RF MEASUREMENT REPORT

FCC ID:	DD4ADTQX55
Applicant:	Shure Incorporated
Product:	Wireless Quad Transmitter
Model No.:	ADTQ X55, ADTQ DC X55
Trade Mark:	SHURE, SHURE
FCC Classification:	Licensed LPAS Device (TLD)
FCC Rule Part(s):	Part 74 Subpart H (Section 74.861)
Application Type:	Class II Permissive Change
Result:	Complies
Received Date:	2025-05-16
Test Date:	2025-05-24 ~ 2025-06-23

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1018044-U205	V01	Initial Report	2025-06-23	Valid

Note: This product has obtained FCC approval (FCC ID: DD4ADTQX55), original RF report no. is 2406RSU021-U8. The product has been modified via software to include additional test modes.

CONTENTS

1. General Information

1.1. Applicant

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.2. Manufacturer

Shure Incorporated

5800 West Touhy Avenue, Niles, IL 60714-4608, USA

1.3. Testing Facility

☒	**Test Site – MRT Suzhou Laboratory**				
	Laboratory Location (Suzhou – Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China **Laboratory Location (Suzhou – SIP)** 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China **Laboratory Location (Suzhou – Wujiang)** Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China				
	Laboratory Accreditations				
	A2LA: 3628.01		CNAS: L10551		
	FCC: CN1166		ISED: CN0001		
	VCCI:	☐R-20025	☐G-20034	☐C-20020	☐T-20020
		☐R-20141	☐G-20134	☐C-20103	☐T-20104
☐	**Test Site – MRT Shenzhen Laboratory**				
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China				
	Laboratory Accreditations				
	A2LA: 3628.02		CNAS: L10551		
	FCC: CN1284		ISED: CN0105		
☐	**Test Site – MRT Taiwan Laboratory**				
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)				
	Laboratory Accreditations				
	TAF: 3261				
	FCC: 291082, TW3261		ISED: TW3261		

1.4. Product Information

Product Name	Wireless Quad Transmitter
Model No.	ADTQ X55, ADTQ DC X55
Serial No.	2DA31999948
Radio Specification	UHF Microphone Transmitter
Antenna Information	Refer to section 1.7
Operating Temperature	-18 ~ 50 °C
Network Interface	10/100/1000 Mbps, Dante Digital Audio
Power Type	AC Power Input (100~240V AC) & DC Power Input (12~48V) AC Power Output (100~240V AC)
Accessory	
8 Port Antenna Combiner	Model: AD8CX, AD8CX DC AC Ver.: 100-240V~, 50/60Hz, 0.76A max (5.76A max outlet loaded), DC Ver.: 12-48V DC, 4A max
Note 1: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer. Note 2: ADTQ X55 and ADTQ DC X55 are completely same except power supply difference, ADTQ X55 supports AC power supply, while ADTQ DC X55 supports both AC and DC power supply. Note 3: AD8CX and AD8CX DC are completely same except power supply difference, AD8C supports AC power supply, while AD8CX DC supports both AC and DC power supply.	

1.5. Radio Specification under Test

Transmission Mode	4-channel Wideband (WMAS)
Frequency Range	941.625 ~ 951.875 MHz & 952.975 ~ 956.125 MHz & 956.575 ~ 959.725 MHz
Declared Power Level	Low & Mid & High
Type of Modulation	4-channel Wideband: OFDM
Declared Occupied Bandwidth	4-channel Wideband (WMAS): 850 kHz
Channel Spacing	25 kHz
RF Connector Type	BNC

1.6. Working Frequencies

Bottom Channel (MHz)	Middle Channel (MHz)	Top Channel (MHz)
4-channel wideband		
941 ~ 952 MHz Frequency Band		
941.900	946.750	951.600
952.85 ~ 956.25 MHz Frequency Band		
953.250	N/A	955.850
956.45 ~ 959.85 MHz Frequency Band		
956.850	N/A	959.450

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Manufacturer	Peak Gain (dBi)
Dipole	941 ~ 960	Shure	2.20

2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at X55 Band by 4-Channel wideband, spatial diversity, 2 frequencies (Power Level = 40mW)
Mode 2: Transmit at X55 Band by 4-Channel wideband, spatial diversity, 2 frequencies, combined
Mode 3: Transmit at X55 Band by 4-Channel wideband, 2 frequencies
Mode 4: Transmit at X55 Band by 4-Channel wideband, 2 frequencies, combined
Note: These newly added test modes 2 & 3 & 4 are the same type as modes 15 & 10 & 16 in the original report, respectively. Therefore, no additional testing was conducted.

2.2. Test Software

Power level and transmit frequency can be selected using the front panel controls.

2.3. Applied Standards

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

- FCC Part 74.861
- KDB 206256 D01v03
- ANSI C63.26-2015
- ETSI EN 300 422 - 1 V 2.2.1

2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2026-04-26	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2026-05-17	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2026-04-26	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11075	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11076	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11077	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11078	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Cable	UCwave	UCE500	24060015	Note	Note	WZ-SR5
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2026-04-26	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2026-03-18	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2025-09-23	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2025-11-08	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2026-05-11	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2026-04-17	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1

Note: The loss of the RF cable will be measured before testing.

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	1.02	RE Antenna & Turntable
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

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

Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.35dB Coplanar: 9kHz~30MHz: 2.37dB Horizontal: 30MHz~200MHz: 3.47dB 200MHz~1GHz: 4.17dB 1GHz~40GHz: 4.97dB Vertical: 30MHz~200MHz: 4.07dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.84dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.3dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 3.2%

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
74.861(d)(1)	RF Output Power	Conducted	Pass
74.861(d)(4)	99% Occupied Bandwidth		Pass
74.861(d)(4) (i&ii&iii)	Emission Mask		Pass
74.861(d)(4) (iv)	Radiated Spurious Emission	Radiated	Pass

Note: The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

5.2. RF Output Power Measurement

5.2.1. Test Limit

The conducted power may not exceed 1 W in 941.5-959.85 MHz band.

5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.4.2

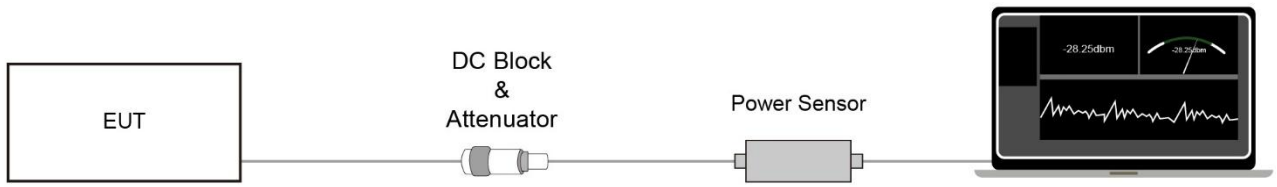
5.2.3. Test Setting

The output of the EUT was connected to an RF average power meter through fixed attenuation.

The EUT was set to transmit on the low, middle, and high frequencies in each power level.

Measure the average power of the transmitter.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. 99% Occupied Bandwidth Measurement

5.3.1. Test Limit

The operating bandwidth shall not exceed 200 kilohertz.

A wireless multichannel audio system must have an operating bandwidth B not exceeding 20 megahertz and must have a mode of operation in which it is capable of transmitting at least three audio channels per megahertz.

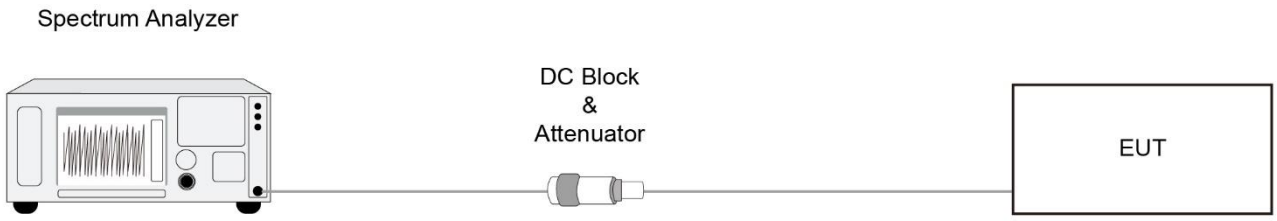
5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.4.4

5.3.3. Test Setting

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 - 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. Reported the measured 99% occupied bandwidth

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Emission Mask Measurement

5.4.1. Test Limit

(i) Analog systems. Emissions within the band from 2.5 × B below to 2.5 × B above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask in Figure 1 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

(ii) Digital systems. Emissions within the band from 2.5 × B below to 2.5 × B above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask in Figure 2 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

(iii) Wireless Multichannel Audio Systems. Emissions within the band from 2.5 × B below to 2.5 × B above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask in Figure 3 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11), (incorporated by reference, see § 74.35).

The mean Power Density, measured with 1 kHz measurement bandwidth and RMS detector, of the transmitter unwanted emissions shall not exceed the limits of the masks provided in figure 1 for equipment employing analogue modulation and figure 2 for equipment employing digital modulation, but excluding WMAS. B is the Declared Channel Bandwidth.

Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz

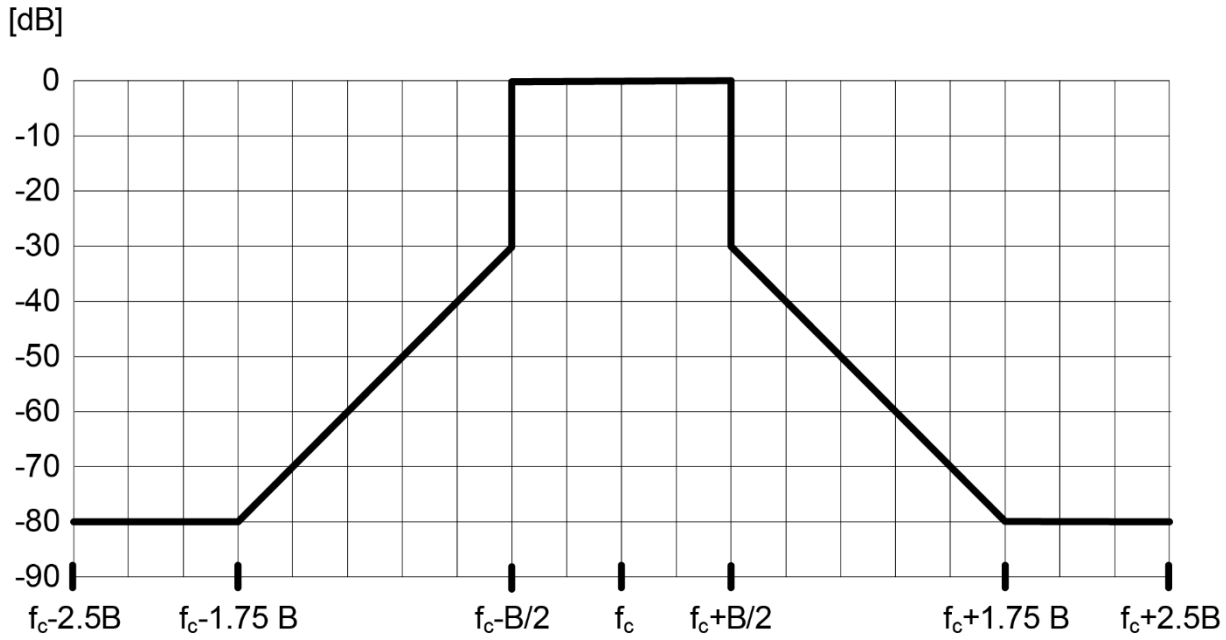


Figure 2: Transmit spectral power mask for equipment employing digital modulation, except WMAS, RBW = 1 kHz

The limits in figure 3 are applicable for WMAS, where B is the Declared Channel Bandwidth.

