

Test Report

Report No. : MTi251023015-0109E2
Date of issue : 2025-12-24
Applicant : Earfun Technology (HK) Limited
Product : Open-Ear Wireless Earbuds
Model(s) : CW200
FCC ID : 2AVIT-CW200

Shenzhen Microtest Co., Ltd.

TEST REPORT

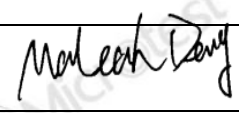
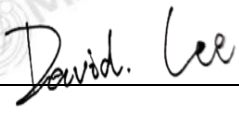
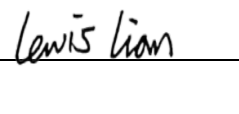
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Test Result Certification		
Applicant	Earfun Technology (HK) Limited	
Applicant Address	FLAT/RM A 9F, SILVERCORP INTERNATIONAL TOWER 707-713 NATHAN ROAD MONGKOK KL, HONG KONG	
Manufacturer	Earfun Technology (HK) Limited	
Manufacturer Address	FLAT/RM A 9F, SILVERCORP INTERNATIONAL TOWER 707-713 NATHAN ROAD MONGKOK KL, HONG KONG	
Factory	Dongguan SiliSound Technology Co., LTD	
Factory Address	Room 601, No. 26, Xinyang Road, Lin Village, Tangxia Town, Dongguan city, Guangdong Province	
Product description		
Product name	Open-Ear Wireless Earbuds	
Trademark	EarFun	
Model name	CW200	
Series Model(s)	N/A	
Standards	47 CFR Part 15.247	
Test Method	KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020	
Testing Information		
Date of test	2025-12-17 to 2025-12-19	
Test result	Pass	
Prepared by:	Maleah Deng	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

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1 General Description

1.1 Description of the EUT

Product name:	Open-Ear Wireless Earbuds
Model name:	CW200
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V, 1A Battery: Earbuds: DC 3.85V, 60mAh Charging case: DC 3.8V, 490mAh
Accessories:	Cable: USB-A to USB-C cable*1
Hardware version:	HP1200
Software version:	V0.0.6
Test sample(s) number:	MTi251023015-01-R008
RF specification	
Bluetooth version:	V6.0
Operating frequency range:	2402-2480MHz
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	PCB Antenna
Antenna(s) gain:	ANT1(Left): -1.23dBi; Ant2(Right): -0.38dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK-1Mbps(Left)
Mode2	TX-GFSK-2Mbps(Left)
Mode3	TX-GFSK-1Mbps(Right)
Mode4	TX-GFSK-2Mbps(Right)

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468

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4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test Channel List

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2402	2440	2480

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:

For power setting, refer to below table. (The power setting of the left and right ears are the same.)

Test Software:	BT_Tool		
Mode	2402MHz	2440MHz	2480MHz
1M	5	5	5
2M	5	5	5

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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
/	/	/	/
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)	N/A
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

Note: Since the EUT is the DC input, therefore AC power line conducted emissions test is not required.

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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
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 Ssignal 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
10	RF Test System	Tonscend	JS1120-3 Test System Ver. V3.5.39	/	/	/
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	EWLAN18 40G	210405001	2025-03-19	2026-03-18
8	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2025-03-14	2026-03-13
2	TRILOG Broadband	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22

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No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
	Antenna					
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2026-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2025-03-18	2026-03-17
5	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/

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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 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 C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

6.1.1 E.U.T. Operation:

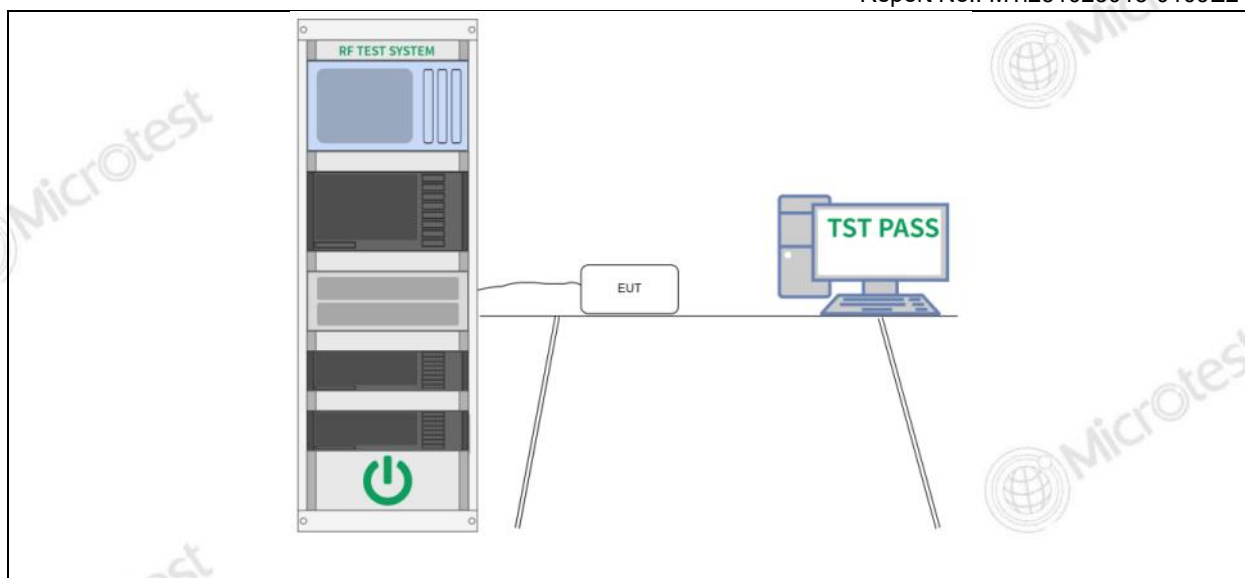
Operating Environment:					
Temperature:	24.2 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	Mode1, Mode2, Mode3, Mode4				

6.1.2 Test Setup Diagram:

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6.1.3 Test Data:

Please Refer to Appendix for Details.

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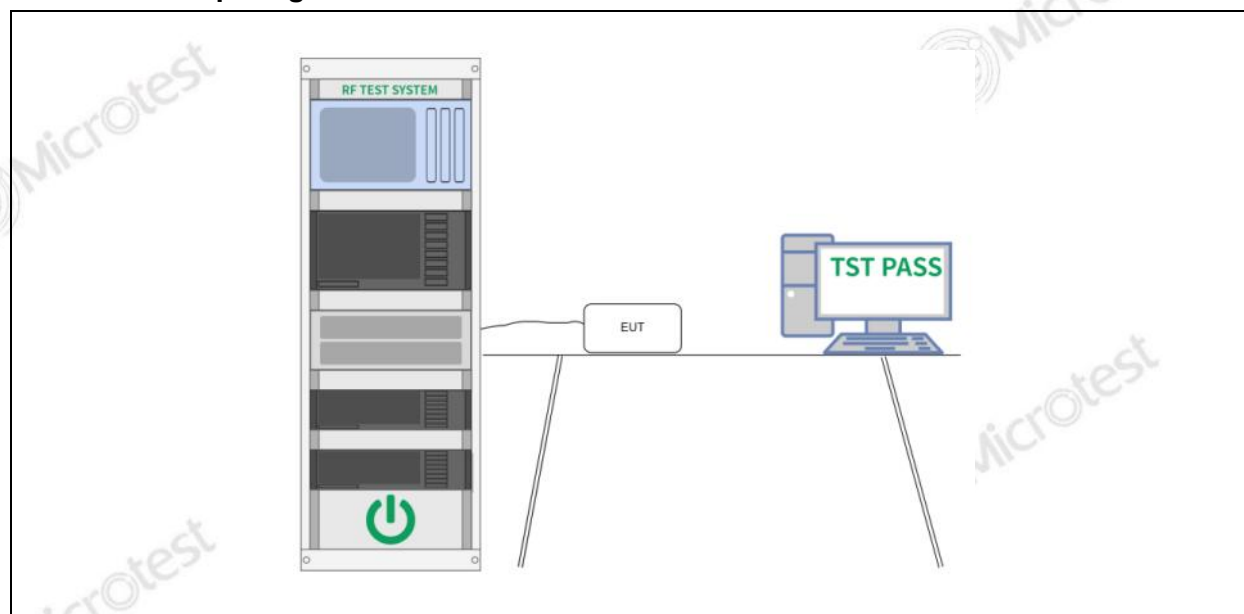
6.2 Maximum Conducted Output Power

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 C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1.1 Maximum peak conducted output power

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.2 °C	Humidity:	60 %	Atmospheric Pressure:	101 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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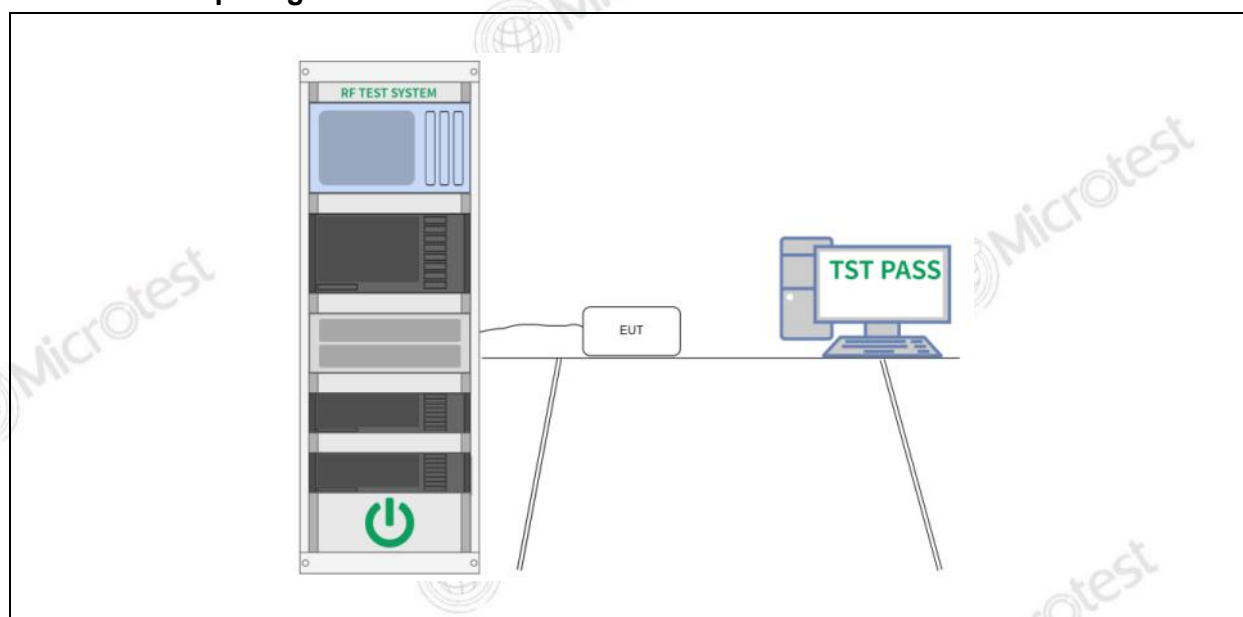
6.3 Power Spectral Density

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 C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10.2 Maximum power spectral density level in the fundamental emission

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.2 °C	Humidity:	60 %	Atmospheric Pressure:	101 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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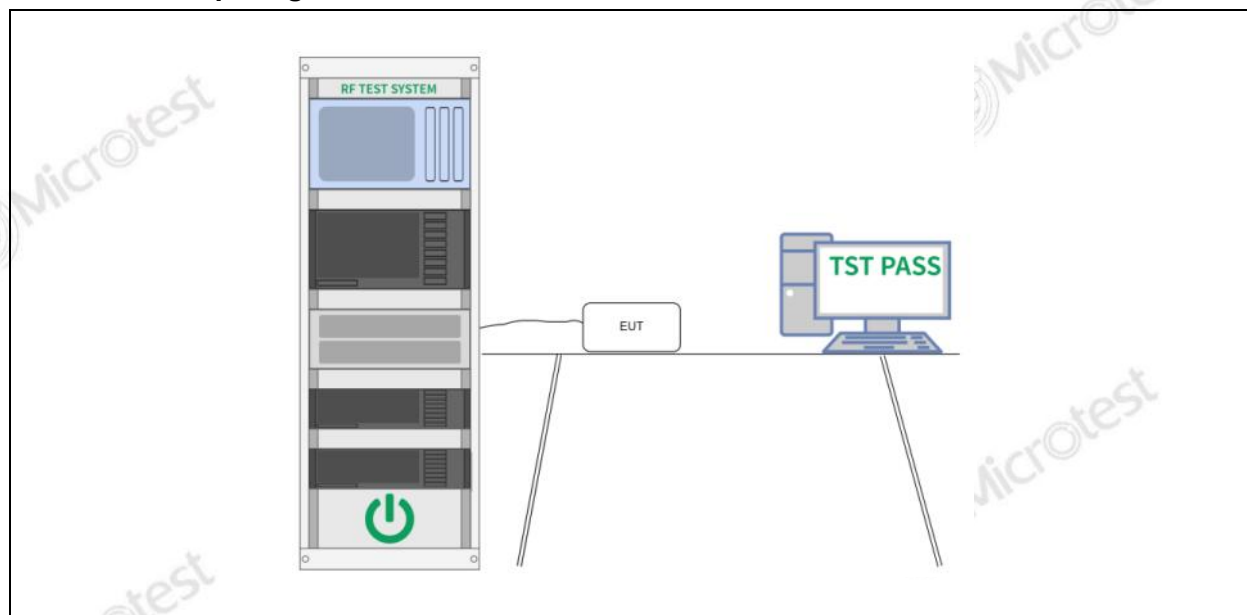
6.4 RF conducted spurious emissions and band edge measurement

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 C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.2 °C	Humidity:	60 %	Atmospheric Pressure:	101 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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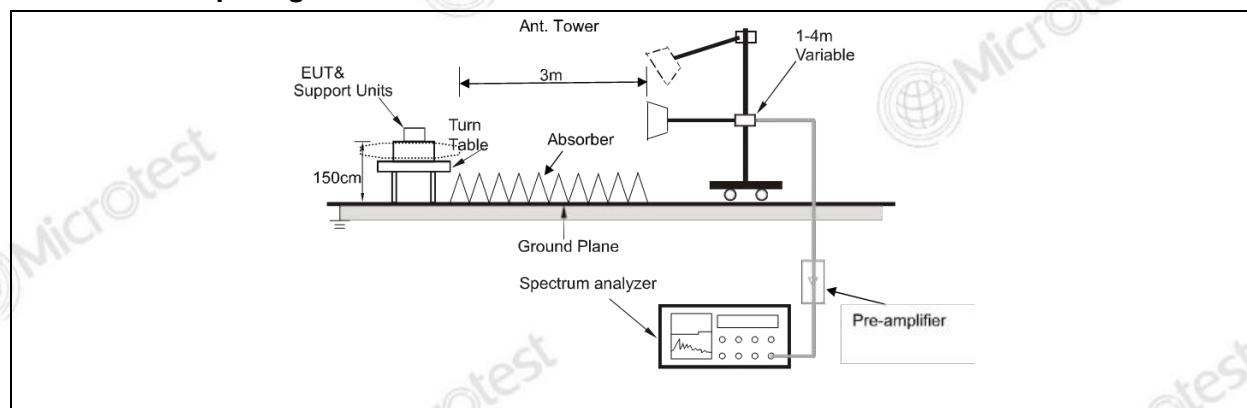
6.5 Band edge emissions (Radiated)

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 C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		

6.5.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.1 °C	Humidity:	49.2 %
		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, Mode3) is recorded in the report		
Note:	The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.		

6.5.2 Test Setup Diagram:



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6.5.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.37	-4.50	43.87	74.00	-30.13	peak
2		2310.000	38.55	-4.50	34.05	54.00	-19.95	AVG
3		2390.000	48.74	-4.31	44.43	74.00	-29.57	peak
4	*	2390.000	38.76	-4.31	34.45	54.00	-19.55	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.25	-4.50	43.75	74.00	-30.25	peak
2		2310.000	38.57	-4.50	34.07	54.00	-19.93	AVG
3		2390.000	49.72	-4.31	45.41	74.00	-28.59	peak
4	*	2390.000	38.74	-4.31	34.43	54.00	-19.57	AVG

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Mode1 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	48.21	-4.23	43.98	74.00	-30.02	peak
2		2483.500	38.95	-4.23	34.72	54.00	-19.28	AVG
3		2500.000	48.63	-4.15	44.48	74.00	-29.52	peak
4	*	2500.000	38.97	-4.15	34.82	54.00	-19.18	AVG

Mode1 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	48.94	-4.23	44.71	74.00	-29.29	peak
2		2483.500	38.46	-4.23	34.23	54.00	-19.77	AVG
3		2500.000	48.02	-4.15	43.87	74.00	-30.13	peak
4	*	2500.000	38.76	-4.15	34.61	54.00	-19.39	AVG

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Mode3 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.07	-4.50	43.57	74.00	-30.43	peak
2		2310.000	38.33	-4.50	33.83	54.00	-20.17	AVG
3		2390.000	48.01	-4.31	43.70	74.00	-30.30	peak
4	*	2390.000	38.52	-4.31	34.21	54.00	-19.79	AVG

Mode3 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.31	-4.50	43.81	74.00	-30.19	peak
2		2310.000	38.56	-4.50	34.06	54.00	-19.94	AVG
3		2390.000	48.61	-4.31	44.30	74.00	-29.70	peak
4	*	2390.000	38.69	-4.31	34.38	54.00	-19.62	AVG

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Mode3 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	49.54	-4.23	45.31	74.00	-28.69	peak
2		2483.500	38.57	-4.23	34.34	54.00	-19.66	AVG
3		2500.000	50.08	-4.15	45.93	74.00	-28.07	peak
4	*	2500.000	39.09	-4.15	34.94	54.00	-19.06	AVG

Mode3 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.67	-4.23	43.44	74.00	-30.56	peak
2		2483.500	38.45	-4.23	34.22	54.00	-19.78	AVG
3		2500.000	48.12	-4.15	43.97	74.00	-30.03	peak
4	*	2500.000	38.83	-4.15	34.68	54.00	-19.32	AVG

TEST REPORT

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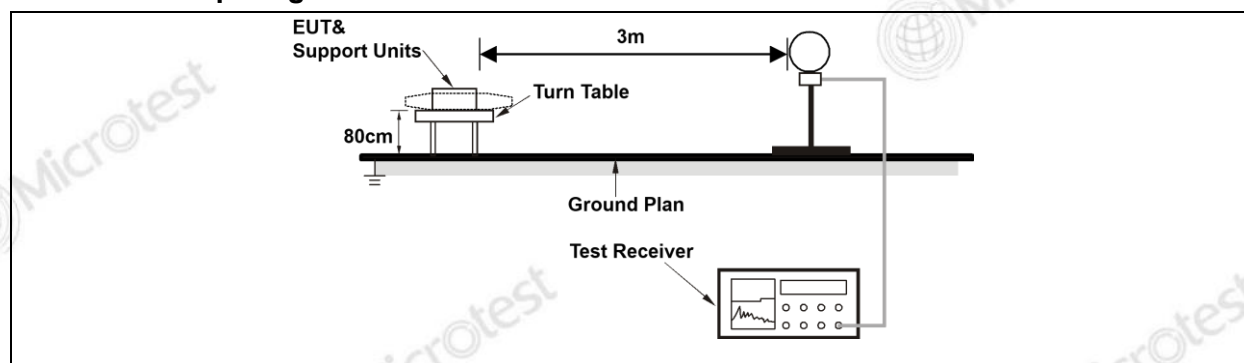
6.6 Radiated emissions (below 1GHz)

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 C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.6.1 E.U.T. Operation:

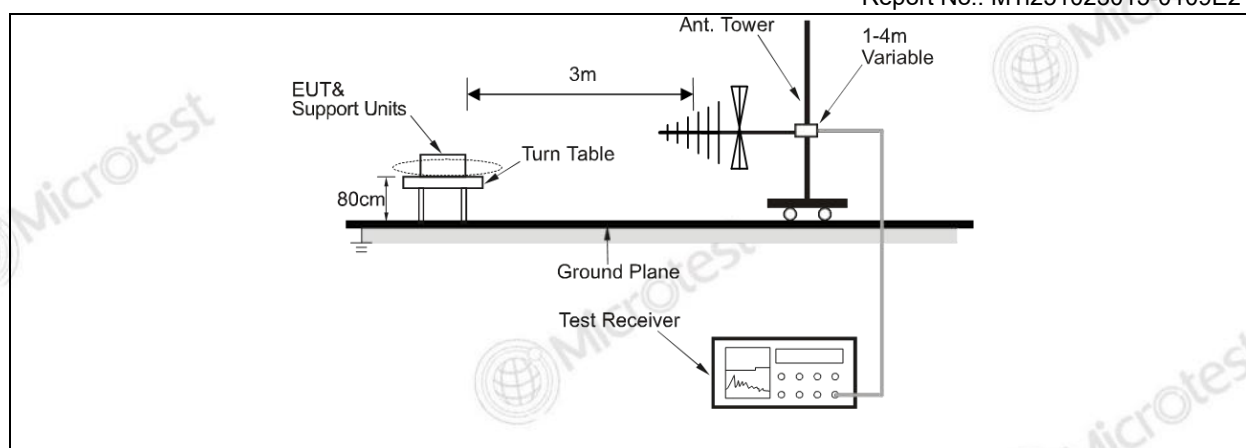
Operating Environment:					
Temperature:	24.1 °C	Humidity:	49.2 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3, Mode4			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode1, Mode3) is recorded in the report			
Note: The amplitude 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.					

