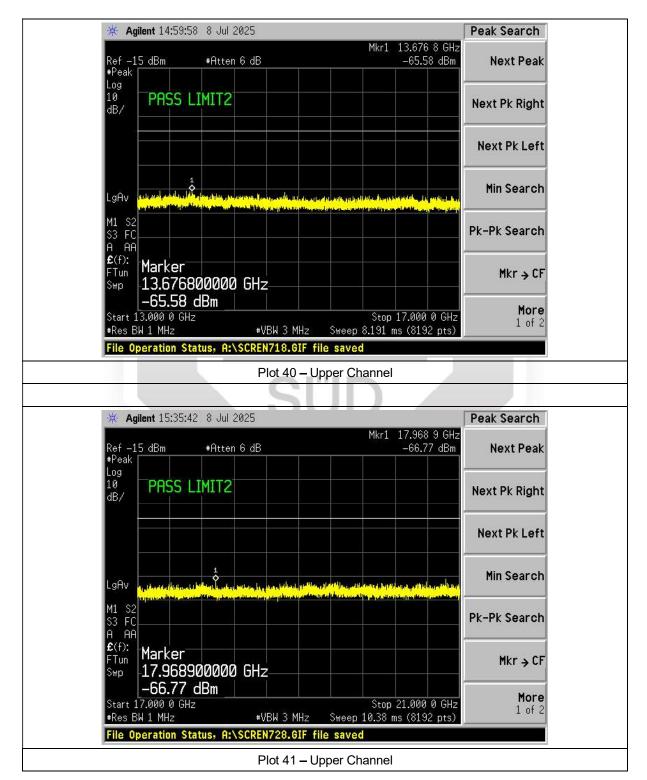




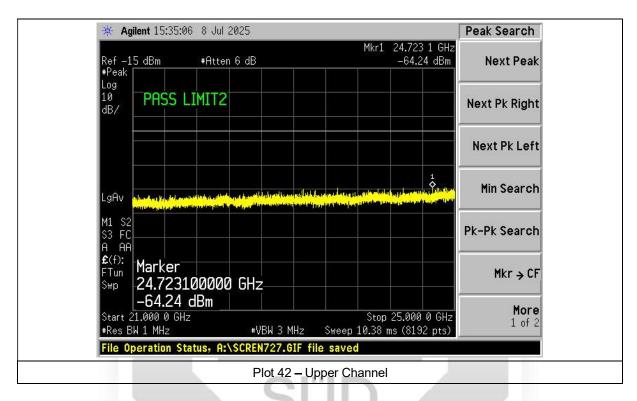














2.7 Band Edge Compliance (Conducted)

2.7.1 Test Limits

The EUT shows compliance to the requirements of this section, which states in any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator (EUT) is operating, the radio frequency power that is produced by the EUT shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

2.7.2 Test Setup

- 2.7.2.1 The EUT and supporting equipment were set up as shown in the setup photo.
- 2.7.2.2 The power supply for the EUT was connected to a filtered mains.
- 2.7.2.3 The RF antenna connector was connected to the spectrum analyser via a low-loss coaxial cable.
- 2.7.2.4 The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 300kHz.
- 2.7.2.5 All other supporting equipment were powered separately from another filtered mains.

2.7.3 Test Method

- 2.7.3.1 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode.
- 2.7.3.2 The frequency span of the spectrum analyser was set to wide enough to capture the lower band edge of the transmission band, 2.400GHz and any spurious emissions at the band edge (within 2MHz of the band edge).
- 2.7.3.3 The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
- 2.7.3.4 The measurements were repeated if the EUT supports more than one modulation and data rate.
- 2.7.3.5 The measurements were repeated with the frequency span of the spectrum analyser was set to wide enough to capture the upper band edge frequency of the transmission band, 2.4835GHz and the any spurious emissions at the band-edge.



