



RF MEASUREMENT REPORT

FCC ID: DD4ADTQX55
Applicant: Shure Incorporated
Product: Wireless Quad Transmitter
Model No.: ADTQ X55, ADTQ DC X55
Brand Name: , **SHURE**[®]
FCC Classification: Licensed LPAS Device (TLD)
FCC Rule Part(s): Part 74 Subpart H (Section 74.861)
Result: Complies
Received Date: 2024-06-13
Test Date: 2024-08-13 ~ 2024-11-30

Reviewed By:

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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.

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Revision History

Report No.	Version	Description	Issue Date	Note
2406RSU021-U8	V01	Initial Report	2024-11-30	Invalid
2406RSU021-U8	V02	Update KDB 206256 Version	2024-12-10	Valid

CONTENTS

Description	Page
1. General Information	5
1.1. Applicant	5
1.2. Manufacturer	5
1.3. Testing Facility	5
1.4. Product Information	6
1.5. Radio Specification under Test	7
1.6. Working Frequencies	7
1.7. Antenna Details	8
2. Test Configuration	9
2.1. Test Mode	9
2.2. Test Software	9
2.3. Applied Standards	10
2.4. Test Environment Condition	10
3. Measuring Instrument	11
4. Decision Rules and Measurement Uncertainty	13
4.1. Decision Rules	13
4.2. Measurement Uncertainty	13
5. Test Result	14
5.1. Summary	14
5.2. RF Output Power Measurement	15
5.2.1. Test Limit	15
5.2.2. Test Procedure	15
5.2.3. Test Setting	15
5.2.4. Test Setup	15
5.2.5. Test Result	15
5.3. 99% Occupied Bandwidth Measurement	16
5.3.1. Test Limit	16
5.3.2. Test Procedure	16
5.3.3. Test Setting	16
5.3.4. Test Setup	16
5.3.5. Test Result	16
5.4. Emission Mask Measurement	17
5.4.1. Test Limit	17
5.4.2. Test Procedure	19
5.4.3. Test Setting	19

5.4.4.	Test Setup	19
5.4.5.	Test Result	19
5.5.	Radiated Spurious Emissions Measurement	20
5.5.1.	Test Limit	20
5.5.2.	Test Procedure	21
5.5.3.	Test Setting	21
5.5.4.	Test Setup	22
5.5.5.	Test Result	22
Appendix A – Test Result		24
A.1	RF Output Power Test Result	24
A.2	99% Occupied Bandwidth Test Result	36
A.3	Emission Mask Test Result	48
A.4	Radiated Spurious Emissions Test Result	90
Appendix B – Test Setup Photograph		183
Appendix C – EUT Photograph		184

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 EUT was provided by the manufacturer, and the accuracy of the information shall be 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	Analog FM & Narrowband & 4-channel Wideband (WMAS) & PTP
Frequency Range	941.625 ~ 951.875MHz & 952.975 ~ 956.125MHz & 956.575 ~ 959.725MHz
Declared Power Level	Low & Mid & High
Type of Modulation	Analog FM: FM
	Narrowband: OFDM
	4-channel Wideband: OFDM
	PTP: 16QAM
Declared Occupied Bandwidth	Analog FM: 200kHz
	Narrowband: 200kHz
	4-channel Wideband (WMAS): 440kHz
	4-channel Wideband (WMAS): 850kHz
	PTP: 200kHz
Channel Spacing	25kHz
RF Connector Type	BNC

1.6. Working Frequencies

Bottom Channel (MHz)	Middle Channel (MHz)	Top Channel (MHz)
Analog FM & Narrow Band & PTP		
941 ~ 952 MHz Frequency Band		
941.625	946.750	951.875
952.85 ~ 956.25 MHz Frequency Band		
952.975	N/A	956.125
956.45 ~ 959.85 MHz Frequency Band		
956.575	N/A	959.725
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 Analog FM (Power Level = 250mW)
Mode 2: Transmit at X55 Band by Analog FM combined (Power Level = 20mW)
Mode 3: Transmit at X55 Band by Narrowband (Power Level = 250mW)
Mode 4: Transmit at X55 Band by Narrowband combined (Power Level = 20mW)
Mode 5: Transmit at X55 Band by Narrowband spatial diversity (Power Level = 100mW)
Mode 6: Transmit at X55 Band by Narrowband spatial diversity combined (Power Level = 20mW)
Mode 7: Transmit at X55 Band by 4-channel wideband (Power Level = 250mW)
Mode 8: Transmit at X55 Band by 4-channel wideband 8 audio mixes (Power Level = 40mW)
Mode 9: Transmit at X55 Band by 4-channel wideband 16 audio mixes (Power Level = 50mW)
Mode 10: Transmit at X55 Band by 4-channel wideband spatial diversity (Power Level = 100mW)
Mode 11: Transmit at X55 Band by Axient Digital Standard (PTP) (Power Level = 250mW)
Mode 12: Transmit at X55 Band by Axient Digital Standard (PTP) combined (Power Level = 20mW)
Mode 13: Transmit at X55 Band by Narrowband frequency diversity combined (Power Level = 20mW)
Mode 14: Transmit at X55 Band by Narrowband spatial diversity frequency diversity combined (Power Level = 20mW)
Mode 15: Transmit at X55 Band by 4-channel wideband frequency diversity (Power Level = 20mW)
Mode 16: Transmit at X55 Band by 4-channel wideband spatial diversity frequency diversity (Power Level = 20mW)
Note 1: After evaluation, the full test was done for mode 1 & 3 & 7 & 11 and output power and radiated spurious emission were done for other modes.
Note 2: Mode 13 was covered by mode 4, mode 15 was covered by mode 16, mode 14 was covered by mode 6.
Note 3: For Mode 1 & 3 & 7 & 11, we verify output power and radiated spurious emission with antenna combiner AD8C.

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
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2025-09-02	WZ-TR3
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2024-12-14	WZ-TR3
Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2025-02-03	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2025-05-20	WZ-SR5
Audio Analyzer	R&S	UPV	MRTSUE06357	1 year	2025-04-11	WZ-SR5
Multifunction Synthesizer	HP	HP8904A	MRTSUE06097	1 year	2025-07-18	WZ-SR5
Modulation Analyzer	HP	HP8901A	MRTSUE06098	1 year	2025-07-18	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2025-05-08	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11077	1 year	2025-06-05	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11078	1 year	2025-06-05	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11079	1 year	2025-06-05	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11080	1 year	2025-06-05	WZ-SR5
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2025-05-08	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2025-05-08	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2025-10-29	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2029-10-13	SIP-SR2
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2024-12-17	WZ-AC1
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2024-11-09	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2025-11-08	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2025-05-15	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2025-10-13	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2025-10-16	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2024-10-25	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2025-04-17	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2025-05-08	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2024-10-11	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2025-05-06	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2025-04-18	WZ-AC2

Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2024-11-07	WZ-AC2

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	1.02	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 $k = 2$.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.02dB 150kHz~30MHz: 2.56dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.35dB Coplanar: 9kHz~30MHz: 2.37dB Horizontal: 30MHz~200MHz: 3.46dB 200MHz~1GHz: 3.78dB 1GHz~40GHz: 4.97dB Vertical: 30MHz~200MHz: 4.07dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.78dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 1.3dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.5dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.6%

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.

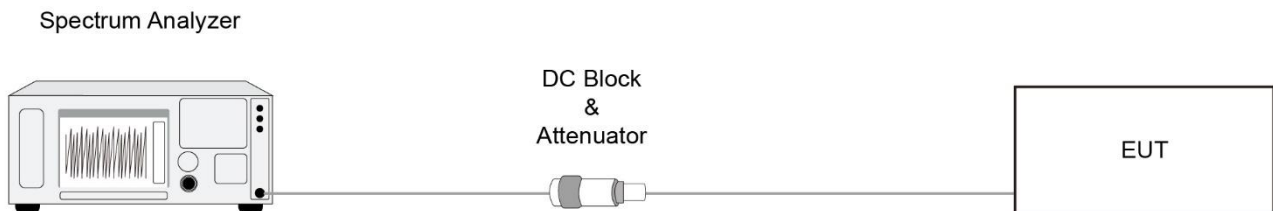
5.3.2. Test Procedure

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 $\geq 3 \times$ 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 $2.5 \times B$ below to $2.5 \times B$ 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 $2.5 \times B$ below to $2.5 \times B$ 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 $2.5 \times B$ below to $2.5 \times B$ 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.

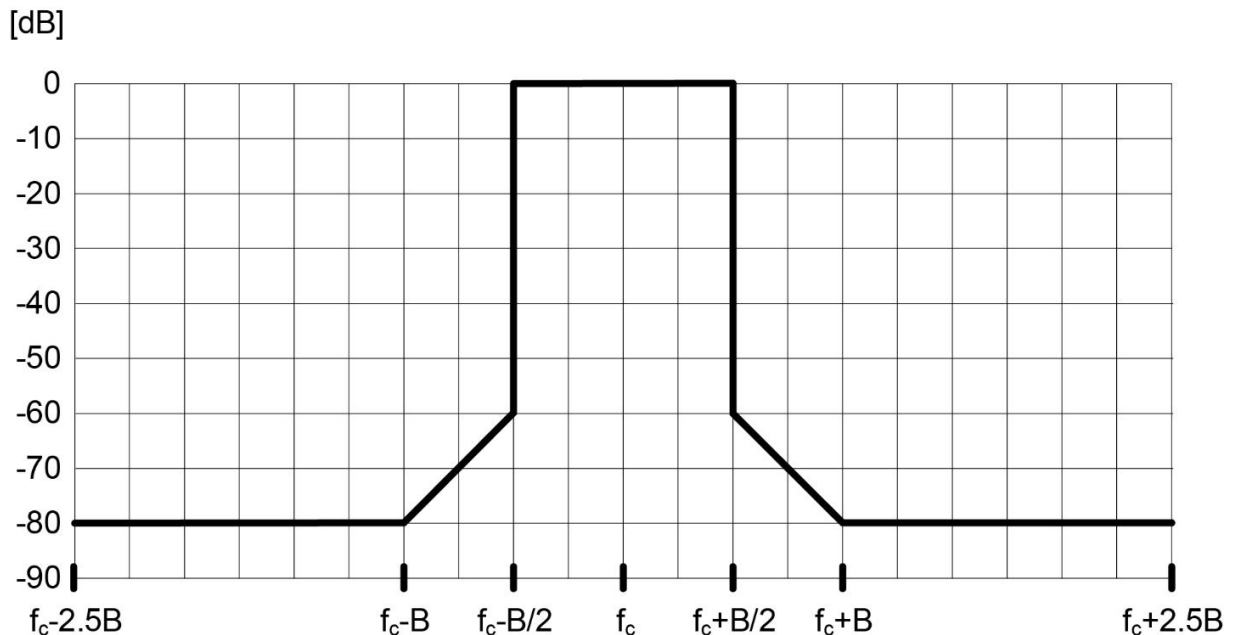


Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz



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.