6.6.2 Test Setup Diagram:



TEST REPORT

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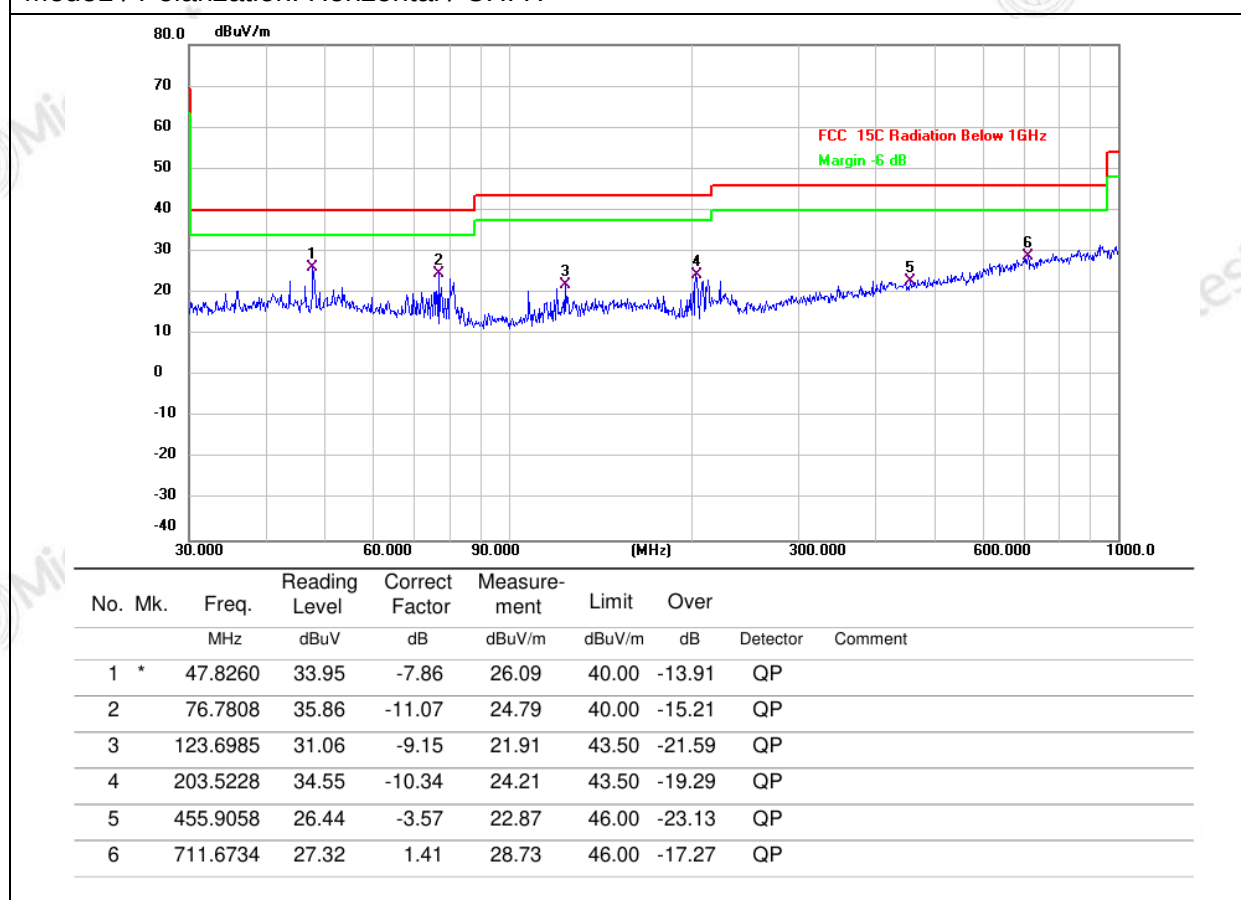


TEST REPORT

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6.6.3 Test Data:

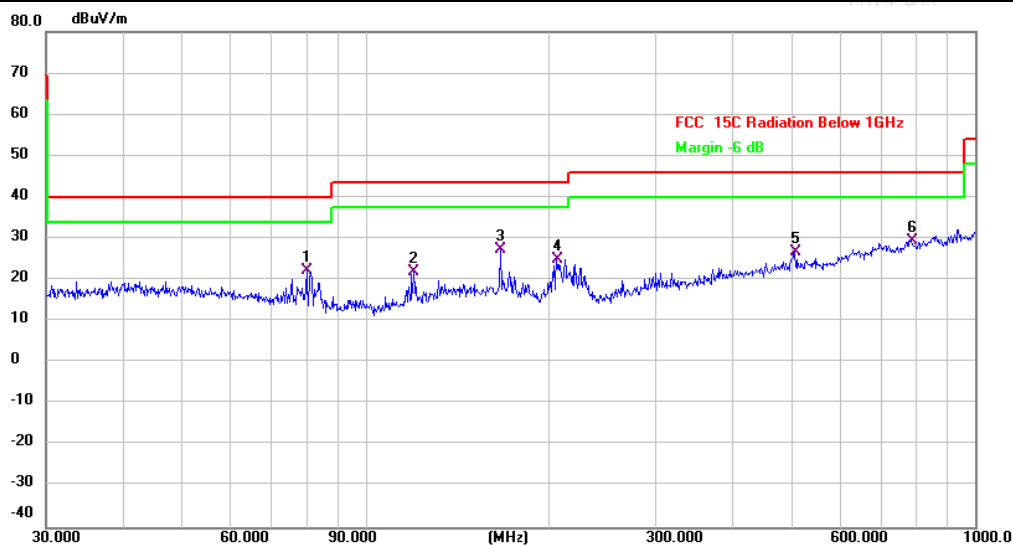
Mode1 / Polarization: Horizontal / CH: H



TEST REPORT

Report No.: MTi251023015-0109E2

Mode1 / Polarization: Vertical / CH: H

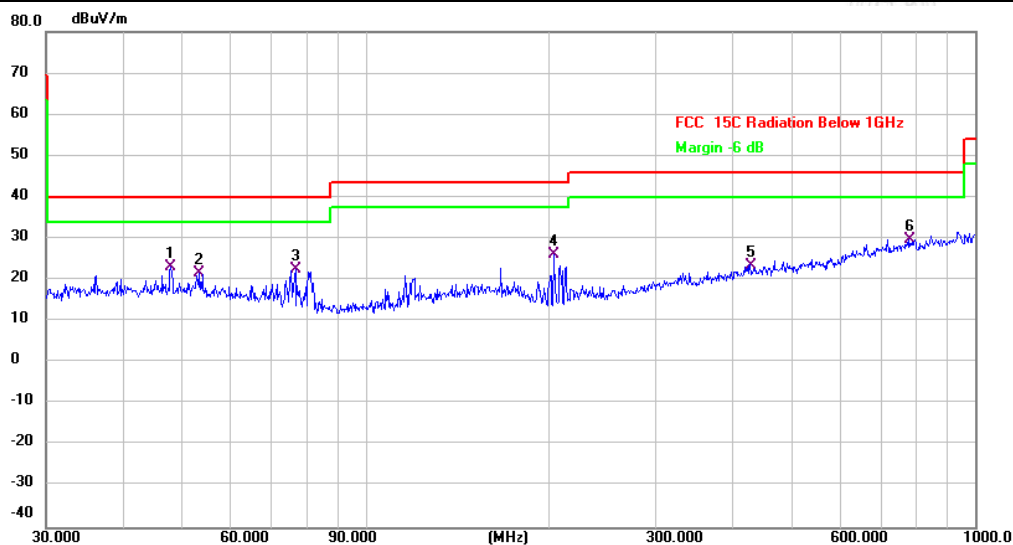


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	80.0806	34.39	-12.01	22.38	40.00	-17.62	QP	
2	119.8556	31.43	-9.38	22.05	43.50	-21.45	QP	
3 *	166.0680	34.68	-7.19	27.49	43.50	-16.01	QP	
4	206.3976	35.49	-10.42	25.07	43.50	-18.43	QP	
5	506.4791	29.47	-2.77	26.70	46.00	-19.30	QP	
6	785.0935	27.03	2.55	29.58	46.00	-16.42	QP	

TEST REPORT

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Mode3 / Polarization: Horizontal / CH: H

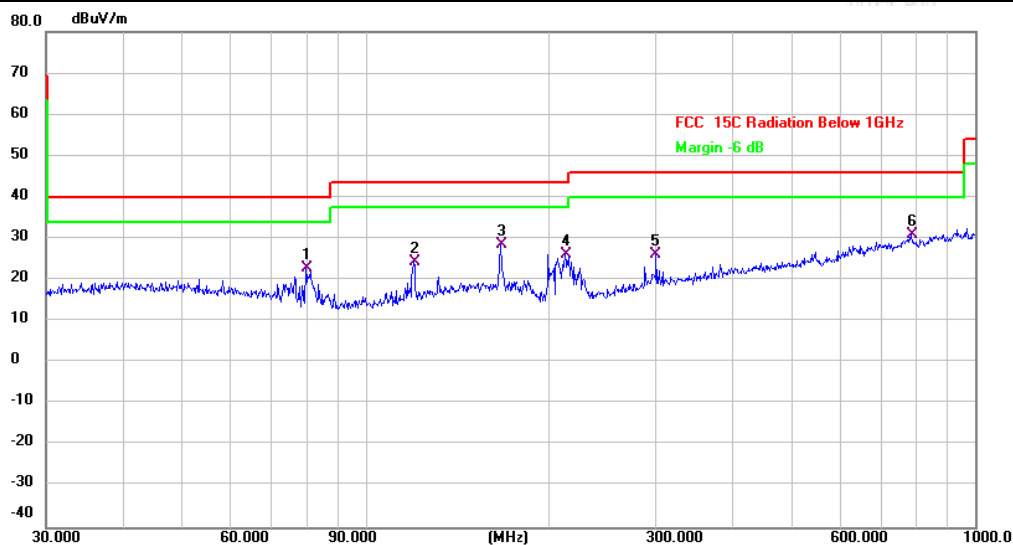


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	47.9940	31.03	-7.88	23.15	40.00	-16.85	QP	
2	53.5052	29.81	-8.11	21.70	40.00	-18.30	QP	
3	76.7808	33.49	-11.07	22.42	40.00	-17.58	QP	
4	204.2377	36.55	-10.37	26.18	43.50	-17.32	QP	
5	428.0193	27.49	-3.89	23.60	46.00	-22.40	QP	
6 *	779.6068	27.37	2.47	29.84	46.00	-16.16	QP	

TEST REPORT

Report No.: MTi251023015-0109E2

Mode3 / 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	79.8003	34.73	-11.91	22.82	40.00	-17.18	QP	
2	119.8556	33.68	-9.38	24.30	43.50	-19.20	QP	
3 *	166.6514	35.67	-7.13	28.54	43.50	-14.96	QP	
4	213.0151	36.60	-10.40	26.20	43.50	-17.30	QP	
5	300.3672	32.40	-6.37	26.03	46.00	-19.97	QP	
6	785.0935	28.41	2.55	30.96	46.00	-15.04	QP	

TEST REPORT

Report No.: MTI251023015-0109E2

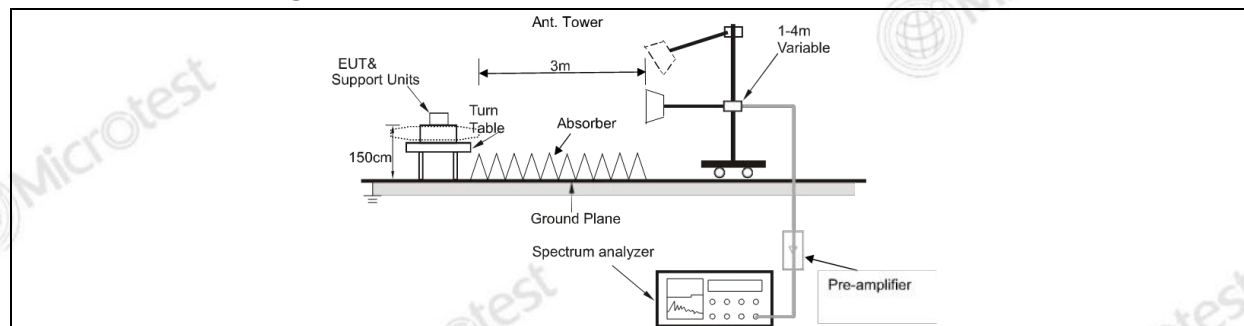
6.7 Radiated emissions (above 1GHz)

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 C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 section 6.6.4		

6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.1 °C	Humidity:	49.2 %	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, Mode3) 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.					

6.7.2 Test Setup Diagram:



TEST REPORT

Report No.: MTI251023015-0109E2

6.7.3 Test Data:

Mode1 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	44.06	2.70	46.76	74.00	-27.24	peak
2		4804.000	37.45	2.70	40.15	54.00	-13.85	AVG
3		7206.000	44.36	7.46	51.82	74.00	-22.18	peak
4		7206.000	38.79	7.46	46.25	54.00	-7.75	AVG
5		9608.000	45.35	8.79	54.14	74.00	-19.86	peak
6	*	9608.000	40.53	8.79	49.32	54.00	-4.68	AVG

Mode1 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	44.18	2.70	46.88	74.00	-27.12	peak
2		4804.000	37.59	2.70	40.29	54.00	-13.71	AVG
3		7206.000	43.63	7.46	51.09	74.00	-22.91	peak
4	*	7206.000	41.86	7.46	49.32	54.00	-4.68	AVG
5		9608.000	45.47	8.79	54.26	74.00	-19.74	peak
6		9608.000	40.49	8.79	49.28	54.00	-4.72	AVG

TEST REPORT

Report No.: MTi251023015-0109E2

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		4880.000	49.41	2.74	52.15	74.00	-21.85	peak
2		4880.000	45.88	2.74	48.62	54.00	-5.38	AVG
3		7320.000	45.27	7.79	53.06	74.00	-20.94	peak
4		7320.000	41.90	7.79	49.69	54.00	-4.31	AVG
5		9760.000	45.23	9.90	55.13	74.00	-18.87	peak
6	*	9760.000	40.34	9.90	50.24	54.00	-3.76	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		4880.000	52.55	2.74	55.29	74.00	-18.71	peak
2	*	4880.000	47.54	2.74	50.28	54.00	-3.72	AVG
3		7320.000	40.83	7.79	48.62	54.00	-5.38	AVG
4		7323.000	44.47	7.81	52.28	74.00	-21.72	peak
5		9760.000	45.03	9.90	54.93	74.00	-19.07	peak
6		9760.000	39.31	9.90	49.21	54.00	-4.79	AVG

TEST REPORT

Report No.: MTi251023015-0109E2

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		4960.000	49.77	3.10	52.87	74.00	-21.13	peak
2		4960.000	45.16	3.10	48.26	54.00	-5.74	AVG
3		7440.000	44.26	7.65	51.91	74.00	-22.09	peak
4		7440.000	39.49	7.65	47.14	54.00	-6.86	AVG
5		9920.000	44.71	9.23	53.94	74.00	-20.06	peak
6	*	9920.000	40.05	9.23	49.28	54.00	-4.72	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		4960.000	52.67	3.10	55.77	74.00	-18.23	peak
2	*	4960.000	47.19	3.10	50.29	54.00	-3.71	AVG
3		7440.000	46.04	7.65	53.69	74.00	-20.31	peak
4		7440.000	41.97	7.65	49.62	54.00	-4.38	AVG
5		9920.000	44.67	9.23	53.90	74.00	-20.10	peak
6		9920.000	39.04	9.23	48.27	54.00	-5.73	AVG

TEST REPORT

Report No.: MTi251023015-0109E2

Mode3 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	44.13	2.70	46.83	74.00	-27.17	peak
2		4804.000	38.59	2.70	41.29	54.00	-12.71	AVG
3		7206.000	43.98	7.46	51.44	74.00	-22.56	peak
4		7206.000	40.86	7.46	48.32	54.00	-5.68	AVG
5		9608.000	45.52	8.79	54.31	74.00	-19.69	peak
6	*	9608.000	40.49	8.79	49.28	54.00	-4.72	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		4804.000	43.60	2.70	46.30	74.00	-27.70	peak
2		4804.000	39.84	2.70	42.54	54.00	-11.46	AVG
3		7206.000	44.06	7.46	51.52	74.00	-22.48	peak
4		7206.000	40.17	7.46	47.63	54.00	-6.37	AVG
5		9608.000	44.54	8.79	53.33	74.00	-20.67	peak
6	*	9608.000	40.46	8.79	49.25	54.00	-4.75	AVG

TEST REPORT

Report No.: MTi251023015-0109E2

Mode3 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	52.48	2.74	55.22	74.00	-18.78	peak
2	*	4880.000	47.55	2.74	50.29	54.00	-3.71	AVG
3		7320.000	44.52	7.79	52.31	74.00	-21.69	peak
4		7320.000	41.84	7.79	49.63	54.00	-4.37	AVG
5		9760.000	44.87	9.90	54.77	74.00	-19.23	peak
6		9760.000	38.37	9.90	48.27	54.00	-5.73	AVG

Mode3 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	48.06	2.74	50.80	74.00	-23.20	peak
2		4880.000	43.55	2.74	46.29	54.00	-7.71	AVG
3		7320.000	46.28	7.79	54.07	74.00	-19.93	peak
4	*	7320.000	41.52	7.79	49.31	54.00	-4.69	AVG
5		9760.000	44.66	9.90	54.56	74.00	-19.44	peak
6		9760.000	38.37	9.90	48.27	54.00	-5.73	AVG

TEST REPORT

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Mode3 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	53.17	3.10	56.27	74.00	-17.73	peak
2	*	4960.000	47.31	3.10	50.41	54.00	-3.59	AVG
3		7440.000	45.81	7.65	53.46	74.00	-20.54	peak
4		7440.000	42.04	7.65	49.69	54.00	-4.31	AVG
5		9920.000	44.76	9.23	53.99	74.00	-20.01	peak
6		9920.000	39.00	9.23	48.23	54.00	-5.77	AVG

Mode3 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	50.05	3.10	53.15	74.00	-20.85	peak
2		4960.000	45.11	3.10	48.21	54.00	-5.79	AVG
3		7440.000	44.68	7.65	52.33	74.00	-21.67	peak
4		7440.000	39.97	7.65	47.62	54.00	-6.38	AVG
5		9920.000	45.02	9.23	54.25	74.00	-19.75	peak
6	*	9920.000	40.46	9.23	49.69	54.00	-4.31	AVG

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

TEST REPORT

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Photographs of the EUT

Refer to Appendix - EUT Photos

Appendix

TEST REPORT

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Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.656	0.5	PASS
	Ant2	2402	0.652	0.5	PASS
	Ant1	2440	0.684	0.5	PASS
	Ant2	2440	0.664	0.5	PASS
	Ant1	2480	0.644	0.5	PASS
	Ant2	2480	0.664	0.5	PASS
BLE_2M	Ant1	2402	1.336	0.5	PASS
	Ant2	2402	1.328	0.5	PASS
	Ant1	2440	1.320	0.5	PASS
	Ant2	2440	1.268	0.5	PASS
	Ant1	2480	1.308	0.5	PASS
	Ant2	2480	1.340	0.5	PASS

