

Test Report

Report No. : MTi260321001-0108E1
Date of issue : 2026-06-25
Applicant : SHENZHEN POWEROAK NEWENER CO., LTD
Product : Portable Power Station
Model(s) : Elite 100 mini
FCC ID : 2AYT3-EL100MINI

Shenzhen Microtest Co., Ltd.

TEST REPORT

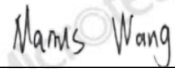
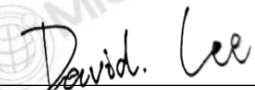
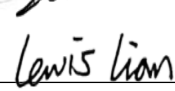
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Test Result Certification		
Applicant	SHENZHEN POWEROAK NEWENER CO., LTD	
Applicant Address	F19, BLD No.1, Kaidaer, Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China	
Manufacturer	SHENZHEN POWEROAK NEWENER CO., LTD	
Manufacturer Address	F19, BLD No.1, Kaidaer, Tongsha Rd No.168, Xili Street, Nanshan, Shenzhen, China	
Factory	Huizhou PowerOak Innovation Co., Ltd	
Factory Address	(No.1 Workshop) Longsheng 5th Road, Laoshe Village, Dayawan West Zone, Huizhou, Guangdong, China	
Product description		
Product name	Portable Power Station	
Trademark	BLUETTI	
Model name	Elite 100 mini	
Series Model(s)	N/A	
Standards	47 CFR Part 15.247	
Test Method	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 KDB 558074 D01 15.247 Meas Guidance v05r02*	
Testing Information		
Date of test	2026-05-13 to 2026-06-24	
Test result	Pass	
Prepared by:	Manus Wang	
Reviewed by:	David Lee	
Approved by:	Lewis Lian	

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1 General Description

1.1 Description of the EUT

Product name:	Portable Power Station
Model name:	Elite 100 mini
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: AC: 120V~50/60Hz, 6A DC/PV: 12V-60V=10A, 350W Output: AC: 120V~50/60Hz, 700W Total USB-A: 5V=3A USB-C(65W): 5/9/12/15/20V=3.25A USB-C(140W): 5/9/15V=3A; 20/28V=5A Cigarette Lighter Port: 12V=10A DC5521: 12=8A per port, Total 8A DC5521 and Cigarette Lighter: Total 10A DC Output: 200W Total AC&DC Output: 700W Total Battery Capacity: 1004.8Wh, 3.2V=314Ah
Accessories:	AC Power Cable
Hardware version:	V6.0
Software version:	25.0301.10009.01-08
Test sample(s) number:	MTi260321001-01-R001
RF specification	
Bluetooth version:	V5.0
Operating frequency range:	2402MHz to 2480MHz
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	PCB Antenna
Antenna(s) gain:	3.37dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX mode(GFSK-1M)
Mode2	TX mode(GFSK-2M)
Mode3	TX mode(GFSK-125K)
Mode4	TX mode(GFSK-500K)

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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
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

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2	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: EspRFTTestTool

For power setting, refer to below table.

Mode	2402MHz	2440MHz	2480MHz
1M	12	12	12
2M	12	12	12
125K	12	12	12
500K	12	12	12

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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

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
Laptop	e485	/	Lenovo
SMA Female to U.FL (IPEX4) RF Coaxial Jumper Cable	RG178-SMAF-UFL4-150MM	RL-RG178-260618-0037	SHENZHEN RUILINK ELECTRONICS CO., LTD.
USB 2.0 A Male to A Female Extension Cable	USB2.0-AMAF-0.3M-BL	LT-USB2-AMAF-260618-0129	BELKIN INTERNATIONAL, INC.
USB to TTL Serial Adapter Module	CH340G USB-TTL	CH340G 2435A382	WCH (NANJING QINHENG MICROELECTRONICS CO., LTD.)

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	2026-03-10	2027-03-09
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2026-03-11	2027-03-10
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2026-03-10	2027-03-09
4	EMI Test Software	Farad	EZ-EMC	Ver. EMEC-3A1	/	/
5	RF Coaxial cable	Tonscend	LMR240-N/BNC-JJ-2m	/	2026-03-10	2027-03-09
6dB Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2026-03-09	2027-03-08
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2026-03-09	2027-03-08
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2026-03-10	2027-03-09
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2026-03-09	2027-03-08
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2026-03-11	2027-03-10
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2026-03-11	2027-03-10
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2026-03-10	2027-03-09
9	DC Power Supply	Agilent	E3632A	MY40027695	2026-03-09	2027-03-08
10	RF Test System	Tonscend	JS1120-3 Test System	V3.6.21	/	/
11	RF Coaxial cable	LEITAI M-WAVE	SFT205-NMSWSM-1.5m	546974-0003	2025-09-26	2026-09-25
Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2026-03-10	2027-03-09
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2025-05-27	2027-05-26
3	Amplifier	Agilent	8449B	3008A01120	2026-03-10	2027-03-09
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2026-03-10	2027-03-09

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No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2025-05-27	2027-05-26
7	Pre-amplifier	Space-Dtronics	EWLAN18 40G	210405001	2026-03-11	2027-03-10
8	EMI Test Software	Farad	EZ-EMC	Ver. EMEC-3A1	/	/
9	RF Coaxial cable	LEITAI M-WAVE	D18-NMNM-10m	MTI-E013W	2025-09-26	2026-09-25
10	RF Coaxial cable	Tonscend	SMA/M-3449-500mm - 40GHz	MTI-E017W	2025-09-26	2026-09-25
11	Band Reject Filter Group	Tonscend	ZBSF6-C2400-2483.5-3080	MTI-E224	2026-03-11	2027-03-10
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESC17	101166	2026-03-10	2027-03-09
2	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2026-03-08	2028-03-07
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2026-03-10	2027-03-09
5	EMI Test Software	Farad	EZ-EMC	Ver. EMEC-3A1	/	/
6	RF Coaxial cable	LEITAI M-WAVE	LA800-NMNM-2m	MTI-E012W	2025-09-26	2026-09-25
7	RF Coaxial cable	LEITAI M-WAVE	D18-NMNM-10m	MTI-E013W	2025-09-26	2026-09-25

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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.
Test Method:	---

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)

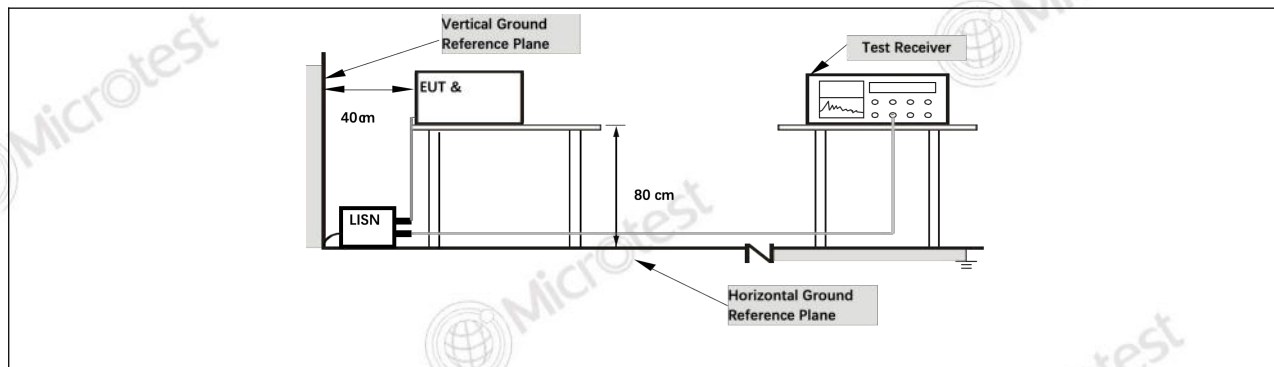
6.1 Conducted Emission at AC power line

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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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:	25.7 °C	Humidity:	66 %	Atmospheric Pressure:	100 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:

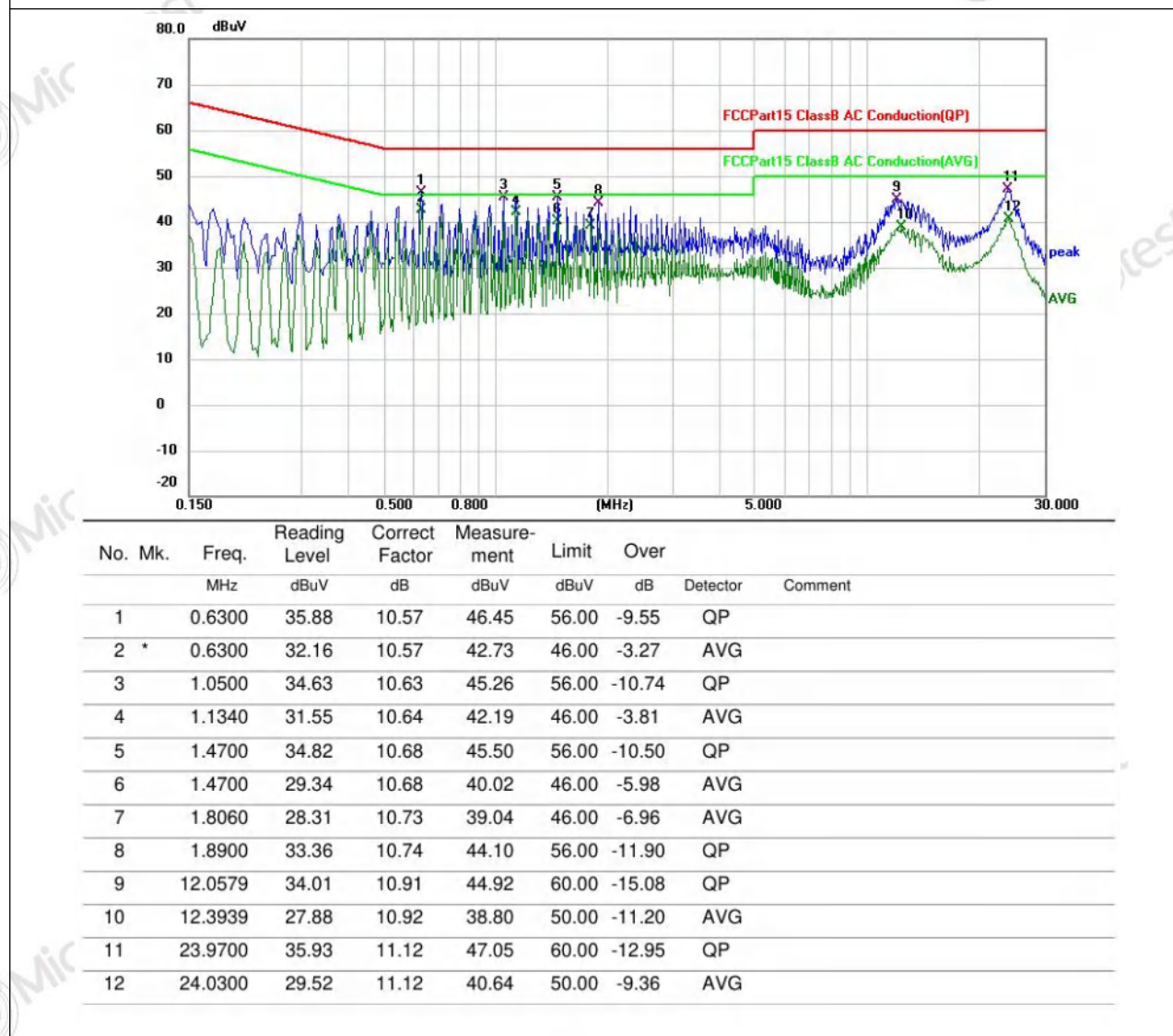


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6.1.3 Test Data:

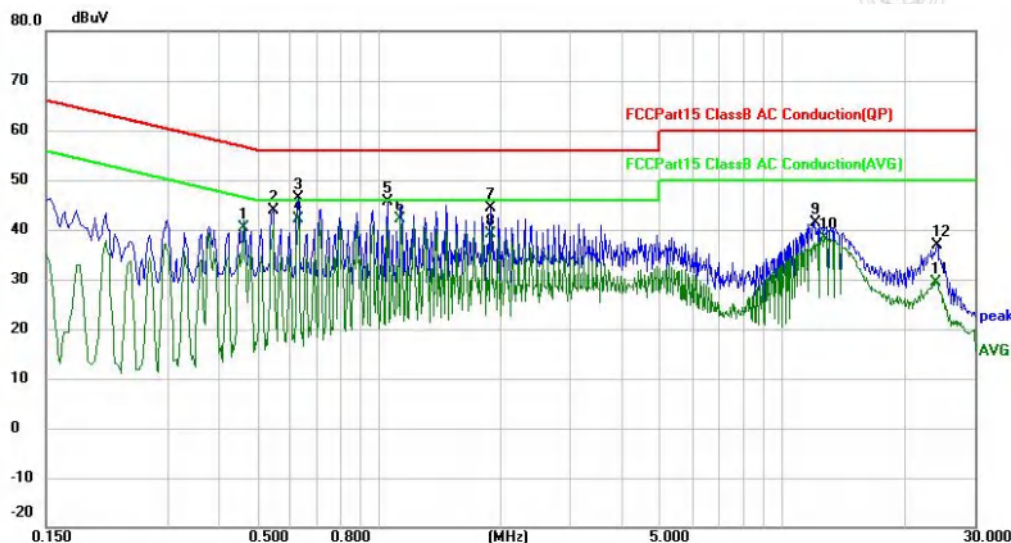
Mode1 / Line: Line / CH: L



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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		0.4620	29.84	10.56	40.40	46.66	-6.26	AVG	
2		0.5460	33.23	10.57	43.80	56.00	-12.20	peak	
3		0.6300	35.74	10.58	46.32	56.00	-9.68	peak	
4		0.6300	31.52	10.58	42.10	46.00	-3.90	AVG	
5		1.0500	35.03	10.64	45.67	56.00	-10.33	peak	
6	*	1.1340	31.57	10.65	42.22	46.00	-3.78	AVG	
7		1.8900	33.59	10.75	44.34	56.00	-11.66	peak	
8		1.8900	28.50	10.75	39.25	46.00	-6.75	AVG	
9		12.0580	30.58	10.92	41.50	60.00	-18.50	peak	
10		12.7299	27.34	10.94	38.28	50.00	-11.72	AVG	
11		24.0300	18.37	11.11	29.48	50.00	-20.52	AVG	
12		24.2420	25.84	11.11	36.95	60.00	-23.05	peak	