The mean Power Density, measured with 100 kHz measurement bandwidth and PEAK detector, of the transmitter unwanted emissions shall not exceed the limits of the mask provided in figure 3.

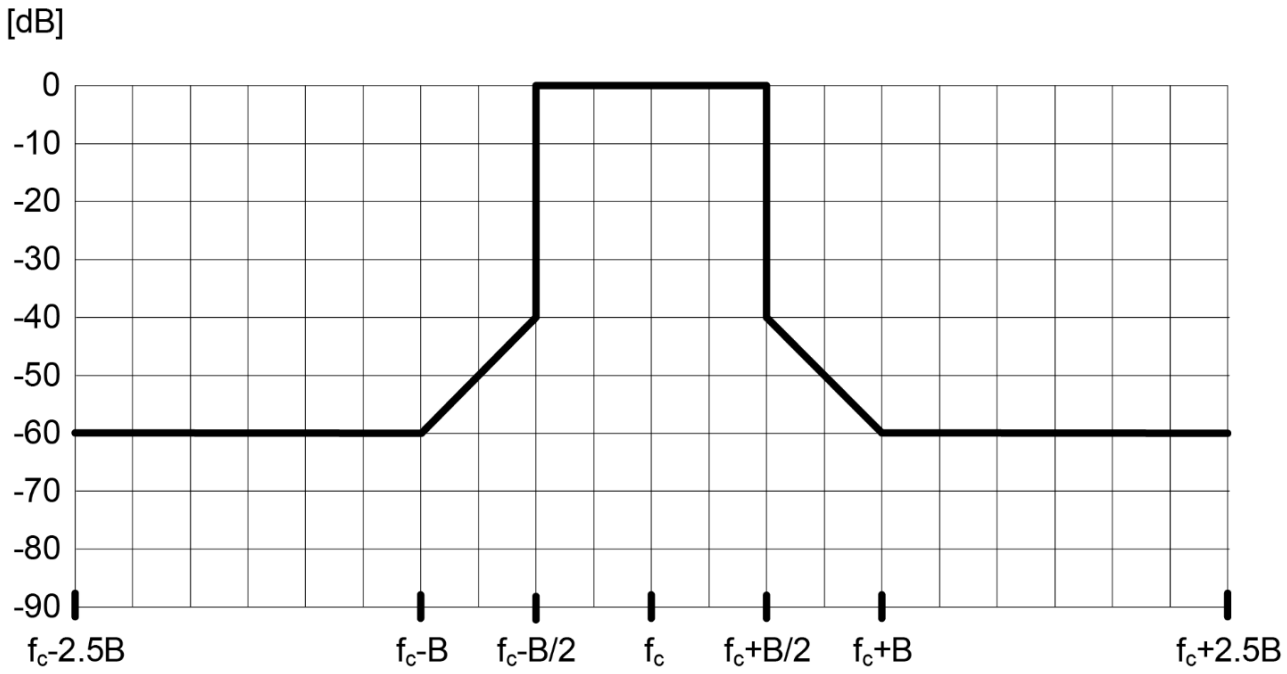


Figure 3: Transmit spectral power mask for WMAS, RBW = 100 kHz

The limits in figure 3 are provided with RBW = 100 kHz. The relevant measurements can also be performed with other RBW for certain ranges of B, accounting that the relevant limit given under RBW = 100 kHz needs to be converted appropriately by adding c = 10 × log10 (RBW/100 kHz) for correction.

Correction Factor for different B and applicable RBW

B	RBW, VBW	c = correction factor
B < 2 MHz	10 kHz	-10dB
2 MHz ≤ B < 5 MHz	25 kHz	-7dB
5 Hz ≤ B ≤ 20MHz	100 kHz	0dB

5.4.2. Test Procedure

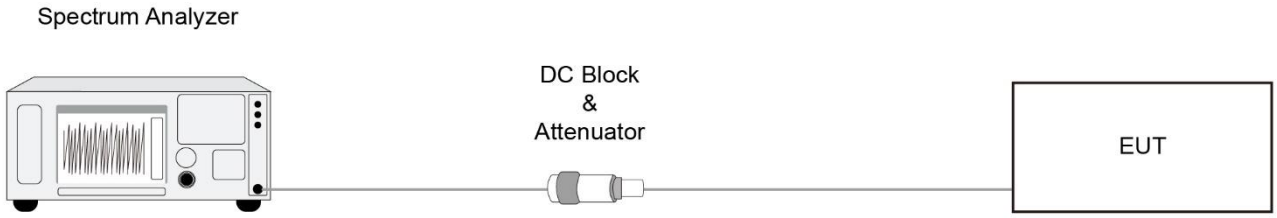
EN 300 422-1 V2.2.1 clause 5.4.3.2.

5.4.3. Test Setting

The EUT was powered up and the transmit frequency & power output of the EUT were selected.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Radiated Spurious Emissions Measurement

5.5.1. Test Limit

Spurious emission limits. Emissions outside of the emission masks specified in paragraphs (d)(4)(i) through (iii) of this section shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

The level of transmitter unwanted emissions in the spurious domain shall not exceed the limits given in table

Transmitter unwanted emission limits

Frequency Range	Maximum power	RBW
9kHz – 150kHz	-36dBm	1kHz
150kHz – 30MHz	-36dBm	10kHz
30MHz – 1GHz	-36dBm	F_c + 2.5B ≤ f ≤ F_c + 4B: 1kHz F_c + 4B < f ≤ F_c + 10B: 10kHz f > F_c + 10B: 100kHz f < F_c - 10B: 100kHz F_c - 10B ≤ f < F_c - 4B: 10kHz F_c - 4B ≤ f ≤ F_c – 2.5B: 1kHz
Except:		
47MHz to 74MHz 87.5MHz to 118MHz	-54dBm	100kHz
174MHz to 230MHz 470MHz to 862MHz	-36dBm	F_c + 2.5B ≤ f ≤ F_c + 4B: 1kHz F_c + 4B < f ≤ F_c + 10B: 10kHz f > F_c + 10B: 100kHz f < F_c - 10B: 100kHz F_c - 10B ≤ f < F_c - 4B: 10kHz F_c - 4B ≤ f ≤ F_c – 2.5B: 1kHz
1GHz < f≤ F_{upper}	-30dBm	F_c + 2.5B ≤ f ≤ F_c + 10B: 30kHz F_c + 10B < f ≤ F_c + 12B: 300kHz f > F_c + 12B: 1MHz f < F_c - 12B: 1MHz F_c - 12B ≤ f < F_c - 10B: 300kHz F_c - 10B ≤ f ≤ F_c – 2.5B: 30kHz
With B being the Declared Channel Bandwidth. F_{upper} is defined in table 5.		

Table 5: Frequency range for measurement of unwanted emissions

Applicable fundamental frequency range	Frequency range for measurements	
	Lower frequency	Upper frequency
9 kHz - 100 MHz	9 kHz	1GHz
100 MHz - 300 MHz	9 kHz	10th harmonic of the operating frequency
300 MHz - 600 MHz	30MHz	3GHz
600 MHz - 3 GHz	30MHz	5th harmonic of the operating frequency

5.5.2. Test Procedure

ETSI EN 300 422-1 V2.2.1 clause 5.4.4

5.5.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
30 ~ 1000 MHz	100 kHz
1000 ~ 10000 MHz	1 MHz

Emissions shall be investigated up to the 10th harmonic of the fundamental.

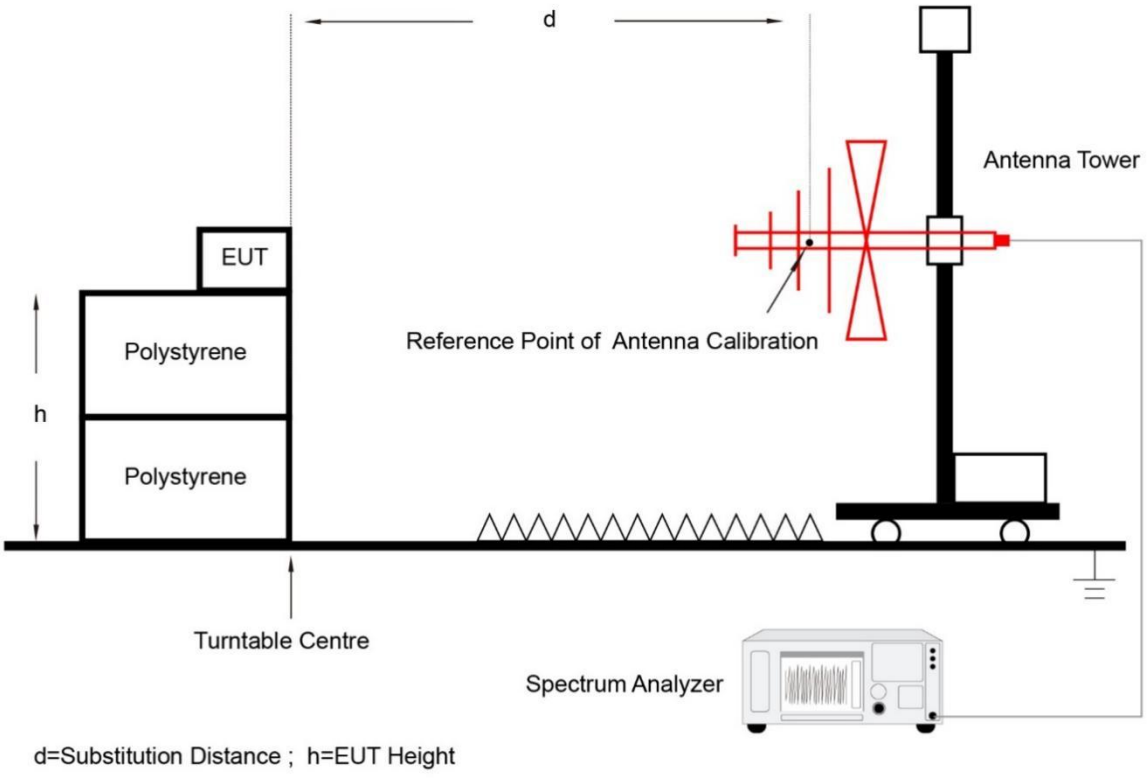
Compliance with the emission limits shall be demonstrated using an RMS Average detector.

All significant broadband and narrowband signals found in the preliminary sweeps were measured using a peak detector at a test distance of 3 meters.