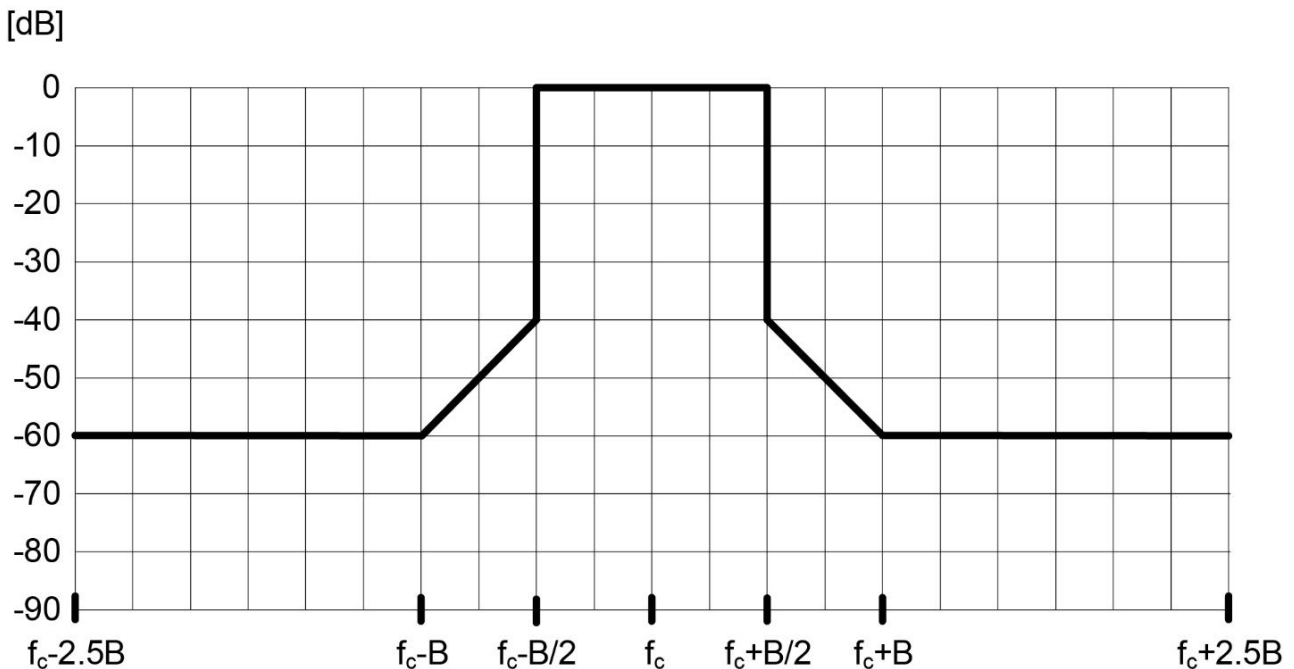


Figure 3: Transmit spectral power mask for WMAS, RBW = 100 kHz

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 $c = 10 \times \log_{10} (\text{RBW}/100 \text{ kHz})$ for correction.

Correction Factor for different B and applicable RBW

B	RBW, VBW	c = correction factor
$B < 2 \text{ MHz}$	10 kHz	-10dB
$2 \text{ MHz} \leq B < 5 \text{ MHz}$	25 kHz	-7dB
$5 \text{ Hz} \leq B \leq 20\text{MHz}$	100 kHz	0dB

5.4.2. Test Procedure

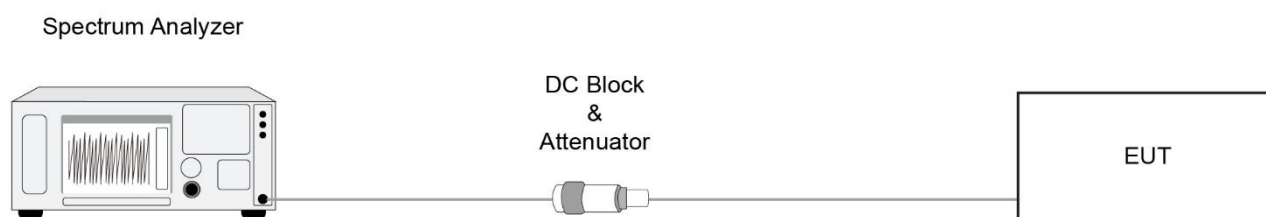
EN 300 422-1 V2.2.1 clause 5.4.3.2.

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	$F_c + 2.5B \leq f \leq F_c + 4B$: 1kHz $F_c + 4B < f \leq F_c + 10B$: 10kHz $f > F_c + 10B$: 100kHz $f < F_c - 10B$: 100kHz $F_c - 10B \leq f < F_c - 4B$: 10kHz $F_c - 4B \leq f \leq F_c - 2.5B$: 1kHz
Except:		
47MHz to 74MHz 87.5MHz to 118MHz	-54dBm	100kHz
174MHz to 230MHz 470MHz to 862MHz	-36dBm	$F_c + 2.5B \leq f \leq F_c + 4B$: 1kHz $F_c + 4B < f \leq F_c + 10B$: 10kHz $f > F_c + 10B$: 100kHz $f < F_c - 10B$: 100kHz $F_c - 10B \leq f < F_c - 4B$: 10kHz $F_c - 4B \leq f \leq F_c - 2.5B$: 1kHz
$1\text{GHz} < f \leq F_{\text{upper}}$	-30dBm	$F_c + 2.5B \leq f \leq F_c + 10B$: 30kHz $F_c + 10B < f \leq F_c + 12B$: 300kHz $f > F_c + 12B$: 1MHz $f < F_c - 12B$: 1MHz $F_c - 12B \leq f < F_c - 10B$: 300kHz $F_c - 10B \leq f \leq F_c - 2.5B$: 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.

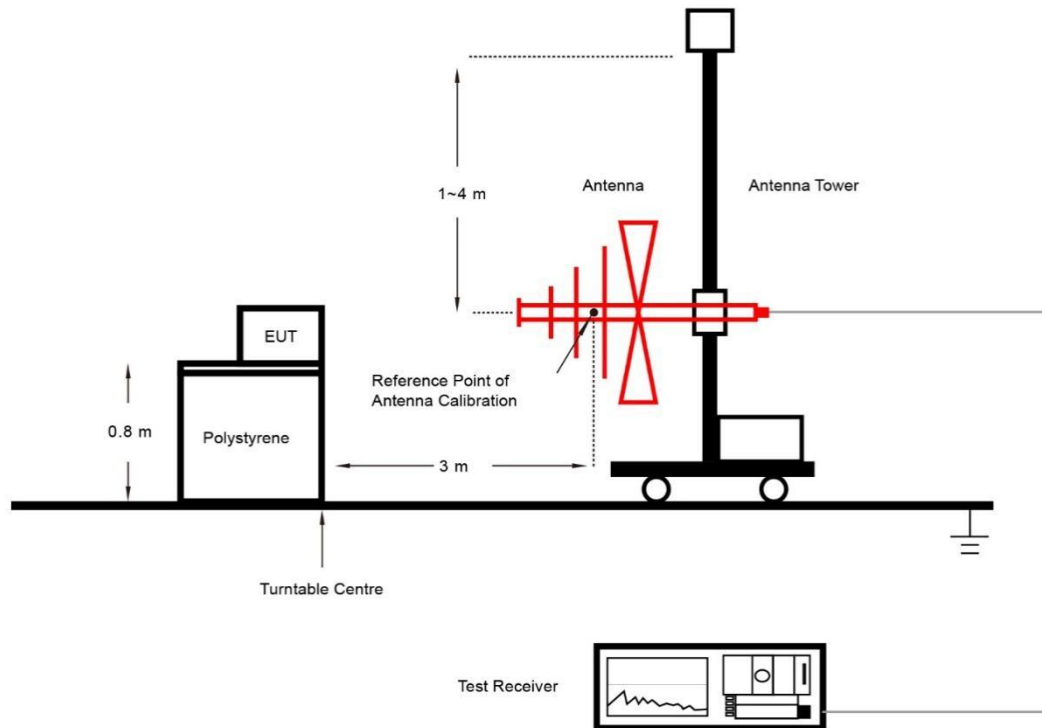
Compliance with the emission limits shall be demonstrated using an RMS Average detector.

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

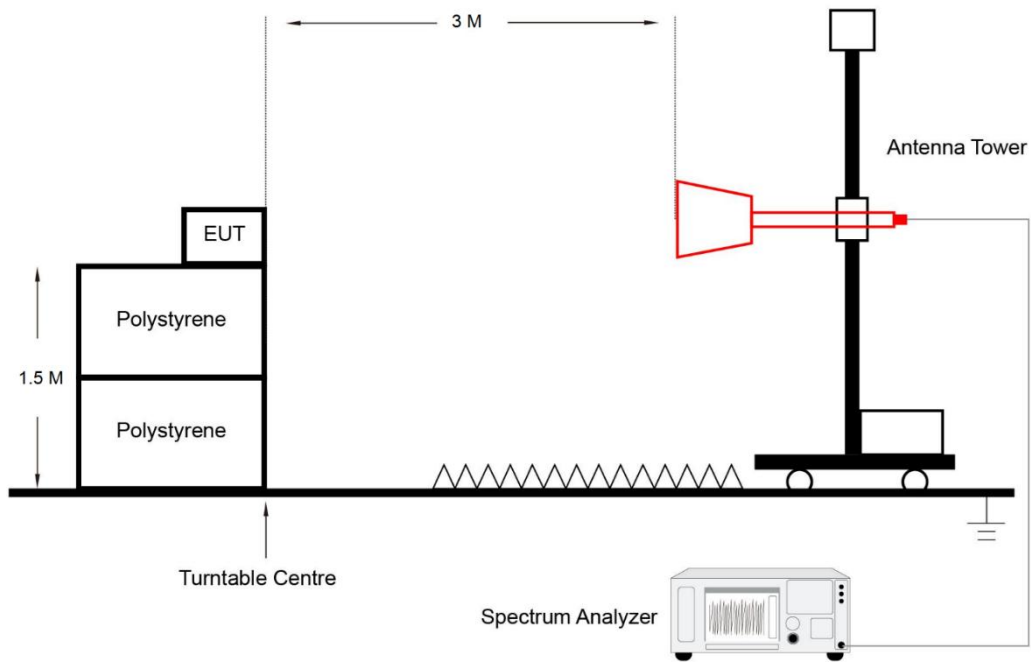
At each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

5.5.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



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	2024-10-14	Test Mode	Mode 1 Single Port