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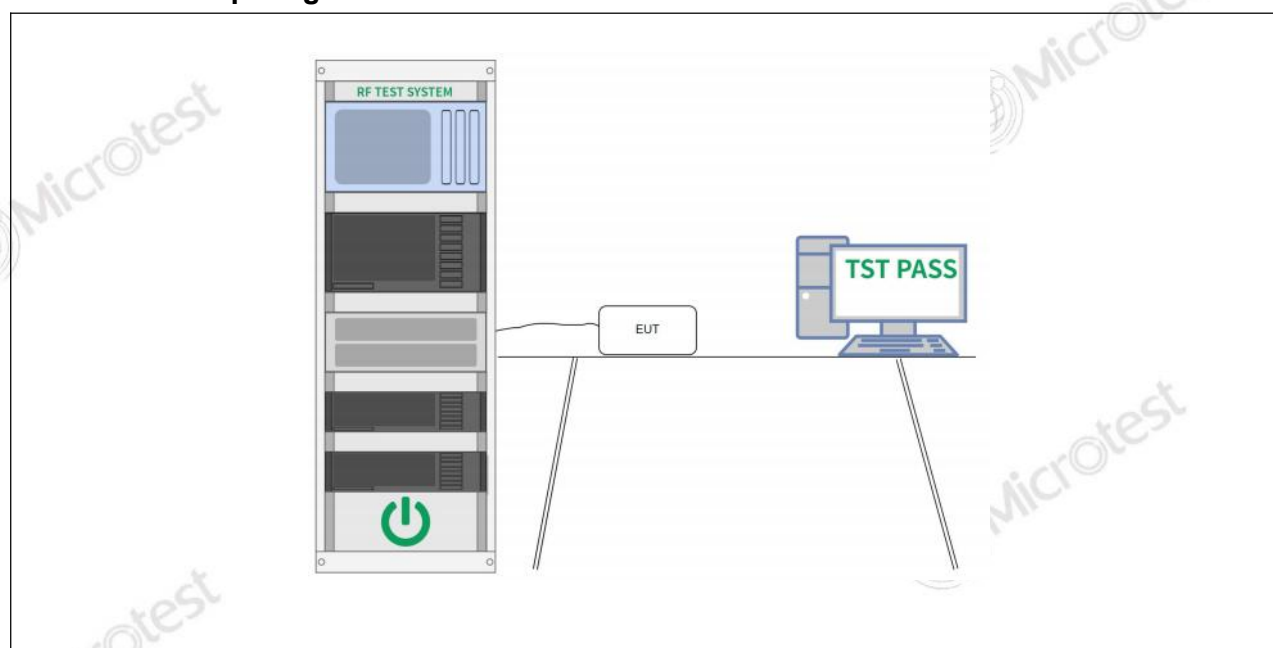
6.2 6dB Bandwidth

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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, 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:	25.6 °C	Humidity:	45.2 %	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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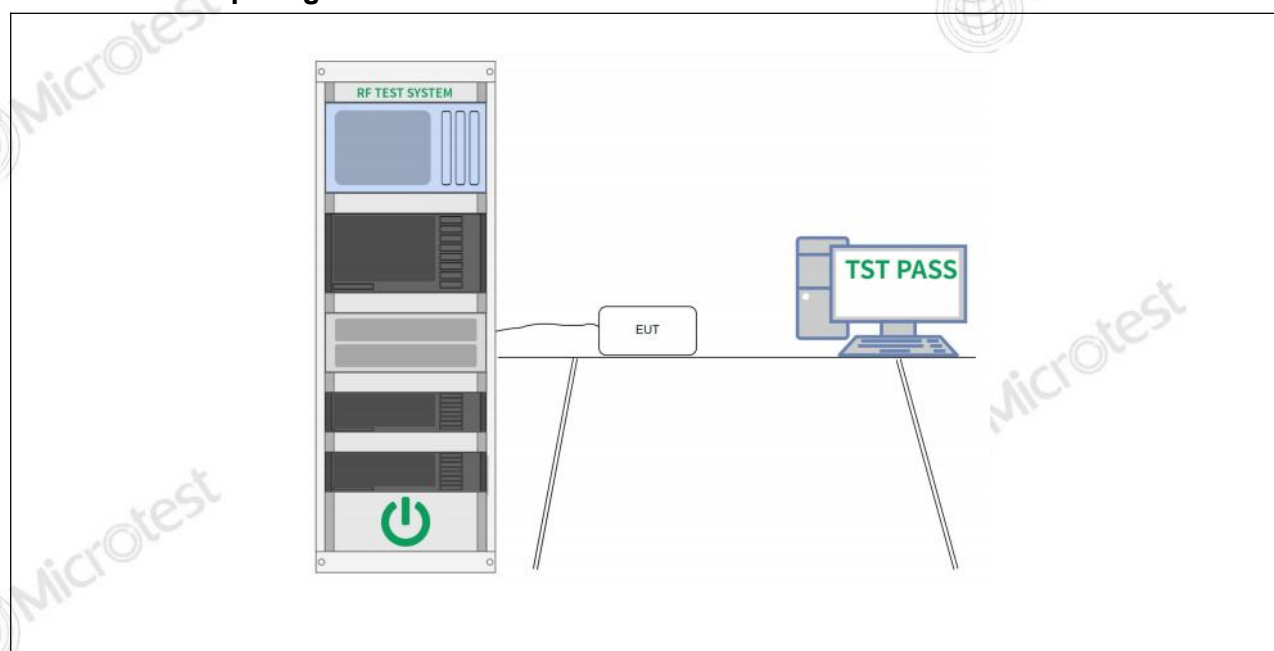
6.3 Maximum Conducted Output Power

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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1.1 Maximum peak conducted output power

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.6 °C	Humidity:	45.2 %	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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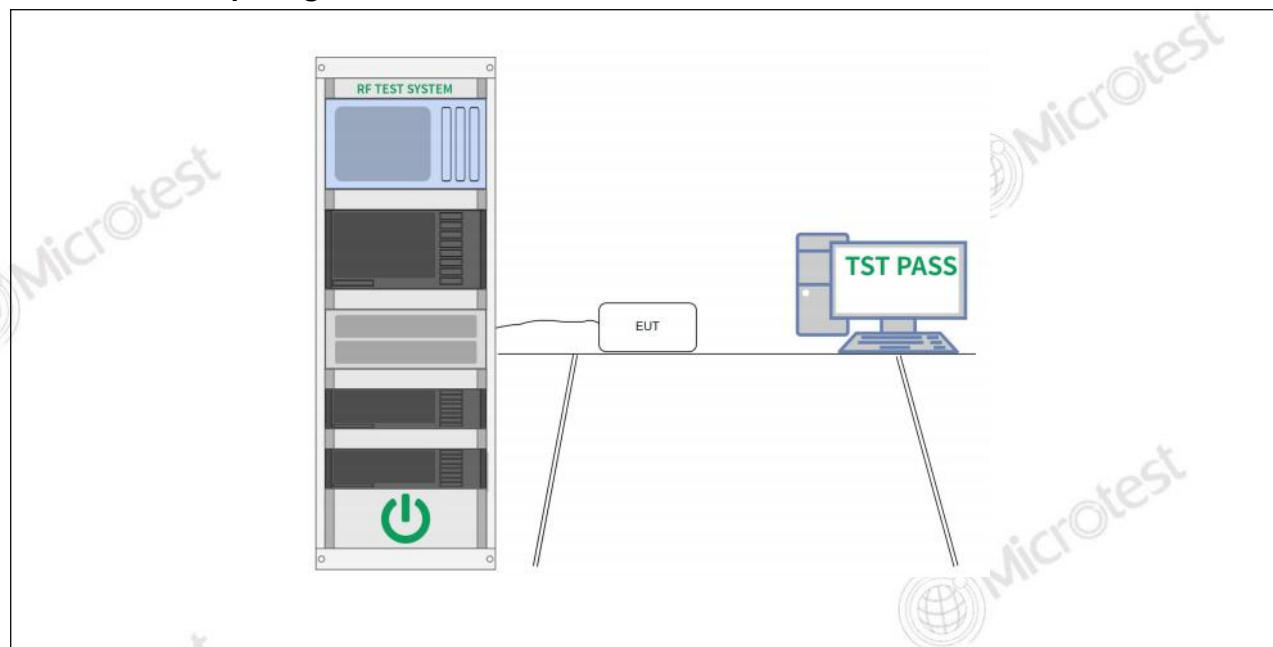
6.4 Power Spectral Density

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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10.2, Maximum power spectral density level in the fundamental emission

