

Test Report

Report No. : MTi250515021-0101E1
Date of issue : 2025-07-28
Applicant : INSTAR Deutschland GmbH
Product : IP / NETWORK CAMERA
Model(s) : IN-9808 4K, IN-9806 4K, IN-9809 4K
FCC ID : SO6-IN9808

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	INSTAR Deutschland GmbH	
Applicant Address	Auf der Hostert 17, 65510 Hünstetten, Germany	
Manufacturer	INSTAR Deutschland GmbH	
Manufacturer Address	Auf der Hostert 17, 65510 Hünstetten, Germany	
Product description		
Product name	IP / NETWORK CAMERA	
Trademark	INSTAR	
Model name	IN-9808 4K	
Series Model(s)	IN-9806 4K, IN-9809 4K	
Standards	47 CFR Part 15.247	
Test Method	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02	
Testing Information		
Date of test	2025-06-06 to 2025-06-20	
Test result	Pass	
Prepared by:	Letter Lan	<i>Letter. Lan.</i>
Reviewed by:	David Lee	<i>David. Lee</i>
Approved by:	Lewis Lian	<i>Lewis Lian</i>

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1 General Description

1.1 Description of the EUT

Product name:	IP / NETWORK CAMERA
Model name:	IN-9808 4K
Series Model(s):	IN-9806 4K, IN-9809 4K
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: DC 12V/2A
Accessories:	Cable: Network cable*1
Hardware version:	V1.0
Software version:	V3.9
Test sample(s) number:	MTi250515021-01-R001
RF specification	
Operating frequency range:	802.11b/g/n20:2412~2462 MHz 802.11n40:2422~2452 MHz
Channel number:	11
Modulation type:	IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna(s) type:	Rod-shaped antenna
Antenna(s) gain:	ANT1: 3.56dBi ANT2: 3.56dBi Total: 6.57dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-802.11b
Mode2	TX-802.11g
Mode3	TX-802.11N20
Mode4	TX-802.11N40

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

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Test Channel List

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2437	2462
40	2422	2437	2452

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: CMD (ANT 1)

For power setting, refer to below table.

Mode	2412MHz	2437MHz	2462MHz
802.11b	75	75	75
802.11g	40	40	40
802.11n20	40	40	40
Mode	2422MHz	2437MHz	2452MHz
802.11n40	40	40	40

Test Software: CMD (ANT 2)

For power setting, refer to below table.

Mode	2412MHz	2437MHz	2462MHz
802.11b	75	75	75
802.11g	40	40	40
802.11n20	40	40	40
Mode	2422MHz	2437MHz	2452MHz
802.11n40	40	40	40

Test Software: CMD (Total)

For power setting, refer to below table.

Mode	2412MHz	2437MHz	2462MHz
802.11b	75	75	75
802.11g	40	40	40
802.11n20	40	40	40
Mode	2422MHz	2437MHz	2452MHz
802.11n40	40	40	40

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1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list

Description	Model	Serial No.	Manufacturer
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.
Adapter	XSE-1202000DEX	/	INSTAR Deutschland GmbH

Support cable list

Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR Part 15.247	47 CFR 15.247(e)	Pass
6	RF conducted spurious emissions and band edge measurement	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
7	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass

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3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

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4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2025-03-14	2026-03-13
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2025-03-18	2026-03-17
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2025-03-18	2026-03-17
Emissions in non-restricted frequency bands 6dB Bandwidth Maximum Conducted Output Power Power Spectral Density						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2025-03-18	2026-03-17
2	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2025-03-14	2026-03-13
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2025-03-14	2026-03-13
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2025-03-14	2026-03-13
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2025-03-18	2026-03-17
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2025-03-14	2026-03-13
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2025-03-14	2026-03-13
9	DC Power Supply	Agilent	E3632A	MY40027695	2025-03-18	2026-03-17
Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2025-05-27	2027-05-26
3	Amplifier	Agilent	8449B	3008A01120	2025-03-18	2026-03-17
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2025-03-14	2026-03-13
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2025-03-14	2026-03-13
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2025-05-27	2027-05-26
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2025-03-19	2026-03-18
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22

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No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
4	Amplifier	Hewlett-Packard	8447F	3113A0618 4	2025-03- 18	2026-03- 17

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5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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5.1.1 Conclusion:

The antenna of the EUT is permanently attached.
The EUT complies with the requirement of FCC PART 15.203.

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6 Radio Spectrum Matter Test Results (RF)

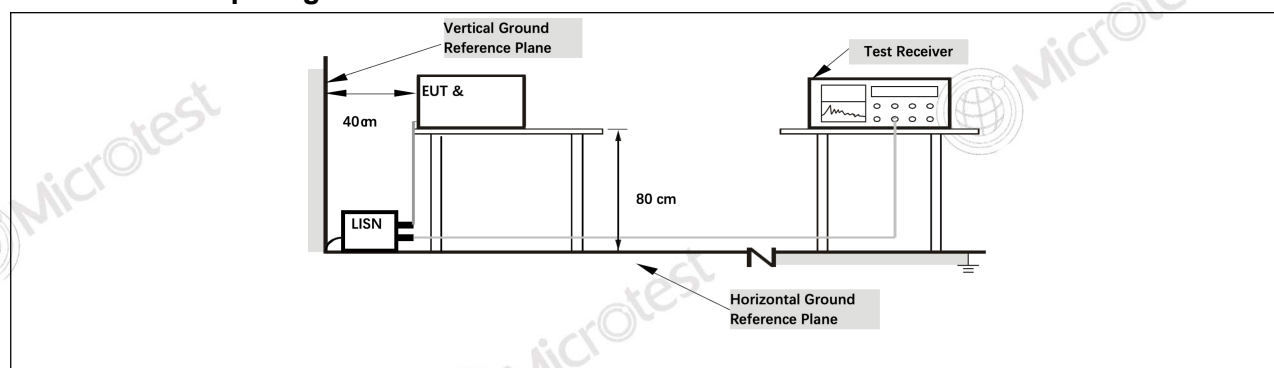
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.10-2013 section 6.2		
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.9 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				