Frequency (MHz)	Conducted Output Power (dBm)				Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D		
250mW Power Level						
941.625	21.47	21.23	21.16	22.33	≤ 30.00	Pass
946.750	21.36	21.08	21.01	22.26	≤ 30.00	Pass
951.875	21.20	20.92	20.84	22.18	≤ 30.00	Pass
952.975	21.18	20.97	20.79	22.15	≤ 30.00	Pass
956.125	21.08	21.84	20.68	22.08	≤ 30.00	Pass
956.575	21.09	21.82	20.66	22.07	≤ 30.00	Pass
959.725	21.00	21.67	20.53	21.98	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 1 Multi Ports

Frequency (MHz)	Conducted Output Power (dBm)				Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D			
250mW Power Level							
941.625	21.47	21.23	21.16	22.33	27.59	≤ 30.00	Pass
946.750	21.36	21.08	21.01	22.26	27.48	≤ 30.00	Pass
951.875	21.20	20.92	20.84	22.18	27.34	≤ 30.00	Pass
952.975	21.18	20.97	20.79	22.15	27.33	≤ 30.00	Pass
956.125	21.08	21.84	20.68	22.08	27.48	≤ 30.00	Pass
956.575	21.09	21.82	20.66	22.07	27.47	≤ 30.00	Pass
959.725	21.00	21.67	20.53	21.98	27.35	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)} + 10^{(\text{Port C}/10)} + 10^{(\text{Port D}/10)}) \text{ (dBm)}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-13	Test Mode	Mode 1 with AD8C

Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A		
250mW Power Level			
941.625	20.41	≤ 30.00	Pass
946.750	19.52	≤ 30.00	Pass
951.875	19.28	≤ 30.00	Pass
952.975	19.21	≤ 30.00	Pass
956.125	18.16	≤ 30.00	Pass
956.575	18.14	≤ 30.00	Pass
959.725	17.96	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 2

Frequency (MHz)				Conducted Output Power (dBm)	Limit (dBm)	Test Result
F1	F2	F3	F4			
20mW Power Level						
941.625	941.975	942.325	942.675	16.31	≤ 30.00	Pass
946.750	947.100	947.450	947.800	16.52	≤ 30.00	Pass
951.875	951.525	951.175	950.825	16.46	≤ 30.00	Pass
952.975	953.325	953.675	954.025	16.43	≤ 30.00	Pass
956.125	955.775	955.425	955.075	16.61	≤ 30.00	Pass
956.575	956.925	957.275	957.625	16.58	≤ 30.00	Pass
959.725	959.375	959.025	958.675	16.54	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 3 Single Port

Frequency (MHz)	Conducted Output Power (dBm)				Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D		
250mW Power Level						
941.625	20.36	20.82	20.57	20.96	≤ 30.00	Pass
946.750	21.30	20.76	20.49	21.02	≤ 30.00	Pass
951.875	20.91	20.54	20.29	21.11	≤ 30.00	Pass
952.975	20.82	20.47	20.18	21.22	≤ 30.00	Pass
956.125	20.78	21.54	20.24	20.92	≤ 30.00	Pass
956.575	20.80	21.42	20.25	20.96	≤ 30.00	Pass
959.725	20.87	21.31	19.94	21.12	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 3 Multi Ports

Frequency (MHz)	Conducted Output Power (dBm)				Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D			
250mW Power Level							
941.625	20.36	20.82	20.57	20.96	26.70	≤ 30.00	Pass
946.750	21.30	20.76	20.49	21.02	26.92	≤ 30.00	Pass
951.875	20.91	20.54	20.29	21.11	26.74	≤ 30.00	Pass
952.975	20.82	20.47	20.18	21.22	26.71	≤ 30.00	Pass
956.125	20.78	21.54	20.24	20.92	26.92	≤ 30.00	Pass
956.575	20.80	21.42	20.25	20.96	26.90	≤ 30.00	Pass
959.725	20.87	21.31	19.94	21.12	26.86	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)} + 10^{(\text{Port C}/10)} + 10^{(\text{Port D}/10)})$ (dBm).

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-13	Test Mode	Mode 3 with AD8C

Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A		
250mW Power Level			
941.625	17.07	≤ 30.00	Pass
946.750	17.01	≤ 30.00	Pass
951.875	16.87	≤ 30.00	Pass
952.975	16.83	≤ 30.00	Pass
956.125	15.77	≤ 30.00	Pass
956.575	15.75	≤ 30.00	Pass
959.725	15.59	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 4

Frequency (MHz)				Conducted Output Power (dBm)	Limit (dBm)	Test Result
F1	F2	F3	F4			
20mW Power Level						
941.625	941.975	942.325	942.675	17.22	≤ 30.00	Pass
946.750	947.100	947.450	947.800	17.43	≤ 30.00	Pass
951.875	951.525	951.175	950.825	17.28	≤ 30.00	Pass
952.975	953.325	953.675	954.025	17.33	≤ 30.00	Pass
956.125	955.775	955.425	955.075	17.39	≤ 30.00	Pass
956.575	956.925	957.275	957.625	17.12	≤ 30.00	Pass
959.725	959.375	959.025	958.675	17.20	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 5

Frequency (MHz)	Conducted Output Power (dBm)				Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D			
100mW Power Level							
941.625	19.13	19.53	20.23	20.38	25.87	≤ 30.00	Pass
946.750	20.07	19.66	20.16	20.26	26.06	≤ 30.00	Pass
951.875	20.15	19.74	19.97	20.13	26.02	≤ 30.00	Pass
952.975	19.85	20.23	19.82	20.67	26.18	≤ 30.00	Pass
956.125	19.63	20.32	19.67	20.11	25.96	≤ 30.00	Pass
956.575	19.42	20.36	19.42	20.02	25.84	≤ 30.00	Pass
959.725	19.93	20.24	19.56	20.23	26.02	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)} + 10^{(\text{Port C}/10)} + 10^{(\text{Port D}/10)})$ (dBm).

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 6

Frequency (MHz)		Conducted Output Power (dBm)		Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
F1	F2	Port A	Port D			
20mW Power Level						
941.625	941.975	15.04	15.37	18.22	≤ 30.00	Pass
946.750	947.100	15.72	15.17	18.46	≤ 30.00	Pass
951.875	951.525	15.66	15.24	18.47	≤ 30.00	Pass
952.975	953.325	15.58	15.08	18.35	≤ 30.00	Pass
956.125	955.775	16.02	15.22	18.65	≤ 30.00	Pass
956.575	956.925	15.94	15.07	18.54	≤ 30.00	Pass
959.725	959.375	15.82	15.47	18.66	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port D}/10)})$ (dBm).

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 7

Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Test Result
250mW Power Level			
941.900	21.63	≤ 30.00	Pass
946.750	21.60	≤ 30.00	Pass
951.600	21.54	≤ 30.00	Pass
953.250	21.52	≤ 30.00	Pass
955.850	21.49	≤ 30.00	Pass
956.850	21.48	≤ 30.00	Pass
959.450	21.42	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-13	Test Mode	Mode 7 with AD8C

Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A		
250mW Power Level			
941.900	14.59	≤ 30.00	Pass
946.750	14.51	≤ 30.00	Pass
951.600	14.43	≤ 30.00	Pass
953.250	14.45	≤ 30.00	Pass
955.850	14.38	≤ 30.00	Pass
956.850	14.32	≤ 30.00	Pass
959.450	14.29	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 8 Single Port

Frequency (MHz)	Conducted Output Power (dBm)				Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D		
40mW Power Level						
941.900	14.16	15.02	13.79	14.64	≤ 30.00	Pass
946.750	14.12	14.94	14.68	14.48	≤ 30.00	Pass
951.600	13.85	14.96	14.57	14.51	≤ 30.00	Pass
953.250	14.19	14.88	14.58	14.44	≤ 30.00	Pass
955.850	14.09	14.92	14.51	14.42	≤ 30.00	Pass
956.850	13.97	14.86	14.50	14.47	≤ 30.00	Pass
959.450	14.25	14.81	14.36	14.42	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 8 Multi Ports

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	14.16	15.02	13.79	14.64	20.45	≤ 30.00	Pass
946.750	14.12	14.94	14.68	14.48	20.59	≤ 30.00	Pass
951.600	13.85	14.96	14.57	14.51	20.51	≤ 30.00	Pass
953.250	14.19	14.88	14.58	14.44	20.55	≤ 30.00	Pass
955.850	14.09	14.92	14.51	14.42	20.52	≤ 30.00	Pass
956.850	13.97	14.86	14.50	14.47	20.48	≤ 30.00	Pass
959.450	14.25	14.81	14.36	14.42	20.49	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)} + 10^{(\text{Port C}/10)} + 10^{(\text{Port D}/10)}) \text{ (dBm)}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 9 Single Port

Frequency (MHz)	Conducted Output Power (dBm)				Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D		
50mW Power Level						
941.900	15.31	15.95	14.95	15.26	≤ 30.00	Pass
946.750	16.19	14.60	14.85	15.22	≤ 30.00	Pass
951.600	15.81	14.48	15.90	15.17	≤ 30.00	Pass
953.250	15.35	14.41	14.95	15.23	≤ 30.00	Pass
955.850	15.59	15.33	15.35	15.10	≤ 30.00	Pass
956.850	15.99	15.32	15.54	15.13	≤ 30.00	Pass
959.450	15.85	15.21	14.58	15.09	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 9 Multi Ports

Frequency (MHz)	Conducted Output Power (dBm)				Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D			
50mW Power Level							
	15.31	15.95	14.95	15.26	21.40	≤ 30.00	Pass
946.750	16.19	14.60	14.85	15.22	21.28	≤ 30.00	Pass
951.600	15.81	14.48	15.90	15.17	21.40	≤ 30.00	Pass
953.250	15.35	14.41	14.95	15.23	21.02	≤ 30.00	Pass
955.850	15.59	15.33	15.35	15.10	21.37	≤ 30.00	Pass
956.850	15.99	15.32	15.54	15.13	21.53	≤ 30.00	Pass
959.450	15.85	15.21	14.58	15.09	21.40	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)} + 10^{(\text{Port C}/10)} + 10^{(\text{Port D}/10)})$ (dBm).