TEST REPORT

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Test Graphs



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2

BLE 2M Ant1 2402



BLE 2M Ant2 2402



TEST REPORT

Report No.: MTI251023015-0109E2

BLE 2M Ant1 2440

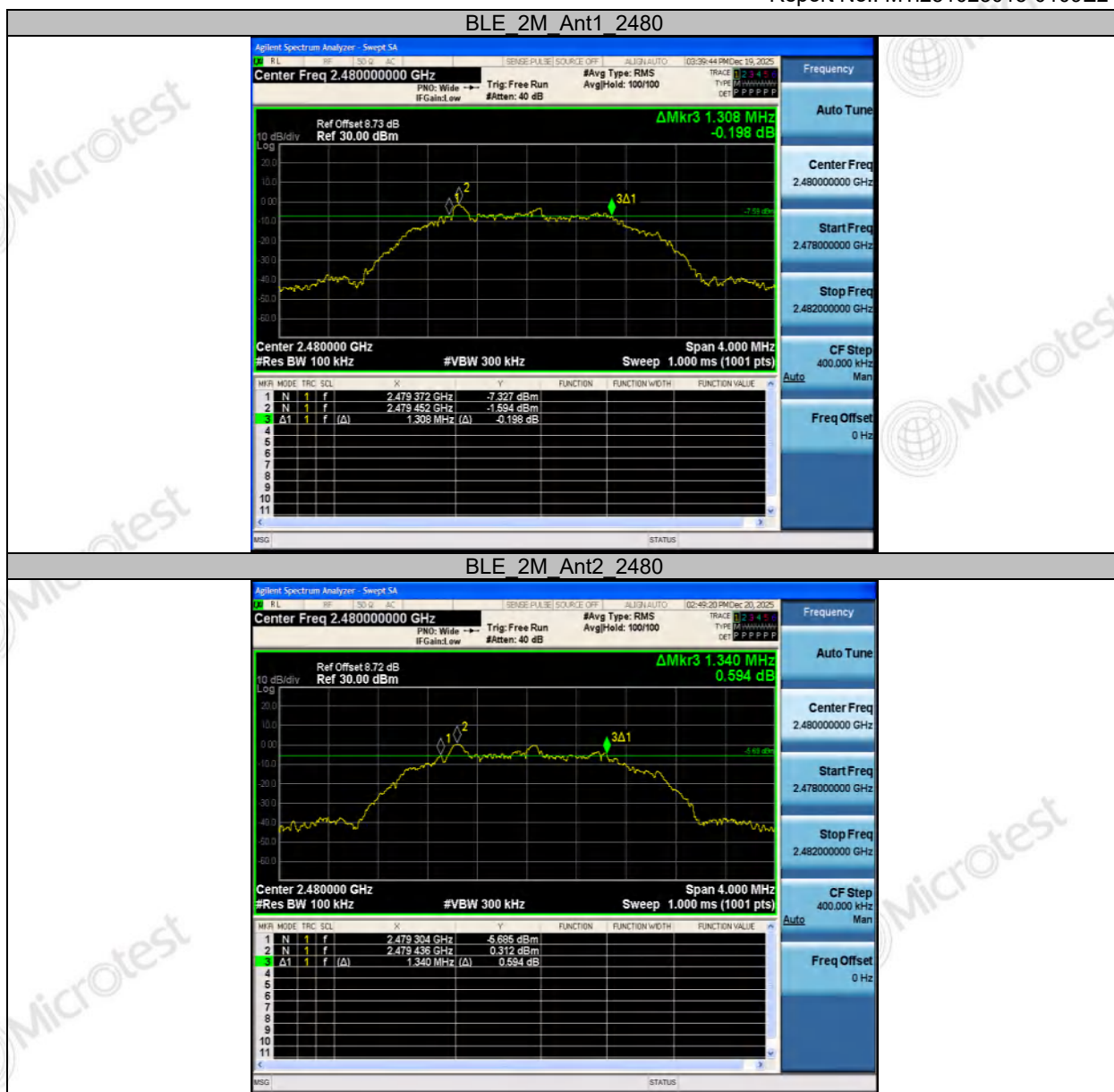


BLE 2M Ant2 2440



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTi251023015-0109E2

Appendix B: Maximum conducted output power

Test Result-Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-2.61	≤30	PASS
	Ant2	2402	-0.57	≤30	PASS
	Ant1	2440	-1.72	≤30	PASS
	Ant2	2440	0.03	≤30	PASS
	Ant1	2480	-0.69	≤30	PASS
	Ant2	2480	1.07	≤30	PASS
BLE_2M	Ant1	2402	-2.69	≤30	PASS
	Ant2	2402	-0.62	≤30	PASS
	Ant1	2440	-1.68	≤30	PASS
	Ant2	2440	-0.01	≤30	PASS
	Ant1	2480	-0.69	≤30	PASS
	Ant2	2480	1.02	≤30	PASS

TEST REPORT

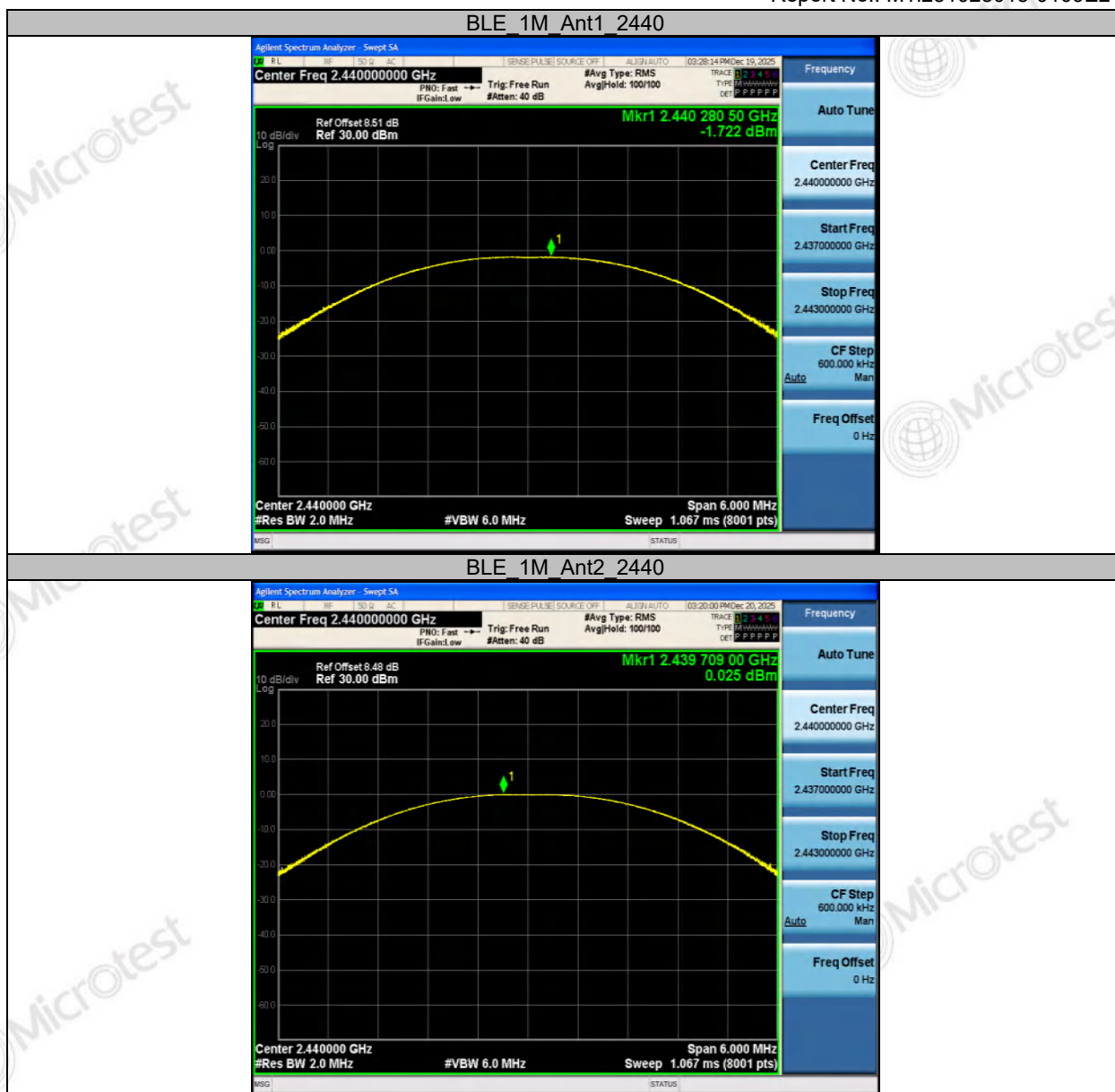
Report No.: MTI251023015-0109E2

Test Graphs



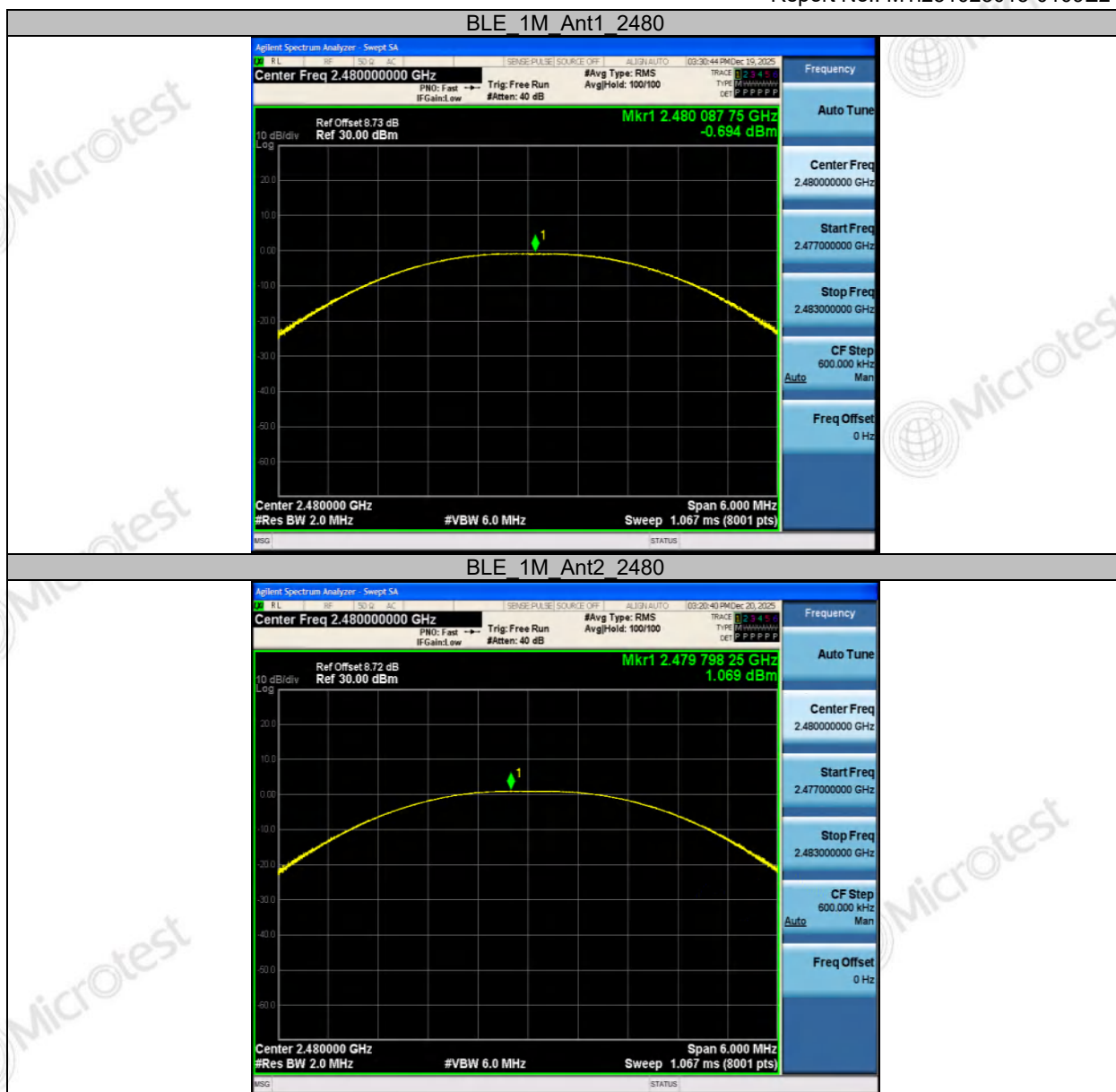
TEST REPORT

Report No.: MTI251023015-0109E2



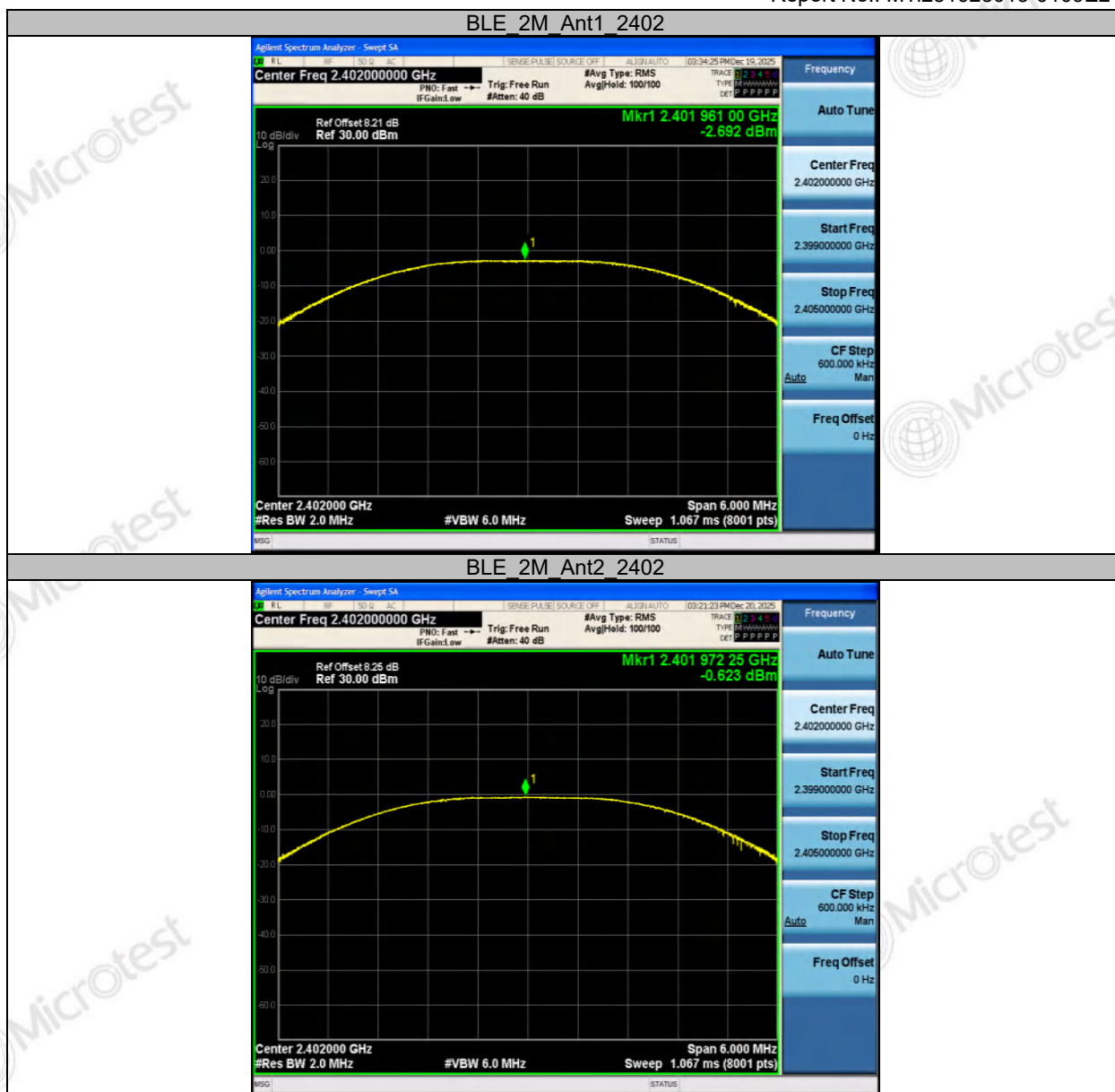
TEST REPORT

Report No.: MTI251023015-0109E2



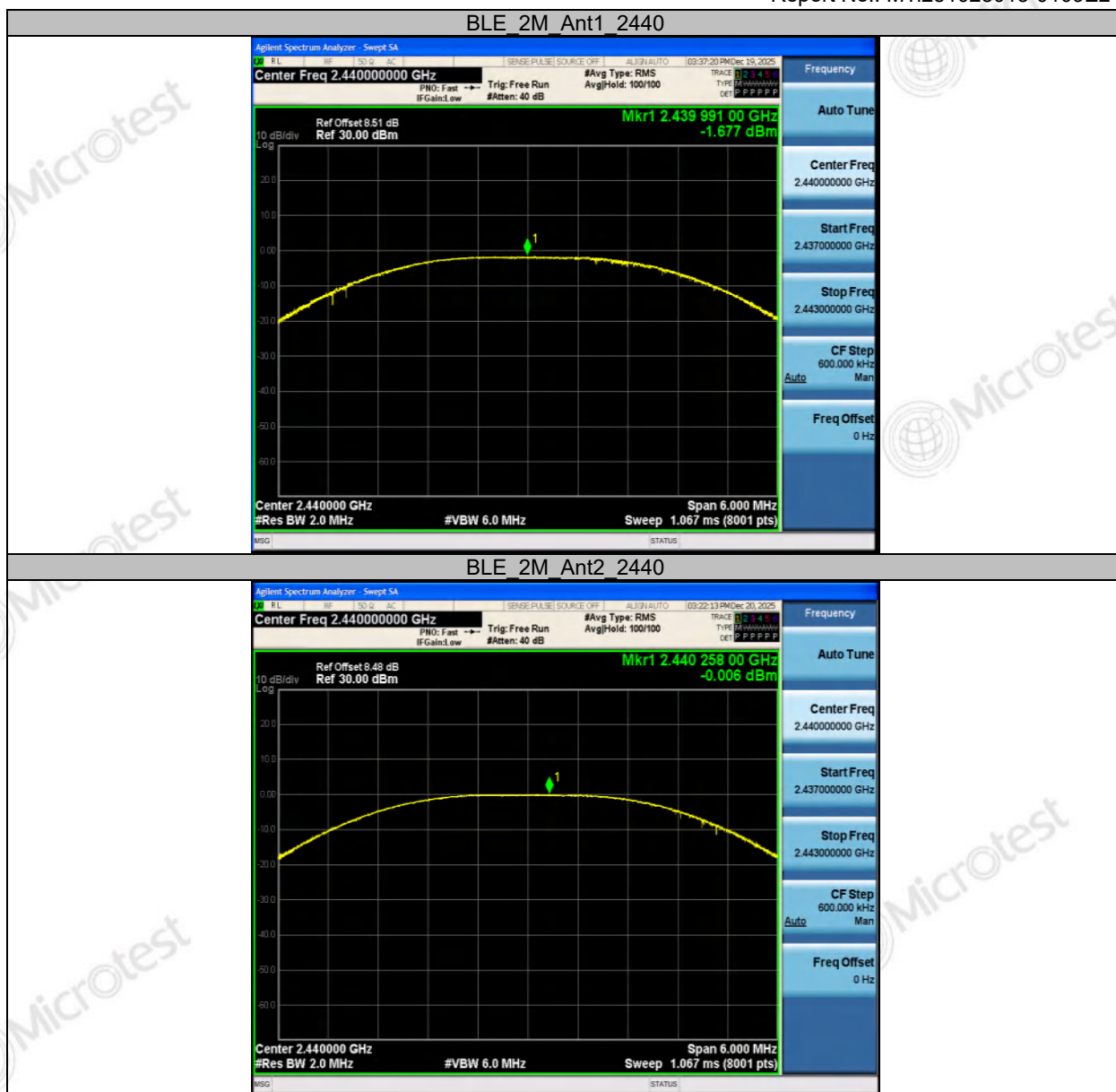
TEST REPORT

Report No.: MTI251023015-0109E2



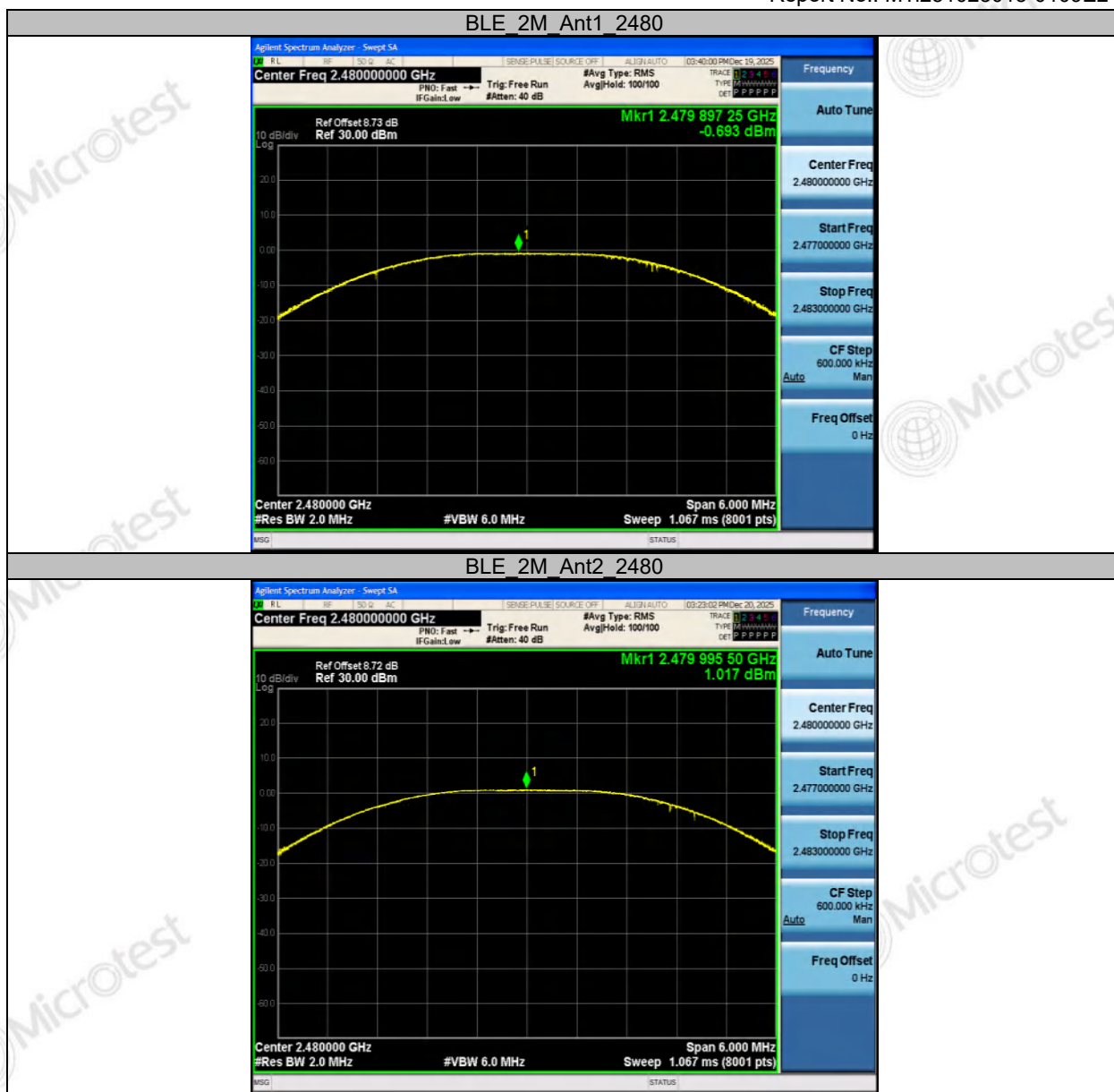
TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTi251023015-0109E2