2.7.4 Test Results

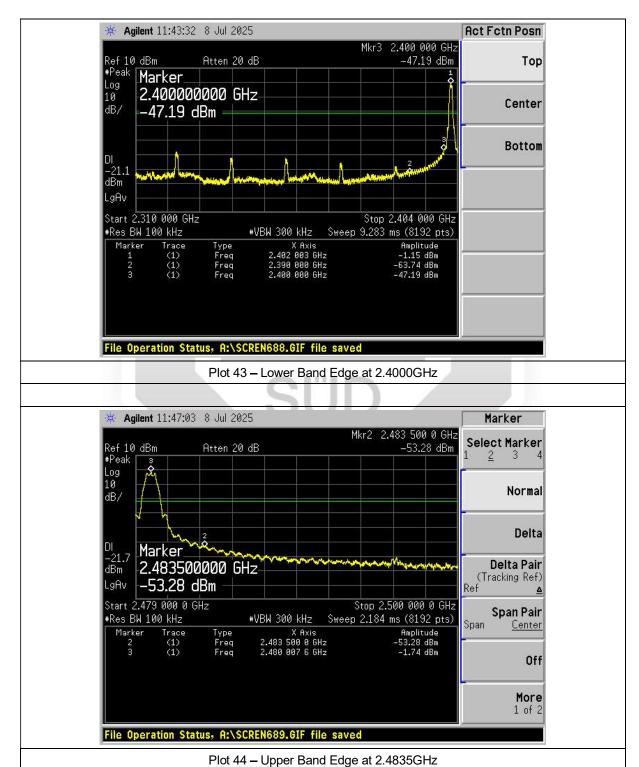
Test Input Power	5Vdc	Temperature	24°C
Attached Plots	43 – 44	Relative Humidity	60%
		Atmospheric Pressure	1030mbar
		Tested By	Mohamad Nazrulhizat
		Test Date	08 Jul 2025

No significant signal was found and they were below the specified limit.





Band Edge Compliance (Conducted) Plots





2.8 Band Edge Compliance (Radiated)

2.8.1 Test Limits

The EUT shows compliance to the requirements of this section, which states in any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator (EUT) is operating, the radio frequency power that is produced by the EUT shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands shall comply to the radiated emission limits specified in 15.209.

2.8.2 Test Setup

- 2.8.2.1 The EUT and supporting equipment were set up as shown in the setup photo.
- 2.8.2.2 The power supply for the EUT was connected to a filtered mains.
- 2.8.2.3 The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were respectively set to 100kHz and 300kHz to show compliance of spurious at band edges are at least 20dB below the carriers. For restricted band spurious at band edges, peak and average measurement plots were taken using the following setting:
 - a. Peak Plot:
 - RBW = 1MHz, VBW = 3RBW
 - b. Average Plot
 - RBW = 1MHz, VBW = 10Hz
- 2.8.2.4 All other supporting equipment were powered separately from another filtered mains.

2.8.3 Test Method

- 2.8.3.1 The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode.
- 2.8.3.2 The frequency span of the spectrum analyser was set to wide enough to capture the lower band edge of the transmission band, 2.400GHz and any spurious emissions at the band edge.
- 2.8.3.3 The spectrum analyser was set to max hold to capture any spurious emissions within the span. The signal capturing was continuous until no further spurious emissions were detected.
- 2.8.3.4 The measurements were repeated if the EUT supports more than one modulation and data rate.
- 2.8.3.5 The measurements were repeated with the frequency span of the spectrum analyser was set to wide enough to capture the upper band edge frequency of the transmission band, 2.4835GHz and the any spurious emissions at the band-edge.



2.8.4 Test Results

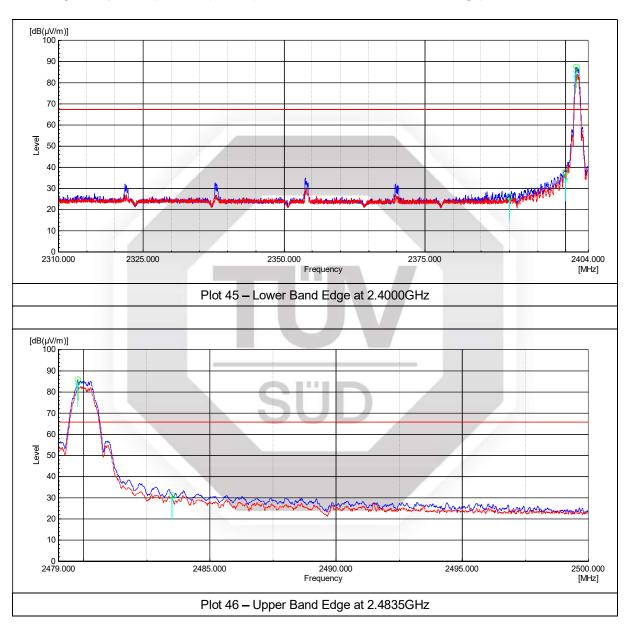
Test Input Power	5Vdc	Temperature	23°C
Attached Plots	45 – 50	Relative Humidity	54%
		Atmospheric Pressure	1017mbar
		Tested By	Lim Kay Tak
		Test Date	17 Jul 2025

No significant signal was found and they were below the specified limit.