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 10

Frequency (MHz)	Conducted Output Power (dBm)		Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port D			
100mW Power Level					
941.900	20.47	19.32	22.94	≤ 30.00	Pass
946.750	21.22	19.52	23.46	≤ 30.00	Pass
951.600	21.16	19.55	23.44	≤ 30.00	Pass
953.250	21.23	19.61	23.51	≤ 30.00	Pass
955.850	20.73	19.64	23.23	≤ 30.00	Pass
956.850	20.75	19.62	23.23	≤ 30.00	Pass
959.450	20.42	19.57	23.03	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port D}/10)}) \text{ (dBm)}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 11 Single Port

Frequency (MHz)	Conducted Output Power (dBm)				Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D		
250mW Power Level						
941.625	18.89	18.15	18.40	18.10	≤ 30.00	Pass
946.750	18.66	18.98	18.64	18.51	≤ 30.00	Pass
951.875	18.43	18.85	18.54	18.45	≤ 30.00	Pass
952.975	18.38	18.97	18.51	18.48	≤ 30.00	Pass
956.125	18.24	18.86	18.43	18.40	≤ 30.00	Pass
956.575	18.21	18.85	18.45	18.42	≤ 30.00	Pass
959.725	18.06	18.78	18.35	18.36	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-13	Test Mode	Mode 11 with AD8C

Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A		
250mW Power Level			
941.625	17.50	≤ 30.00	Pass
946.750	17.25	≤ 30.00	Pass
951.875	17.22	≤ 30.00	Pass
952.975	17.25	≤ 30.00	Pass
956.125	17.1	≤ 30.00	Pass
956.575	17.13	≤ 30.00	Pass
959.725	16.93	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 11 Multi Ports

Frequency (MHz)	Conducted Output Power (dBm)				Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
	Port A	Port B	Port C	Port D			
250mW Power Level							
941.625	18.89	18.15	18.40	18.10	24.42	≤ 30.00	Pass
946.750	18.66	18.98	18.64	18.51	24.72	≤ 30.00	Pass
951.875	18.43	18.85	18.54	18.45	24.59	≤ 30.00	Pass
952.975	18.38	18.97	18.51	18.48	24.61	≤ 30.00	Pass
956.125	18.24	18.86	18.43	18.40	24.51	≤ 30.00	Pass
956.575	18.21	18.85	18.45	18.42	24.51	≤ 30.00	Pass
959.725	18.06	18.78	18.35	18.36	24.42	≤ 30.00	Pass

Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)} + 10^{(\text{Port C}/10)} + 10^{(\text{Port D}/10)})$ (dBm).

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14	Test Mode	Mode 12

Frequency (MHz)				Conducted Output Power (dBm)	Limit (dBm)	Test Result
F1	F2	F3	F4			
20mW Power Level						
941.625	941.975	942.325	942.675	15.21	≤ 30.00	Pass
946.750	947.100	947.450	947.800	15.39	≤ 30.00	Pass
951.875	951.525	951.175	950.825	15.34	≤ 30.00	Pass
952.975	953.325	953.675	954.025	15.32	≤ 30.00	Pass
956.125	955.775	955.425	955.075	15.27	≤ 30.00	Pass
956.575	956.925	957.275	957.625	15.29	≤ 30.00	Pass
959.725	959.375	959.025	958.675	15.23	≤ 30.00	Pass

Note: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-11-14	Test Mode	Mode 16

Frequency (MHz)		Conducted Output Power (dBm)		Total Conducted Output Power (dBm)	Limit (dBm)	Test Result
F1	F2	Port A	Port D			
20mW Power Level						
941.900	942.950	16.44	15.92	19.20	≤ 30.00	Pass
946.750	947.825	16.42	16.03	19.24	≤ 30.00	Pass
951.600	950.400	17.12	16.48	19.82	≤ 30.00	Pass
953.250	954.350	16.22	16.03	19.14	≤ 30.00	Pass
955.850	954.350	16.36	16.21	19.30	≤ 30.00	Pass
956.850	955.500	16.20	15.85	19.04	≤ 30.00	Pass
959.450	957.950	16.40	16.05	19.24	≤ 30.00	Pass

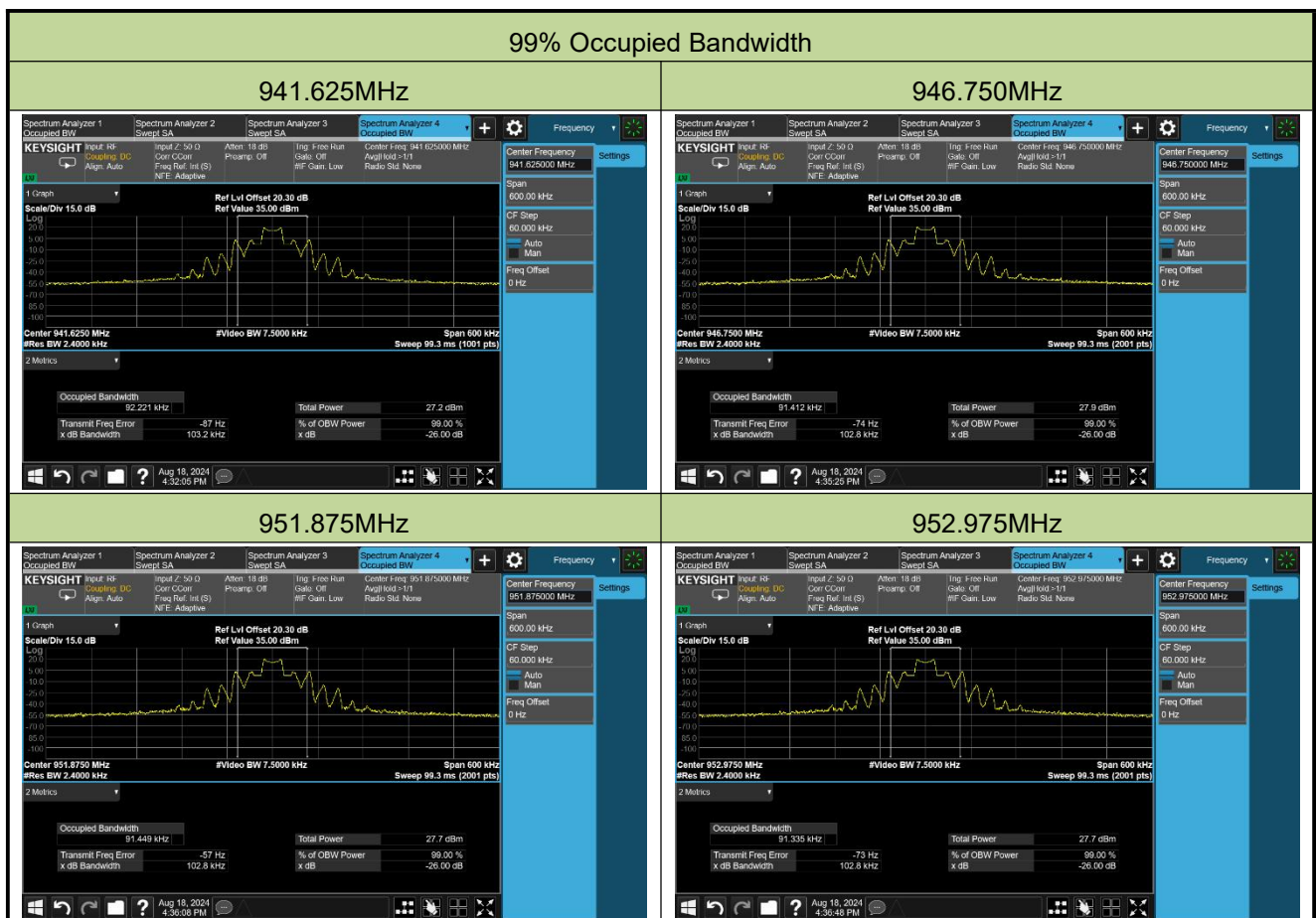
Note 1: Limit = $10 \cdot \log(1000\text{mW}) = 30 \text{ dBm}$.

Note 2: Total Conducted Output Power (dBm) = $10 \cdot \log(10^{(\text{Port A}/10)} + 10^{(\text{Port D}/10)}) \text{ (dBm)}$.

A.2 99% Occupied Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-18	Test Mode	Mode 1

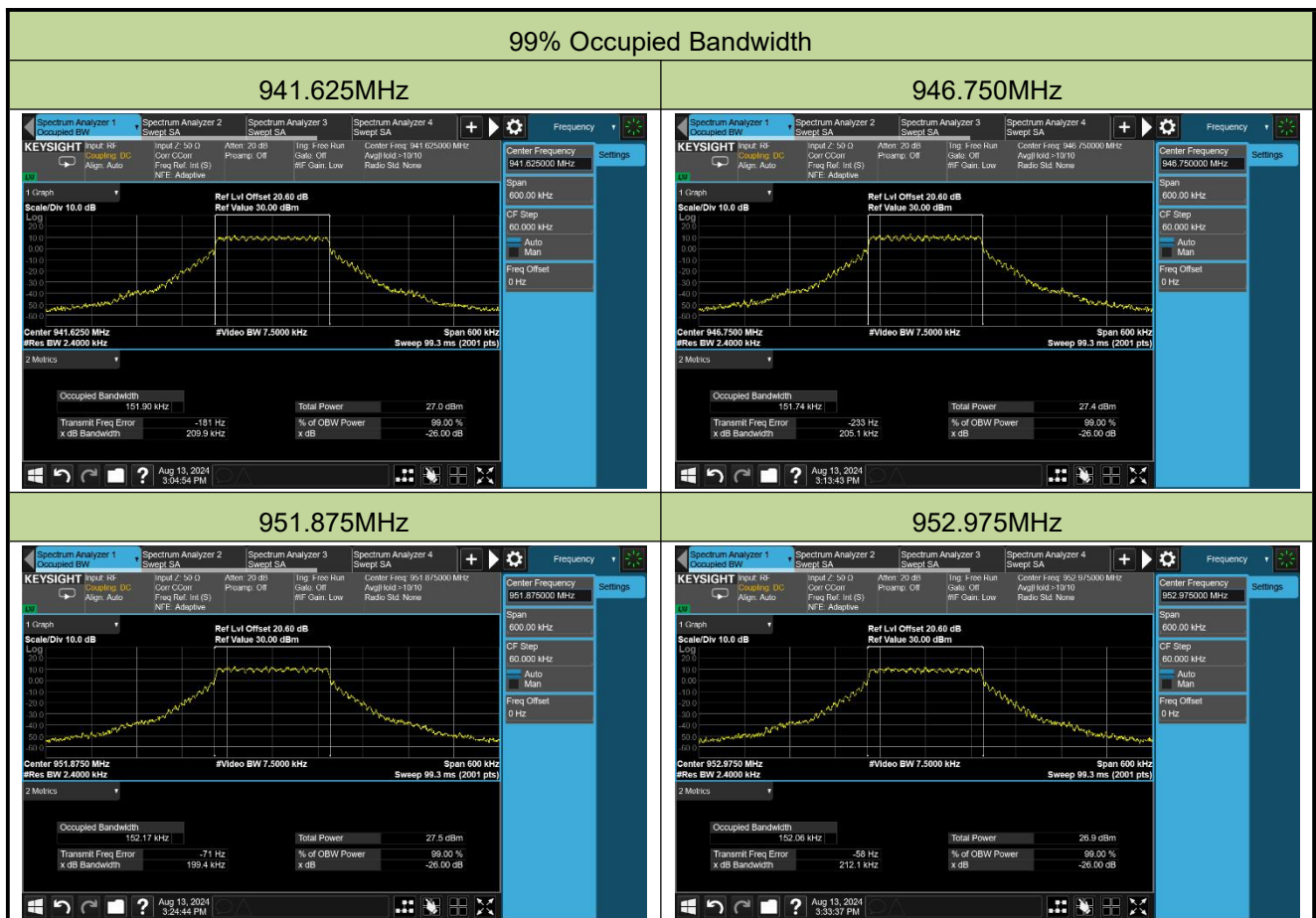
Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.625	92.221	< 200	Pass
946.750	91.412	< 200	Pass
951.875	91.449	< 200	Pass
952.975	91.335	< 200	Pass
956.125	62.964	< 200	Pass
956.575	91.340	< 200	Pass
959.725	91.553	< 200	Pass