At each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

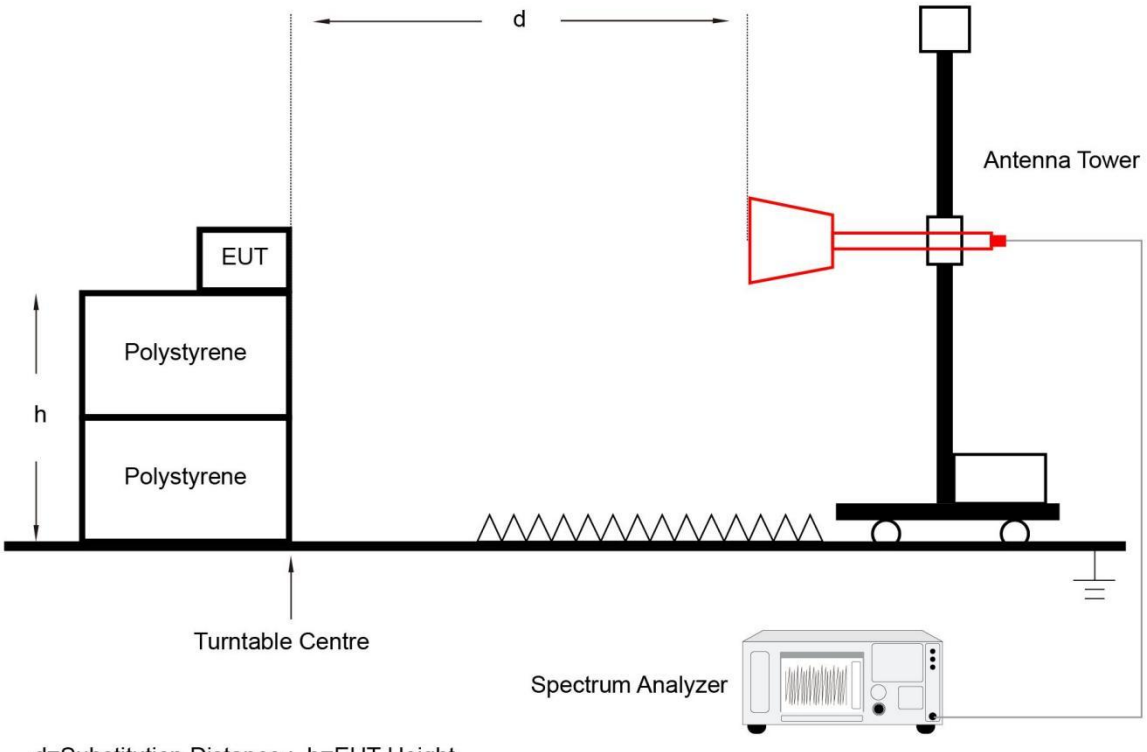
5.5.4. Test Setup

Below 1GHz Test Setup:



d=Substitution Distance ; h=EUT Height

Above 1GHz Test Setup:



d=Substitution Distance ; h=EUT Height

5.5.5. Test Result

Refer to Appendix A.4.

Appendix A – Test Result

A.1 RF Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-09 ~ 2025-06-16	Test Mode	Mode 1

Frequency (MHz)	Conducted Output Power (dBm)				Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D			
40mW Power Level							
941.900	15.05	15.79	14.50	15.01	21.13	≤ 30.00	Pass
946.750	14.85	15.63	15.27	14.94	21.20	≤ 30.00	Pass
951.600	14.62	15.53	15.10	14.87	21.06	≤ 30.00	Pass
953.250	14.52	15.48	15.03	14.81	20.99	≤ 30.00	Pass
955.850	14.41	15.39	14.92	14.80	20.91	≤ 30.00	Pass
956.850	14.44	15.37	14.88	14.79	20.90	≤ 30.00	Pass
959.450	14.33	15.24	14.79	14.68	20.79	≤ 30.00	Pass

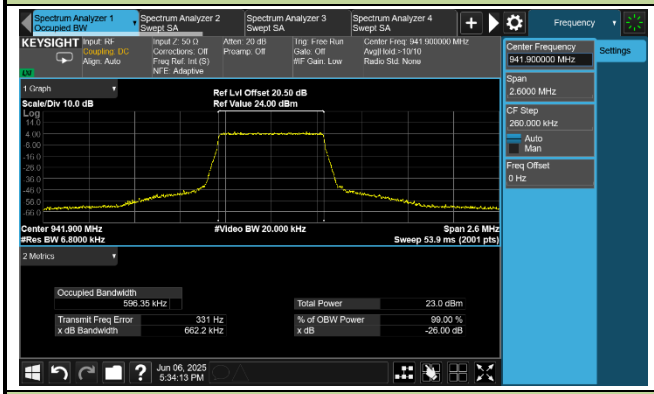
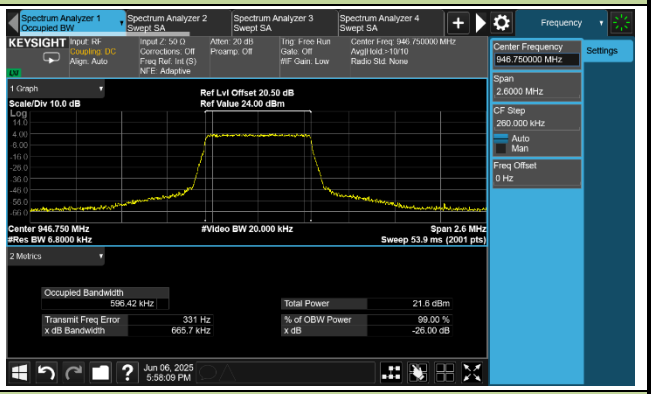
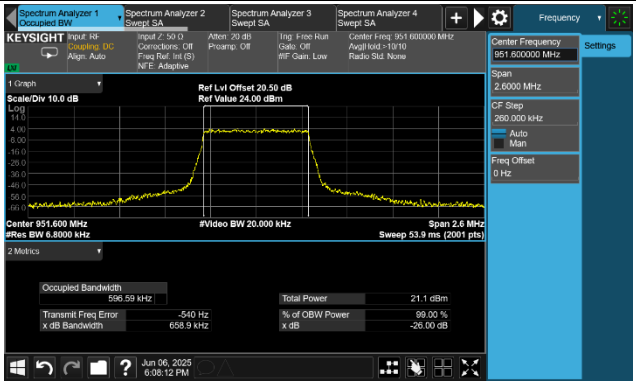
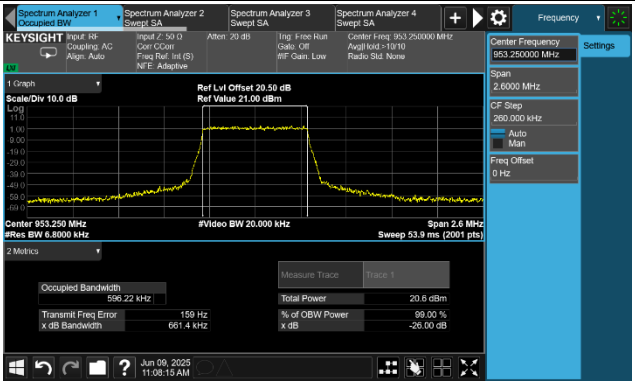
Note 1: Limit = 10*Log (1000mW) = 30 dBm.

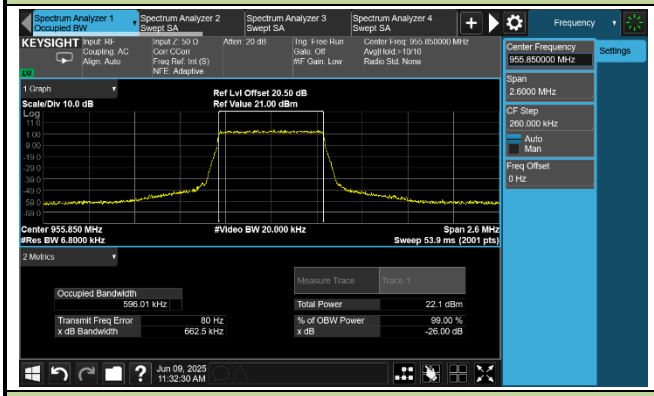
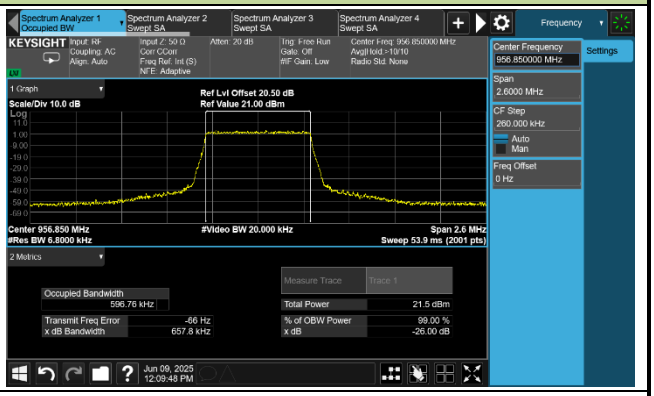
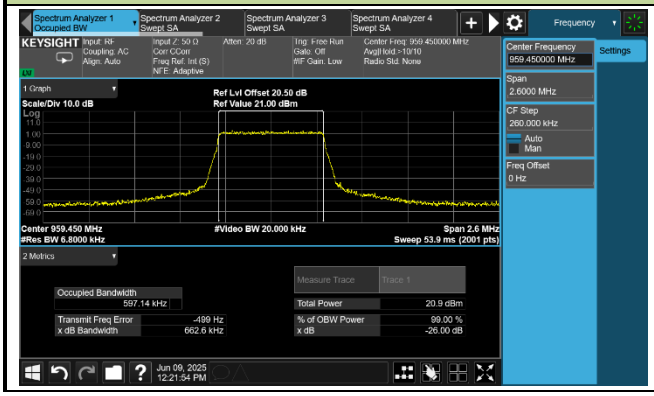
Note 2: Total Conducted Output Power (dBm) = 10*log(10^(Port A /10) + 10^(Port B/10) + 10^(Port C/10) +10^(Port D/10)) (dBm).