Appendix C: Maximum power spectral density

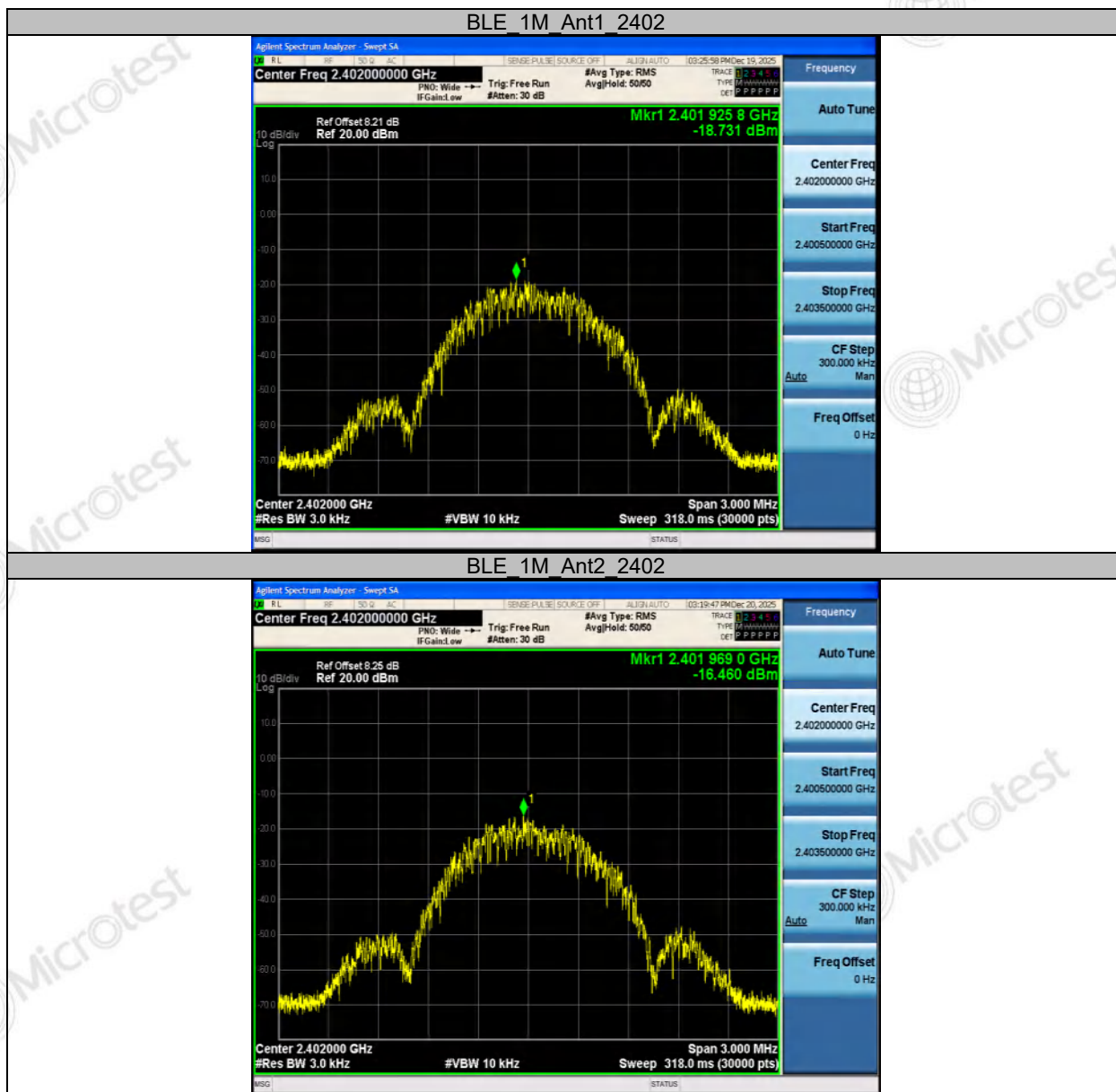
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.73	≤8.00	PASS
	Ant2	2402	-16.46	≤8.00	PASS
	Ant1	2440	-17.80	≤8.00	PASS
	Ant2	2440	-15.95	≤8.00	PASS
	Ant1	2480	-16.49	≤8.00	PASS
	Ant2	2480	-14.86	≤8.00	PASS
BLE_2M	Ant1	2402	-20.90	≤8.00	PASS
	Ant2	2402	-19.48	≤8.00	PASS
	Ant1	2440	-20.62	≤8.00	PASS
	Ant2	2440	-18.75	≤8.00	PASS
	Ant1	2480	-18.89	≤8.00	PASS
	Ant2	2480	-17.77	≤8.00	PASS

TEST REPORT

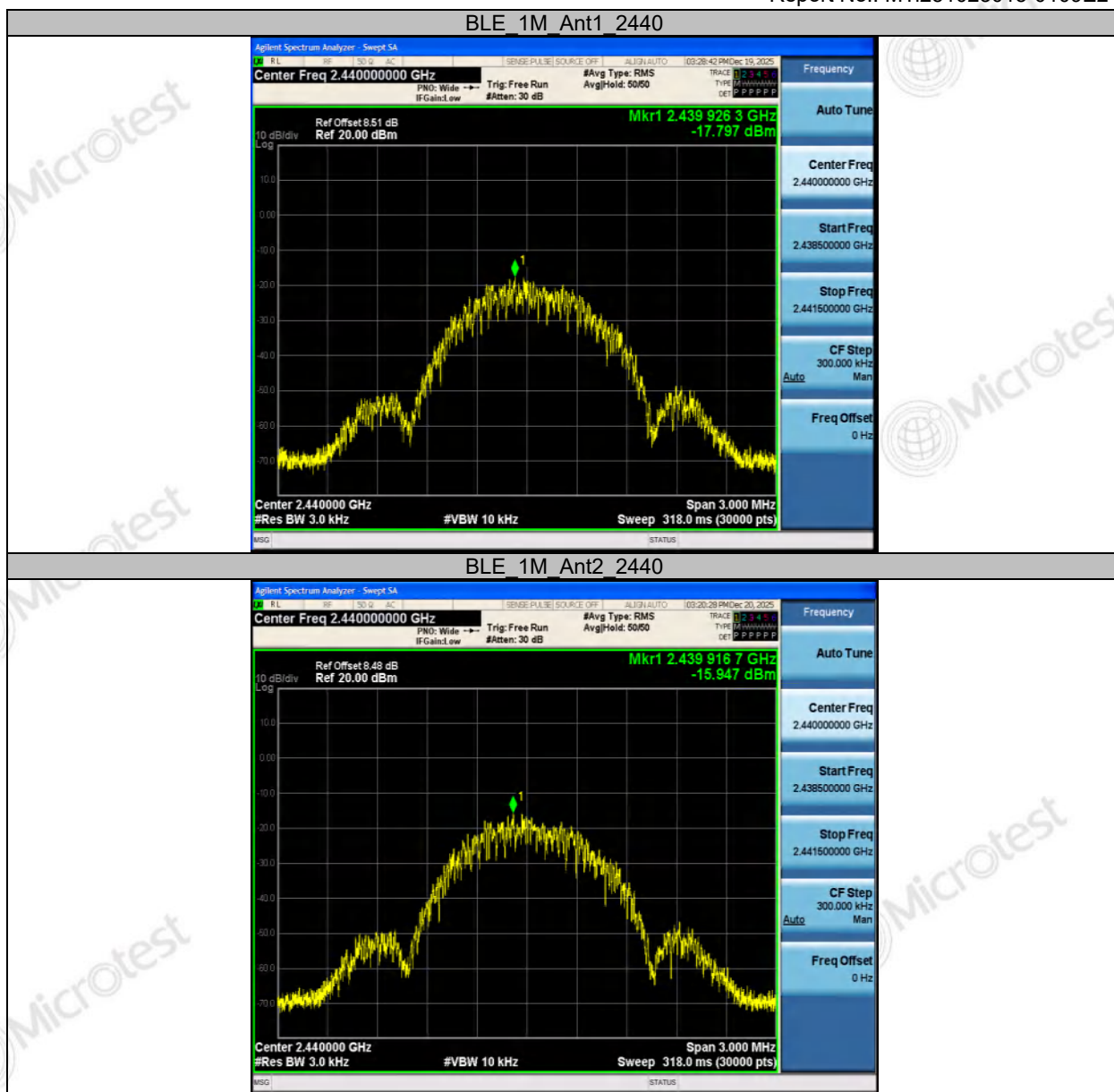
Report No.: MTi251023015-0109E2

Test Graphs



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2

BLE 1M Ant1 2480



BLE 1M Ant2 2480



TEST REPORT

Report No.: MTI251023015-0109E2

BLE 2M Ant1 2402

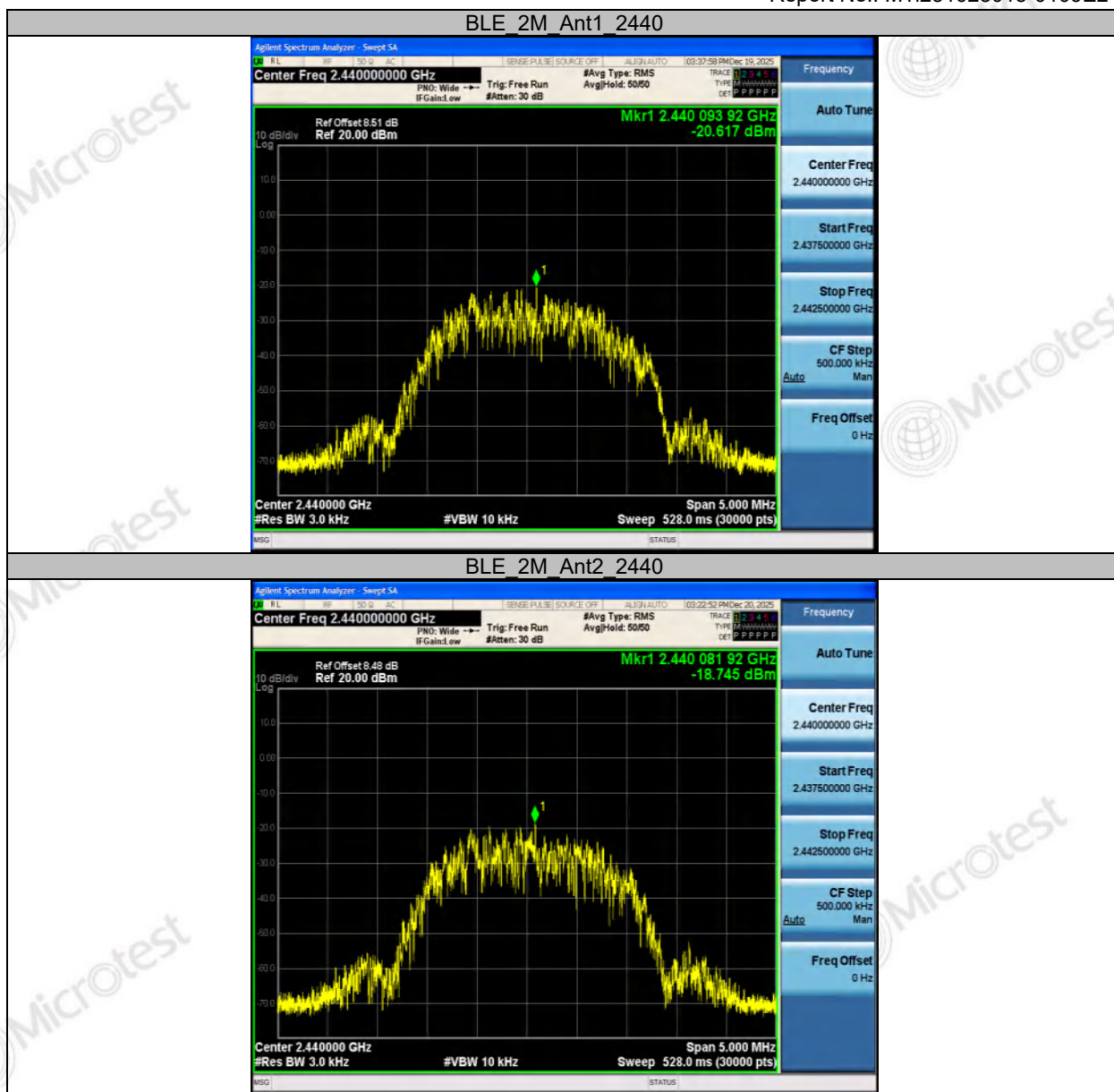


BLE 2M Ant2 2402



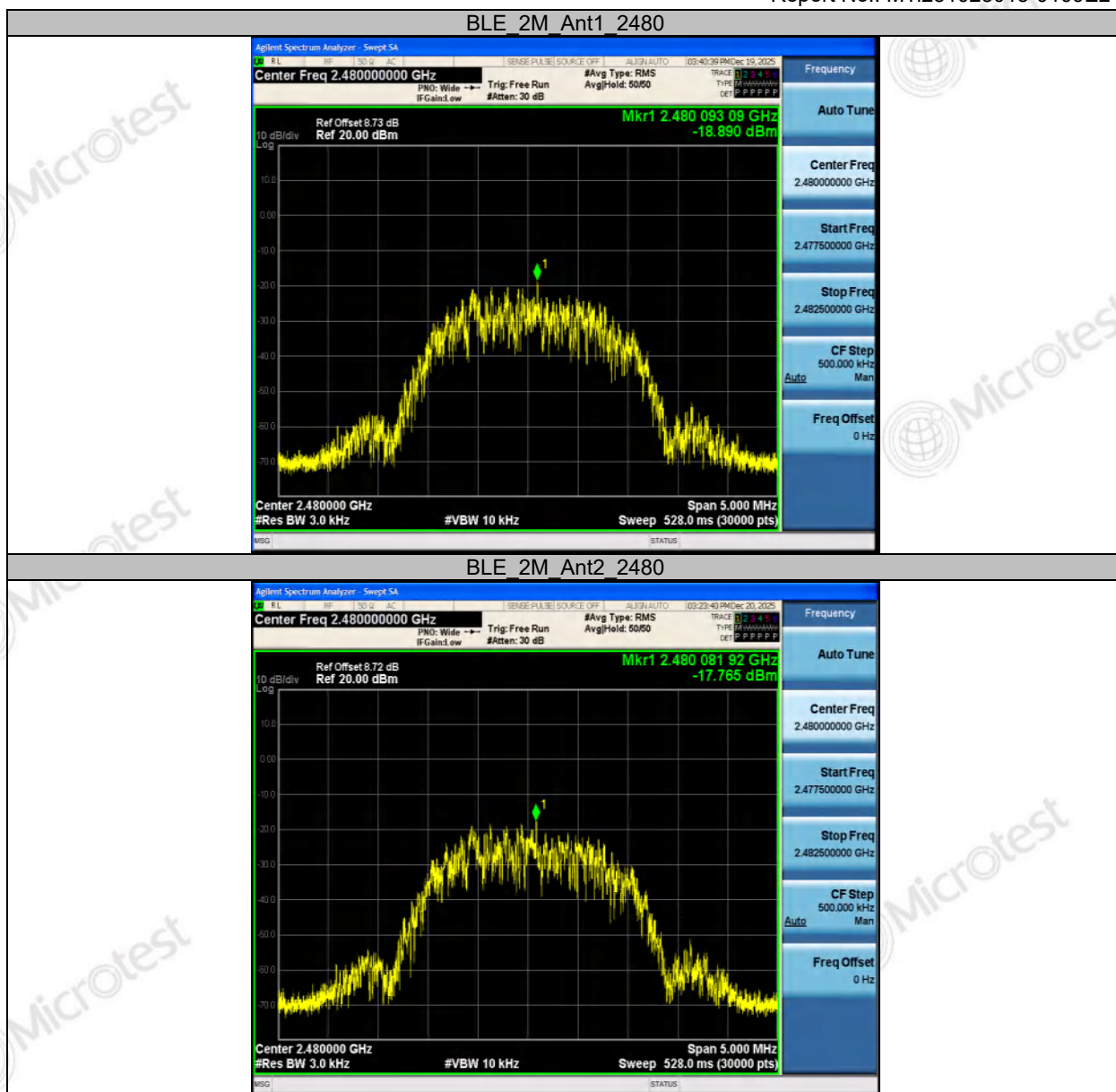
TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2