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.6 °C	Humidity:	45.2 %	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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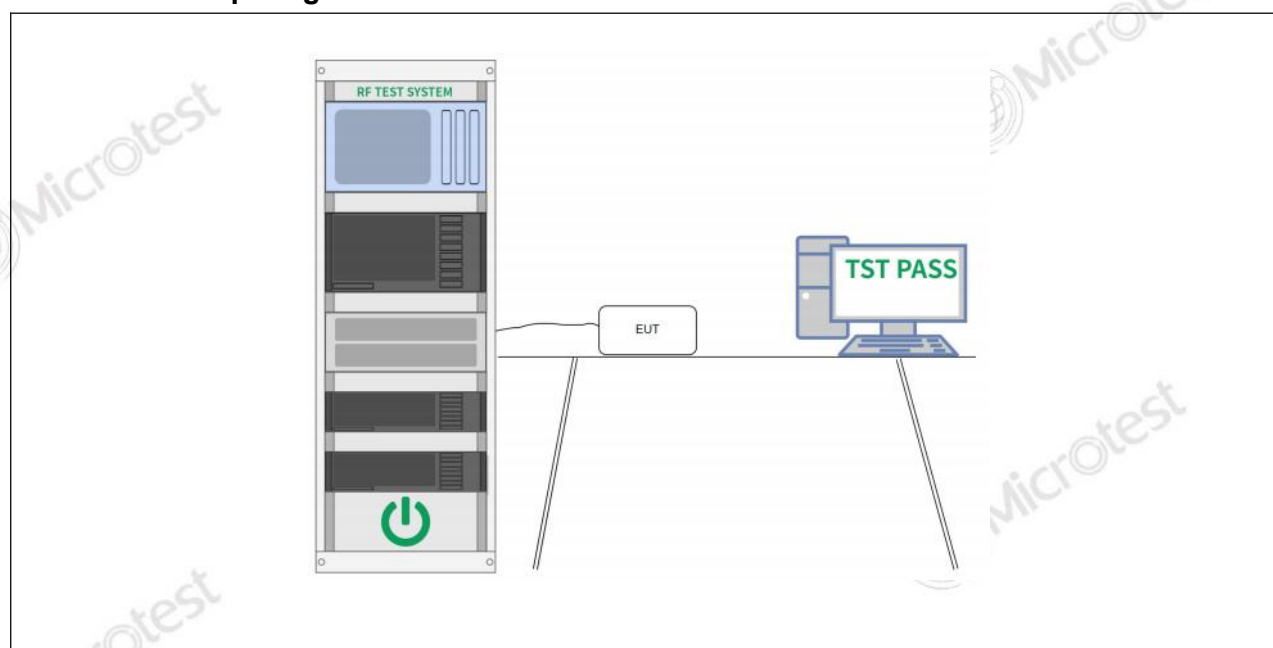
6.5 RF conducted spurious emissions and band edge measurement

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 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.6 °C	Humidity:	45.2 %	Atmospheric Pressure:	101 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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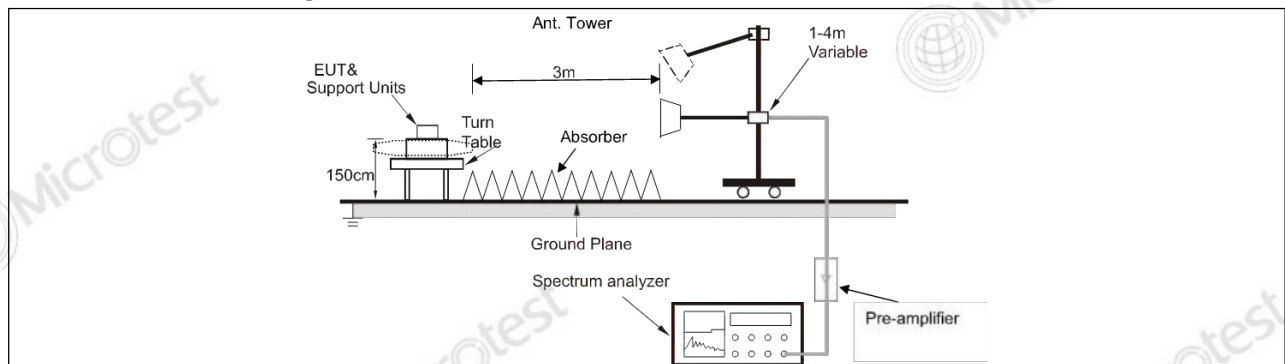
6.6 Band edge emissions (Radiated)

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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2		

6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	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			
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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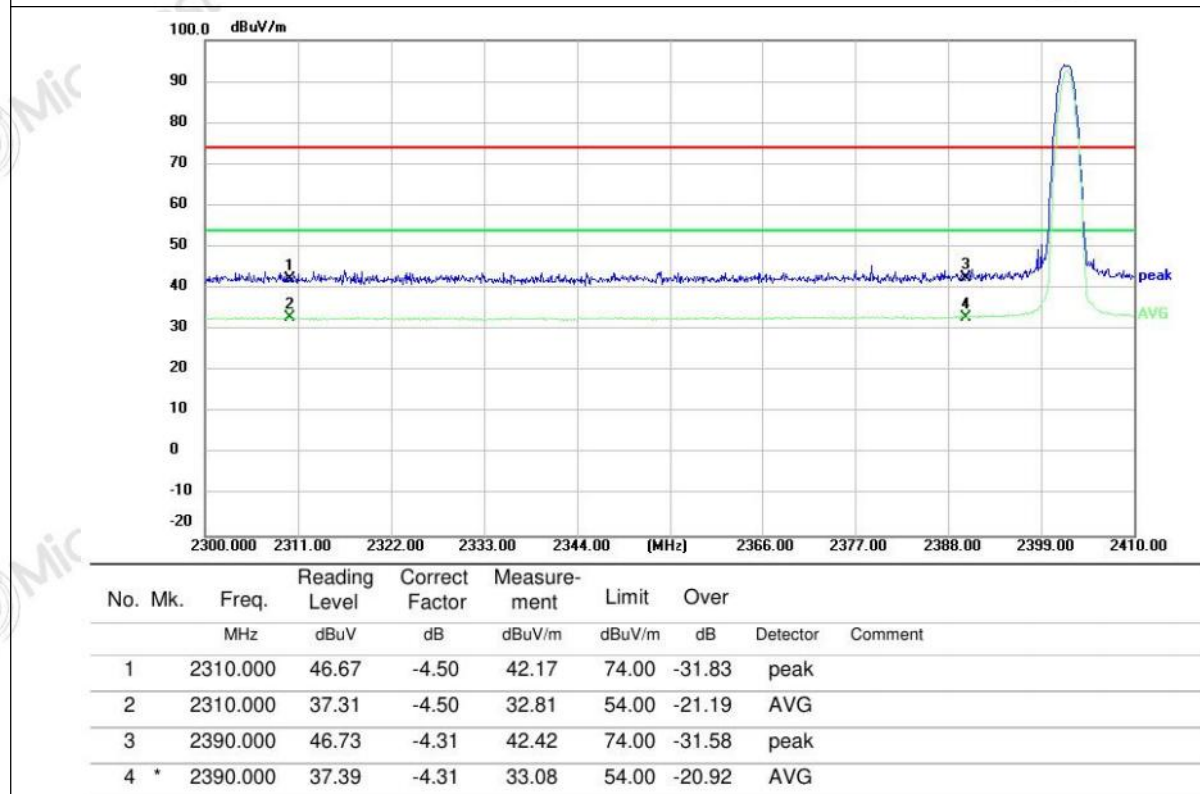
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TEST REPORT

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6.6.3 Test Data:

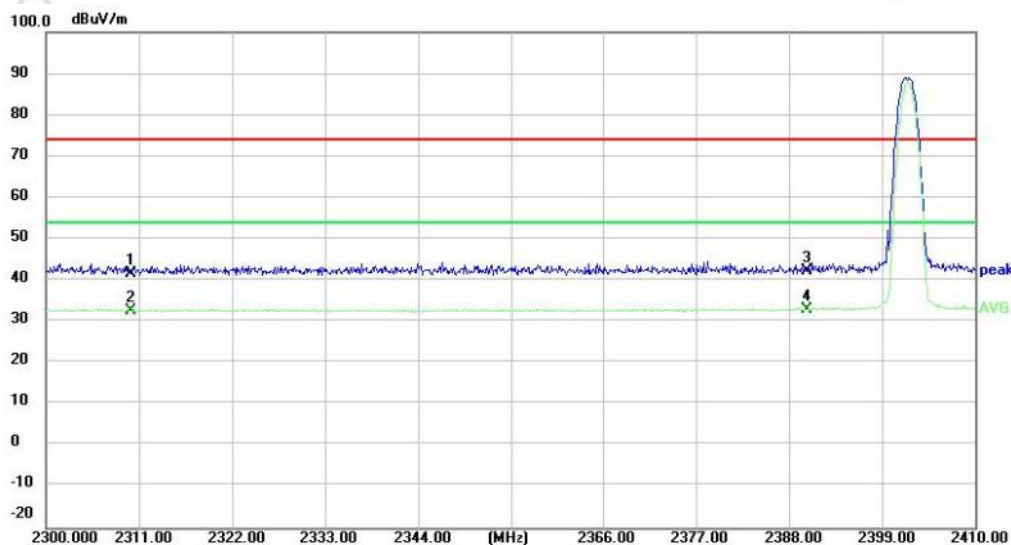
Mode1 / Polarization: Horizontal / CH: L



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Mode1 / Polarization: Vertical / CH: L

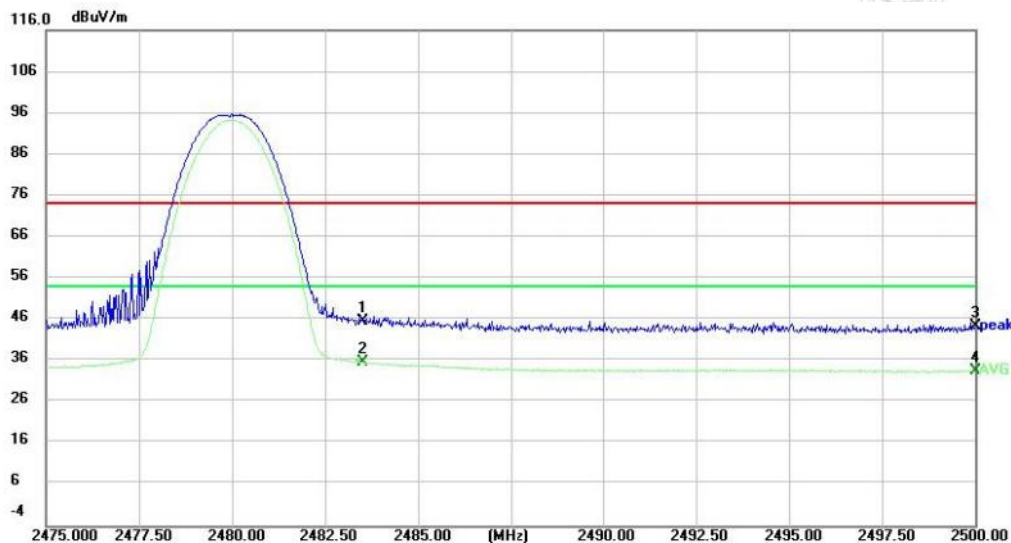


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	46.16	-4.50	41.66	74.00	-32.34	peak	
2		2310.000	37.23	-4.50	32.73	54.00	-21.27	AVG	
3		2390.000	46.47	-4.31	42.16	74.00	-31.84	peak	
4	*	2390.000	37.23	-4.31	32.92	54.00	-21.08	AVG	

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Mode1 / Polarization: Horizontal / CH: H

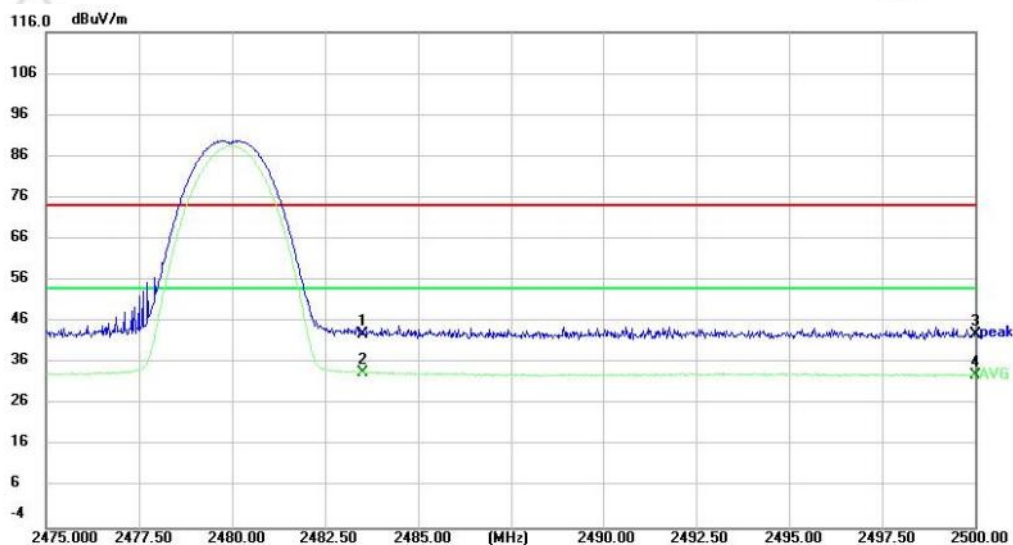


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit		Detector	Comment
		MHz	Level	Factor	ment	dBuV/m	dB		
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		2483.500	49.85	-4.23	45.62	74.00	-28.38	peak	
2	*	2483.500	39.95	-4.23	35.72	54.00	-18.28	AVG	
3		2500.000	48.50	-4.15	44.35	74.00	-29.65	peak	
4		2500.000	37.78	-4.15	33.63	54.00	-20.37	AVG	

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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		2483.500	47.24	-4.23	43.01	74.00	-30.99	peak	
2	*	2483.500	37.98	-4.23	33.75	54.00	-20.25	AVG	
3		2500.000	47.25	-4.15	43.10	74.00	-30.90	peak	
4		2500.000	37.33	-4.15	33.18	54.00	-20.82	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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4		