6.1.2 Test Setup Diagram:

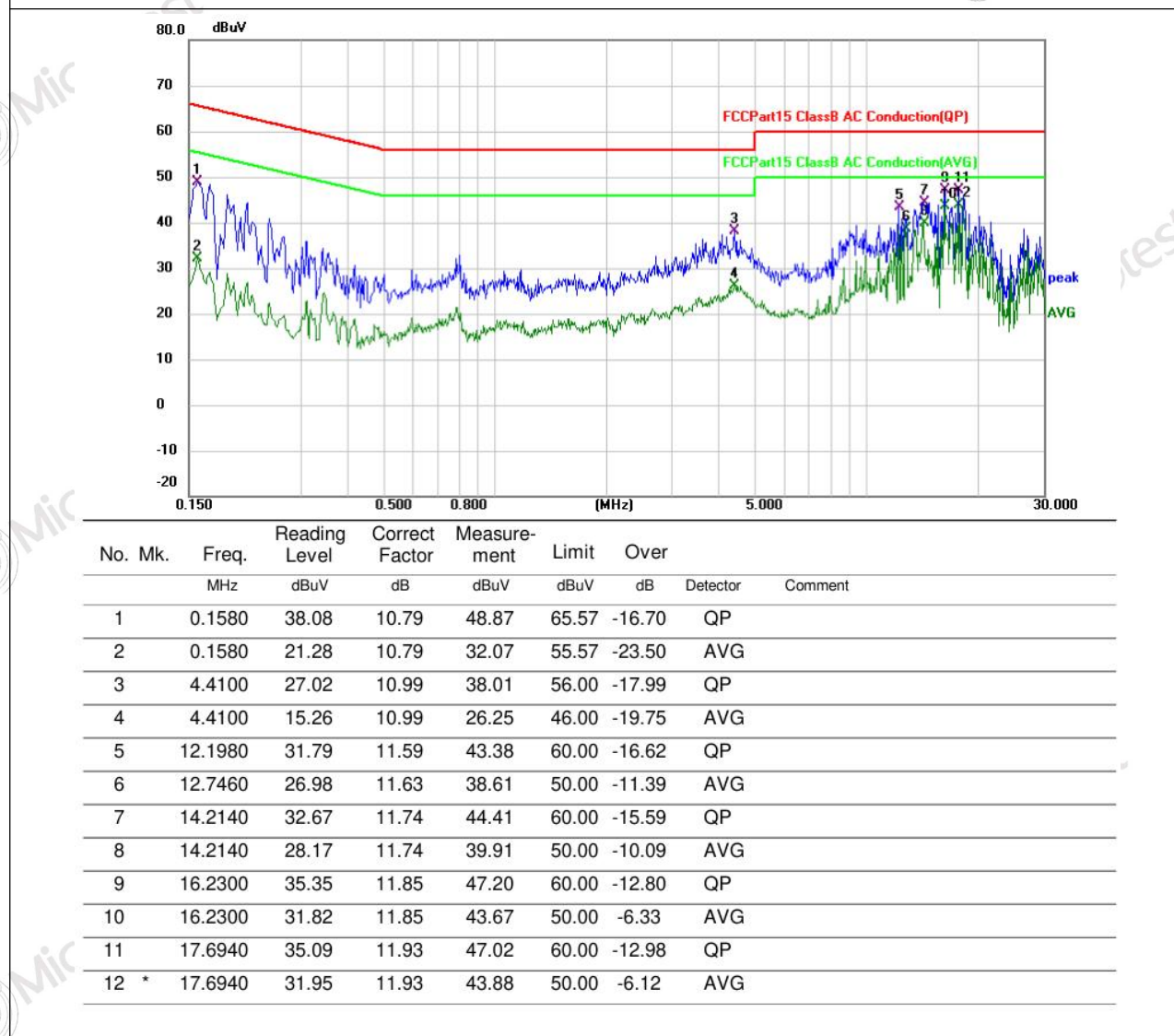


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6.1.3 Test Data:

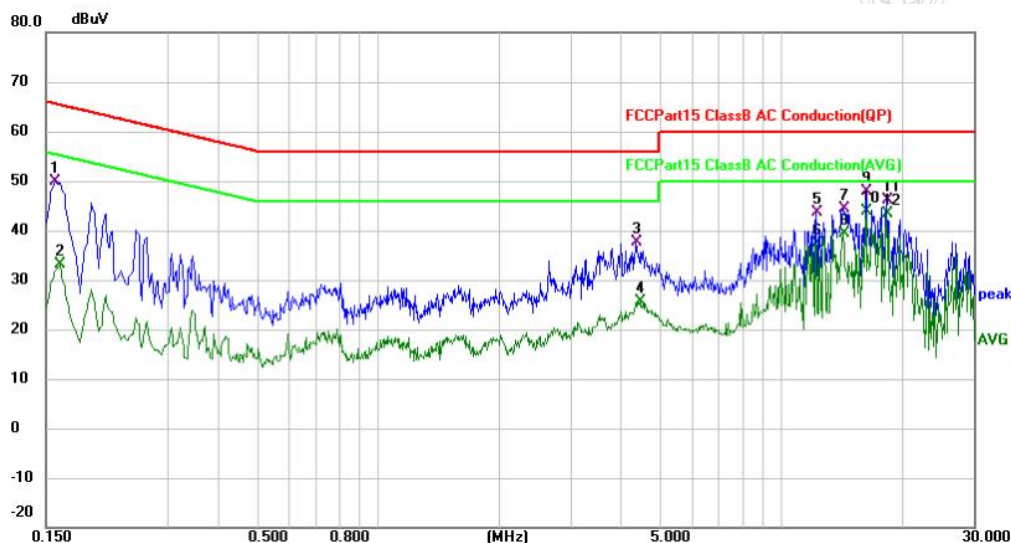
Mode1 / Line: Line / CH: L



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Mode1 / Line: Neutral / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	39.07	10.69	49.76	65.57	-15.81	QP	
2		0.1620	22.32	10.69	33.01	55.36	-22.35	AVG	
3		4.3460	26.64	10.88	37.52	56.00	-18.48	QP	
4		4.4740	14.63	10.89	25.52	46.00	-20.48	AVG	
5		12.1980	32.15	11.49	43.64	60.00	-16.36	QP	
6		12.1980	25.81	11.49	37.30	50.00	-12.70	AVG	
7		14.2140	32.65	11.63	44.28	60.00	-15.72	QP	
8		14.2140	27.75	11.63	39.38	50.00	-10.62	AVG	
9		16.2300	36.09	11.73	47.82	60.00	-12.18	QP	
10	*	16.2300	32.08	11.73	43.81	50.00	-6.19	AVG	
11		18.2420	34.39	11.84	46.23	60.00	-13.77	QP	
12		18.2420	31.62	11.84	43.46	50.00	-6.54	AVG	

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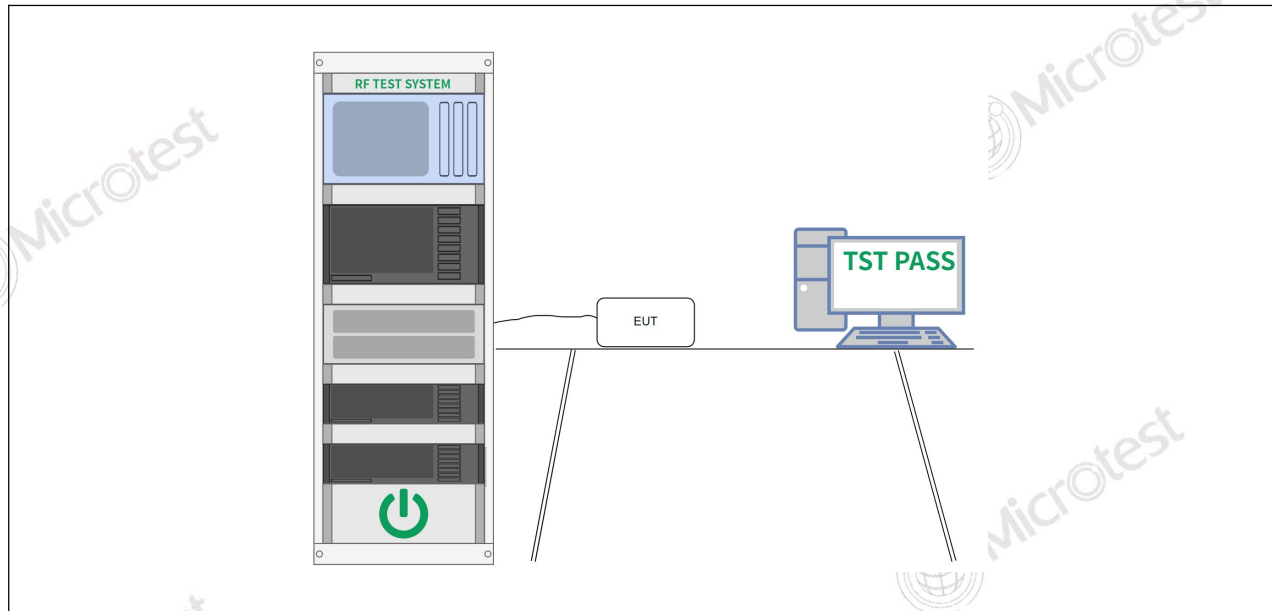
6.2 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	19.4 °C	Humidity:	51.7 %	Atmospheric Pressure:	100 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