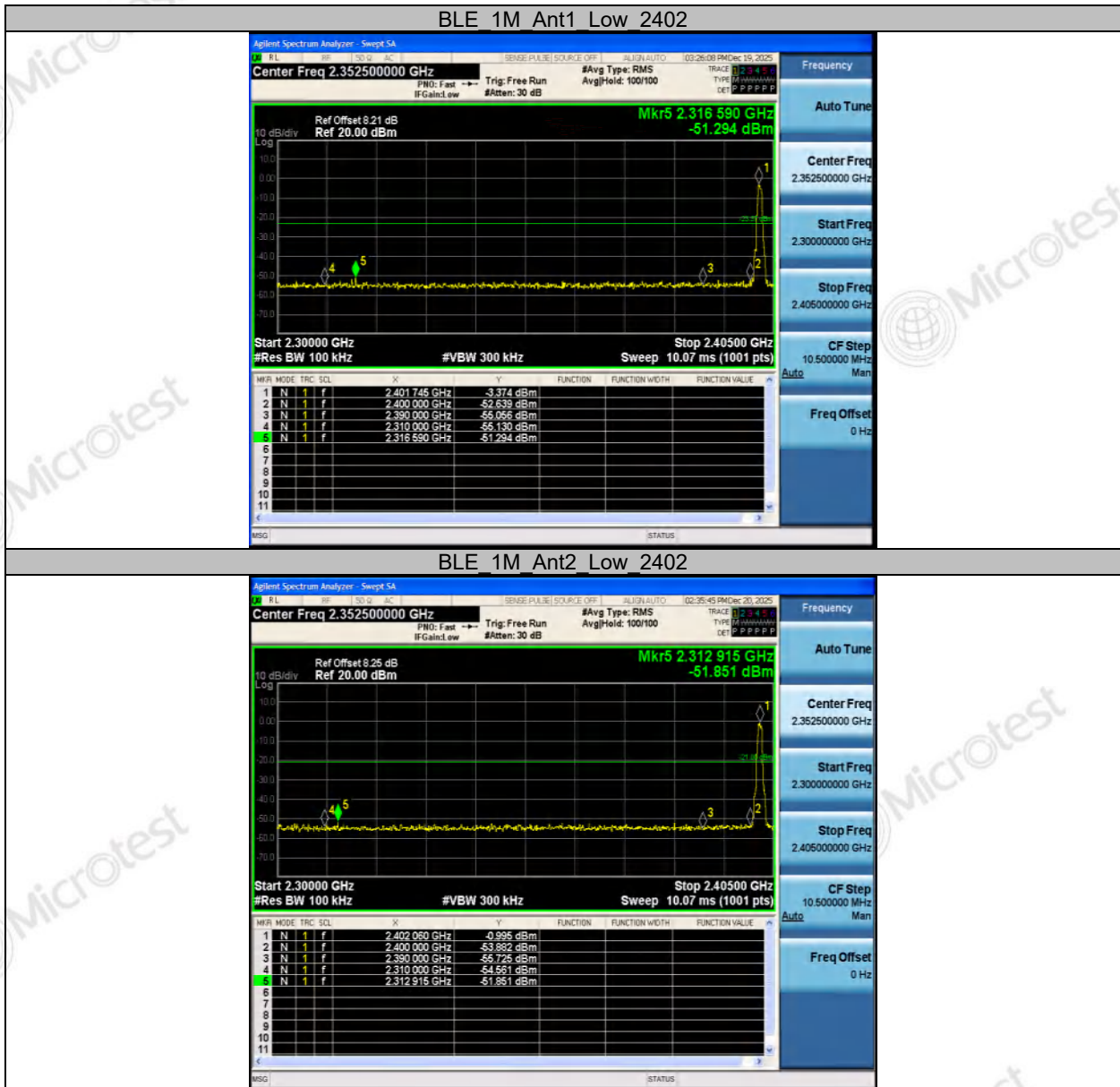


TEST REPORT

Report No.: MTi251023015-0109E2

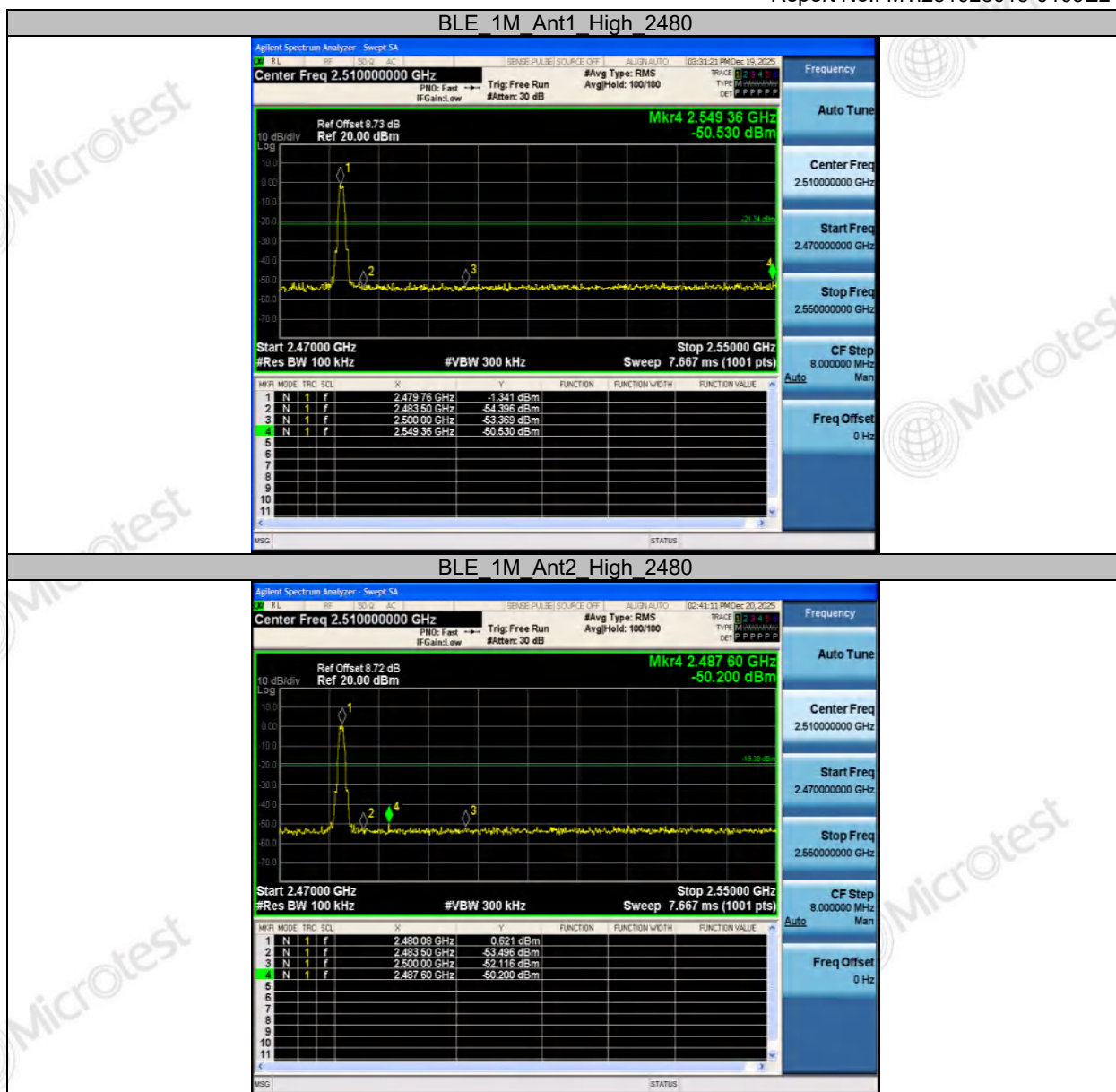
Appendix D: Band edge measurements

Test Graphs



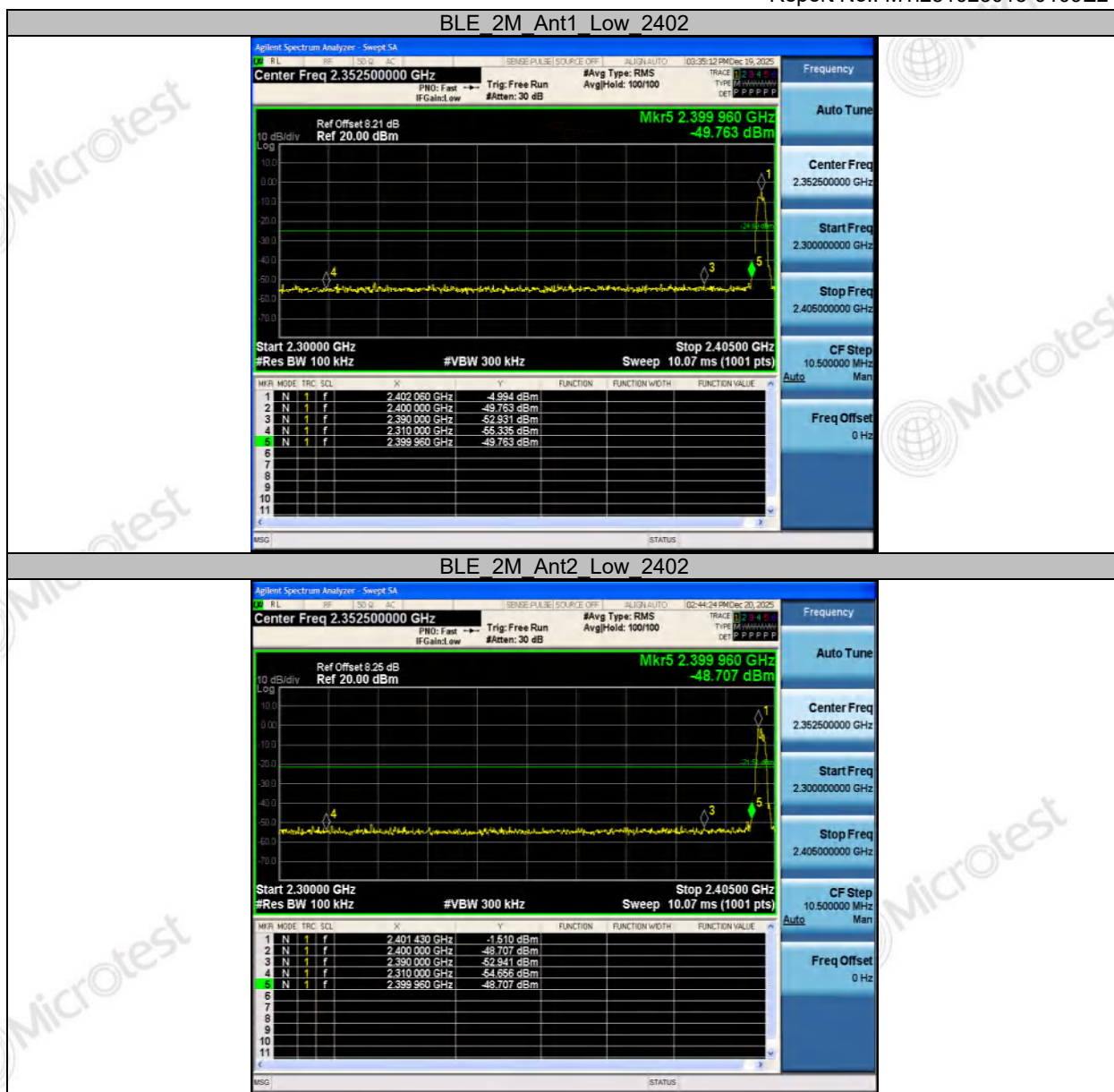
TEST REPORT

Report No.: MTi251023015-0109E2



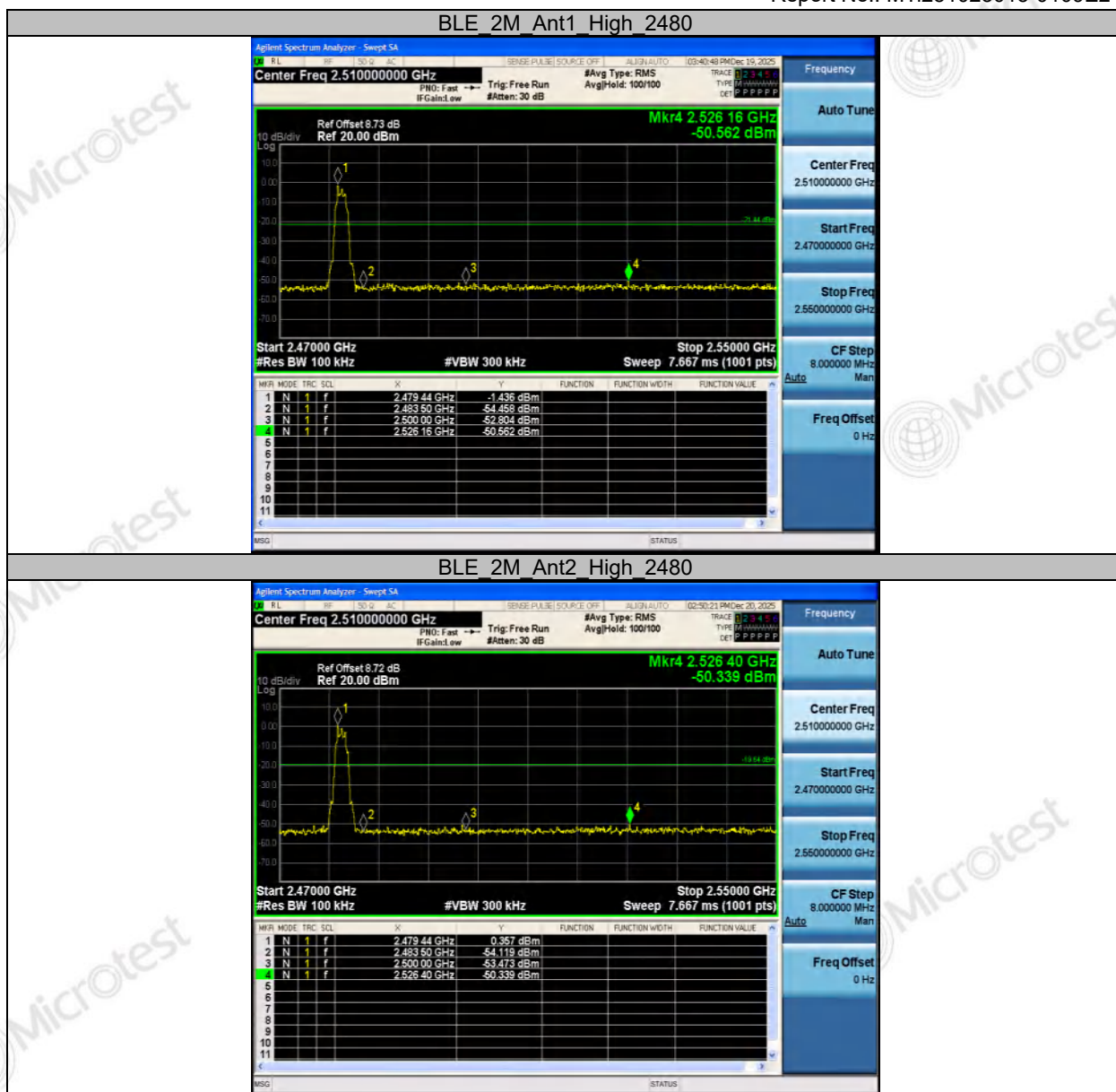
TEST REPORT

Report No.: MTi251023015-0109E2



TEST REPORT

Report No.: MTi251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2

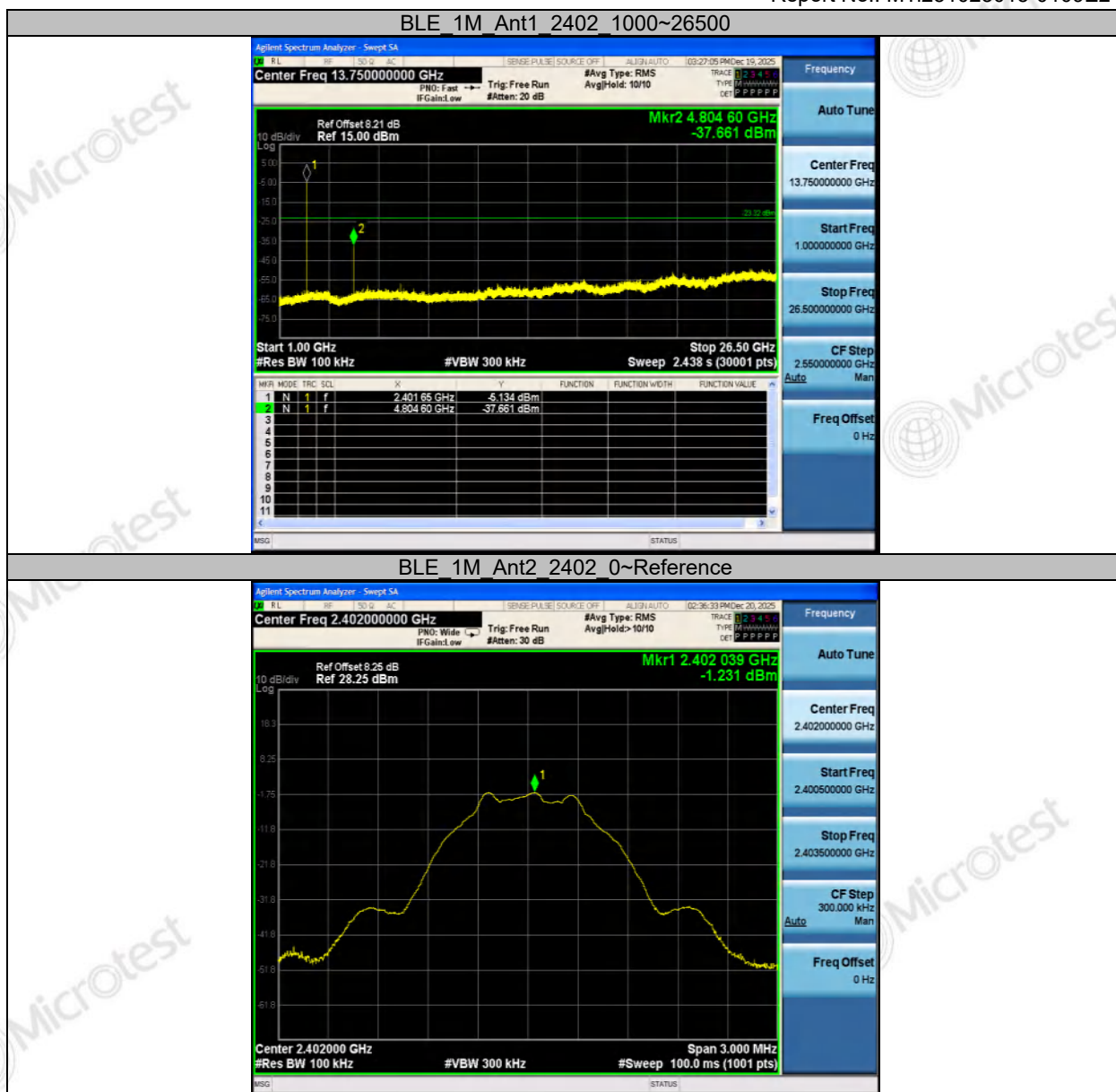
Appendix E: Conducted Spurious Emission

Test Graphs



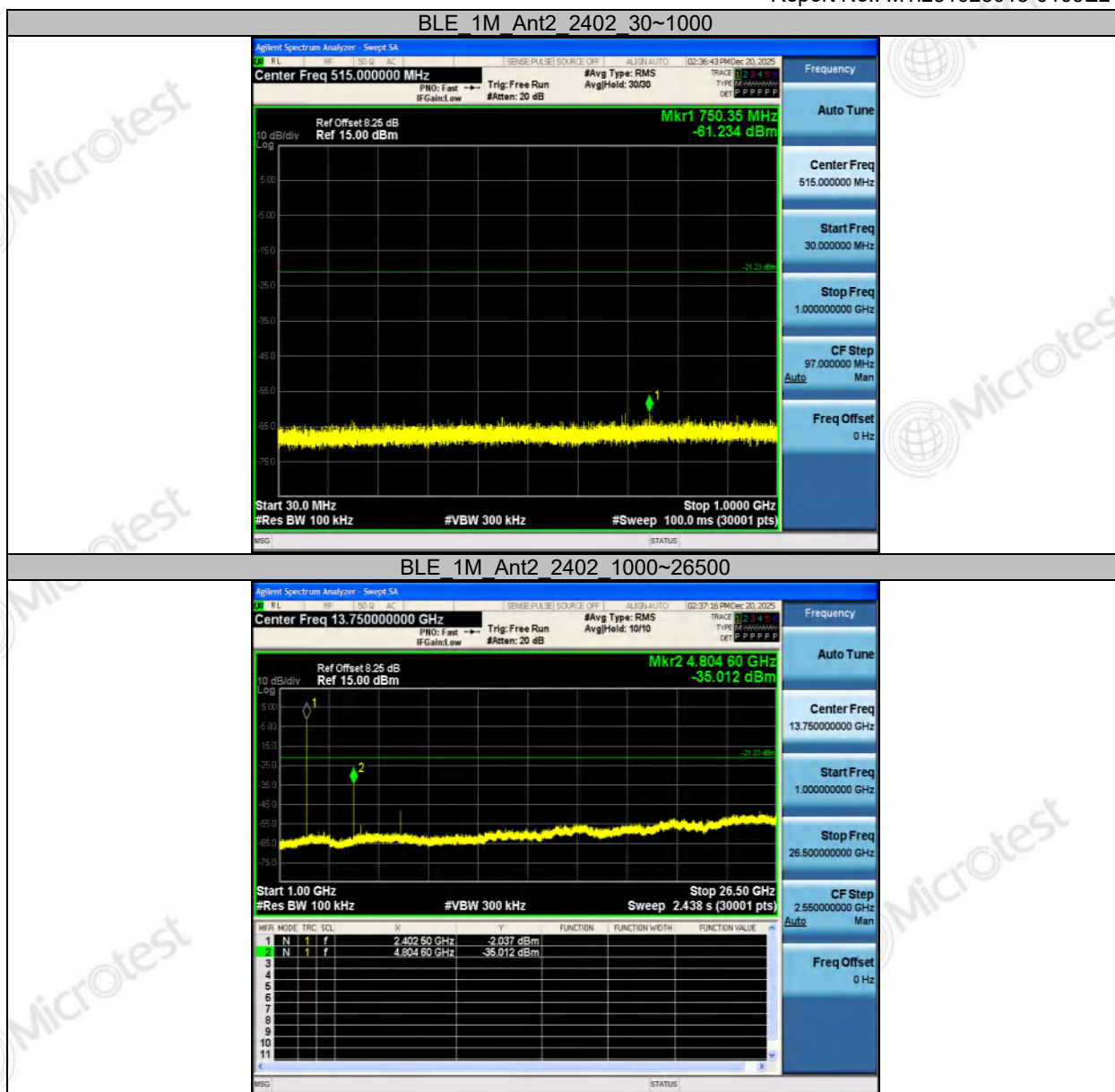