A.2 99% Occupied Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-06 ~ 2025-06-09	Test Mode	Mode 1

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.900	596.35	< 6000	Pass
946.750	596.42	< 6000	Pass
951.600	596.59	< 6000	Pass
953.250	596.22	< 6000	Pass
955.850	596.01	< 6000	Pass
956.850	596.76	< 6000	Pass
959.450	597.14	< 6000	Pass

99% Occupied Bandwidth	
941.900MHz	946.750MHz
	
951.600MHz	953.250MHz
	

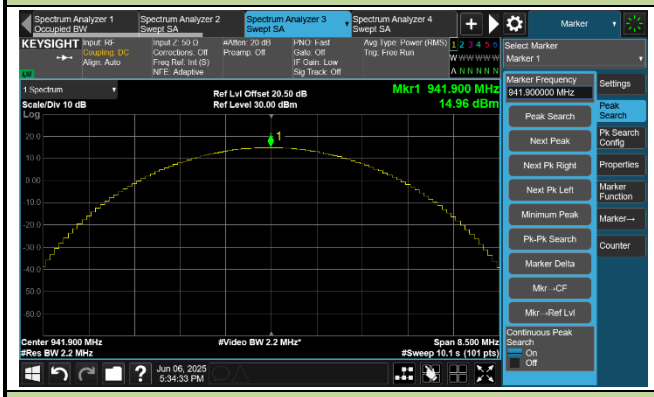
99% Occupied Bandwidth	
955.850MHz	956.850MHz
	
959.450MHz	
	

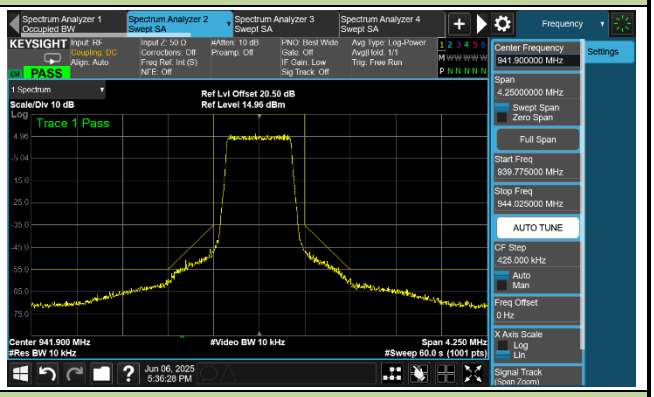
A.3 Emission Mask Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-06 ~ 2025-06-23	Test Mode	Mode 1