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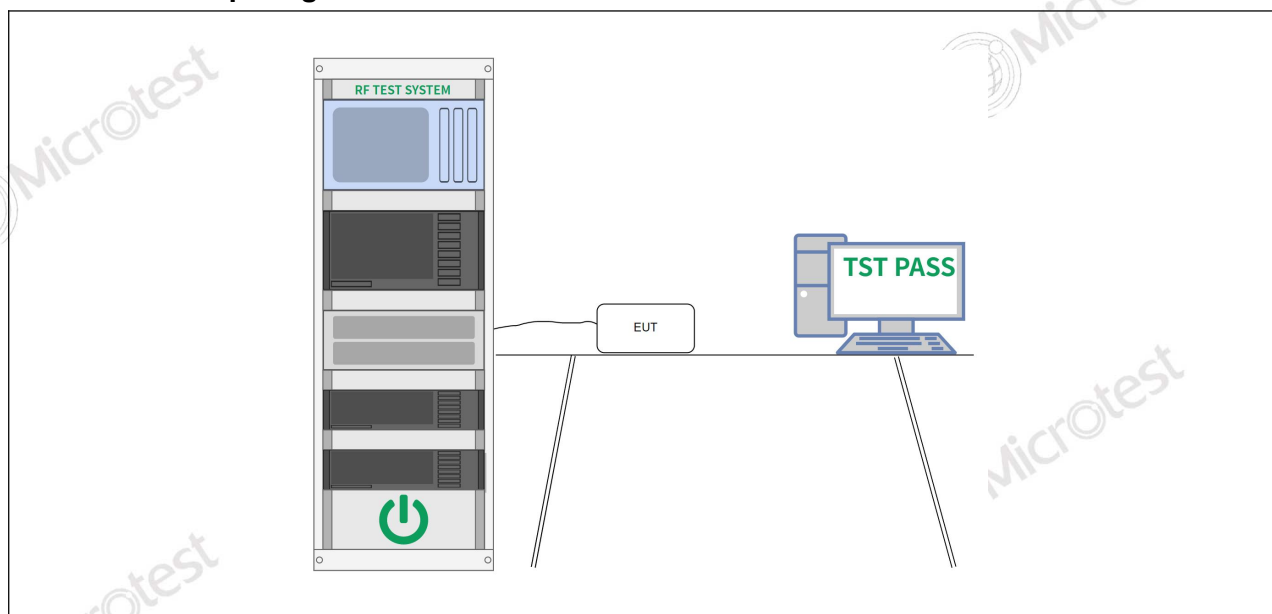
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1.3 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	19.4 °C	Humidity:	51.7 %	Atmospheric Pressure:	100 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

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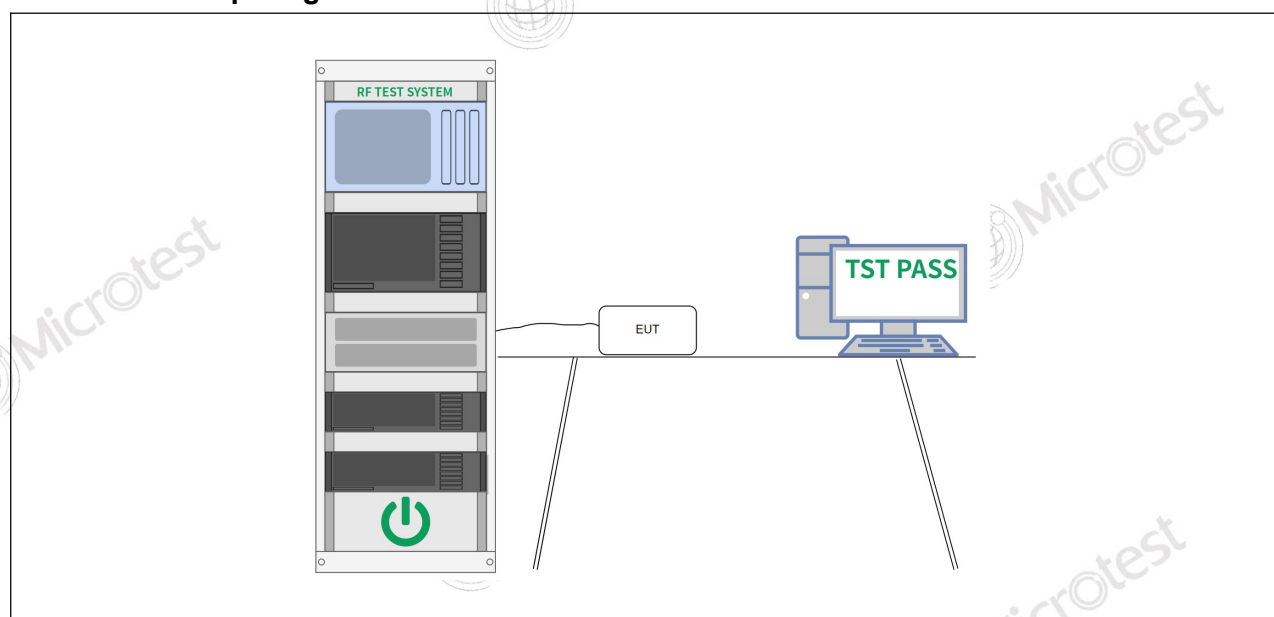
6.4 Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10.2, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	19.4 °C	Humidity:	51.7 %	Atmospheric Pressure:	100 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

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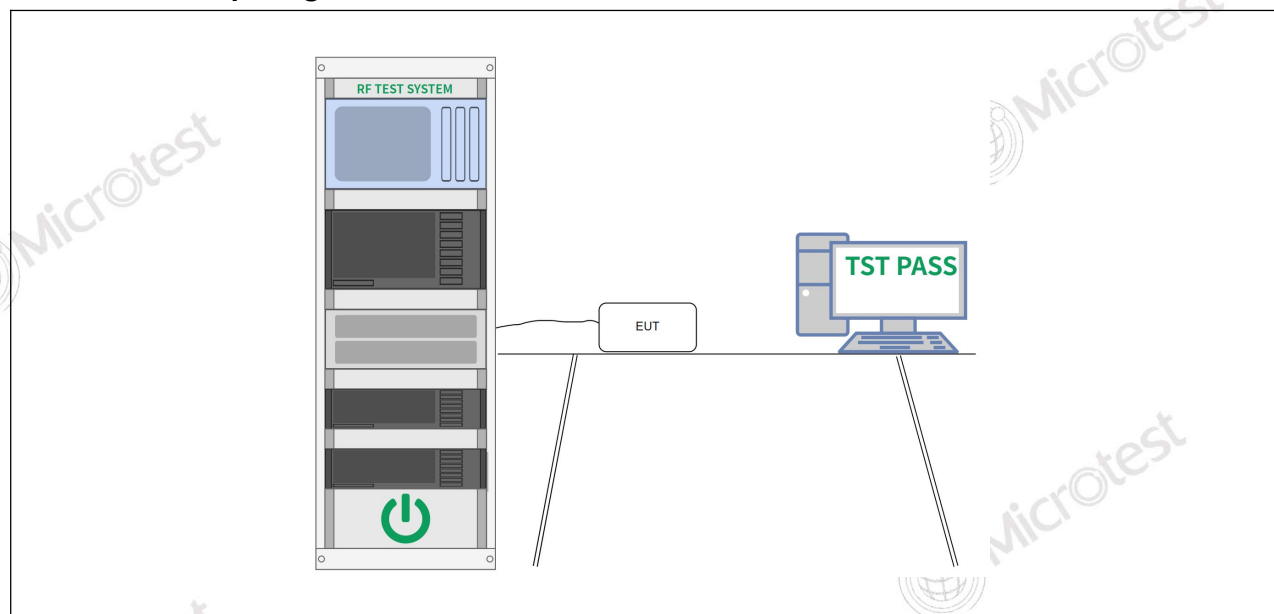
6.5 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	19.4 °C	Humidity:	51.7 %	Atmospheric Pressure:	100 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