TEST REPORT

Report No.: MTI251023015-0109E2



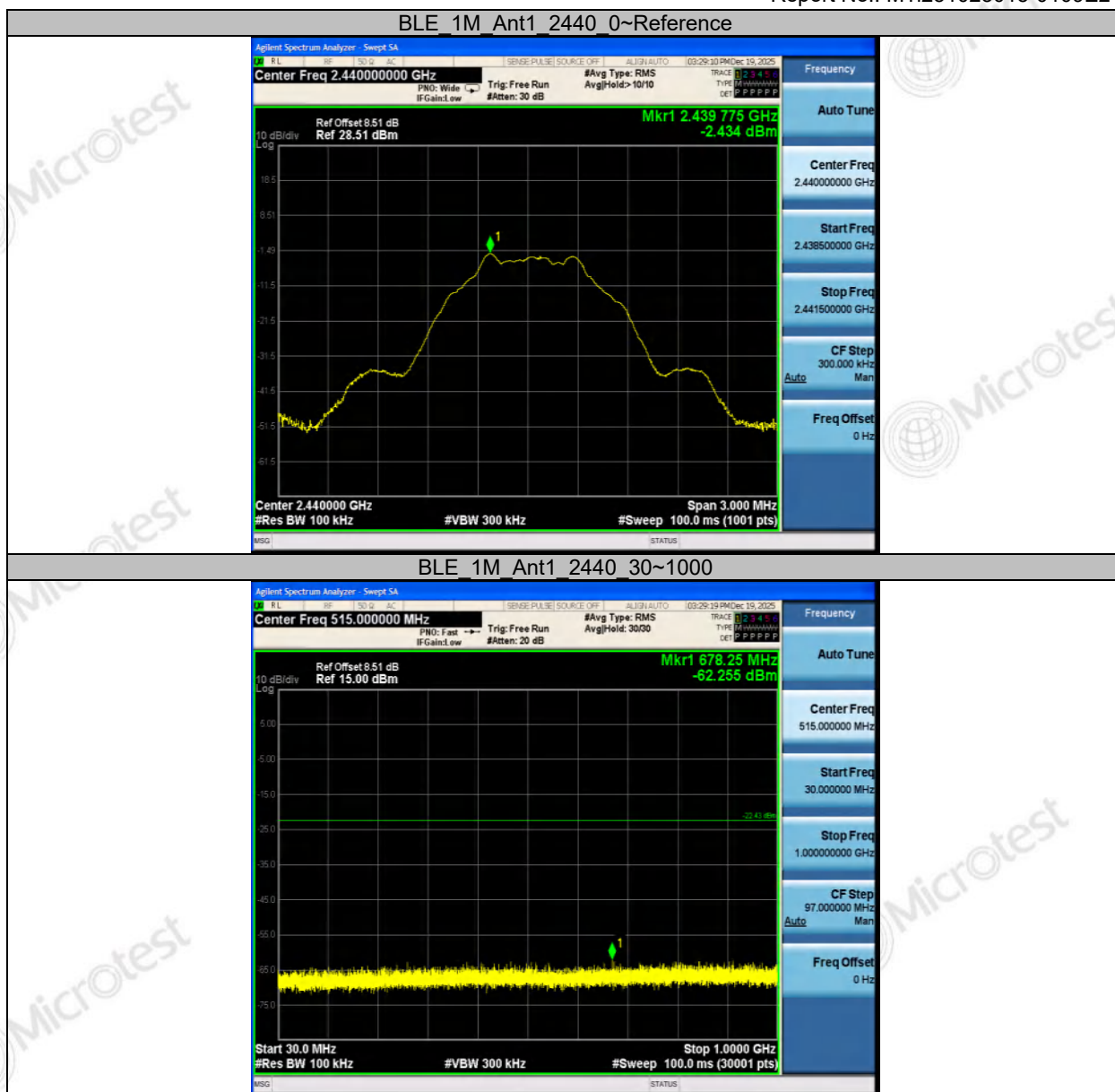
TEST REPORT

Report No.: MTI251023015-0109E2



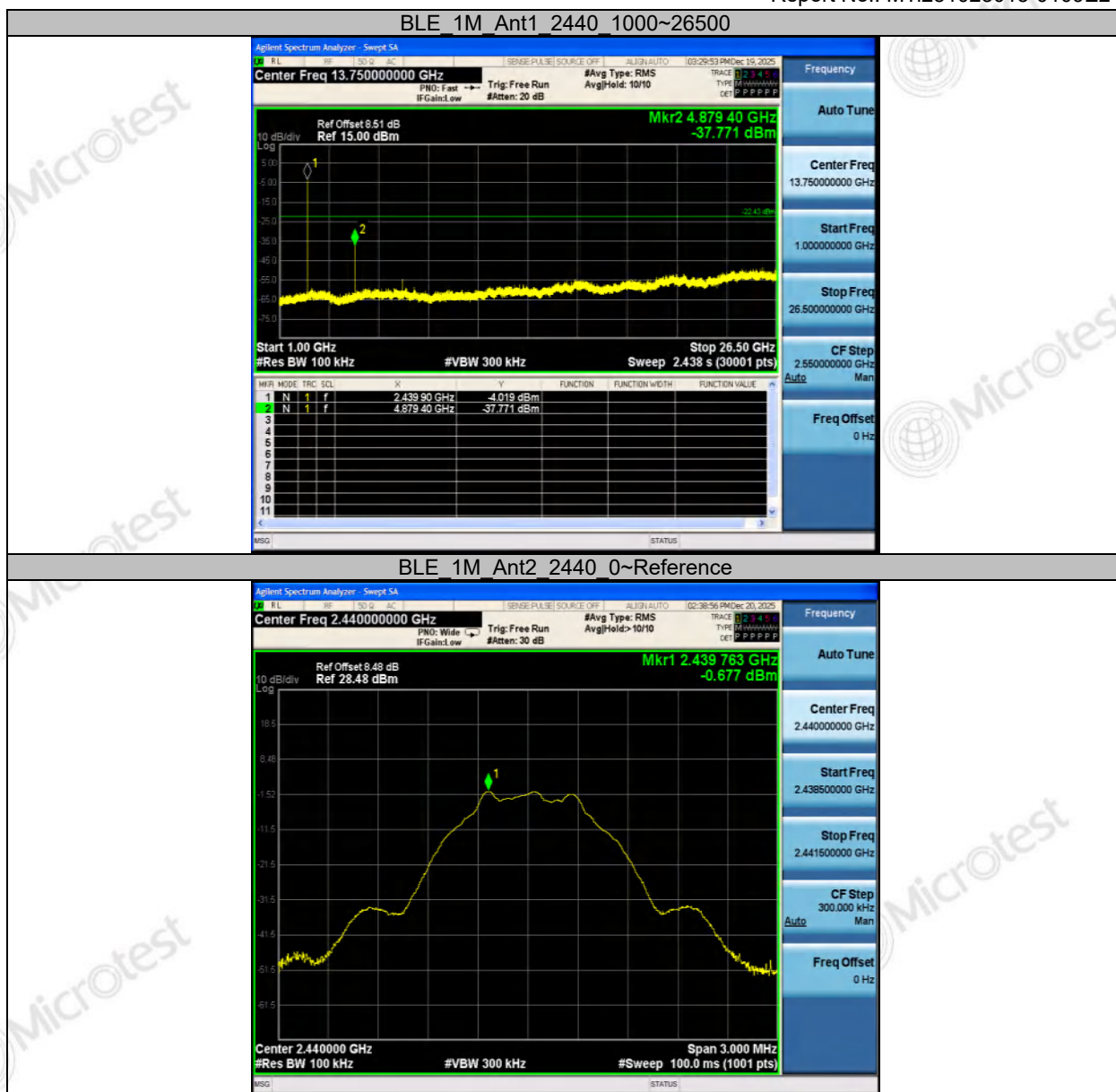
TEST REPORT

Report No.: MTi251023015-0109E2



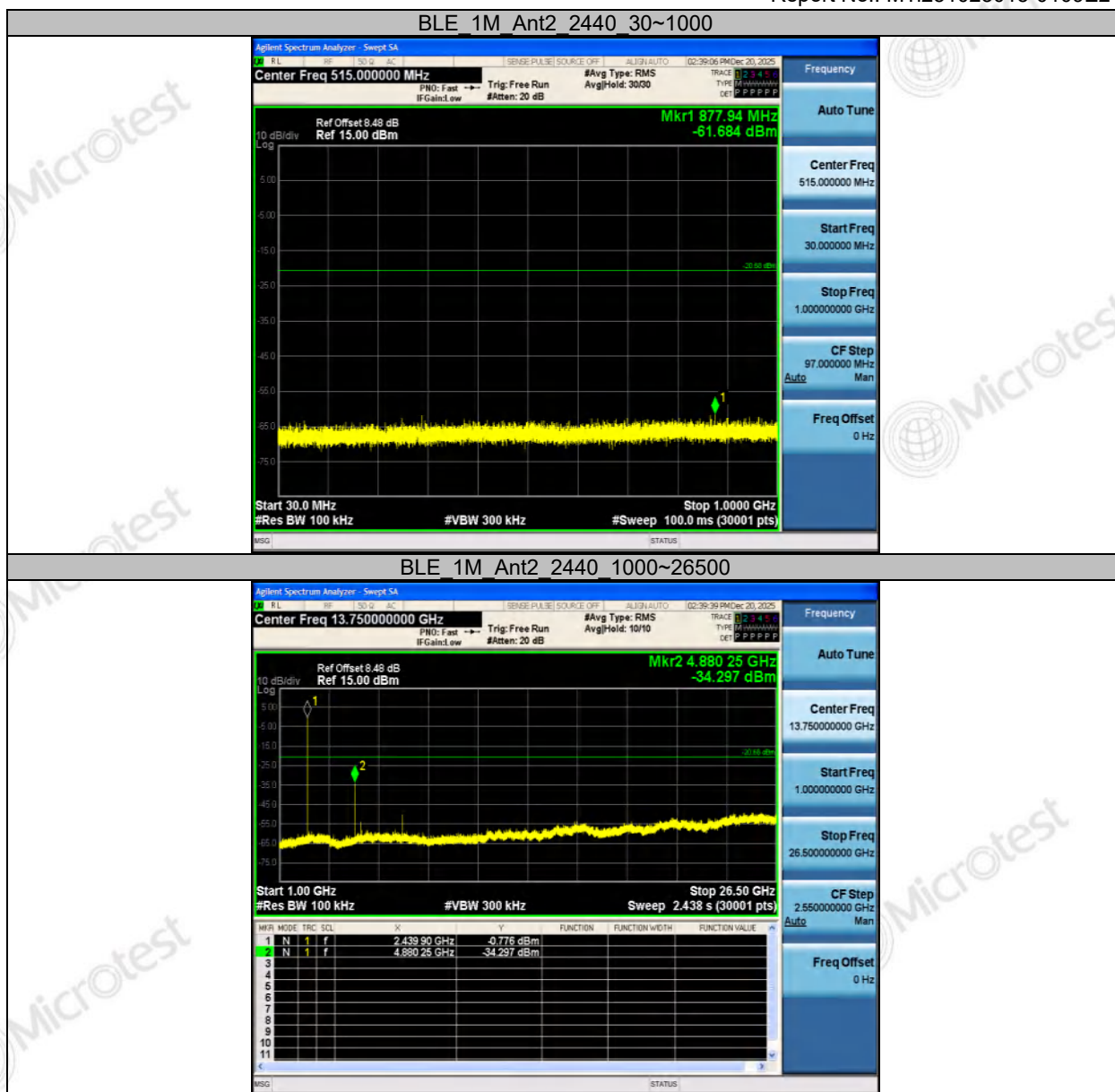
TEST REPORT

Report No.: MTi251023015-0109E2



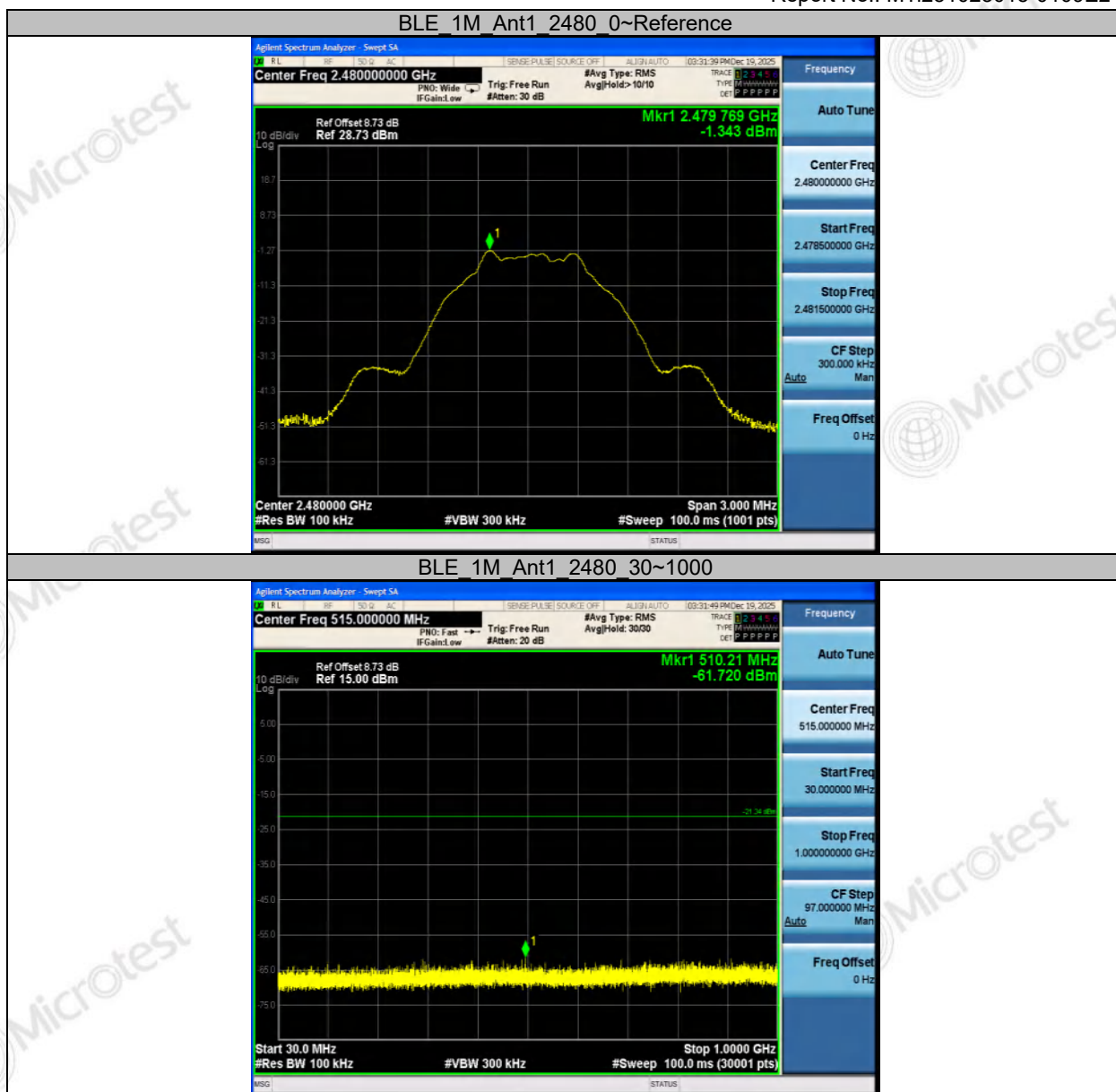
TEST REPORT

Report No.: MTI251023015-0109E2



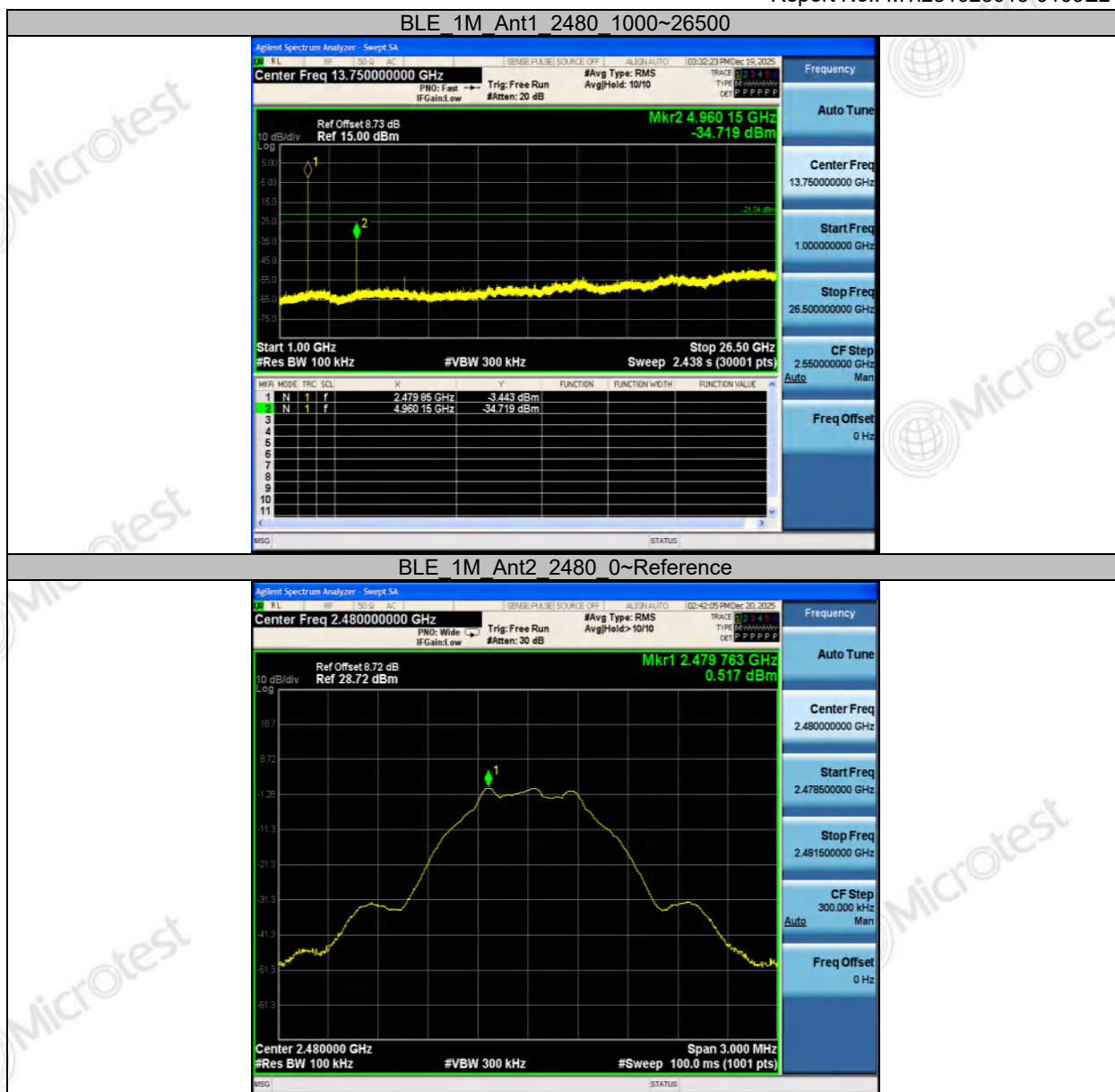
TEST REPORT

Report No.: MTi251023015-0109E2



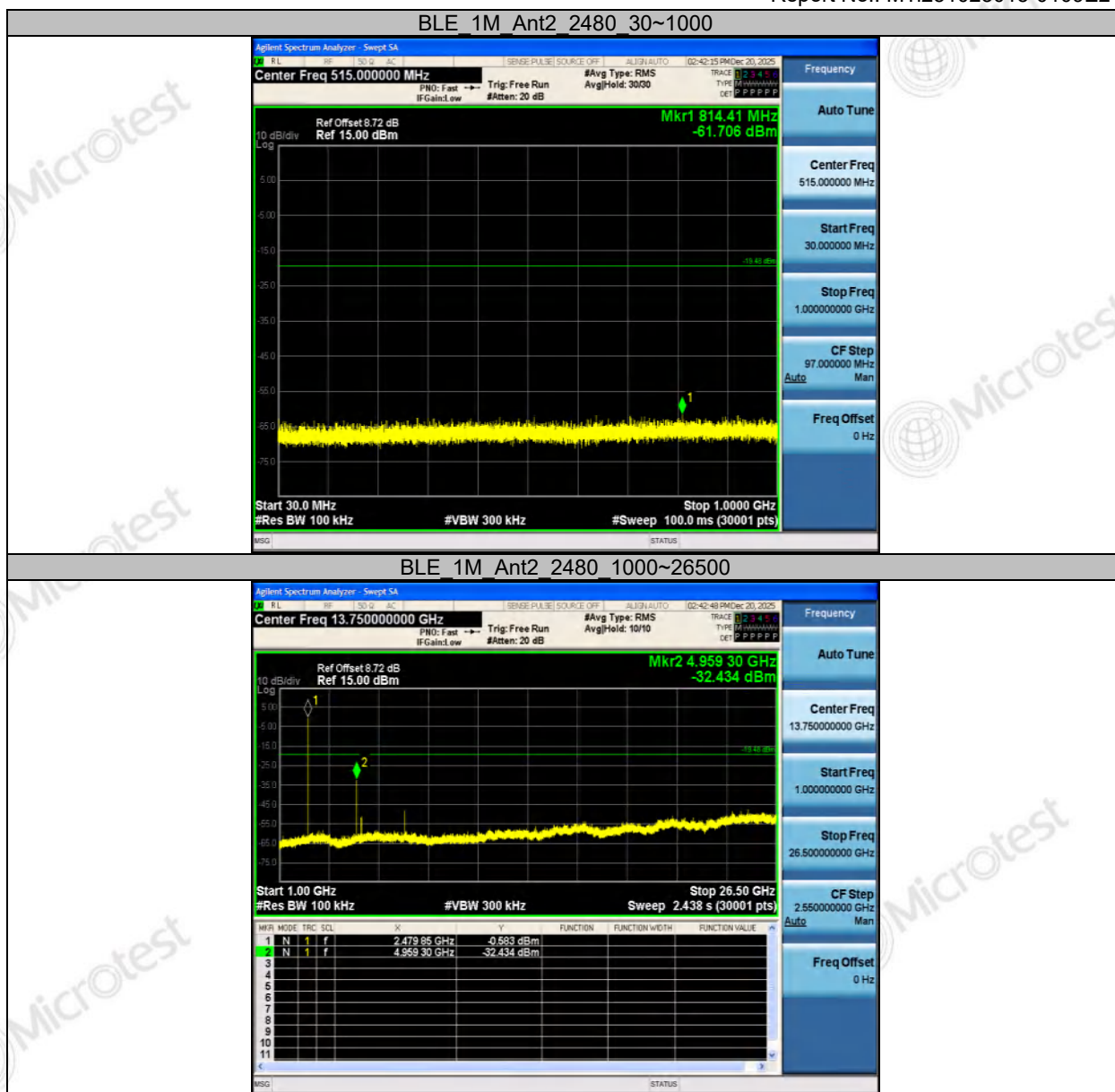
TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2