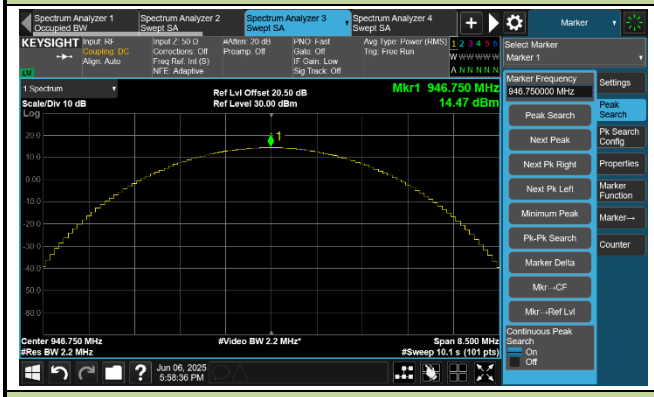
Port A

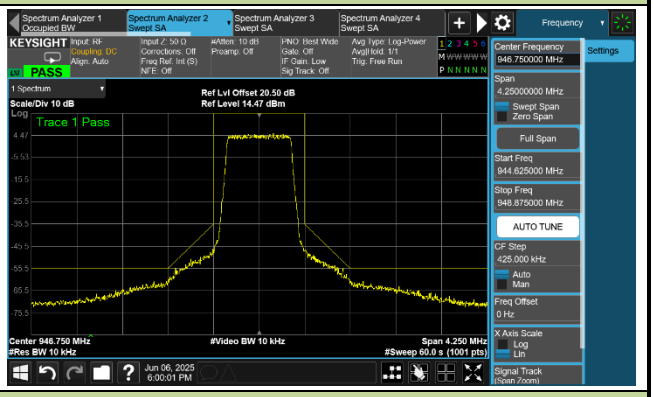
Channel 941.900MHz



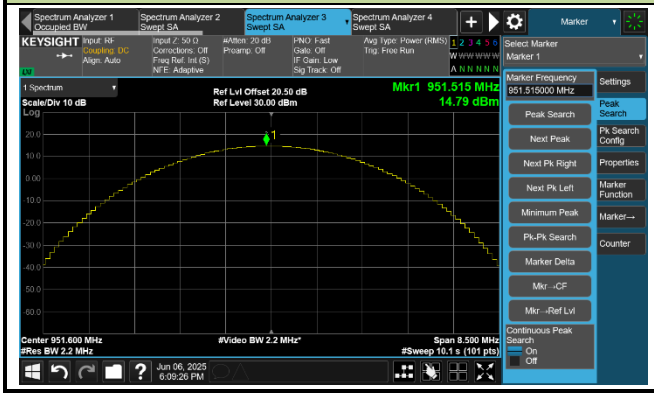


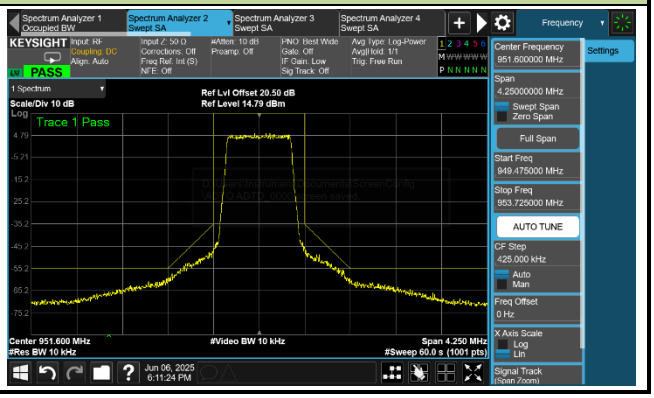
Channel 946.750 MHz





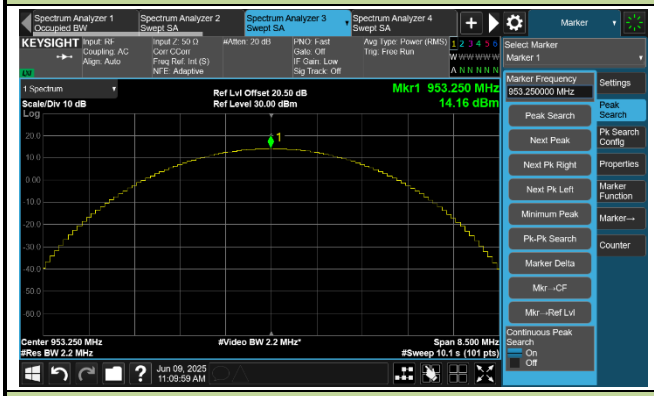
Channel 951.600 MHz

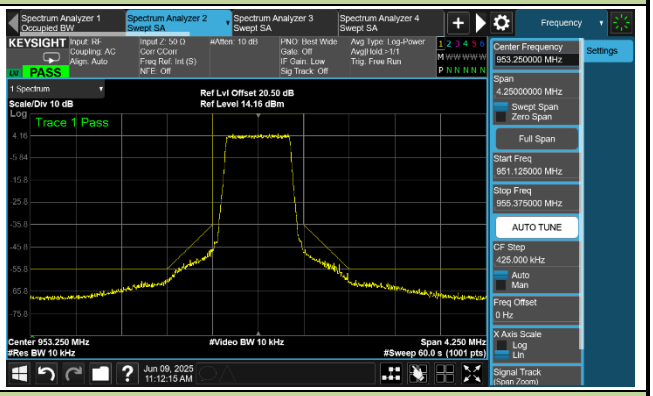




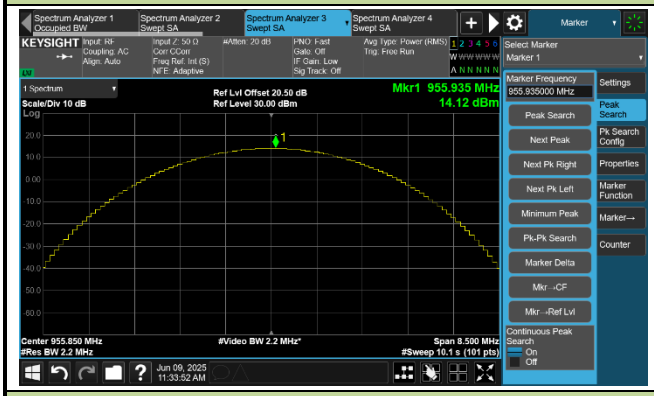
Port A

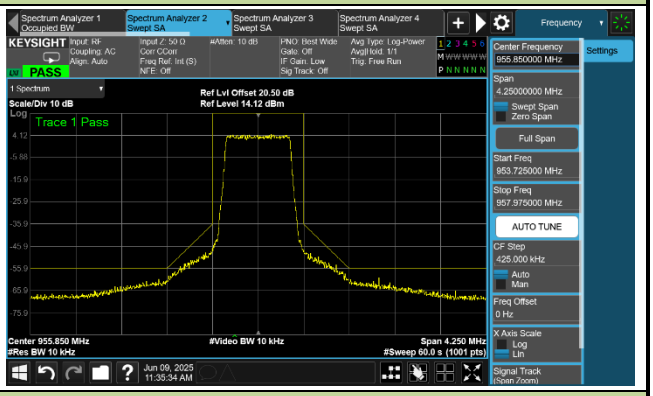
Channel 953.250MHz



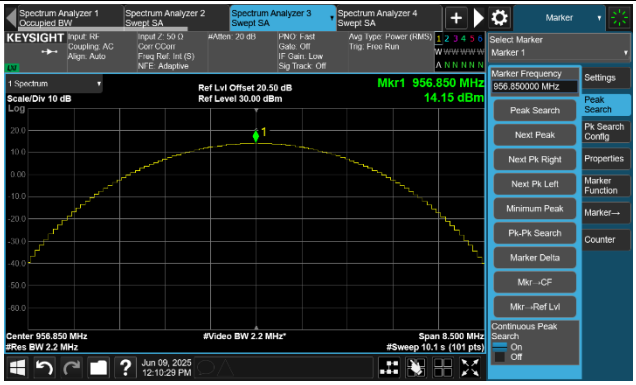


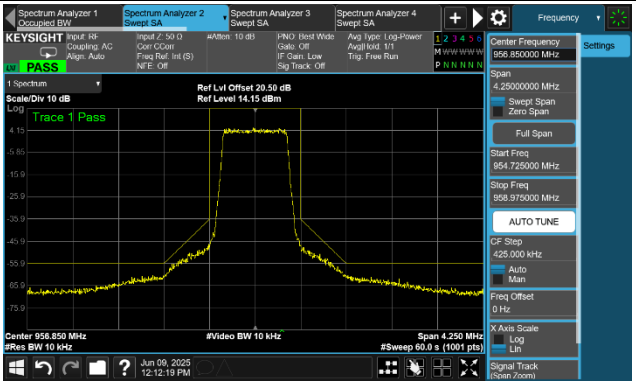
Channel 955.850MHz



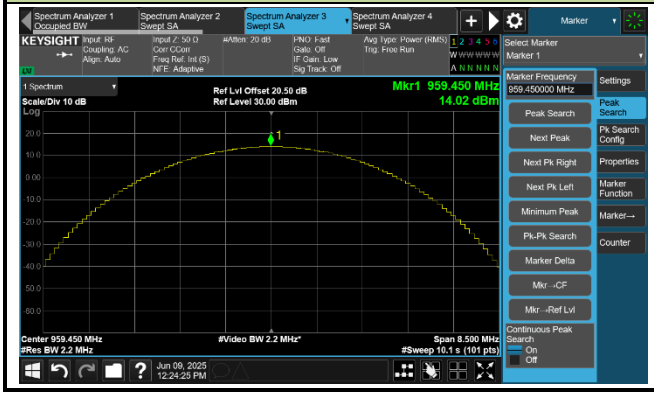


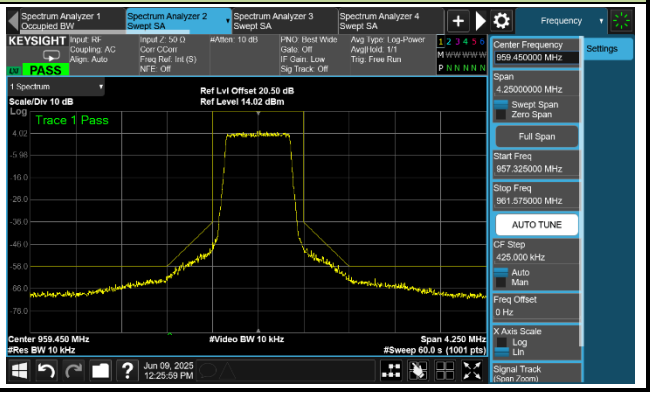
Channel 956.850MHz

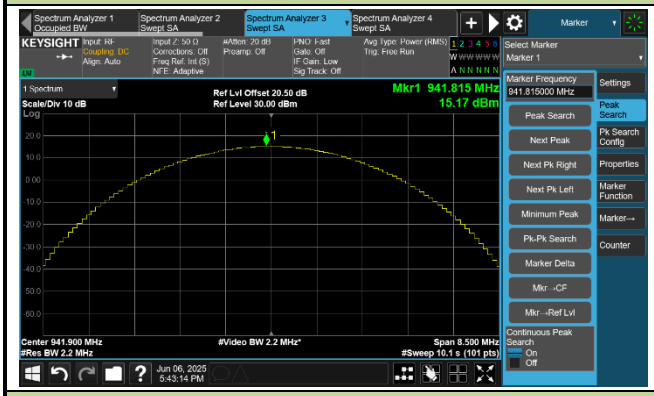
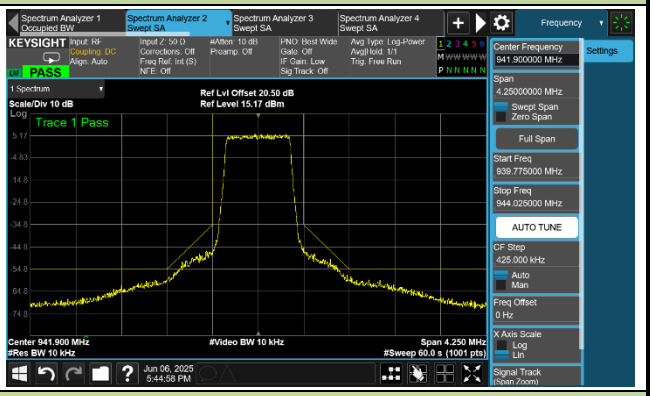
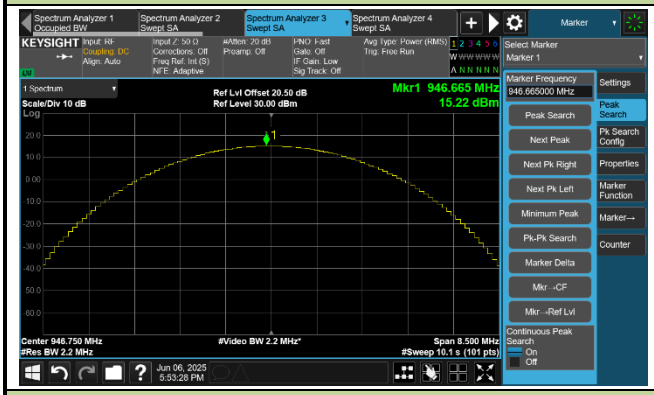
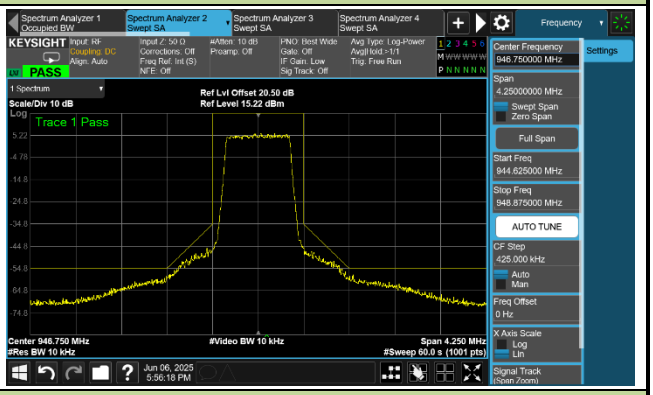
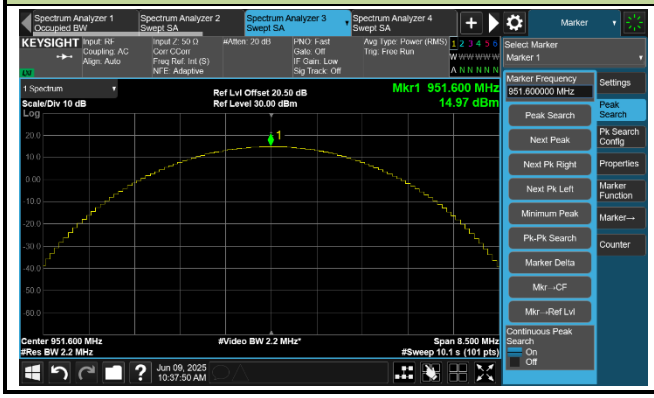
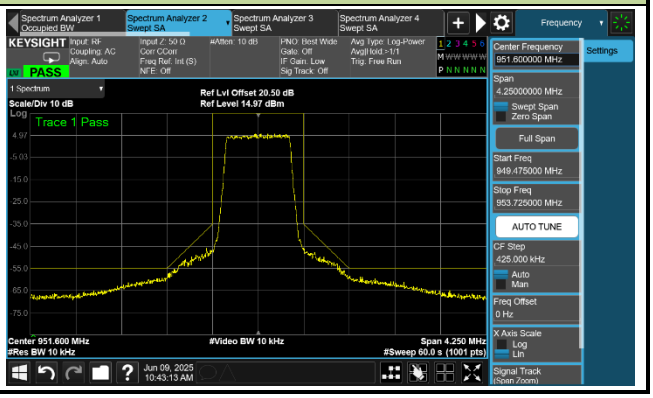