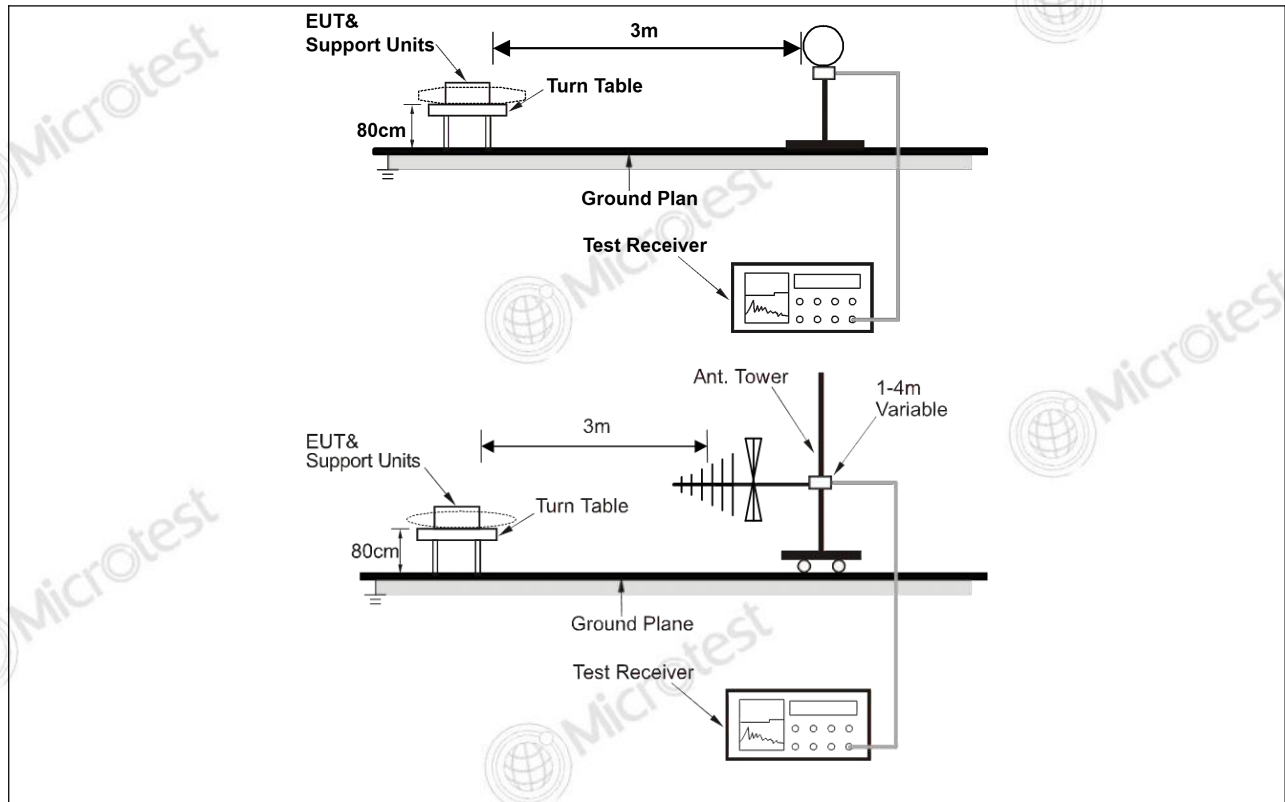
6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	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			
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.					

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Report No.: MTi260321001-0108E1

6.7.2 Test Setup Diagram:

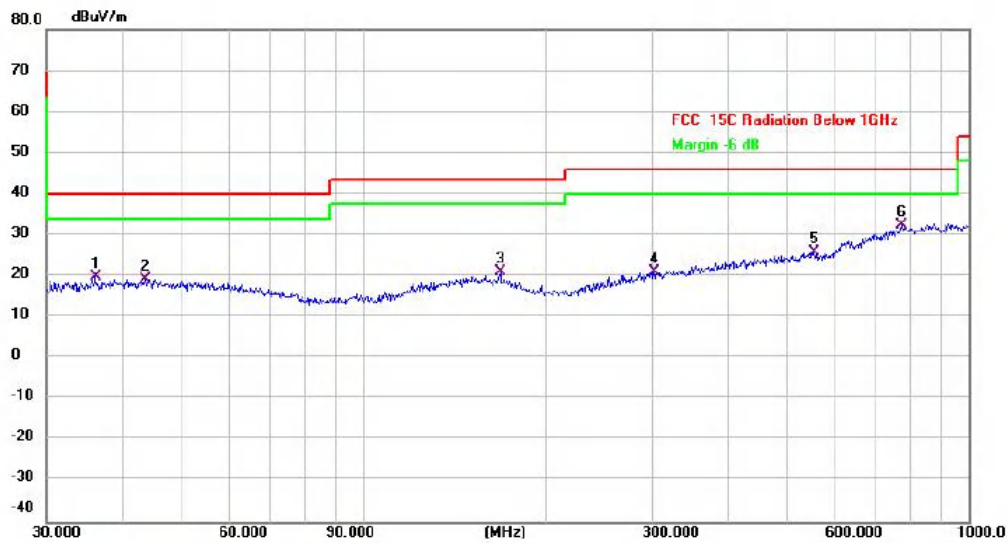


TEST REPORT

Report No.: MTi260321001-0108E1

6.7.3 Test Data:

Mode1 / 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		36.1272	27.56	-7.59	19.97	40.00	-20.03	QP	
2		43.6584	26.63	-7.29	19.34	40.00	-20.66	QP	
3		168.4138	27.55	-6.63	20.92	43.50	-22.58	QP	
4		301.4224	26.69	-5.68	21.01	46.00	-24.99	QP	
5		552.8832	27.23	-1.42	25.81	46.00	-20.19	QP	
6	*	774.1584	28.85	3.69	32.54	46.00	-13.46	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		42.4508	26.88	-7.24	19.64	40.00	-20.36	QP	
2		126.7723	28.07	-8.16	19.91	43.50	-23.59	QP	
3		167.2368	26.84	-6.56	20.28	43.50	-23.22	QP	
4		429.5228	27.41	-2.99	24.42	46.00	-21.58	QP	
5		642.8613	27.37	1.34	28.71	46.00	-17.29	QP	
6	*	875.2470	27.40	4.95	32.35	46.00	-13.65	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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6.4		

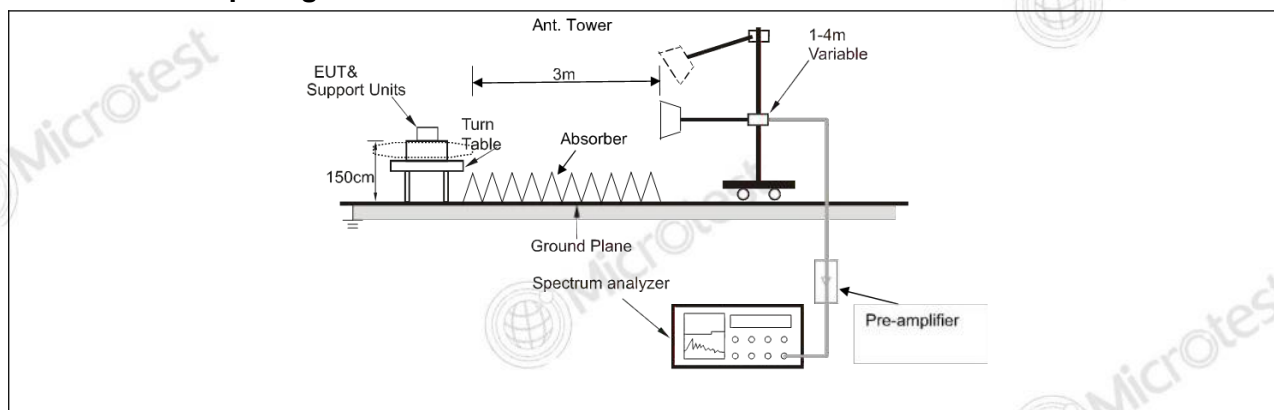
6.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	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			
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.					