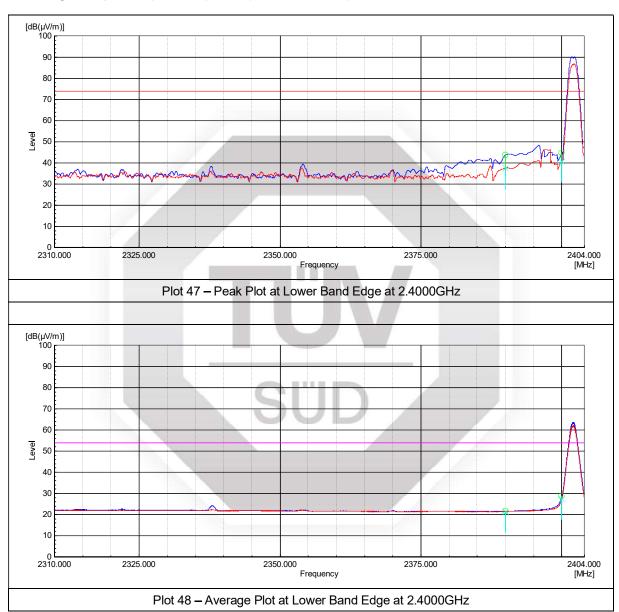


Band Edge Compliance (Radiated) Plots (20dB Delta from Carrier at Band Edge)



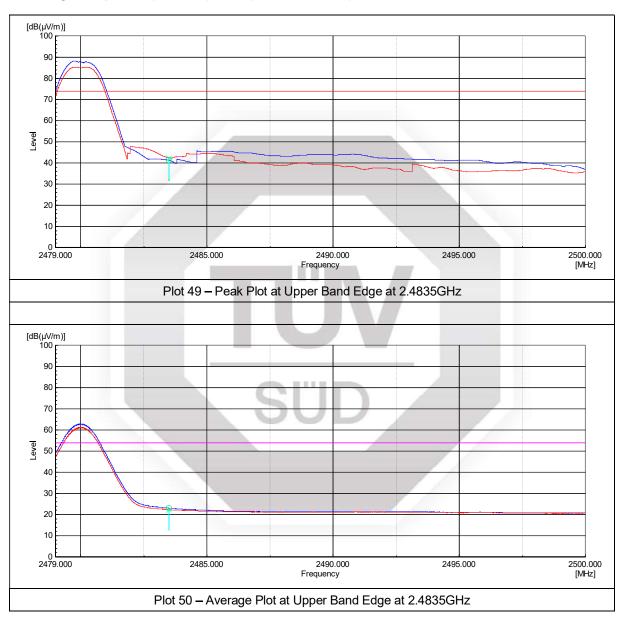


Band Edge Compliance (Radiated) Plots (Restricted Band)





Band Edge Compliance (Radiated) Plots (Restricted Band)





2.9 Peak Power Spectral Density

2.9.1 Test Limits

The EUT shows compliance to the requirements of this section, which states the peak power spectral density conducted from the intentional radiator (EUT) to the antenna shall not be greater than 8dBm (6.3mW) in any 3kHz band during any time interval of continuous transmission.

2.9.2	Test Setup
2.9.2.1	The EUT and supporting equipment were set up as shown in the setup photo.
2.9.2.2	The power supply for the EUT was connected to a filtered mains.
2.9.2.3	The RF antenna connector was connected to the spectrum via a low-loss coaxial cable.
2.9.2.4	The resolution bandwidth (RBW) and the video bandwidth (VBW) of the spectrum analyser were set to the following: RBW = 3kHz VBW = 3RBW Span = 1.5 times the channel bandwidth (6dB Bandwidth) Sweep time = auto couple
2.9.2.5	All other supporting equipment were powered separately from another filtered mains.
2.9.3	Test Method
2.9.3.1	The EUT was switched on and allowed to warm up to its normal operating condition. The EUT was then configured to operate in the test mode at lower channel.
2.9.3.2	The peak of the transmitting frequency was detected with the marker peak function of the spectrum analyser.
2.9.3.3	The peak power density of the transmitting frequency was plotted and recorded.
2.9.3.4	The measurements were repeated if the EUT supports more than one modulation and data rate.
2.9.3.5	The measurement was repeated with the transmitting frequency was set to middle channel and upper channels respectively.