Channel 959.450MHz

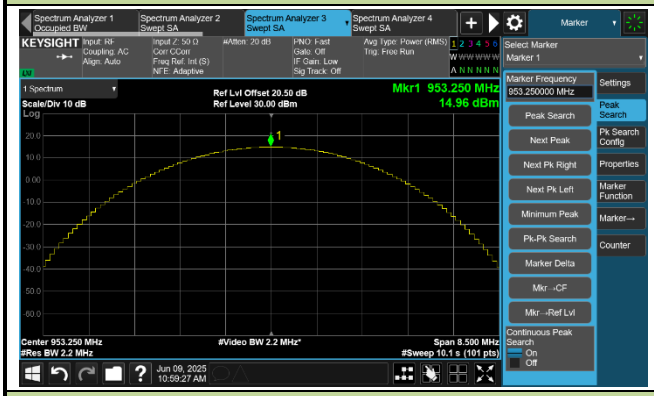


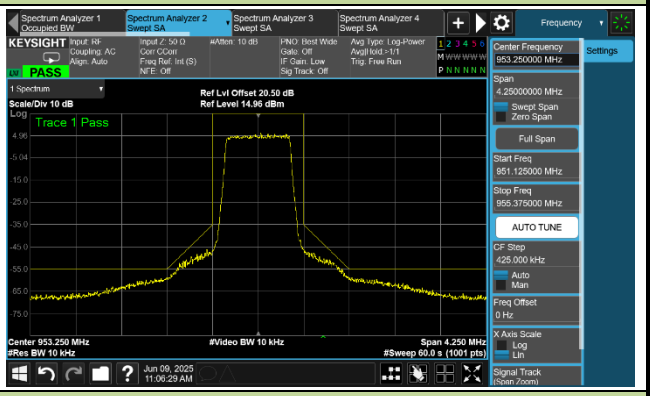


Port B
Channel 941.900MHz
 
Channel 946.750 MHz
 
Channel 951.600 MHz
 

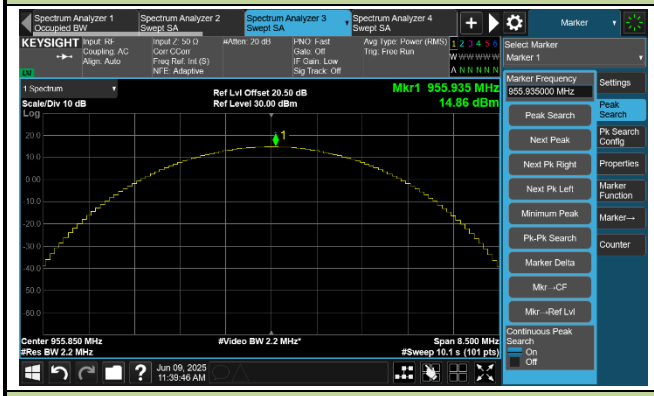
Port B

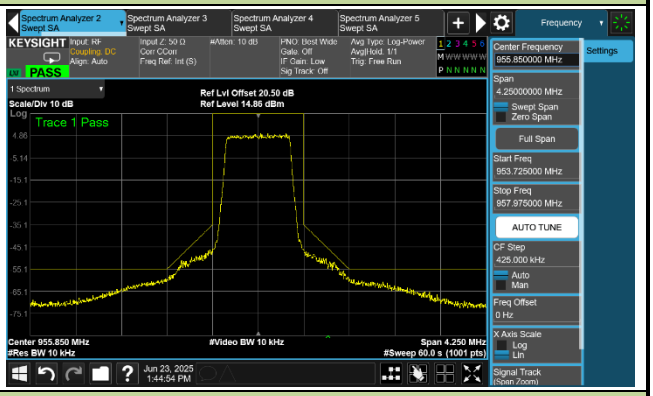
Channel 953.250MHz



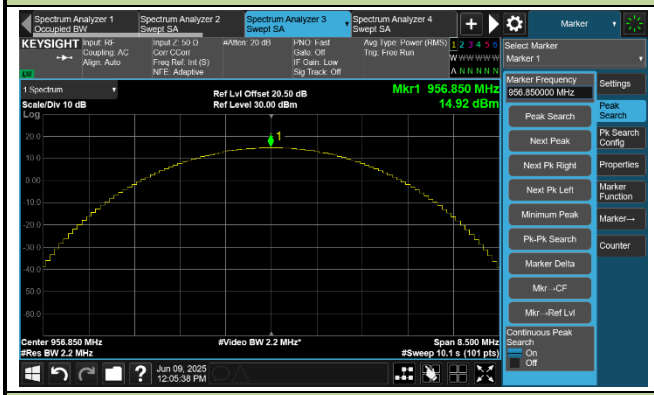


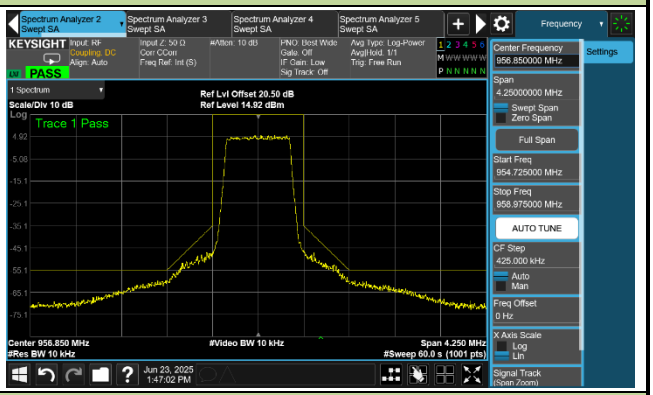
Channel 955.850MHz



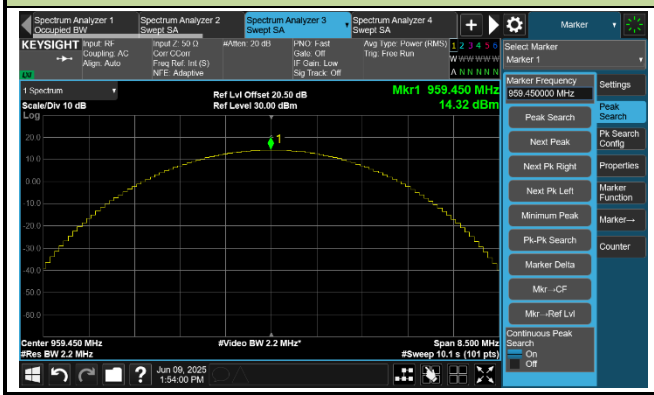


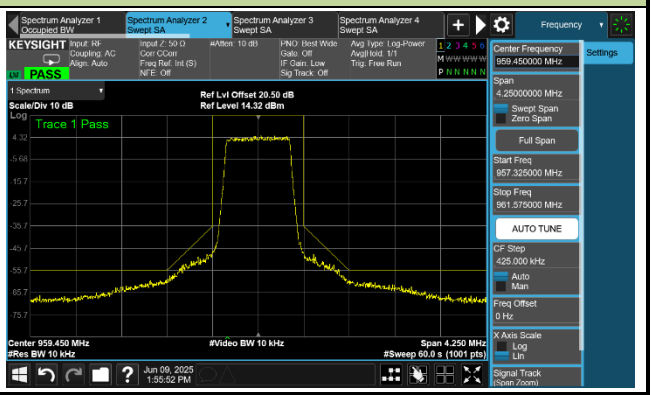
Channel 956.850MHz

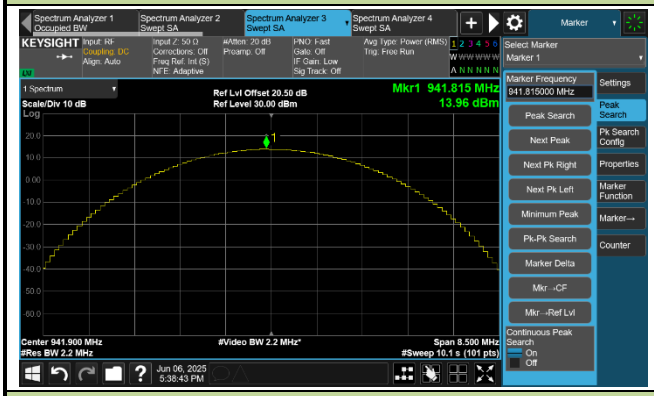
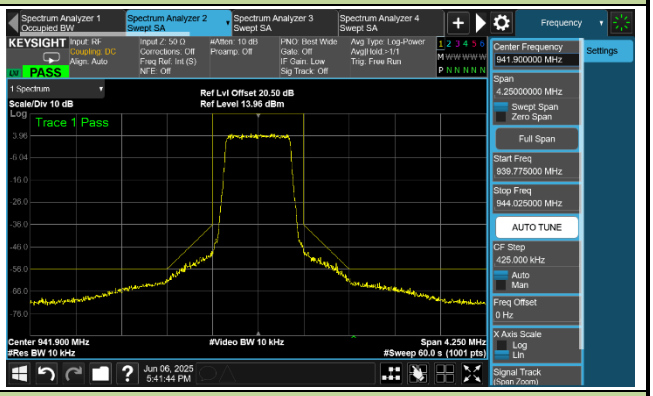
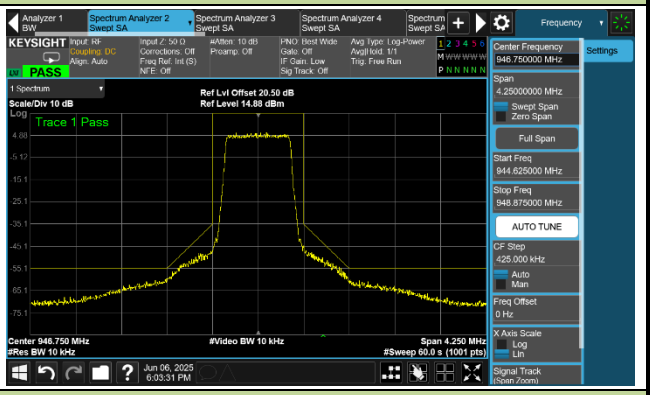
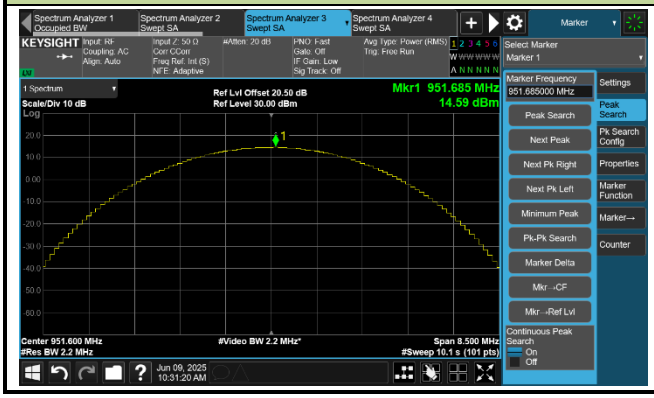
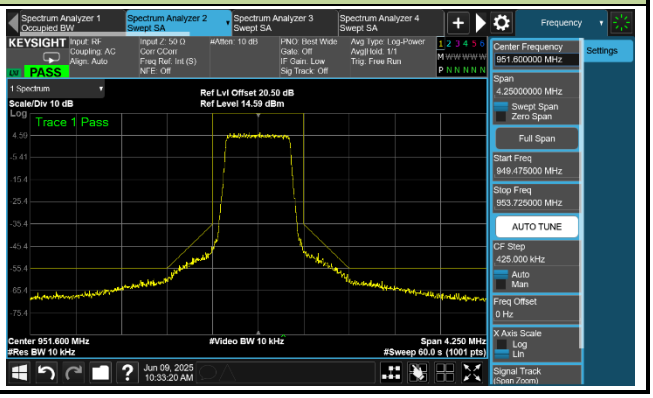