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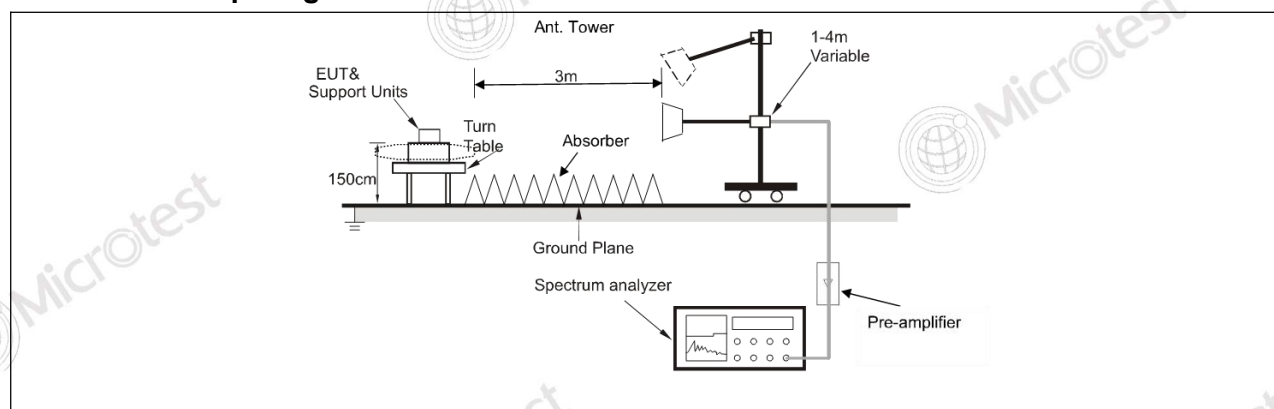
6.6 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.10.5.2		

6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.7 °C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, ode3				
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.					

6.6.2 Test Setup Diagram:



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6.6.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

ANT1:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	52.06	-4.37	47.69	74.00	-26.31	peak
2		2310.000	42.52	-4.37	38.15	54.00	-15.85	AVG
3		2390.000	53.81	-4.17	49.64	74.00	-24.36	peak
4	*	2390.000	43.36	-4.17	39.19	54.00	-14.81	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	54.02	-4.37	49.65	74.00	-24.35	peak
2		2310.000	43.92	-4.37	39.55	54.00	-14.45	AVG
3		2390.000	58.96	-4.17	54.79	74.00	-19.21	peak
4	*	2390.000	46.92	-4.17	42.75	54.00	-11.25	AVG

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Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	56.41	-4.08	52.33	74.00	-21.67	peak
2	*	2483.500	43.01	-4.08	38.93	54.00	-15.07	AVG
3		2500.000	51.06	-4.00	47.06	74.00	-26.94	peak
4		2500.000	41.23	-4.00	37.23	54.00	-16.77	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	61.96	-4.08	57.88	74.00	-16.12	peak
2	*	2483.500	46.79	-4.08	42.71	54.00	-11.29	AVG
3		2500.000	54.76	-4.00	50.76	74.00	-23.24	peak
4		2500.000	44.81	-4.00	40.81	54.00	-13.19	AVG

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Mode1 / Polarization: Horizontal / CH: L

ANT2

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	52.27	-4.37	47.90	74.00	-26.10	peak
2		2310.000	42.24	-4.37	37.87	54.00	-16.13	AVG
3		2390.000	52.37	-4.17	48.20	74.00	-25.80	peak
4	*	2390.000	42.74	-4.17	38.57	54.00	-15.43	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	53.12	-4.37	48.75	74.00	-25.25	peak
2		2310.000	43.04	-4.37	38.67	54.00	-15.33	AVG
3		2390.000	58.26	-4.17	54.09	74.00	-19.91	peak
4	*	2390.000	46.60	-4.17	42.43	54.00	-11.57	AVG

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Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	52.57	-4.08	48.49	74.00	-25.51	peak
2	*	2483.500	39.74	-4.08	35.66	54.00	-18.34	AVG
3		2500.000	49.48	-4.00	45.48	74.00	-28.52	peak
4		2500.000	38.91	-4.00	34.91	54.00	-19.09	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	59.17	-4.08	55.09	74.00	-18.91	peak
2	*	2483.500	44.63	-4.08	40.55	54.00	-13.45	AVG
3		2500.000	52.61	-4.00	48.61	74.00	-25.39	peak
4		2500.000	42.76	-4.00	38.76	54.00	-15.24	AVG

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Mode3/ Polarization: Horizontal / CH: L

Total:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	53.04	-4.37	48.67	74.00	-25.33	peak
2		2310.000	42.28	-4.37	37.91	54.00	-16.09	AVG
3		2390.000	52.93	-4.17	48.76	74.00	-25.24	peak
4	*	2390.000	43.31	-4.17	39.14	54.00	-14.86	AVG

Mode3/ Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	52.87	-4.37	48.50	74.00	-25.50	peak
2		2310.000	43.19	-4.37	38.82	54.00	-15.18	AVG
3		2390.000	60.31	-4.17	56.14	74.00	-17.86	peak
4	*	2390.000	48.49	-4.17	44.32	54.00	-9.68	AVG

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Mode3/ Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	68.82	-4.08	64.74	74.00	-9.26	peak
2	*	2483.500	48.83	-4.08	44.75	54.00	-9.25	AVG
3		2500.000	55.75	-4.00	51.75	74.00	-22.25	peak
4		2500.000	44.72	-4.00	40.72	54.00	-13.28	AVG

Mode3/ Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	62.51	-4.08	58.43	74.00	-15.57	peak
2	*	2483.500	45.00	-4.08	40.92	54.00	-13.08	AVG
3		2500.000	54.11	-4.00	50.11	74.00	-23.89	peak
4		2500.000	43.63	-4.00	39.63	54.00	-14.37	AVG

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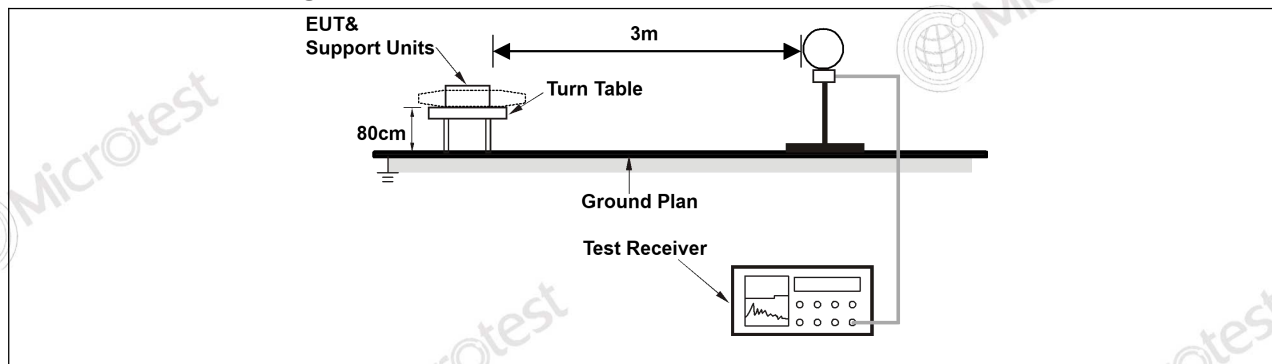
6.7 Radiated emissions (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.7.1 E.U.T. Operation:

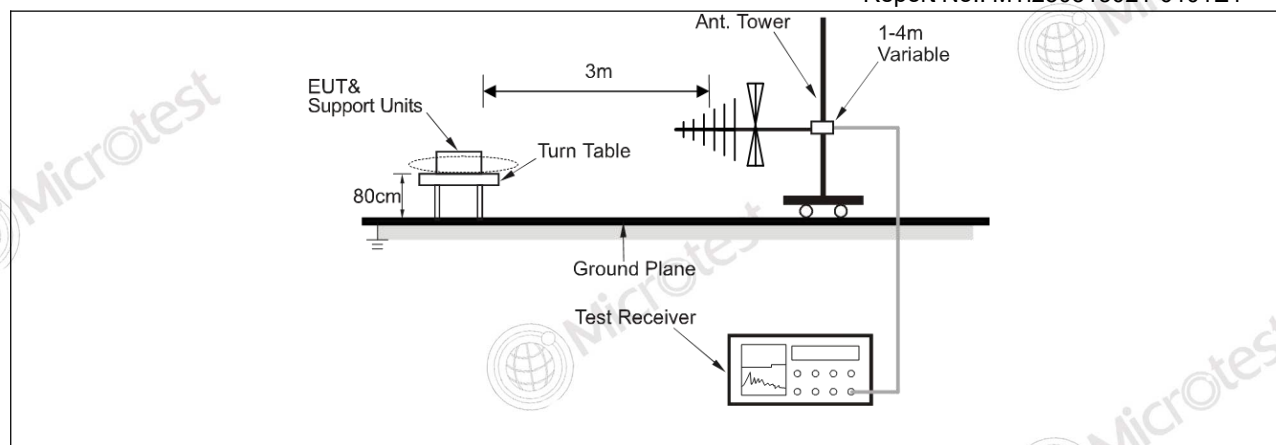
Operating Environment:					
Temperature:	25.7 °C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3, Mode4			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1, 3 is recorded in the report			
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.					

6.7.2 Test Setup Diagram:



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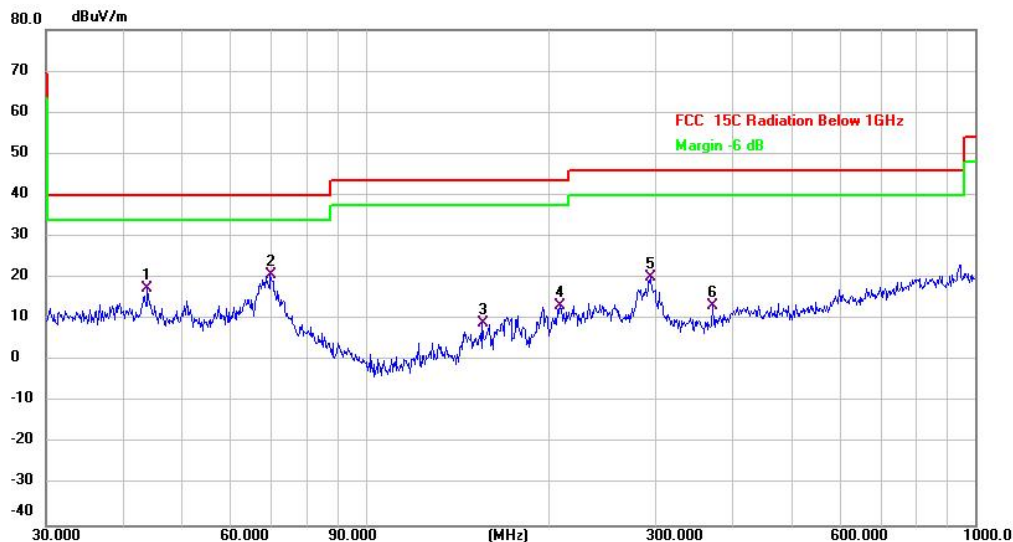
TEST REPORT

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6.7.3 Test Data:

Mode1 / Polarization: Horizontal / CH: H

ANT1:



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	43.9658	32.28	-14.90	17.38	40.00	-22.62	QP	
2 *	69.8450	41.47	-20.68	20.79	40.00	-19.21	QP	
3	155.3644	29.91	-20.79	9.12	43.50	-34.38	QP	
4	209.3129	32.69	-19.40	13.29	43.50	-30.21	QP	
5	294.1137	36.16	-16.02	20.14	46.00	-25.86	QP	
6	372.0045	28.63	-15.48	13.15	46.00	-32.85	QP	

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Mode1 / Polarization: Vertical / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		36.5092	44.54	-24.47	20.07	40.00	-19.93	QP	
2	*	67.9129	43.58	-20.27	23.31	40.00	-16.69	QP	
3		171.9946	31.18	-17.37	13.81	43.50	-29.69	QP	
4		195.8220	39.22	-20.98	18.24	43.50	-25.26	QP	
5		416.1791	29.19	-14.24	14.95	46.00	-31.05	QP	
6		633.9073	29.34	-11.57	17.77	46.00	-28.23	QP	

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Mode1 / Polarization: Horizontal / CH: H

ANT2:



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	44.2752	28.43	-14.95	13.48	40.00	-26.52	QP	
2 *	69.8450	40.78	-20.68	20.10	40.00	-19.90	QP	
3	159.2251	28.83	-20.70	8.13	43.50	-35.37	QP	
4	232.5318	28.83	-15.10	13.73	46.00	-32.27	QP	
5	292.0583	36.53	-15.98	20.55	46.00	-25.45	QP	
6	618.5369	27.25	-10.96	16.29	46.00	-29.71	QP	

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Mode1 / Polarization: Vertical / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		33.6802	45.72	-25.03	20.69	40.00	-19.31	QP	
2	*	67.9129	43.68	-20.27	23.41	40.00	-16.59	QP	
3		169.5990	30.95	-17.30	13.65	43.50	-29.85	QP	
4		196.5098	39.29	-21.42	17.87	43.50	-25.63	QP	
5		422.0577	29.59	-14.43	15.16	46.00	-30.84	QP	
6		620.7096	27.85	-11.61	16.24	46.00	-29.76	QP	

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Mode1 / Polarization: Horizontal / CH: H

Total:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	70.0903	41.10	-20.77	20.33	40.00	-19.67	QP	
2		147.4036	31.03	-19.16	11.87	43.50	-31.63	QP	
3		229.2931	30.51	-15.80	14.71	46.00	-31.29	QP	
4		291.0360	35.78	-15.97	19.81	46.00	-26.19	QP	
5		372.0045	33.04	-15.48	17.56	46.00	-28.44	QP	
6		590.9737	27.50	-10.73	16.77	46.00	-29.23	QP	

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Mode1 / Polarization: Vertical / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		36.6375	44.65	-24.41	20.24	40.00	-19.76	QP	
2	*	70.0903	43.40	-19.83	23.57	40.00	-16.43	QP	
3		171.3926	31.76	-17.33	14.43	43.50	-29.07	QP	
4		195.8220	40.62	-20.98	19.64	43.50	-23.86	QP	
5		407.5145	30.83	-13.90	16.93	46.00	-29.07	QP	
6		661.1505	27.60	-9.64	17.96	46.00	-28.04	QP	