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2.9.5 Test Results

Test Input Power	5Vdc	Temperature	24°C
Attached Plots	51 – 53	Relative Humidity	60%
		Atmospheric Pressure	1030mbar
		Tested By	Mohamad Nazrulhizat
		Test Date	08 Jul 2025

Channel	Channel Frequency (GHz)	Peak Power Spectral Density (mW) *See Note 1	Limit (mW)
Lower	2.412	0.022	6.3
Middle	2.440	0.022	6.3
Upper	2.480	0.019	6.3

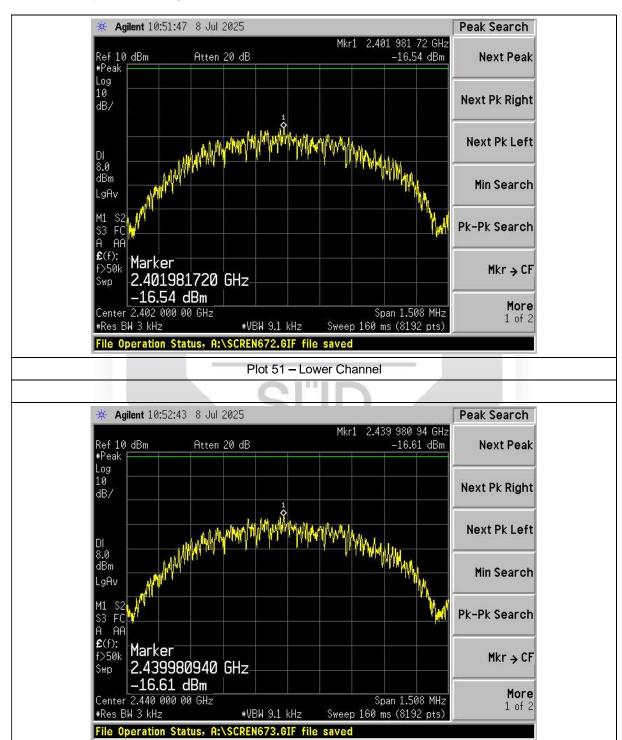
<u>Notes</u>

1. Only the highest measured peak power spectral density was reported. Refer to plots for all measured peak power spectral density.





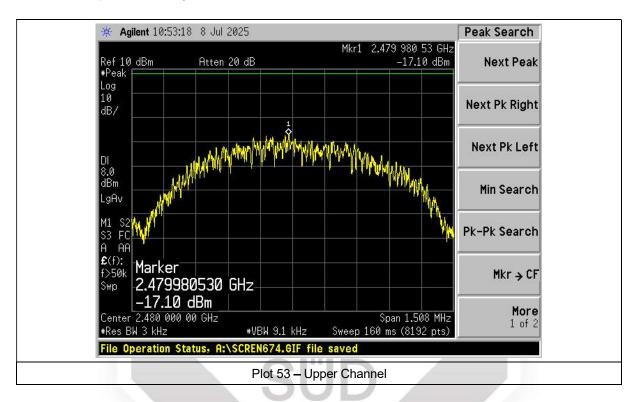
Peak Power Spectral Density Plots



Plot 52 - Middle Channel



Peak Power Spectral Density Plots





2.10 Maximum Permissible Exposure (MPE)

2.10.1 Test Limits

The EUT shows compliance to the requirements of this section, which states the MPE limits for general population / uncontrolled exposure are as shown below:

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (min)
0.3 - 1.34	614	1.63	100 Note 2	30
1.34 - 30	824 / f	2.19 / f	180 / f ^{2 Note 2}	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	y / • • • •	-	f / 1500	30
1500 - 100000	-	-	1.0	30
Notes				
1. f = frequency in MHz				
Plane wave equivalent power density				

Maximum Permissible Exposure Computation

Referring to the measured maximum peak power of the Equipment Under Test (EUT) below:

Channel	Channel Frequency (GHz)	Maximum Peak Power (mW)
Lower	2.402	0.75
Middle	2.440	0.71
Upper	2.480	0.66

The measured maximum RF power of the EUT is 0.75mW.