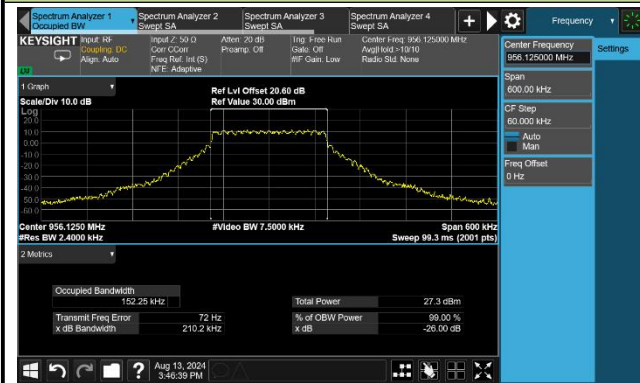
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-13	Test Mode	Mode 3

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.625	151.90	< 200	Pass
946.750	151.74	< 200	Pass
951.875	152.17	< 200	Pass
952.975	152.06	< 200	Pass
956.125	152.25	< 200	Pass
956.575	151.78	< 200	Pass
959.725	152.25	< 200	Pass

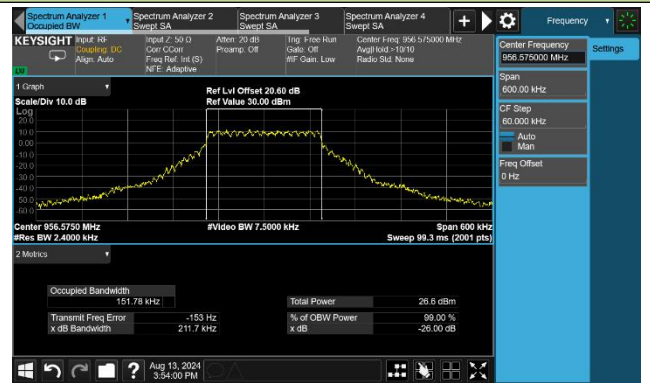


99% Occupied Bandwidth

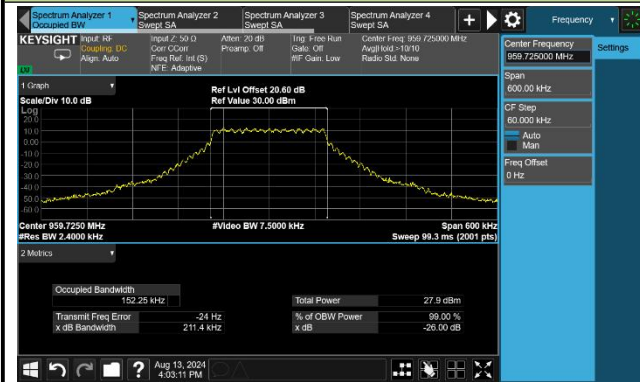
956.125MHz



956.575MHz

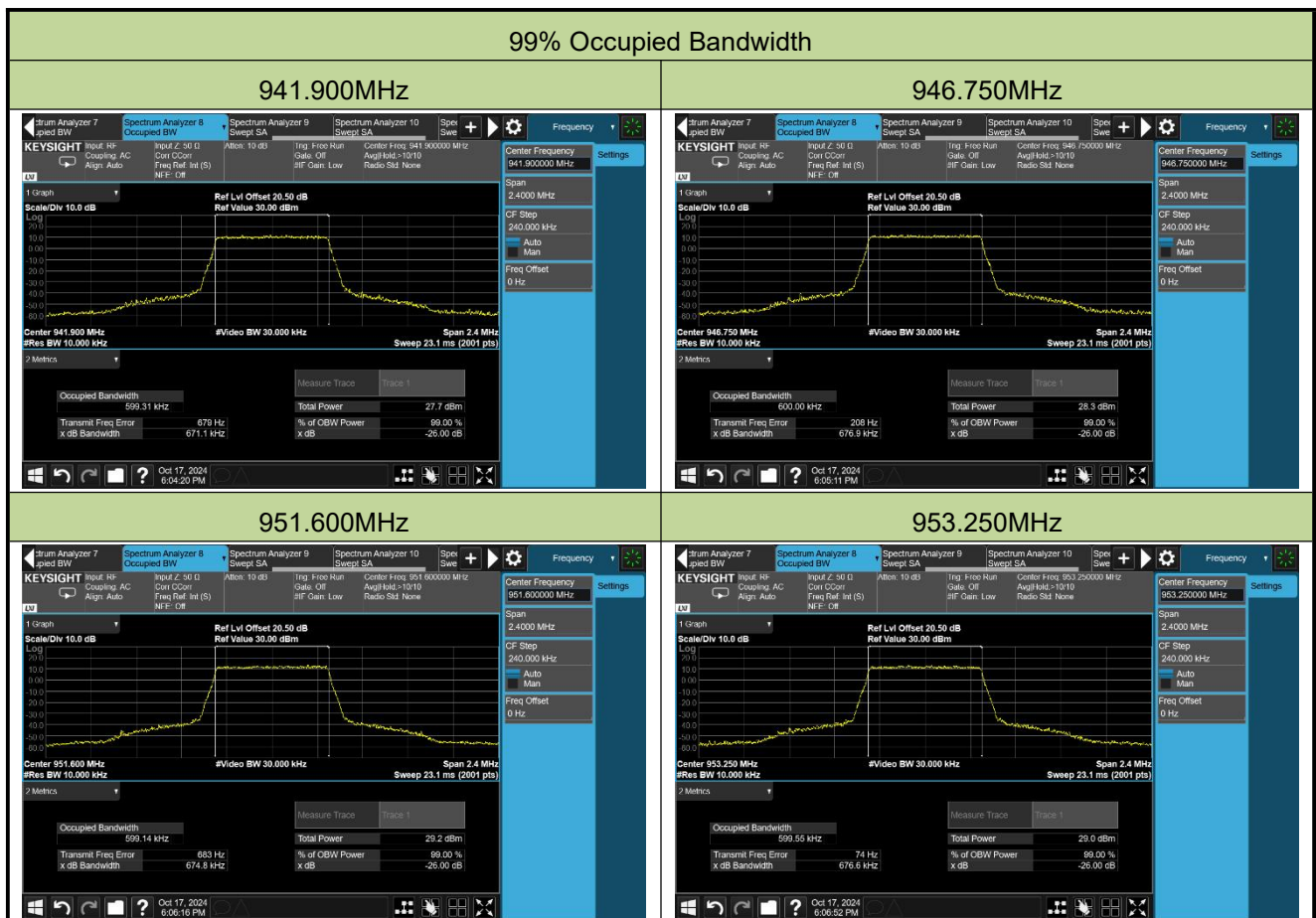


959.725MHz



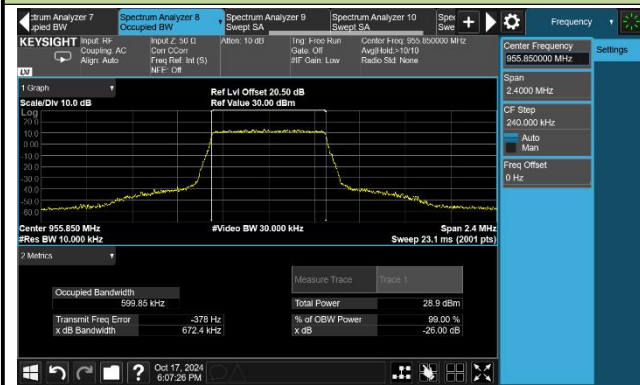
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-17	Test Mode	Mode 7

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.900	599.31	< 6000	Pass
946.750	600.00	< 6000	Pass
951.600	599.14	< 6000	Pass
953.250	599.55	< 6000	Pass
955.850	599.85	< 6000	Pass
956.850	599.56	< 6000	Pass
959.450	599.98	< 6000	Pass