Channel 959.450MHz

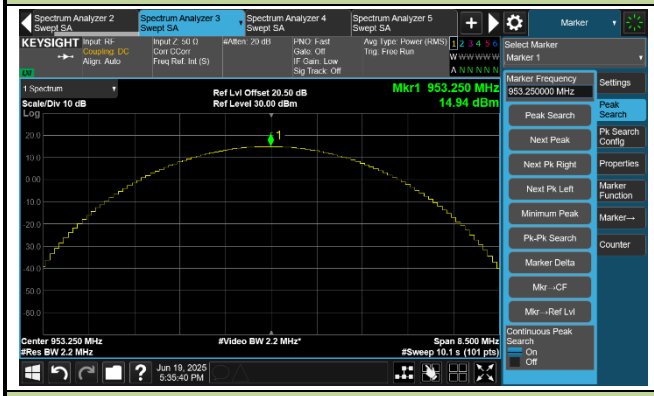


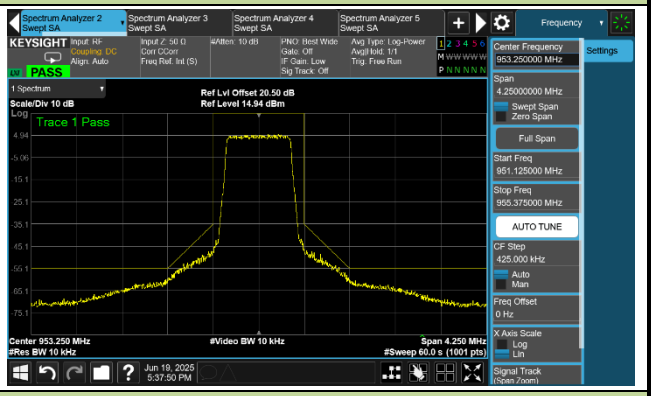


Port C	
Channel 941.900MHz	
	
Channel 946.750 MHz	
	
Channel 951.600 MHz	
	

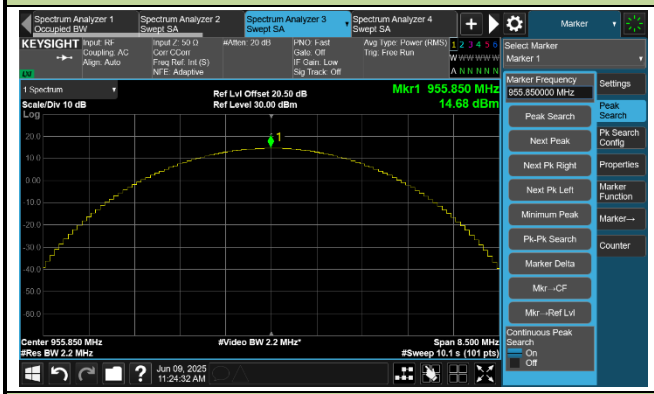
Port C

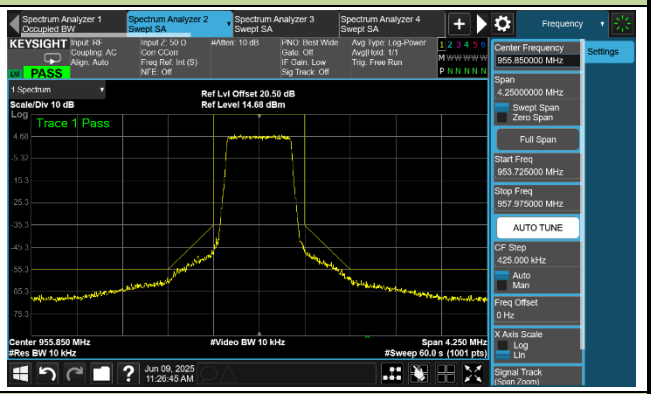
Channel 953.250MHz



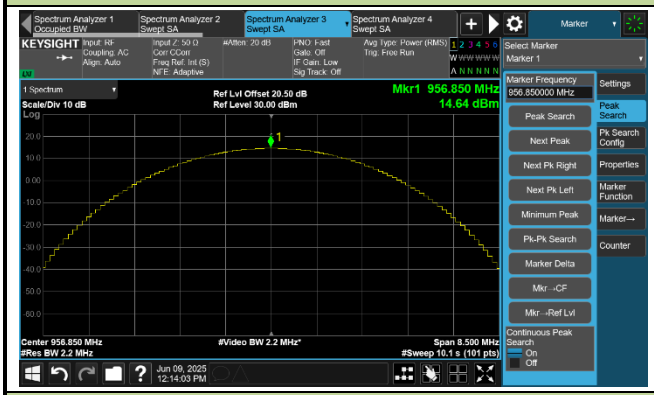


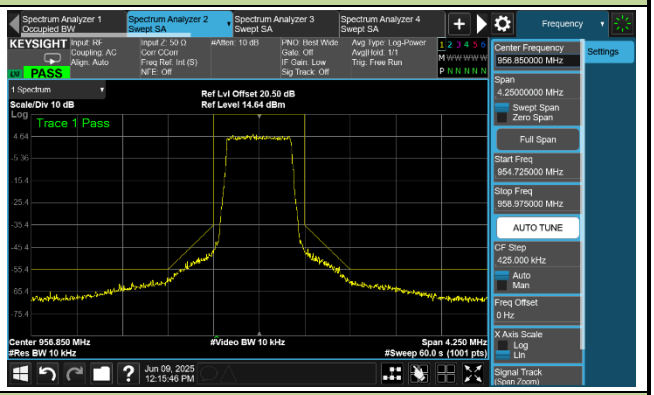
Channel 955.850MHz



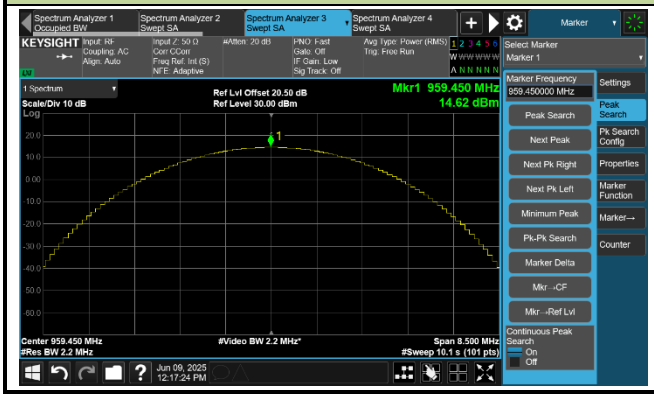


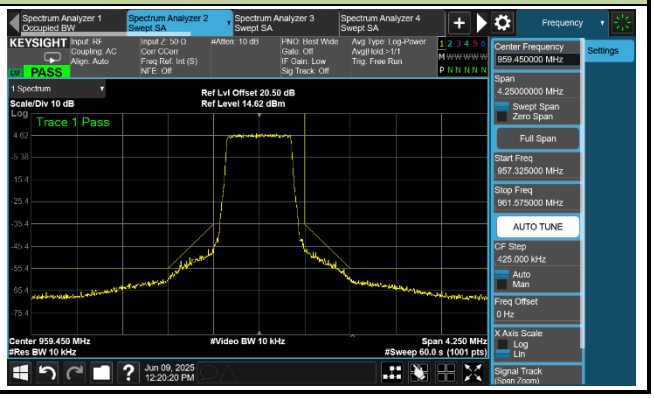
Channel 956.850MHz

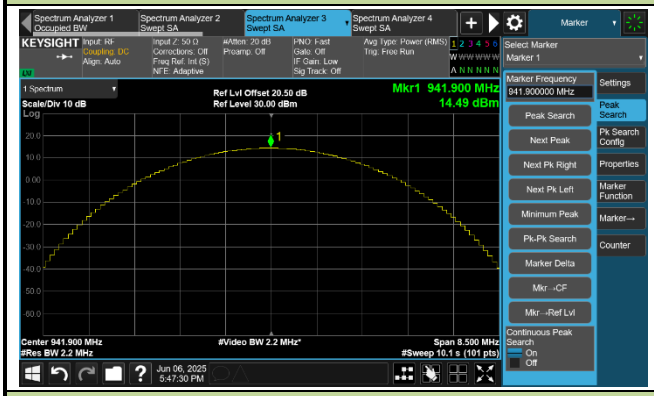
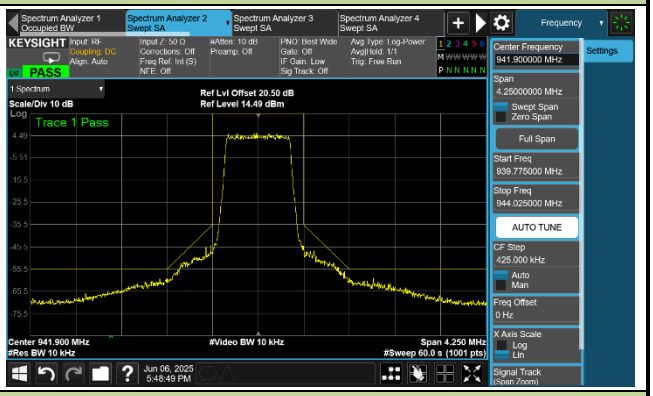
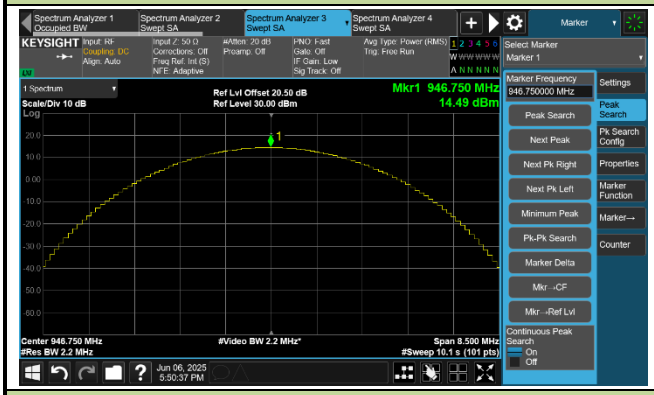
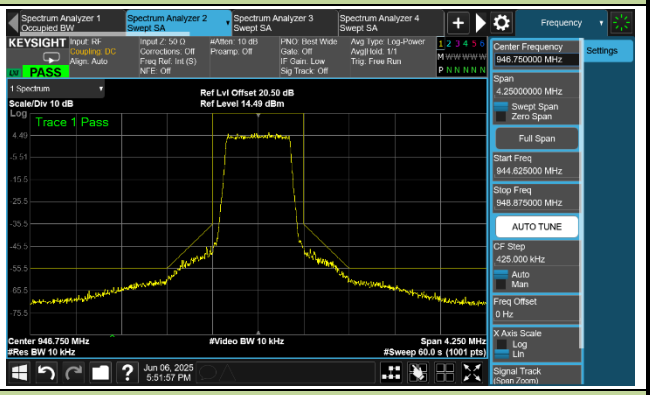
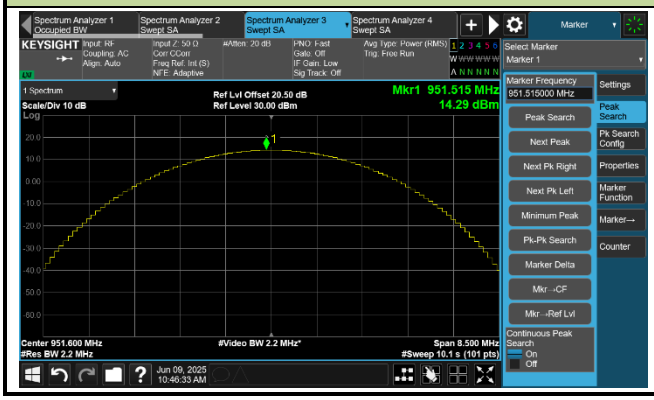
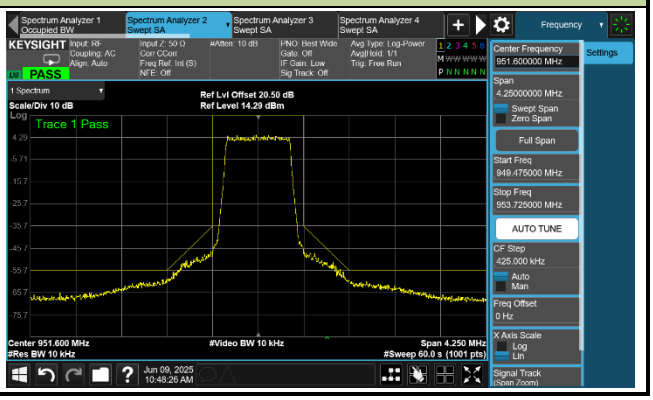