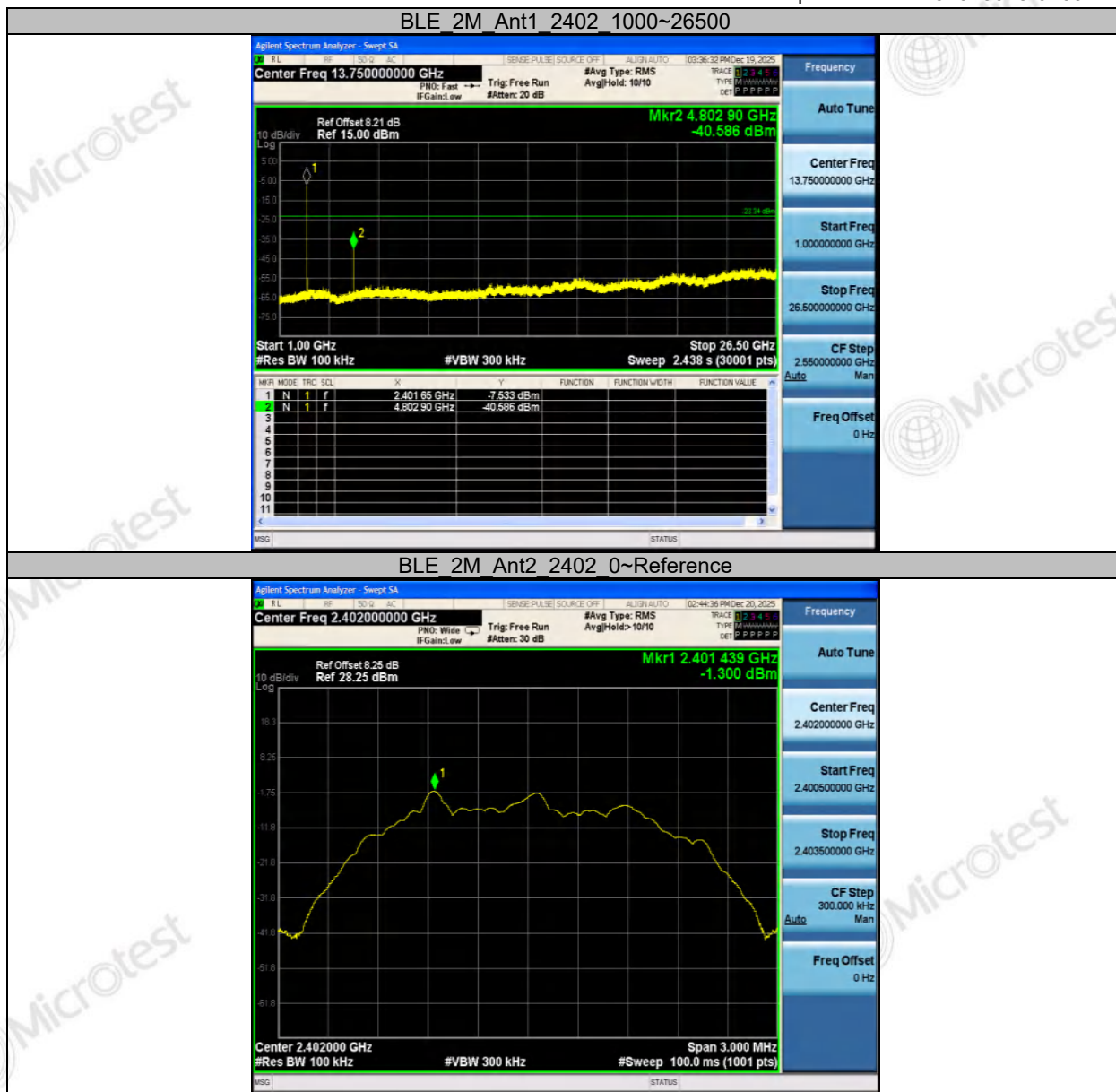
TEST REPORT

Report No.: MTi251023015-0109E2



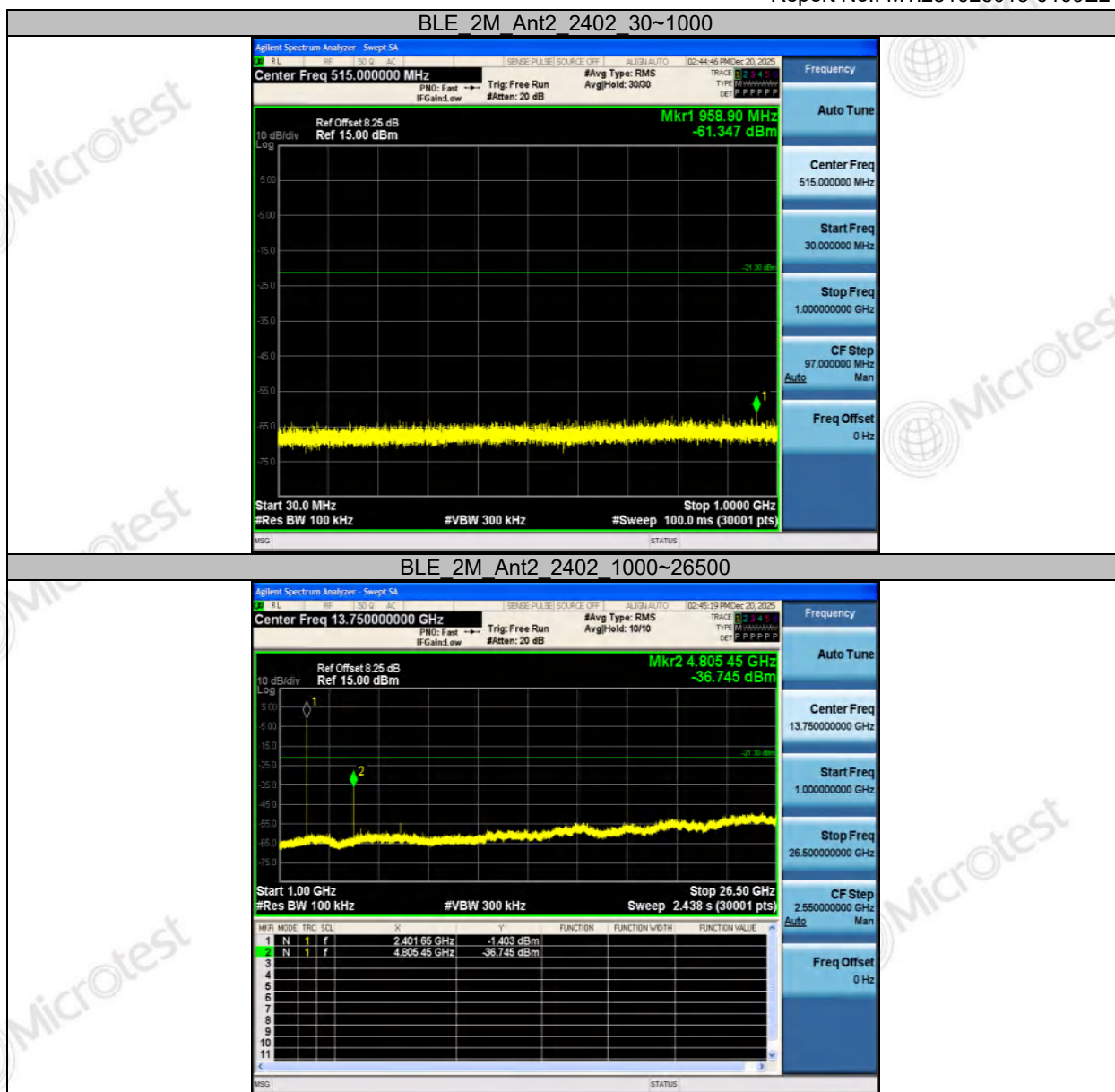
TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2



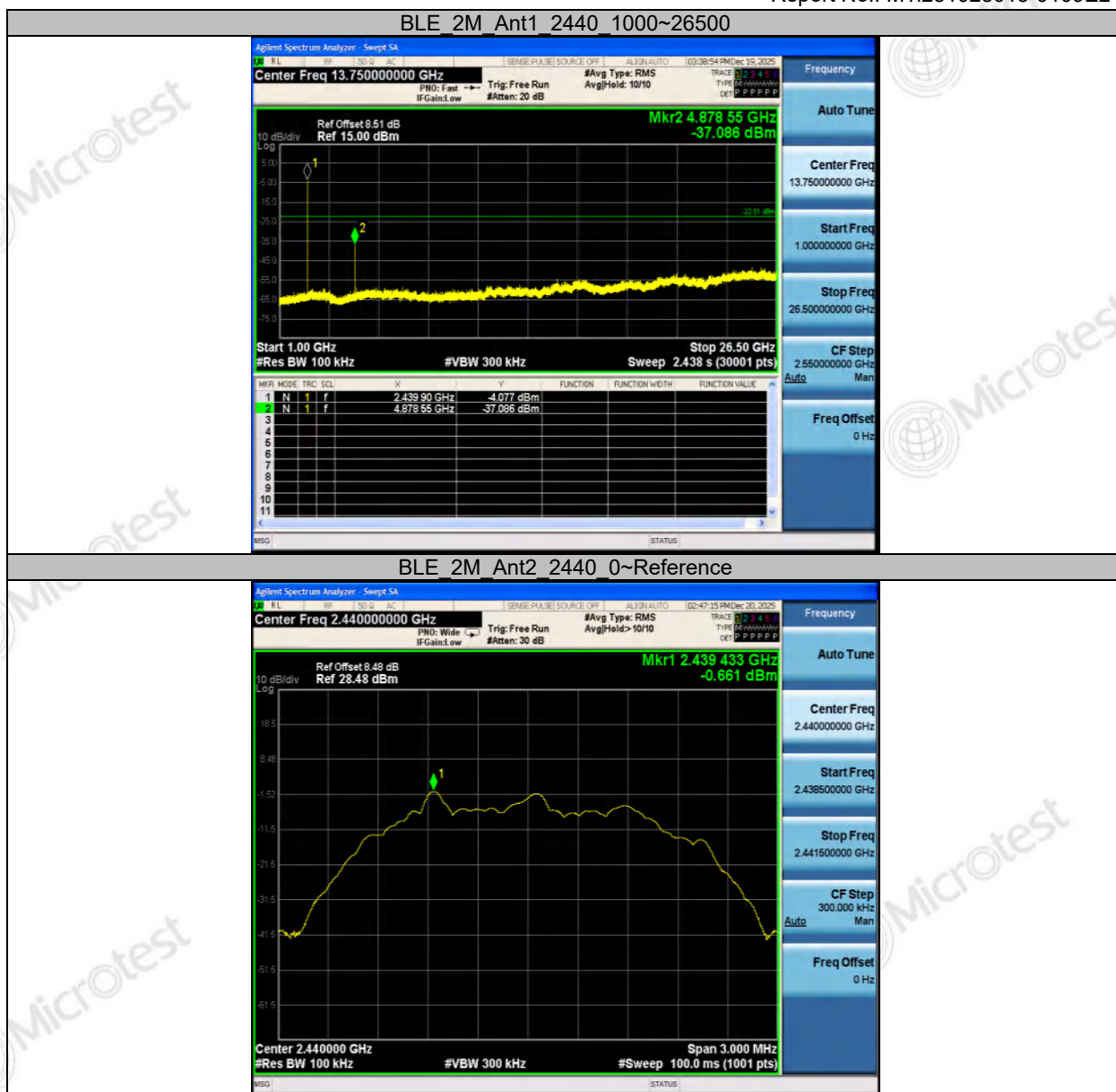
TEST REPORT

Report No.: MTi251023015-0109E2



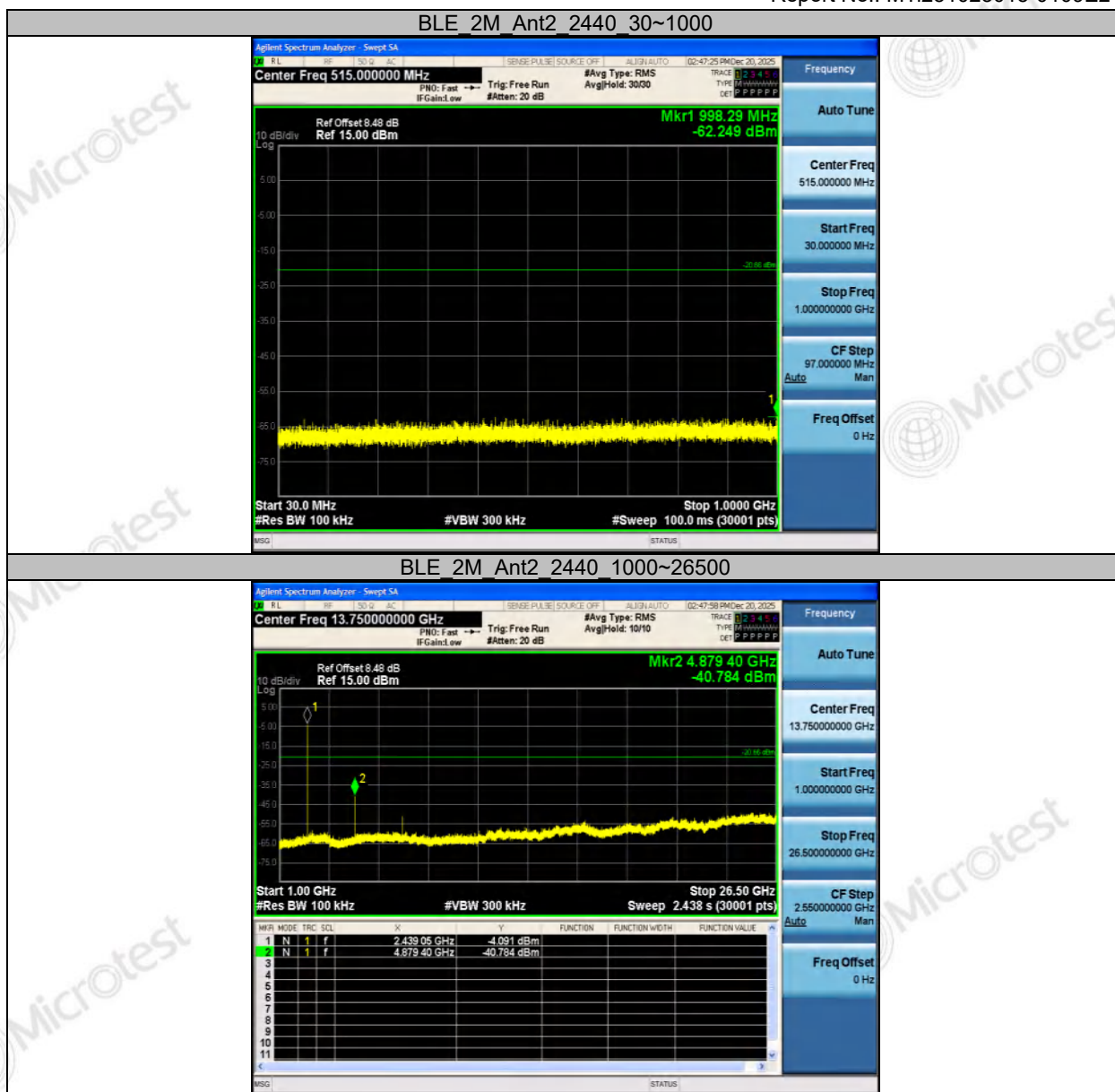
TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

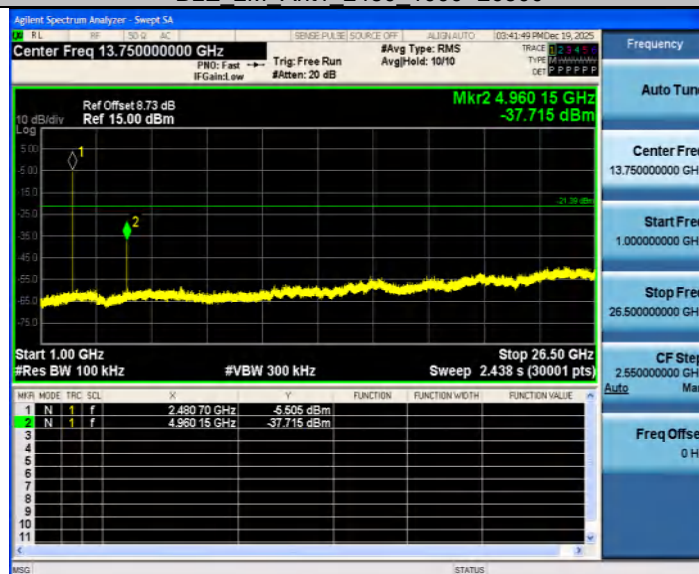
Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTI251023015-0109E2