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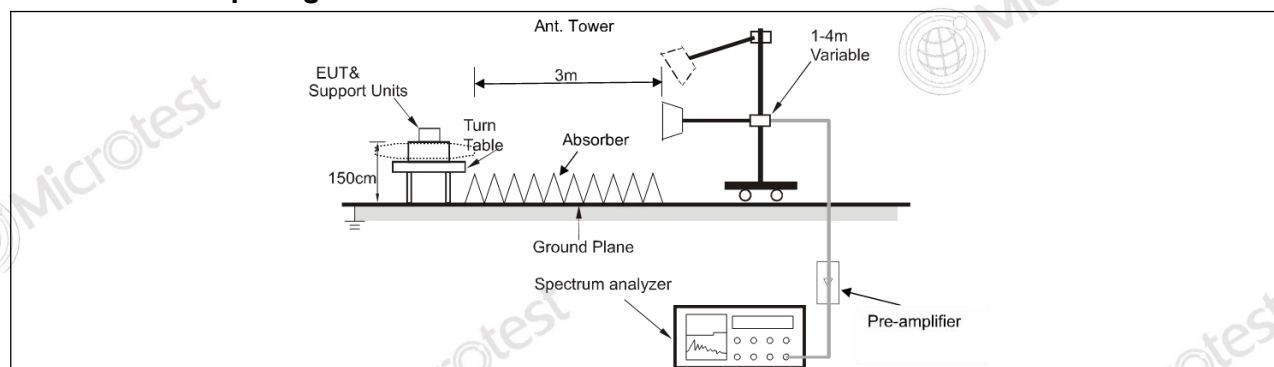
6.8 Radiated emissions (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.7 °C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3, Mode4			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1, 3) is recorded in the report			
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.					

6.8.2 Test Setup Diagram:



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6.8.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

ANT1:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	42.41	1.87	44.28	74.00	-29.72	peak
2		4824.000	36.39	1.87	38.26	54.00	-15.74	AVG
3		7236.000	43.86	7.42	51.28	74.00	-22.72	peak
4		7236.000	38.05	7.42	45.47	54.00	-8.53	AVG
5		9648.000	44.42	9.08	53.50	74.00	-20.50	peak
6	*	9648.000	38.39	9.08	47.47	54.00	-6.53	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	43.06	1.87	44.93	74.00	-29.07	peak
2		4824.000	36.39	1.87	38.26	54.00	-15.74	AVG
3		7236.000	43.45	7.42	50.87	74.00	-23.13	peak
4		7236.000	36.96	7.42	44.38	54.00	-9.62	AVG
5		9648.000	45.46	9.08	54.54	74.00	-19.46	peak
6	*	9648.000	39.41	9.08	48.49	54.00	-5.51	AVG

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Mode1 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4874.000	43.49	2.15	45.64	74.00	-28.36	peak
2		4874.000	37.10	2.15	39.25	54.00	-14.75	AVG
3		7311.000	42.82	7.76	50.58	74.00	-23.42	peak
4		7311.000	36.71	7.76	44.47	54.00	-9.53	AVG
5		9748.000	44.20	9.43	53.63	74.00	-20.37	peak
6	*	9748.000	37.93	9.43	47.36	54.00	-6.64	AVG

Mode1 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4874.000	43.04	2.15	45.19	74.00	-28.81	peak
2		4874.000	37.10	2.15	39.25	54.00	-14.75	AVG
3		7311.000	43.18	7.76	50.94	74.00	-23.06	peak
4		7311.000	37.98	7.76	45.74	54.00	-8.26	AVG
5		9748.000	44.89	9.43	54.32	74.00	-19.68	peak
6	*	9748.000	38.83	9.43	48.26	54.00	-5.74	AVG

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Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	42.82	2.48	45.30	74.00	-28.70	peak
2		4924.000	37.09	2.48	39.57	54.00	-14.43	AVG
3		7386.000	42.90	7.80	50.70	74.00	-23.30	peak
4		7386.000	36.94	7.80	44.74	54.00	-9.26	AVG
5		9848.000	44.93	9.57	54.50	74.00	-19.50	peak
6	*	9848.000	38.78	9.57	48.35	54.00	-5.65	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	45.88	2.48	48.36	74.00	-25.64	peak
2		4924.000	39.90	2.48	42.38	54.00	-11.62	AVG
3		7386.000	43.30	7.80	51.10	74.00	-22.90	peak
4		7386.000	37.67	7.80	45.47	54.00	-8.53	AVG
5		9848.000	43.94	9.57	53.51	74.00	-20.49	peak
6	*	9848.000	37.82	9.57	47.39	54.00	-6.61	AVG

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Mode1 / Polarization: Horizontal / CH: L

ANT2:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	43.03	2.48	45.51	74.00	-28.49	peak
2		4924.000	36.77	2.48	39.25	54.00	-14.75	AVG
3		7386.000	43.58	7.80	51.38	74.00	-22.62	peak
4		7386.000	37.61	7.80	45.41	54.00	-8.59	AVG
5		9848.000	44.04	9.57	53.61	74.00	-20.39	peak
6	*	9848.000	37.75	9.57	47.32	54.00	-6.68	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	43.89	2.48	46.37	74.00	-27.63	peak
2		4924.000	37.84	2.48	40.32	54.00	-13.68	AVG
3		7386.000	43.10	7.80	50.90	74.00	-23.10	peak
4		7386.000	36.39	7.80	44.19	54.00	-9.81	AVG
5		9848.000	44.01	9.57	53.58	74.00	-20.42	peak
6	*	9848.000	37.81	9.57	47.38	54.00	-6.62	AVG

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Mode1 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	42.71	1.87	44.58	74.00	-29.42	peak
2		4824.000	36.38	1.87	38.25	54.00	-15.75	AVG
3		7236.000	42.63	7.42	50.05	74.00	-23.95	peak
4		7236.000	37.23	7.42	44.65	54.00	-9.35	AVG
5		9648.000	45.20	9.08	54.28	74.00	-19.72	peak
6	*	9648.000	39.09	9.08	48.17	54.00	-5.83	AVG

Mode1 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	43.65	1.87	45.52	74.00	-28.48	peak
2		4824.000	37.38	1.87	39.25	54.00	-14.75	AVG
3		7236.000	42.42	7.42	49.84	74.00	-24.16	peak
4		7236.000	35.70	7.42	43.12	54.00	-10.88	AVG
5		9648.000	45.65	9.08	54.73	74.00	-19.27	peak
6	*	9648.000	39.39	9.08	48.47	54.00	-5.53	AVG

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Mode1 / Polarization: Horizontal / CH: H

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4874.000	43.46	2.15	45.61	74.00	-28.39	peak
2	4874.000	37.10	2.15	39.25	54.00	-14.75	AVG
3	7311.000	43.33	7.76	51.09	74.00	-22.91	peak
4	7311.000	37.35	7.76	45.11	54.00	-8.89	AVG
5	9748.000	45.22	9.43	54.65	74.00	-19.35	peak
6 *	9748.000	38.93	9.43	48.36	54.00	-5.64	AVG

Mode1 / Polarization: Vertical / CH: H

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4874.000	43.25	2.15	45.40	74.00	-28.60	peak
2	4874.000	37.47	2.15	39.62	54.00	-14.38	AVG
3	7311.000	42.79	7.76	50.55	74.00	-23.45	peak
4	7311.000	36.45	7.76	44.21	54.00	-9.79	AVG
5	9748.000	43.74	9.43	53.17	74.00	-20.83	peak
6 *	9748.000	38.25	9.43	47.68	54.00	-6.32	AVG

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Mode3 / Polarization: Horizontal / CH: L

Total:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	43.14	1.87	45.01	74.00	-28.99	peak
2		4824.000	37.25	1.87	39.12	54.00	-14.88	AVG
3		7236.000	43.12	7.42	50.54	74.00	-23.46	peak
4		7236.000	36.95	7.42	44.37	54.00	-9.63	AVG
5		9648.000	45.08	9.08	54.16	74.00	-19.84	peak
6	*	9648.000	39.28	9.08	48.36	54.00	-5.64	AVG