Channel 959.450MHz

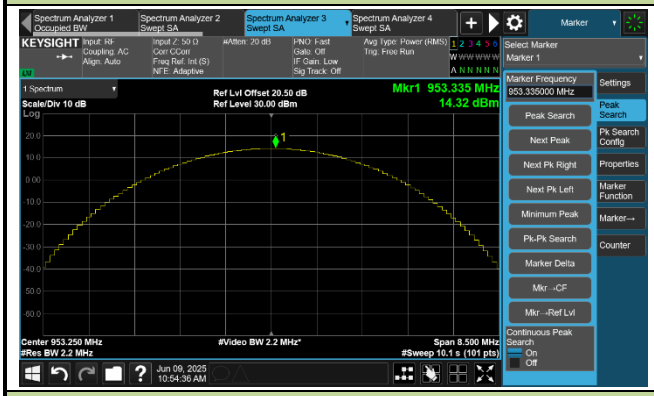


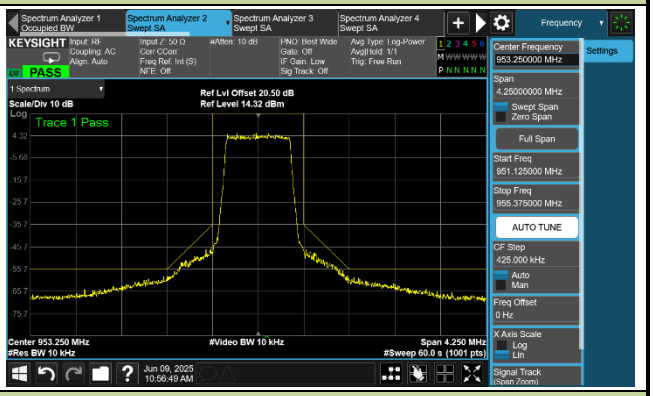


Port D
Channel 941.900MHz
 
Channel 946.750 MHz
 
Channel 951.600 MHz
 

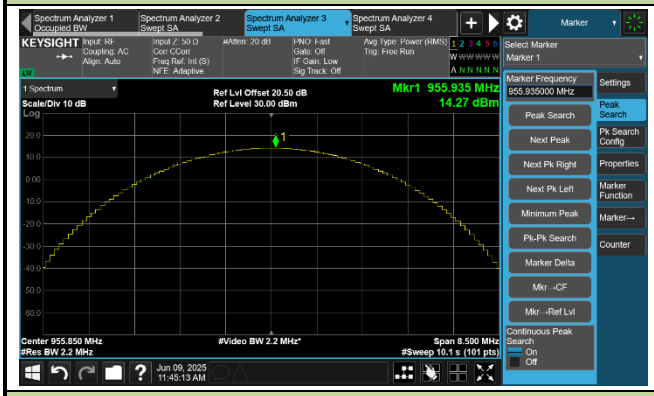
Port D

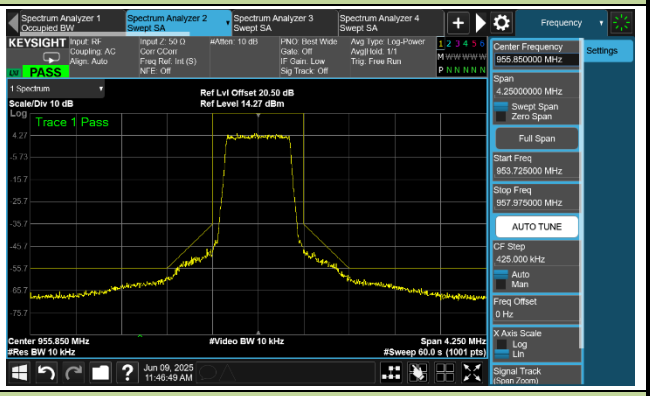
Channel 953.250MHz



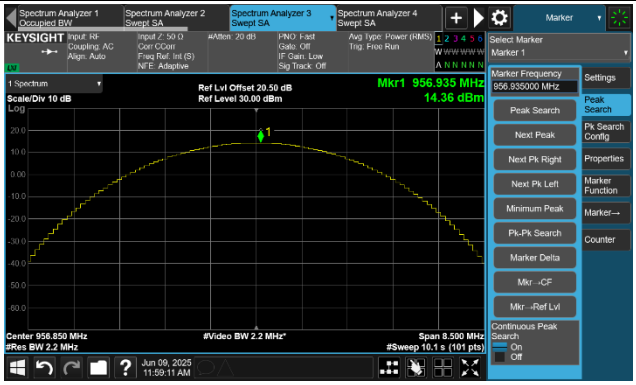


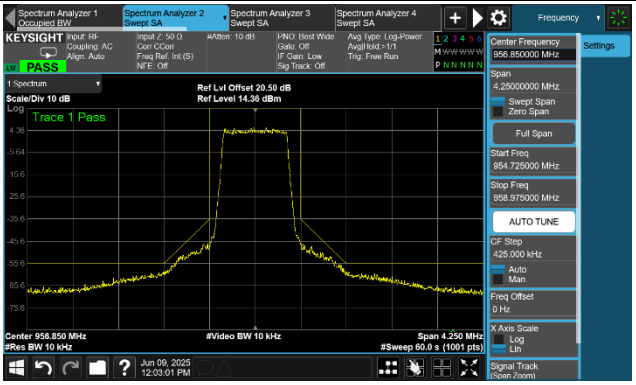
Channel 955.850MHz



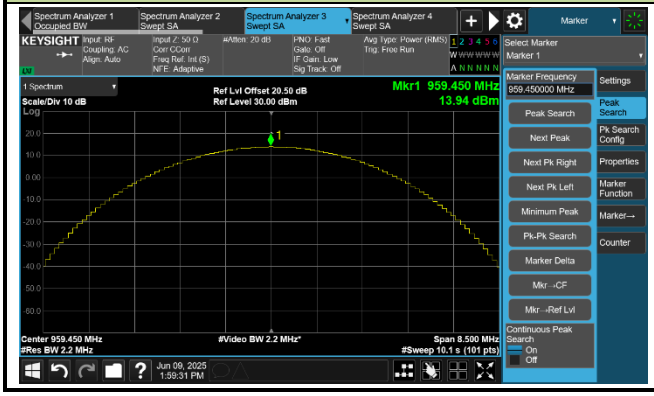


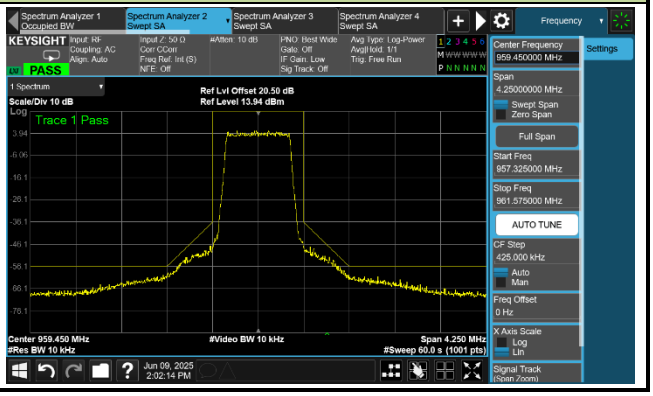
Channel 956.850MHz





Channel 959.450MHz





A.4 Radiated Spurious Emissions Test Result

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2025-05-24	Test Mode	Mode 1

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
941.900 + 942.900	49.890	-104.7	29.1	-75.6	-54.0	-21.6	Peak	Horizontal
	701.920	-100.5	34.1	-66.4	-54.0	-12.4	Peak	Horizontal
	101.000	-105.0	31.7	-73.3	-54.0	-19.3	Peak	Vertical
	710.160	-103.1	36.7	-66.4	-54.0	-12.4	Peak	Vertical
	1198.900	-55.5	6.2	-49.3	-30.0	-19.3	Peak	Horizontal
	9369.100	-72.4	25.9	-46.5	-30.0	-16.5	Peak	Horizontal
	1198.900	-59.7	5.8	-53.9	-30.0	-23.9	Peak	Vertical
	9725.500	-72.2	26.2	-46.0	-30.0	-16.0	Peak	Vertical
946.750 + 947.750	50.950	-104.0	28.7	-75.3	-54.0	-21.3	Peak	Horizontal
	707.740	-98.4	33.8	-64.6	-54.0	-10.6	Peak	Horizontal
	52.890	-103.4	30.6	-72.8	-54.0	-18.8	Peak	Vertical
	707.840	-101.2	36.5	-64.7	-54.0	-10.7	Peak	Vertical
	1198.900	-55.0	6.2	-48.8	-30.0	-18.8	Peak	Horizontal
	9671.500	-72.7	25.9	-46.8	-30.0	-16.8	Peak	Horizontal
	1198.900	-60.1	5.8	-54.3	-30.0	-24.3	Peak	Vertical
	9323.200	-72.0	25.6	-46.4	-30.0	-16.4	Peak	Vertical
951.600 + 950.600	49.690	-105.4	29.1	-76.3	-54.0	-22.3	Peak	Horizontal
	710.460	-97.8	33.8	-64.0	-54.0	-10.0	Peak	Horizontal
	97.900	-104.2	31.9	-72.3	-54.0	-18.3	Peak	Vertical
	710.550	-98.4	36.7	-61.7	-54.0	-7.7	Peak	Vertical
	1198.900	-54.4	6.2	-48.2	-30.0	-18.2	Peak	Horizontal
	9765.100	-72.5	25.9	-46.6	-30.0	-16.6	Peak	Horizontal
	1199.800	-59.4	5.7	-53.7	-30.0	-23.7	Peak	Vertical
	9731.800	-72.2	25.9	-46.3	-30.0	-16.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: RMS measurement was not performed when peak measure level was lower than the RMS limit.

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
953.250 + 954.250	53.180	-105.5	28.0	-77.5	-54.0	-23.5	Peak	Horizontal
	714.240	-100.0	33.5	-66.5	-54.0	-12.5	Peak	Horizontal
	102.940	-104.4	31.3	-73.1	-54.0	-19.1	Peak	Vertical
	714.430	-99.5	36.5	-63.0	-54.0	-9.0	Peak	Vertical
	1198.900	-55.2	6.2	-49.0	-30.0	-19.0	Peak	Horizontal
	9325.900	-72.0	25.7	-46.3	-30.0	-16.3	Peak	Horizontal
	1198.900	-59.8	5.8	-54.0	-30.0	-24.0	Peak	Vertical
	9307.900	-71.4	25.8	-45.6	-30.0	-15.6	Peak	Vertical
955.850 + 954.850	48.720	-104.4	29.4	-75.0	-54.0	-21.0	Peak	Horizontal
	714.720	-96.6	33.5	-63.1	-54.0	-9.1	Peak	Horizontal
	96.830	-104.8	31.9	-72.9	-54.0	-18.9	Peak	Vertical
	715.010	-97.6	36.5	-61.1	-54.0	-7.1	Peak	Vertical
	1198.900	-53.9	6.2	-47.7	-30.0	-17.7	Peak	Horizontal
	9325.000	-72.4	25.7	-46.7	-30.0	-16.7	Peak	Horizontal
	1198.900	-59.5	5.8	-53.7	-30.0	-23.7	Peak	Vertical
	9685.000	-72.7	25.8	-46.9	-30.0	-16.9	Peak	Vertical
956.850 + 957.850	50.560	-105.4	28.9	-76.5	-54.0	-22.5	Peak	Horizontal
	717.920	-97.7	33.5	-64.2	-54.0	-10.2	Peak	Horizontal
	93.540	-104.4	31.7	-72.7	-54.0	-18.7	Peak	Vertical
	717.730	-97.7	36.5	-61.2	-54.0	-7.2	Peak	Vertical
	1198.900	-54.9	6.2	-48.7	-30.0	-18.7	Peak	Horizontal
	9334.900	-71.9	25.7	-46.2	-30.0	-16.2	Peak	Horizontal
	1198.900	-60.3	5.8	-54.5	-30.0	-24.5	Peak	Vertical
	9722.800	-72.5	26.3	-46.2	-30.0	-16.2	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: RMS measurement was not performed when peak measure level was lower than the RMS limit.

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
959.450 + 958.450	50.560	-104.9	28.9	-76.0	-54.0	-22.0	Peak	Horizontal
	718.410	-95.8	33.5	-62.3	-54.0	-8.3	Peak	Horizontal
	94.890	-105.7	31.9	-73.8	-54.0	-19.8	Peak	Vertical
	718.600	-99.5	36.6	-62.9	-54.0	-8.9	Peak	Vertical
	1198.900	-54.3	6.2	-48.1	-30.0	-18.1	Peak	Horizontal
	9652.600	-71.1	25.3	-45.8	-30.0	-15.8	Peak	Horizontal
	1198.900	-60.0	5.8	-54.2	-30.0	-24.2	Peak	Vertical
	8015.500	-71.7	22.4	-49.3	-30.0	-19.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: RMS measurement was not performed when peak measure level was lower than the RMS limit.

Appendix B – Test Setup Photograph

Refer to “R25S1018044-UT” file.

Appendix C – EUT Photograph

Refer to “R25S1018044-UE” file.

The End