Applying Option A in § 1.1307(b)(3)(i)(A)

Since the available maximum time-averaged power of the EUT is no more than 1mW, the EUT is MPE exempted, and no routine evaluation is required.



4 Test Equipment

Instrument	Model	S/No	Cal Due Date	
Conducted Emissions				
Toyo EP5/CE Measurement Software	Ver 5.6.30	Not Applicable	Not Applicable	
R&S EMI Test Receiver (5kHz - 3GHz)	EPL1000	100949	29 Jan 2026	
Schwarzbeck V-LISN	NNLK 8121	NNLK 8121-518	05 Feb 2026	
			•	
Radiated Emissions (Spurious Emissions Inclusions	sive Restricted Ban	ds Requirement)		
Toyo EP5/RE Measurement Software	Ver 6.0.112	Not Applicable	Not Applicable	
R&S EMI Test Receiver (9kHz – 26.5GHz)	ESR26	101714	10 Sep 2025	
Sonoma Preamplifier (1MHz – 1GHz)	310	263515	06 Oct 2025	
TDK Bilog Antenna (30MHz – 1GHz)	HLP-3003C	130745	29 Nov 2025	
Microwave Pre-Amplifier (1GHz – 6GHz)	TPA0108-40	1116	05 Dec 2025	
Schwarzbeck Horn Antenna (1GHz – 18GHz)	BBHA 9120 D	02574	12 Apr 2026	
Micro-tronics Bandstop Filter (2.4GHz)	BRM50701-02	007	13 Aug 2025	
Spectrum Bandwidth (6dB Bandwidth Measure	ment)			
Agilent Spectrum Analyzer	E4440A	MY45304764	08 Nov 2025	
Meguro DC Power Supply	MP3010	D603038S	Output Monitor	
Maximum Peak Power				
Agilent Spectrum Analyzer	E4440A	MY45304764	08 Nov 2025	
Meguro DC Power Supply	MP3010	D603038S	Output Monitor	
			•	
RF Conducted Spurious Emissions (Non-Restric	cted Bands)			
Agilent Spectrum Analyzer	E4440A	MY45304764	08 Nov 2025	
Meguro DC Power Supply	MP3010	D603038S	Output Monitor	
RF Conducted Spurious Emissions (Restricted E	Bands)			
Agilent Spectrum Analyzer	E4440A	MY45304764	08 Nov 2025	
Meguro DC Power Supply	MP3010	D603038S	Output Monitor	
Micro-tronics Bandstop Filter (2.4GHz)	BRM50701-02	007	13 Aug 2025	

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Instrument	Model	S/No	Cal Due Date
Band Edge Compliance (Conducted)			
Agilent Spectrum Analyzer	E4440A	MY45304764	08 Nov 2025
Meguro DC Power Supply	MP3010	D603038S	Output Monitor
Band Edge Compliance (Radiated)			
Toyo EP5/RE Measurement Software	Ver 6.0.112	Not Applicable	Not Applicable
R&S EMI Test Receiver (9kHz – 26.5GHz)	ESR26	101714	10 Sep 2025
Microwave Pre-Amplifier (1GHz - 6GHz)	TPA0108-40	1116	05 Dec 2025
Schwarzbeck Horn Antenna (1GHz – 18GHz)	BBHA 9120 D	02574	12 Apr 2026
Peak Power Spectral Density			
Agilent Spectrum Analyzer	E4440A	MY45304764	08 Nov 2025
Meguro DC Power Supply	MP3010	D603038S	Output Monitor



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5 Measurement Uncertainty

All measured results are traceable to the SI units. The uncertainty of the measurement is at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted Emissions at Mains Terminals	1.1dB (9kHz to 30MHz)
Radiated Emissions	10m Anechoic Chamber (Lab 4)
	2.3dB (9kHz to 30MHz @ 10m)
	3.5dB (30MHz to 1GHz @ 10m)
	4.0dB (30MHz to 1GHz @ 3m)
	4.3dB (>1GHz to 40GHz @ 3m)
	3m RF Chamber (Lab7)
	4.0dB (30MHz to 1GHz @ 3m)
	4.3dB (>1GHz to 40GHz @ 3m)
Maximum Permissible Exposure	2.53% (0.01kHz to 400kHz) – H-field
	1.3dB (0.3MHz to 18GHz) - E-field
	2.3dB (1MHz to 40GHz) - E-field



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