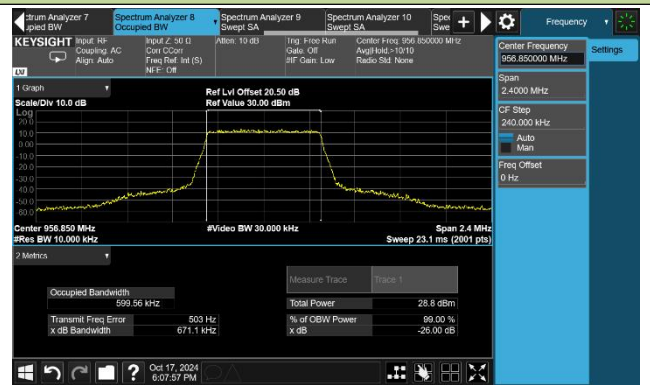


99% Occupied Bandwidth

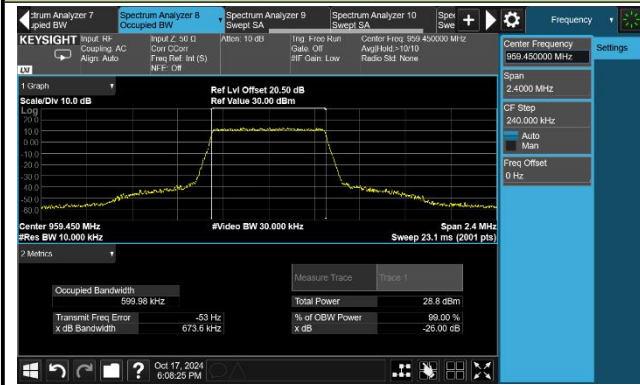
955.850MHz



956.850MHz

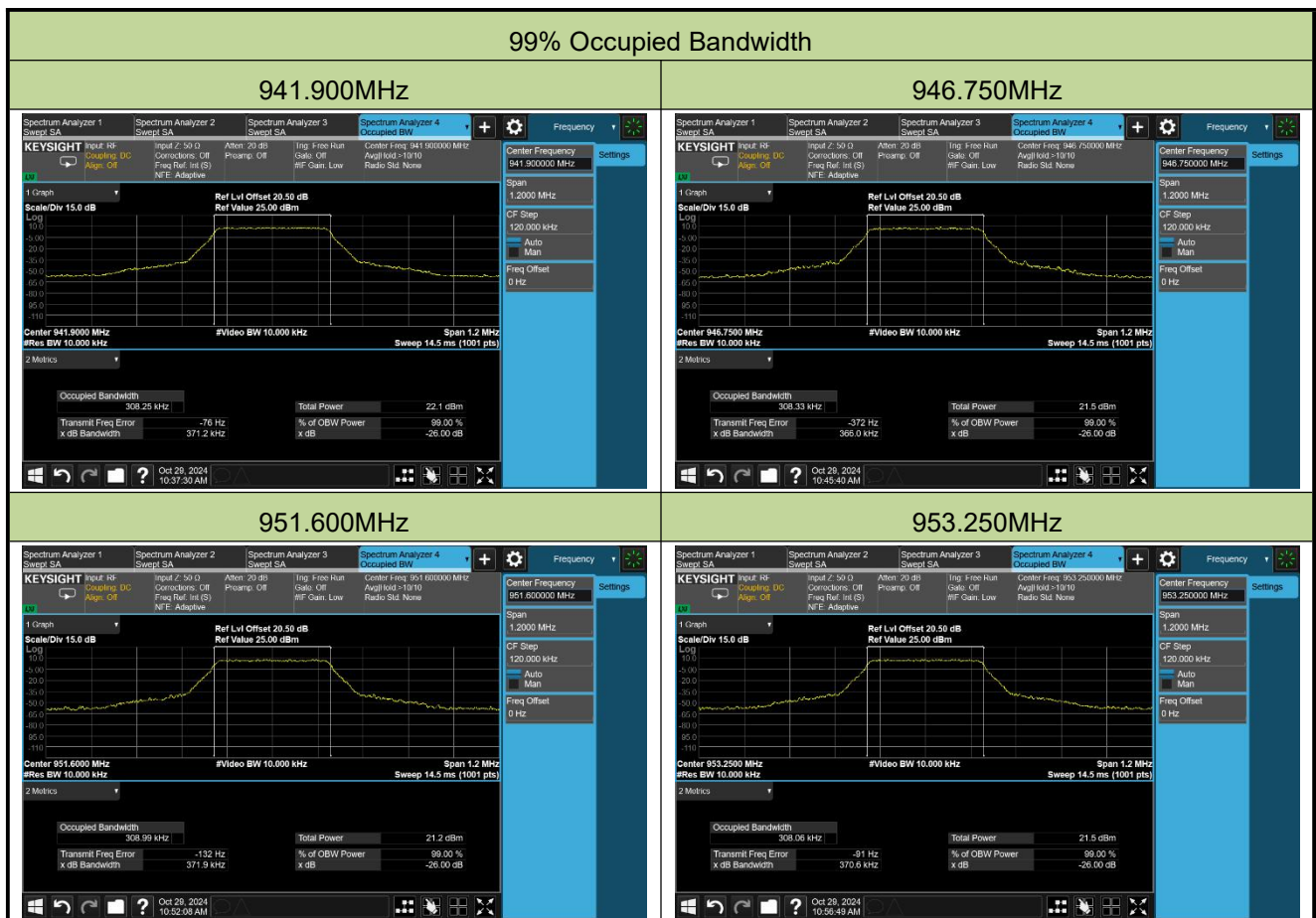


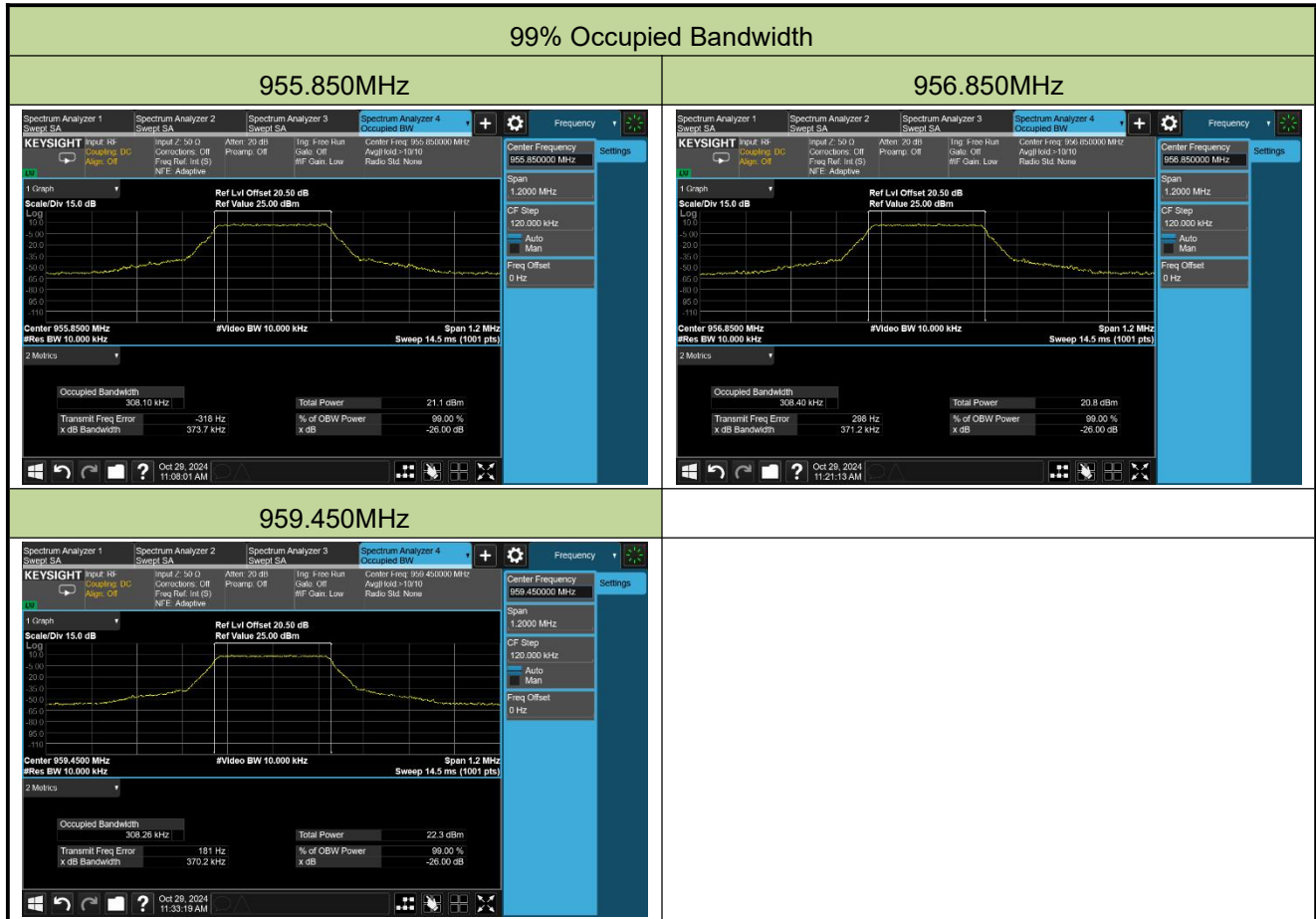
959.450MHz



Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-29	Test Mode	Mode 8

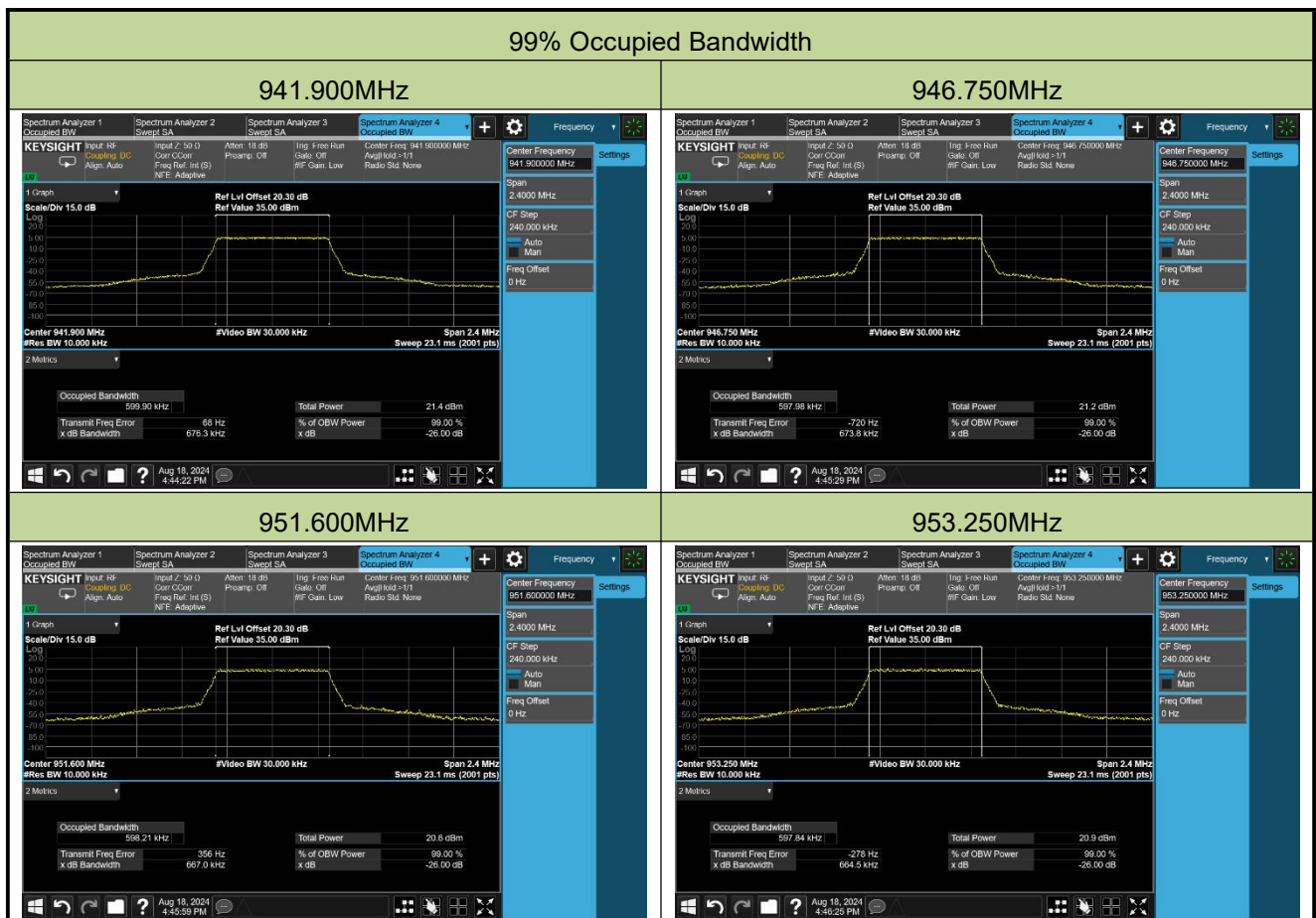
Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.900	308.25	< 6000	Pass
946.750	308.33	< 6000	Pass
951.600	308.99	< 6000	Pass
953.250	308.06	< 6000	Pass
955.850	308.10	< 6000	Pass
956.850	308.40	< 6000	Pass
959.450	308.26	< 6000	Pass