TEST REPORT

Report No.: MTi260321001-0108E1

6.8.2 Test Setup Diagram:

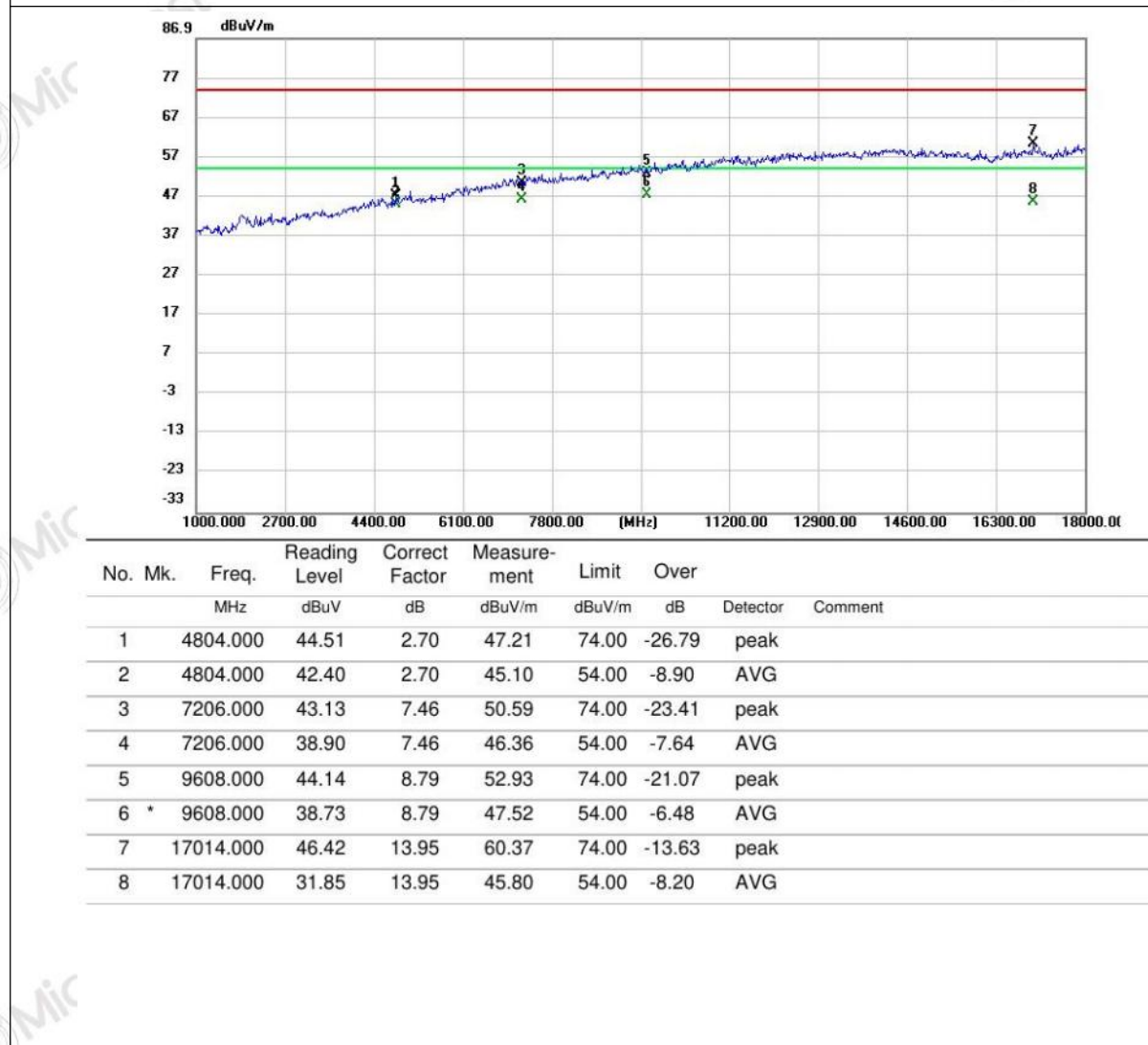


TEST REPORT

Report No.: MTi260321001-0108E1

6.8.3 Test Data:

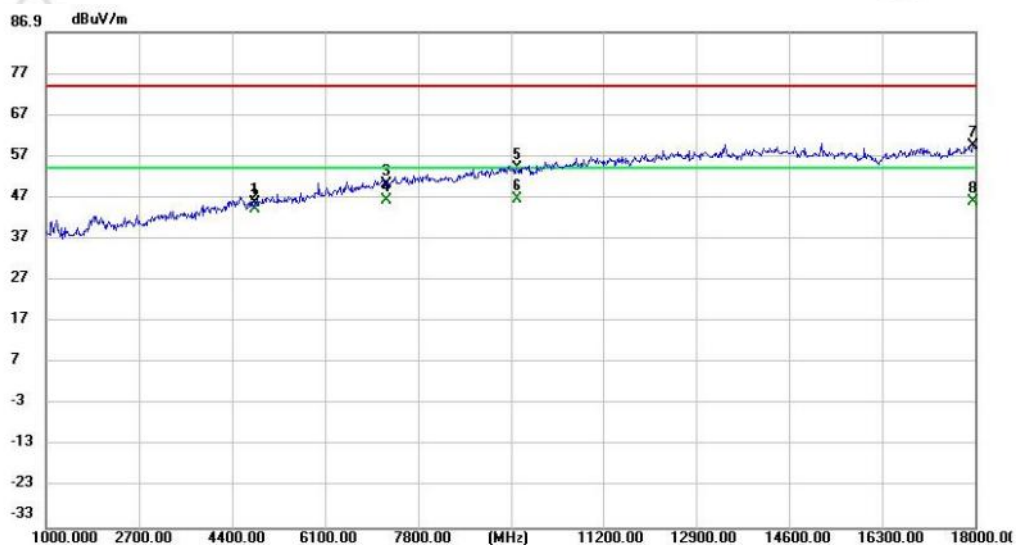
Mode1 / Polarization: Horizontal / CH: L



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Report No.: MTi260321001-0108E1

Mode1 / Polarization: Vertical / CH: L

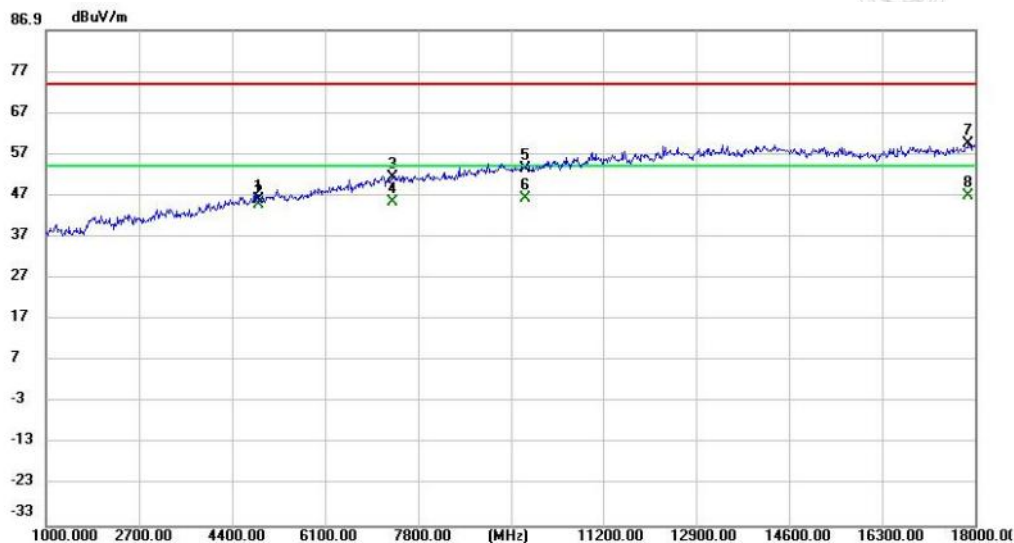


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	43.01	2.70	45.71	74.00	-28.29	peak	
2		4804.000	41.45	2.70	44.15	54.00	-9.85	AVG	
3		7206.000	42.61	7.46	50.07	74.00	-23.93	peak	
4		7206.000	38.90	7.46	46.36	54.00	-7.64	AVG	
5		9608.000	45.22	8.79	54.01	74.00	-19.99	peak	
6	*	9608.000	37.71	8.79	46.50	54.00	-7.50	AVG	
7		17966.000	44.83	14.64	59.47	74.00	-14.53	peak	
8		17966.000	31.43	14.64	46.07	54.00	-7.93	AVG	

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Mode1 / Polarization: Horizontal / CH: M