Mode3 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4824.000	42.71	1.87	44.58	74.00	-29.42	peak
2		4824.000	36.39	1.87	38.26	54.00	-15.74	AVG
3		7236.000	42.46	7.42	49.88	74.00	-24.12	peak
4		7236.000	35.85	7.42	43.27	54.00	-10.73	AVG
5		9648.000	44.22	9.08	53.30	74.00	-20.70	peak
6	*	9648.000	38.24	9.08	47.32	54.00	-6.68	AVG

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Mode3 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4874.000	43.40	2.15	45.55	74.00	-28.45	peak
2		4874.000	37.09	2.15	39.24	54.00	-14.76	AVG
3		7311.000	42.92	7.76	50.68	74.00	-23.32	peak
4		7311.000	36.61	7.76	44.37	54.00	-9.63	AVG
5		9748.000	44.07	9.43	53.50	74.00	-20.50	peak
6	*	9748.000	39.19	9.43	48.62	54.00	-5.38	AVG

Mode3 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4874.000	43.99	2.15	46.14	74.00	-27.86	peak
2		4874.000	38.17	2.15	40.32	54.00	-13.68	AVG
3		7311.000	43.19	7.76	50.95	74.00	-23.05	peak
4		7311.000	36.83	7.76	44.59	54.00	-9.41	AVG
5		9748.000	43.56	9.43	52.99	74.00	-21.01	peak
6	*	9748.000	37.31	9.43	46.74	54.00	-7.26	AVG

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Mode3 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	45.55	2.48	48.03	74.00	-25.97	peak
2		4924.000	39.69	2.48	42.17	54.00	-11.83	AVG
3		7386.000	44.80	7.80	52.60	74.00	-21.40	peak
4		7386.000	38.77	7.80	46.57	54.00	-7.43	AVG
5		9848.000	43.91	9.57	53.48	74.00	-20.52	peak
6	*	9848.000	37.75	9.57	47.32	54.00	-6.68	AVG

Mode3 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4924.000	45.11	2.48	47.59	74.00	-26.41	peak
2		4924.000	38.97	2.48	41.45	54.00	-12.55	AVG
3		7386.000	43.42	7.80	51.22	74.00	-22.78	peak
4		7386.000	37.57	7.80	45.37	54.00	-8.63	AVG
5		9848.000	44.85	9.57	54.42	74.00	-19.58	peak
6	*	9848.000	39.02	9.57	48.59	54.00	-5.41	AVG

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

Appendix

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Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	10.080	0.5	PASS
	Ant2	2412	10.120	0.5	PASS
	Ant1	2437	10.040	0.5	PASS
	Ant2	2437	10.080	0.5	PASS
	Ant1	2462	10.120	0.5	PASS
	Ant2	2462	10.080	0.5	PASS
11G	Ant1	2412	16.320	0.5	PASS
	Ant2	2412	16.360	0.5	PASS
	Ant1	2437	16.040	0.5	PASS
	Ant2	2437	16.000	0.5	PASS
	Ant1	2462	15.640	0.5	PASS
	Ant2	2462	15.040	0.5	PASS
11N20SISO	Ant1	2412	17.560	0.5	PASS
	Ant2	2412	16.160	0.5	PASS
	Ant1	2437	17.560	0.5	PASS
	Ant2	2437	17.600	0.5	PASS
	Ant1	2462	16.080	0.5	PASS
	Ant2	2462	17.600	0.5	PASS
11N40SISO	Ant1	2422	35.840	0.5	PASS
	Ant2	2422	35.680	0.5	PASS
	Ant1	2437	31.360	0.5	PASS
	Ant2	2437	35.360	0.5	PASS
	Ant1	2452	26.880	0.5	PASS
	Ant2	2452	35.680	0.5	PASS

TEST REPORT

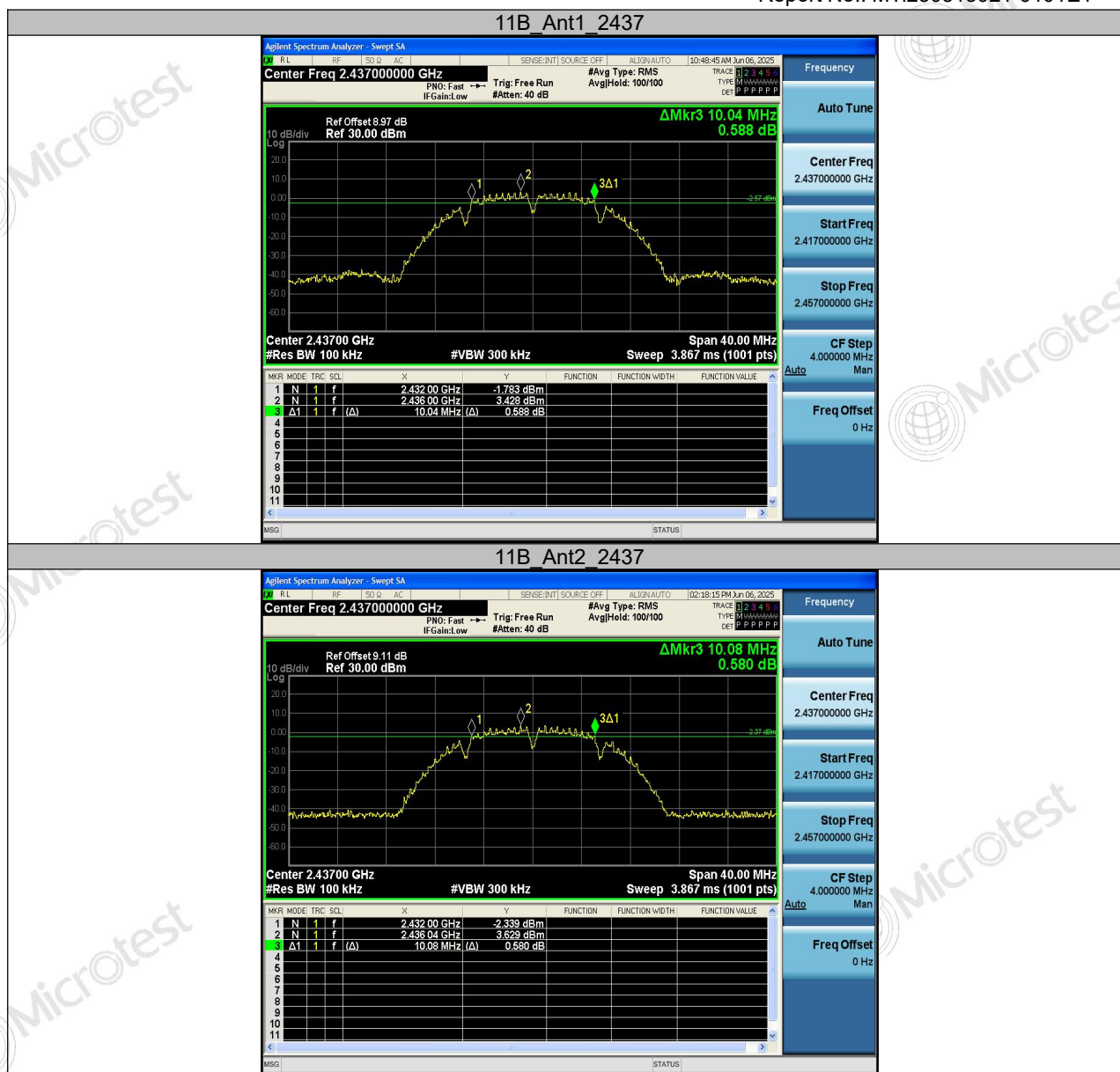
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Test Graphs