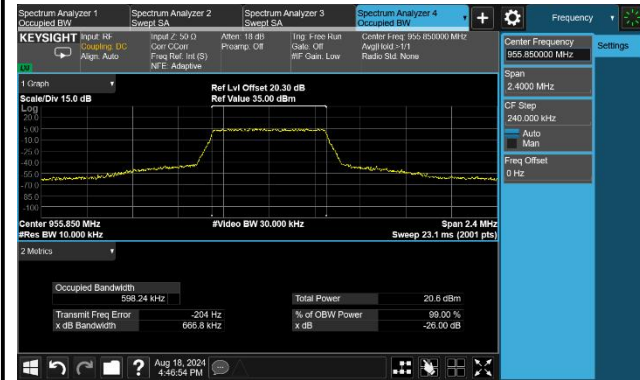
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-18	Test Mode	Mode 9

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.900	599.90	< 6000	Pass
946.750	597.98	< 6000	Pass
951.600	598.21	< 6000	Pass
953.250	597.84	< 6000	Pass
955.850	598.24	< 6000	Pass
956.850	598.07	< 6000	Pass
959.450	596.00	< 6000	Pass

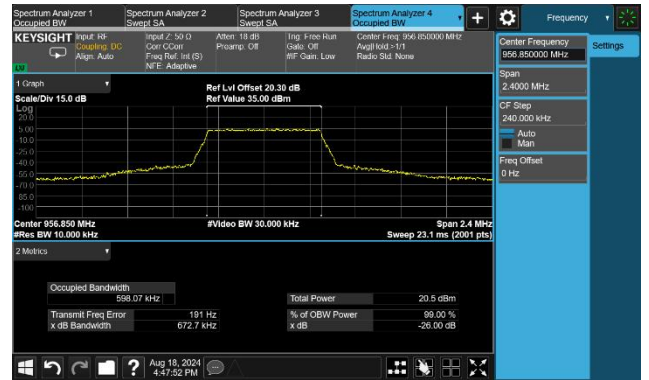


99% Occupied Bandwidth

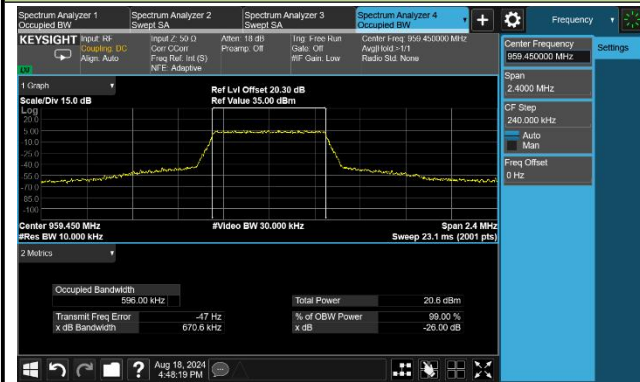
955.850MHz



956.850MHz



959.450MHz



Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-09-13	Test Mode	Mode 11

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
941.625	180.14	< 200	Pass
946.750	180.16	< 200	Pass
951.875	181.06	< 200	Pass
952.975	181.18	< 200	Pass
956.125	181.62	< 200	Pass
956.575	180.65	< 200	Pass
959.725	181.91	< 200	Pass



99% Occupied Bandwidth

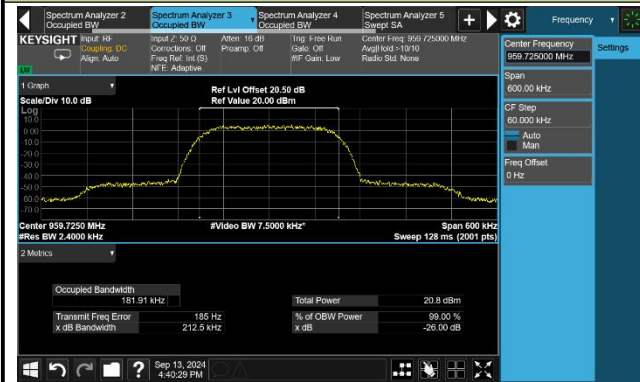
956.125MHz



956.575MHz



959.725MHz

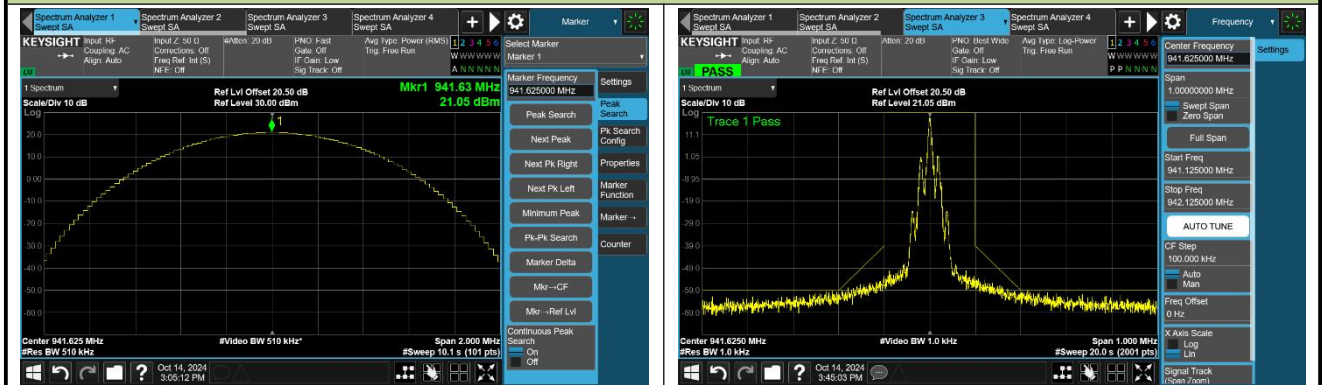


A.3 Emission Mask Test Result

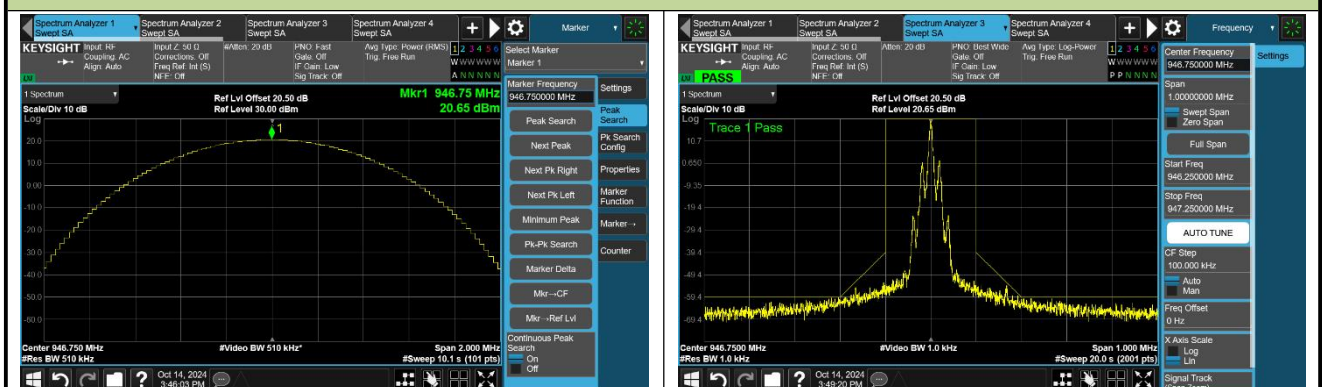
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-10-14 2024-10-16	Test Mode	Mode 1