BLE 2M Ant1 2480 1000~26500

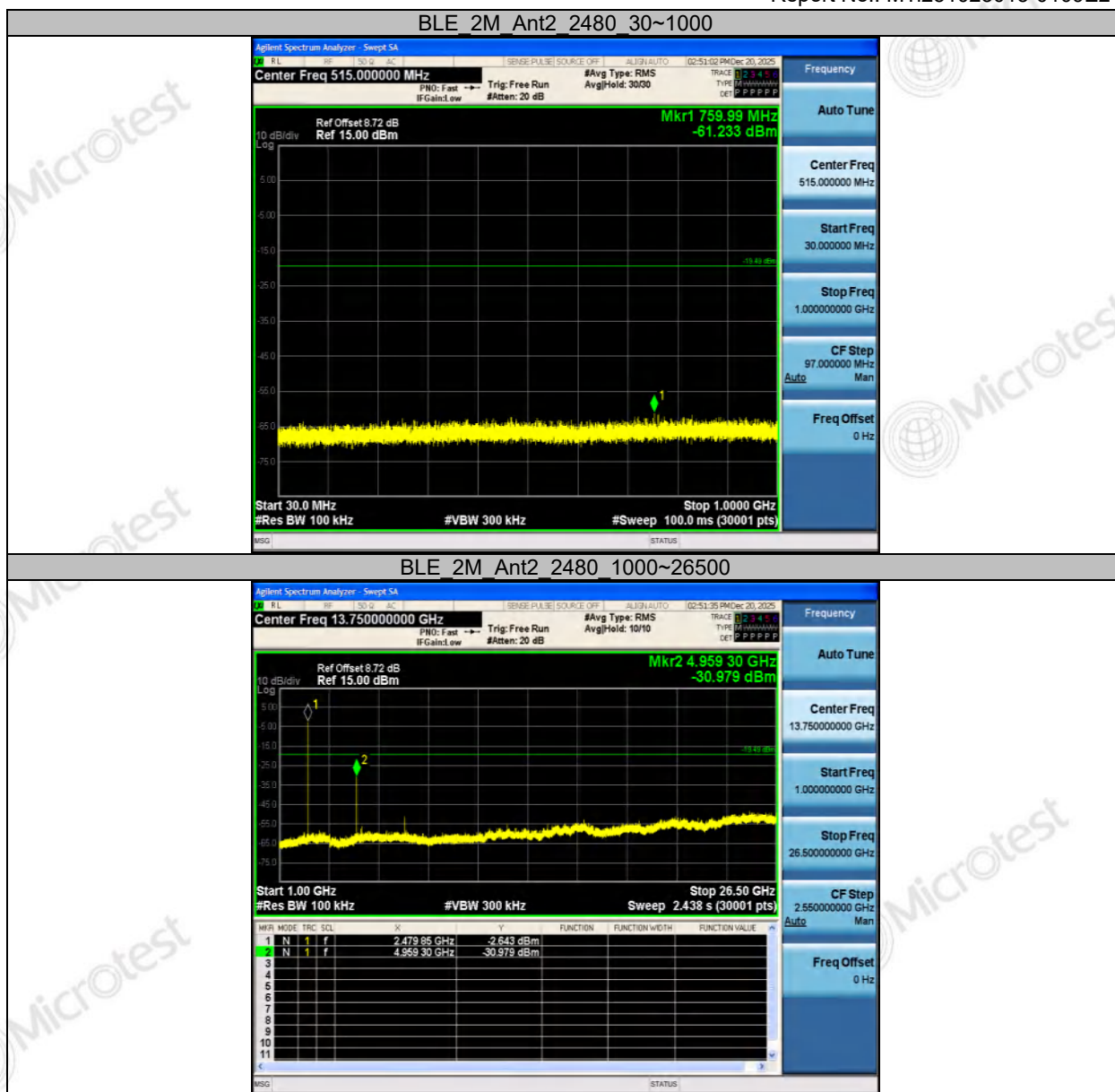


BLE 2M Ant2 2480 0~Reference



TEST REPORT

Report No.: MTI251023015-0109E2



TEST REPORT

Report No.: MTi251023015-0109E2

Appendix F: Duty Cycle

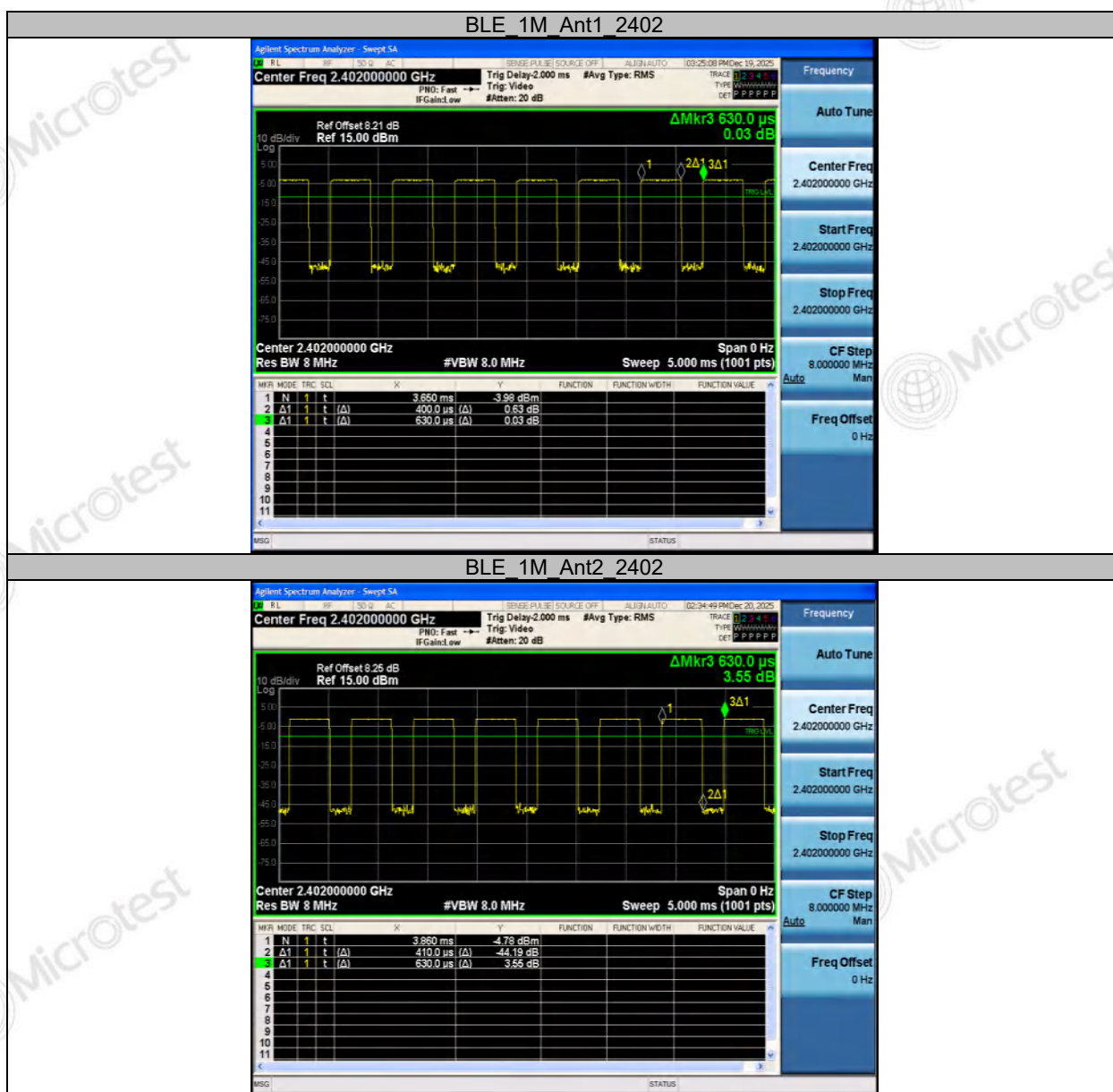
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	0.40	0.63	63.49	1.97
	Ant2	2402	0.41	0.63	65.08	1.87
	Ant1	2440	0.40	0.62	64.52	1.90
	Ant2	2440	0.41	0.63	65.08	1.87
	Ant1	2480	0.41	0.63	65.08	1.87
	Ant2	2480	0.41	0.63	65.08	1.87
BLE_2M	Ant1	2402	0.22	0.63	34.92	4.57
	Ant2	2402	0.22	0.63	34.92	4.57
	Ant1	2440	0.22	0.63	34.92	4.57
	Ant2	2440	0.22	0.63	34.92	4.57
	Ant1	2480	0.22	0.63	34.92	4.57
	Ant2	2480	0.21	0.62	33.87	4.70

TEST REPORT

Report No.: MTI251023015-0109E2

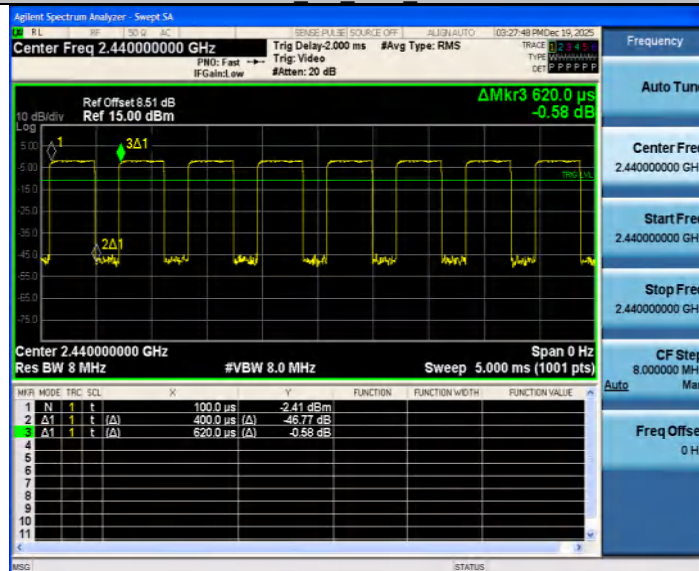
Test Graphs



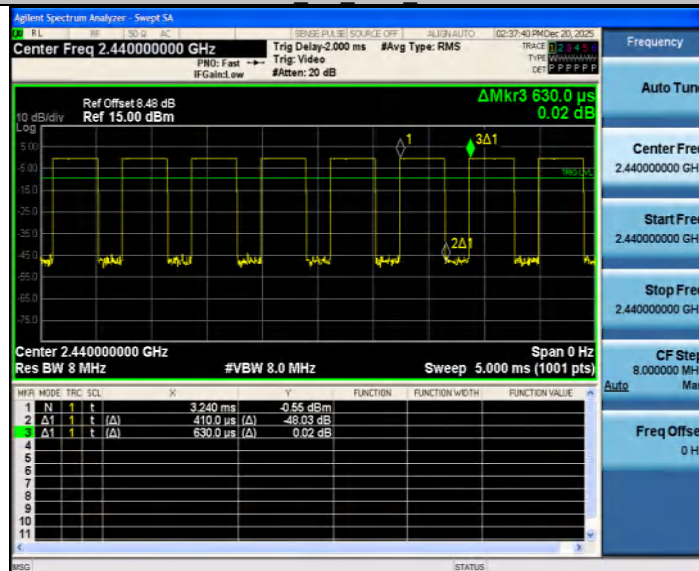
TEST REPORT

Report No.: MTI251023015-0109E2

BLE 1M Ant1 2440



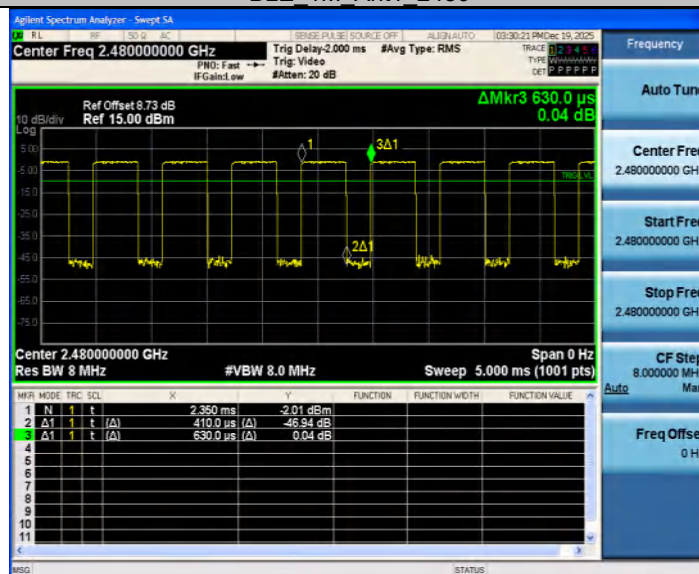
BLE 1M Ant2 2440



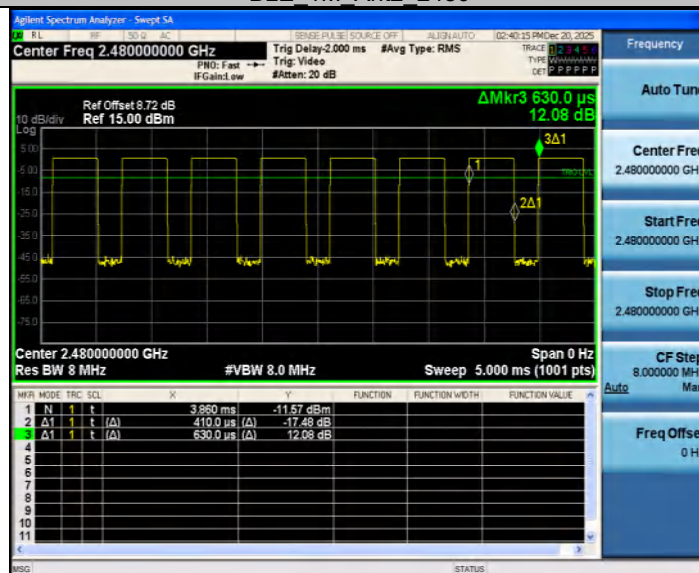
TEST REPORT

Report No.: MTI251023015-0109E2

BLE 1M Ant1 2480



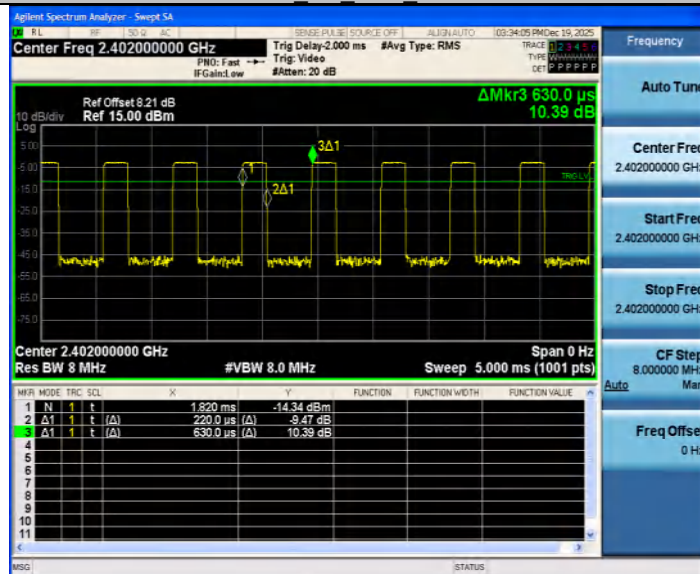
BLE 1M Ant2 2480



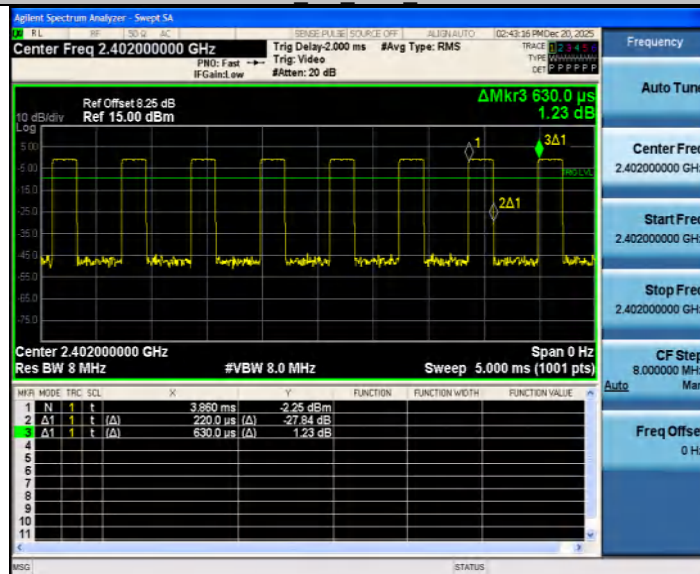
TEST REPORT

Report No.: MTI251023015-0109E2

BLE 2M Ant1 2402



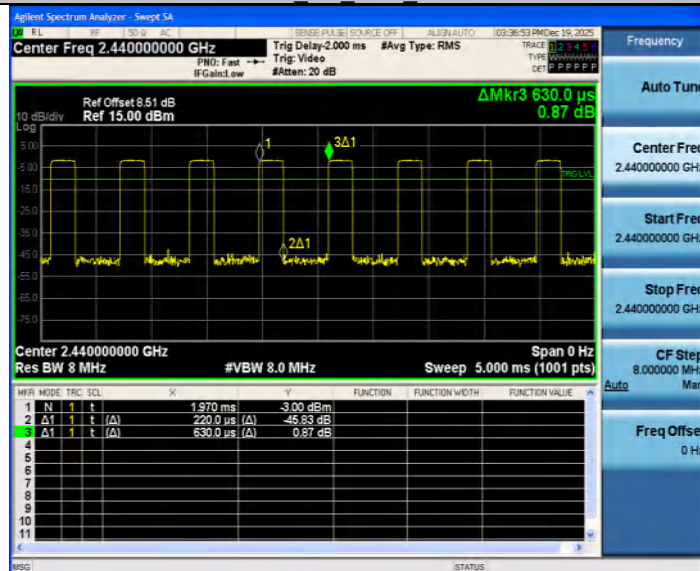
BLE 2M Ant2 2402



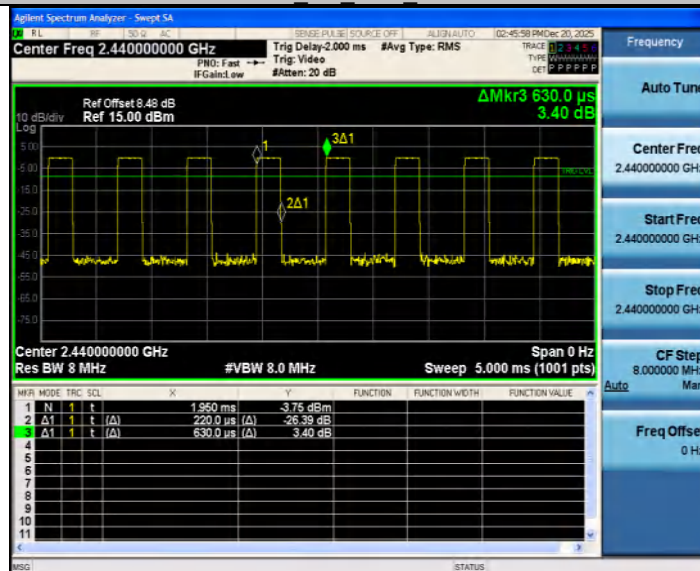
TEST REPORT

Report No.: MTI251023015-0109E2

BLE 2M Ant1 2440



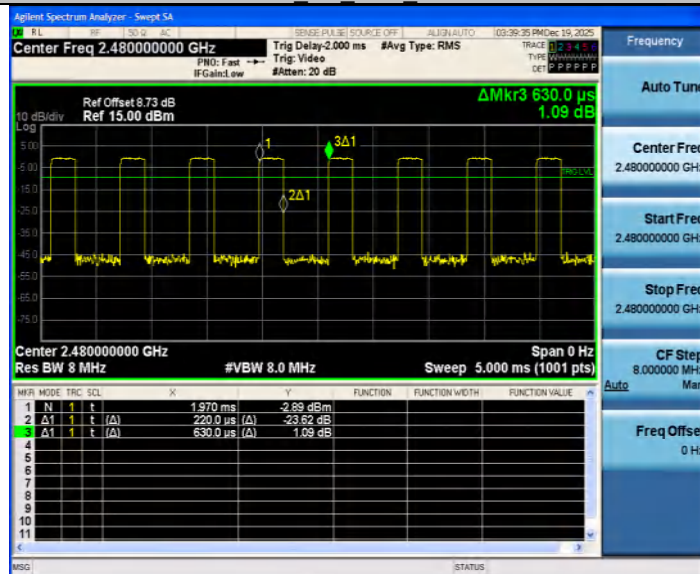
BLE 2M Ant2 2440



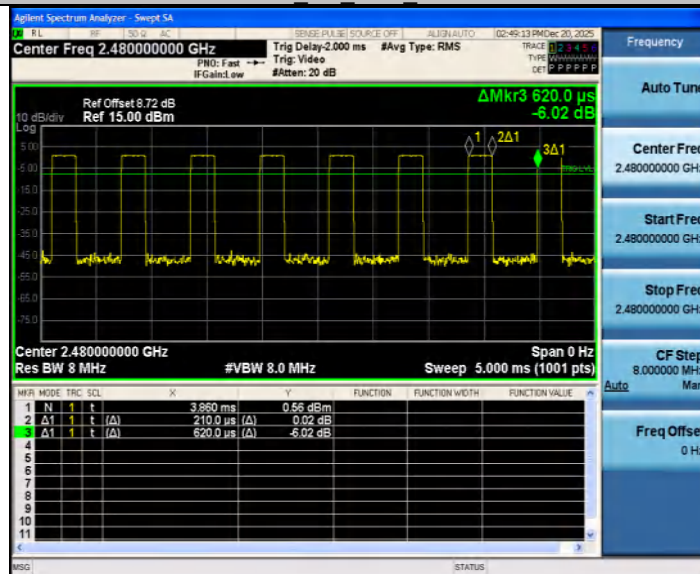
TEST REPORT

Report No.: MTi251023015-0109E2

BLE 2M Ant1 2480



BLE 2M Ant2 2480



TEST REPORT

Report No.: MTi251023015-0109E2

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****