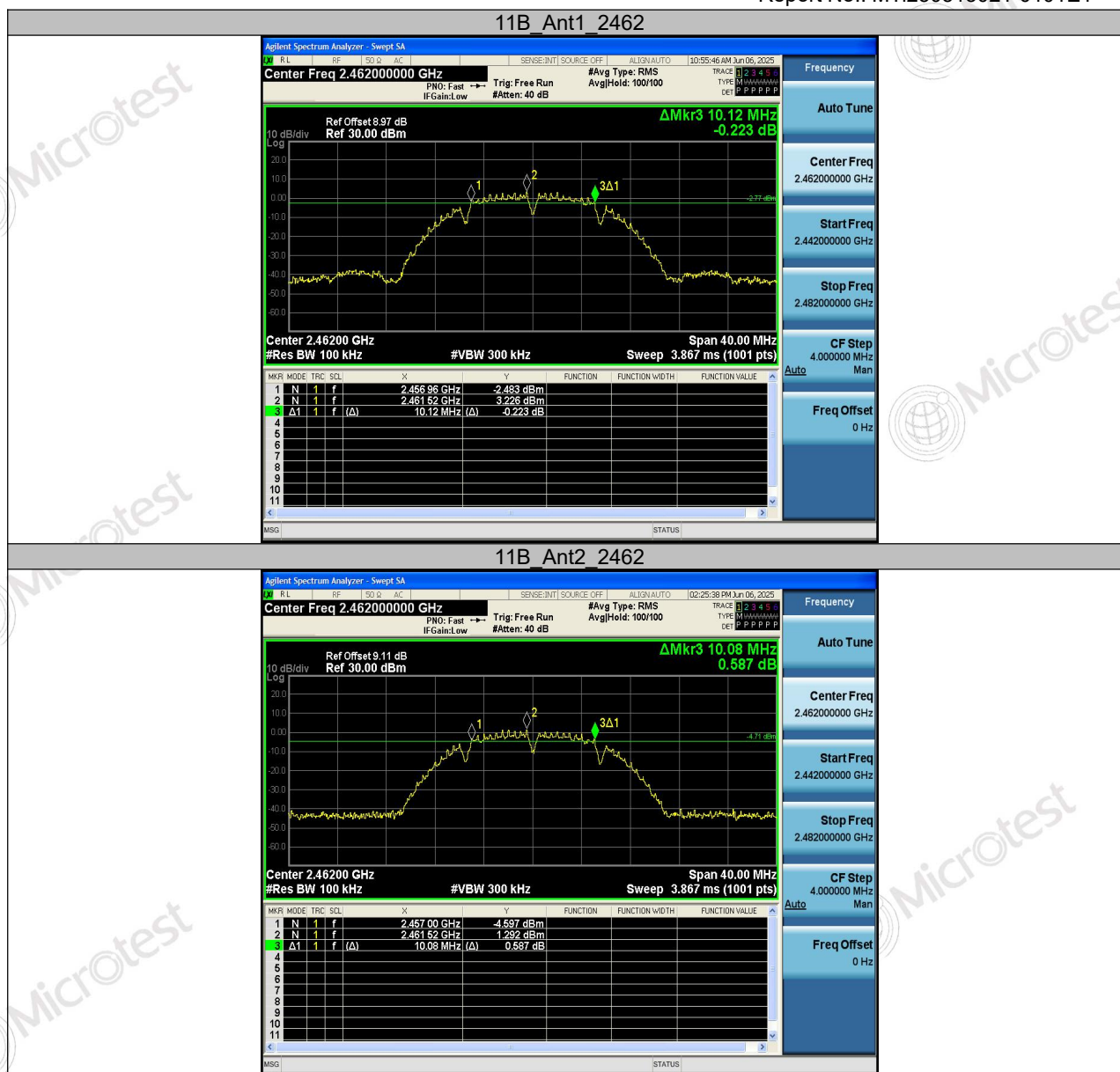
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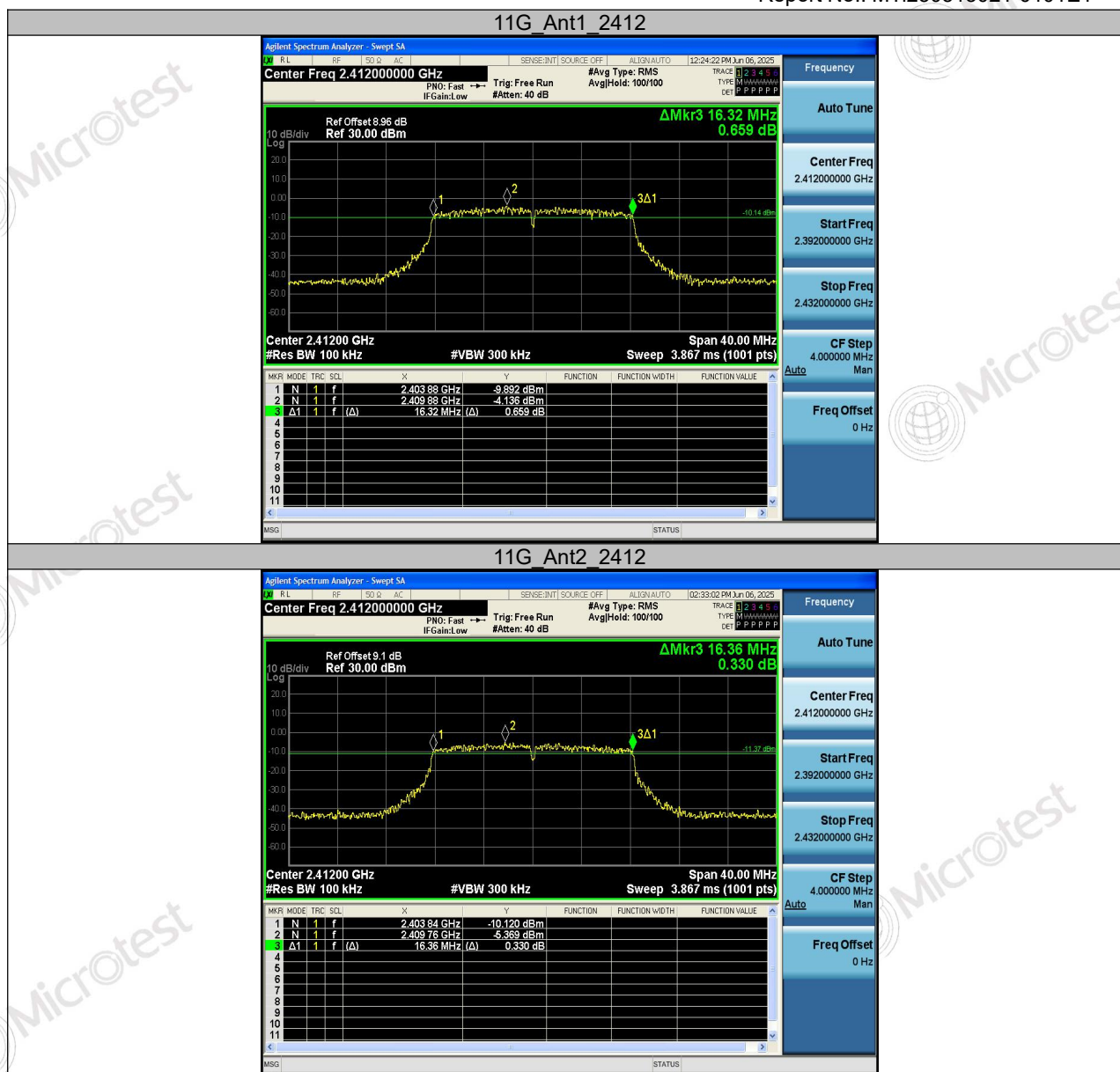
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