Port A

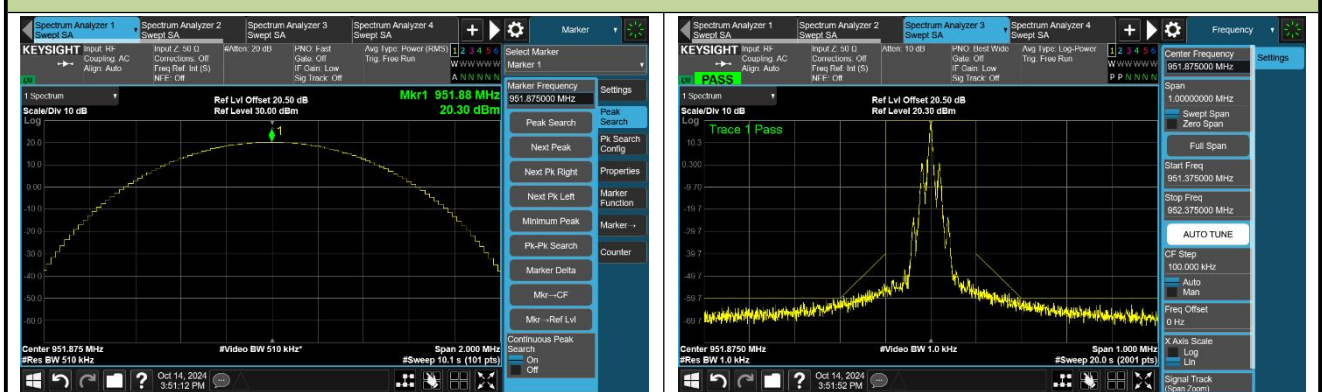
Channel 941.625MHz



Channel 946.750 MHz

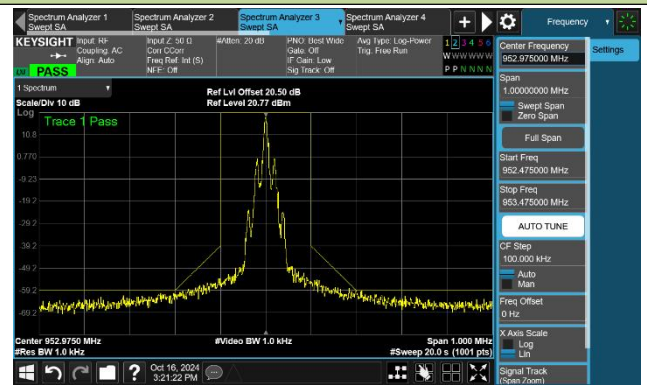


Channel 951.875 MHz

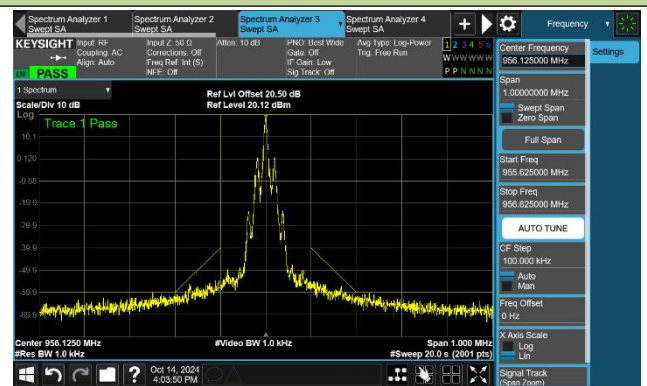


Port A

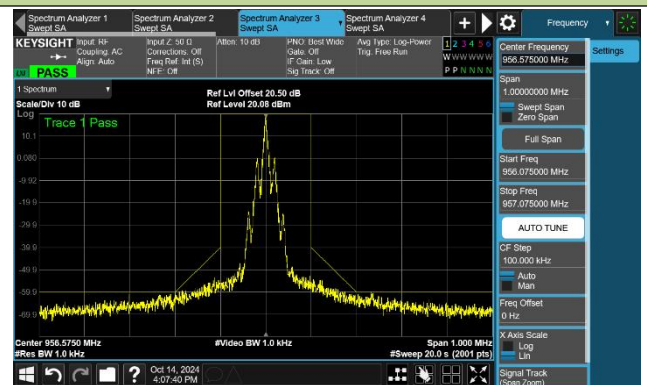
Channel 952.975MHz



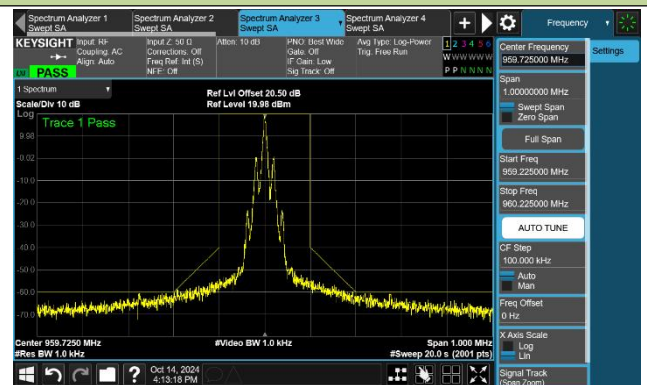
Channel 956.125MHz



Channel 956.575MHz

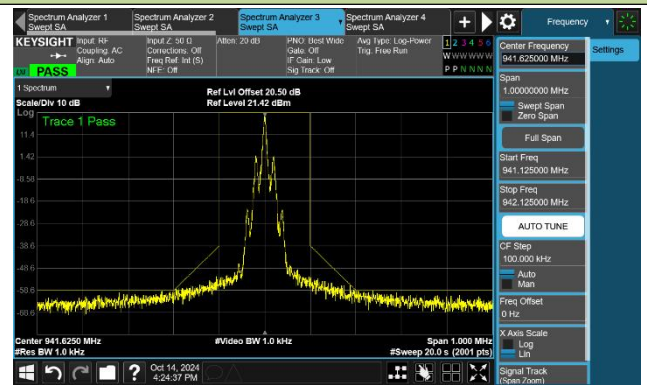


Channel 959.725MHz

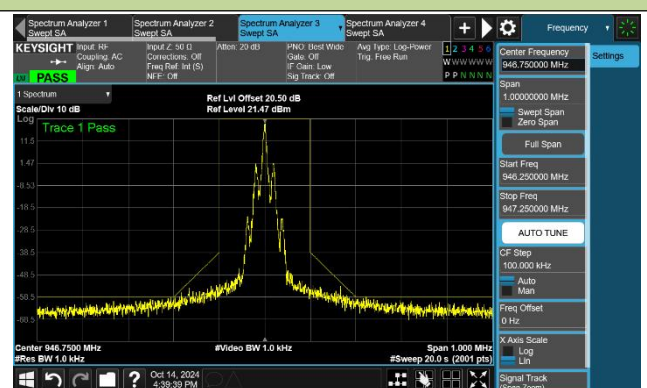


Port B

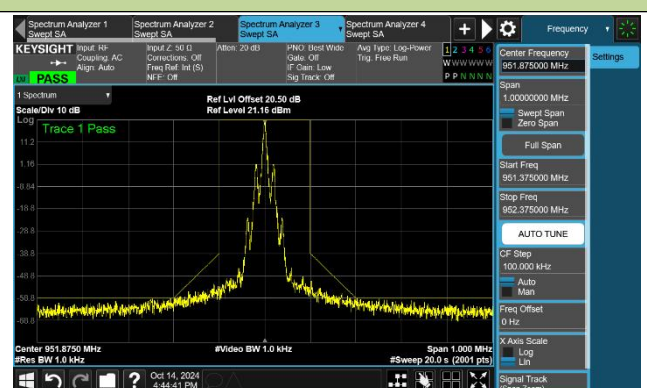
Channel 941.625MHz



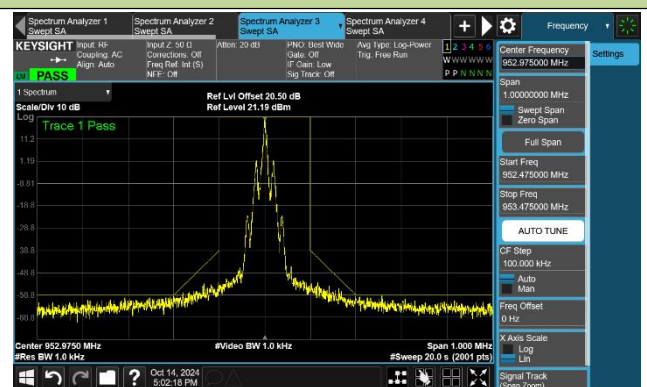
Channel 946.750 MHz



Channel 951.875 MHz

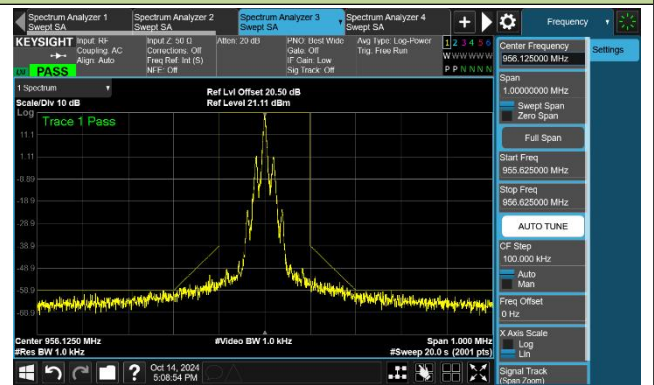


Channel 952.975MHz

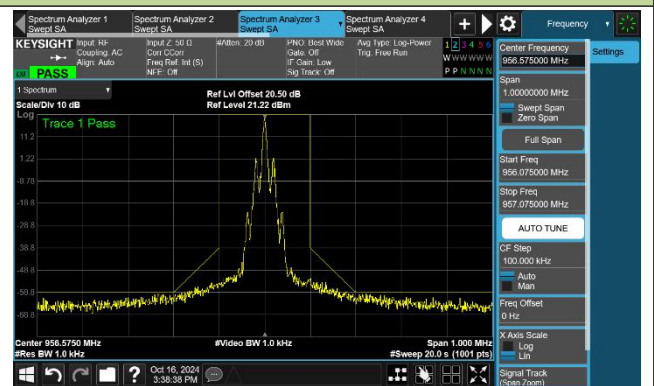


Port B

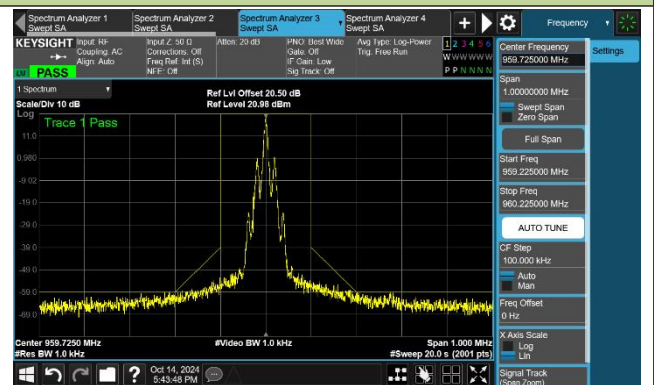
Channel 956.125MHz



Channel 956.575MHz

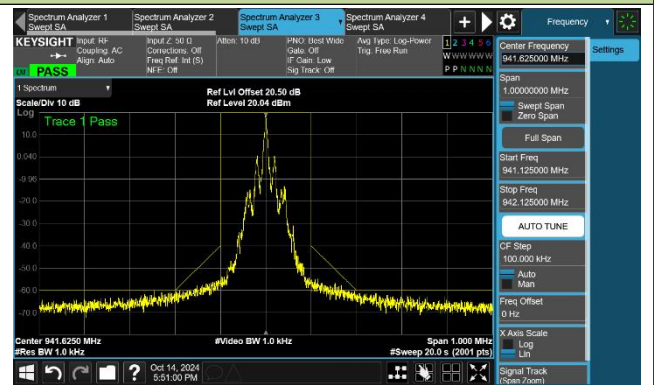


Channel 959.725MHz

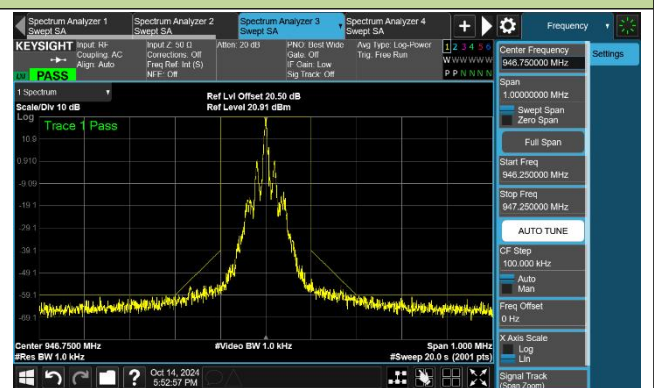


Port C

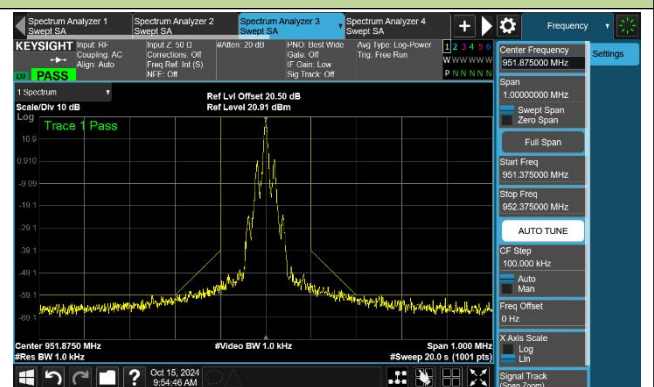
Channel 941.625MHz



Channel 946.750 MHz



Channel 951.875 MHz



Channel 952.975MHz