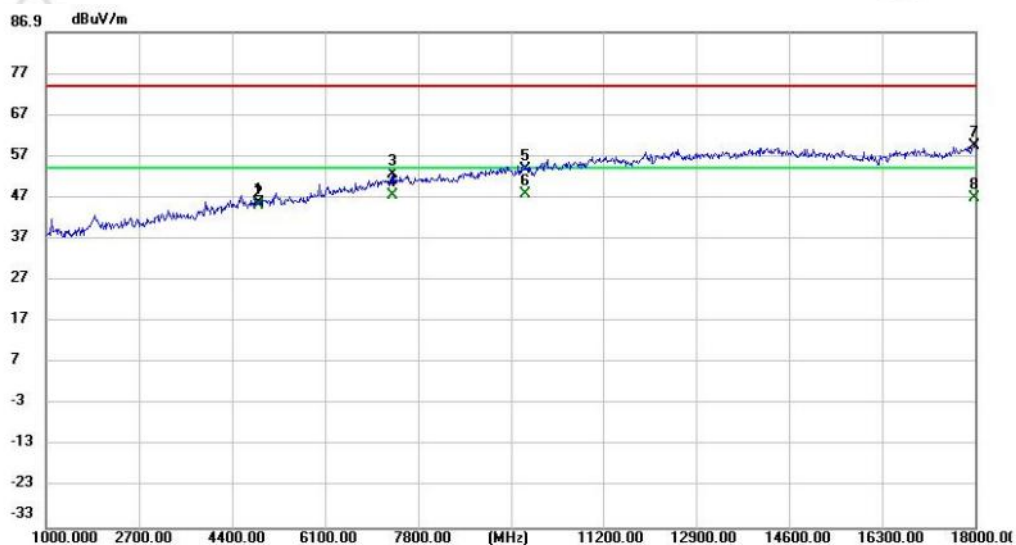


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	43.16	2.74	45.90	74.00	-28.10	peak	
2		4880.000	42.04	2.74	44.78	54.00	-9.22	AVG	
3		7320.000	43.68	7.79	51.47	74.00	-22.53	peak	
4		7320.000	37.68	7.79	45.47	54.00	-8.53	AVG	
5		9760.000	43.59	9.90	53.49	74.00	-20.51	peak	
6		9760.000	36.49	9.90	46.39	54.00	-7.61	AVG	
7		17881.000	45.36	14.16	59.52	74.00	-14.48	peak	
8	*	17881.000	32.58	14.16	46.74	54.00	-7.26	AVG	

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Report No.: MTi260321001-0108E1

Mode1 / Polarization: Vertical / CH: M

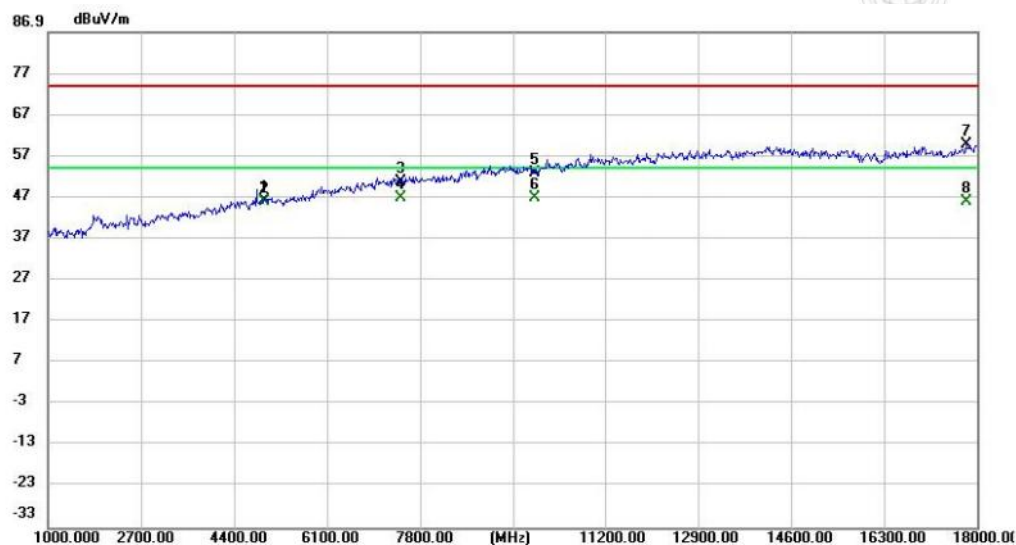


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4880.000	42.77	2.74	45.51	74.00	-28.49	peak	
2		4880.000	42.27	2.74	45.01	54.00	-8.99	AVG	
3		7320.000	44.65	7.79	52.44	74.00	-21.56	peak	
4		7320.000	39.79	7.79	47.58	54.00	-6.42	AVG	
5		9760.000	43.82	9.90	53.72	74.00	-20.28	peak	
6	*	9760.000	37.79	9.90	47.69	54.00	-6.31	AVG	
7		17983.000	44.86	14.72	59.58	74.00	-14.42	peak	
8		17983.000	32.08	14.72	46.80	54.00	-7.20	AVG	

TEST REPORT

Report No.: MTi260321001-0108E1

Mode1 / Polarization: Horizontal / CH: H

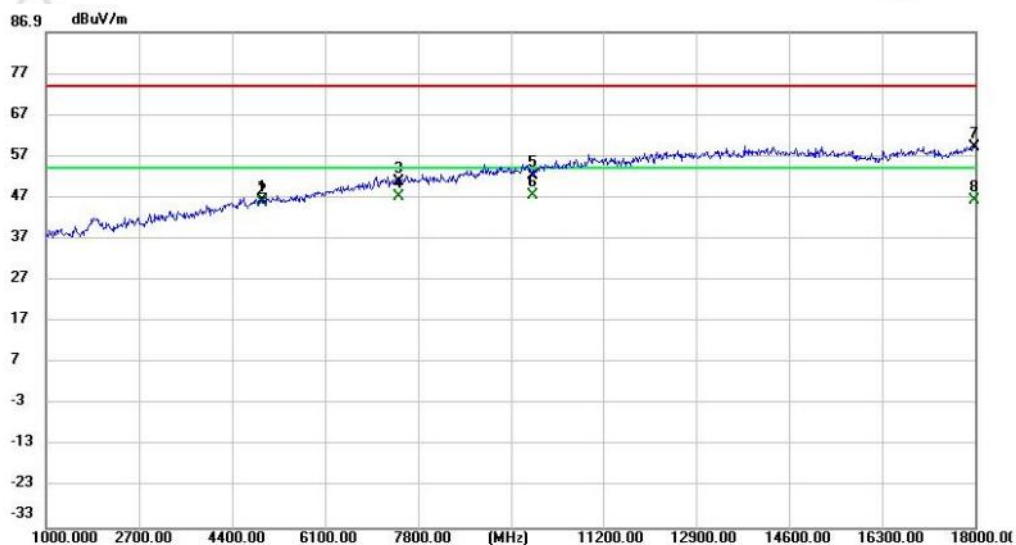


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4960.000	43.10	3.10	46.20	74.00	-27.80	peak	
2		4960.000	42.80	3.10	45.90	54.00	-8.10	AVG	
3		7440.000	42.97	7.65	50.62	74.00	-23.38	peak	
4	*	7440.000	39.20	7.65	46.85	54.00	-7.15	AVG	
5		9920.000	43.57	9.23	52.80	74.00	-21.20	peak	
6		9920.000	37.51	9.23	46.74	54.00	-7.26	AVG	
7		17796.000	46.05	13.57	59.62	74.00	-14.38	peak	
8		17796.000	32.41	13.57	45.98	54.00	-8.02	AVG	

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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		4960.000	43.13	3.10	46.23	74.00	-27.77	peak	
2		4960.000	42.68	3.10	45.78	54.00	-8.22	AVG	
3		7440.000	43.22	7.65	50.87	74.00	-23.13	peak	
4		7440.000	39.60	7.65	47.25	54.00	-6.75	AVG	
5		9920.000	43.08	9.23	52.31	74.00	-21.69	peak	
6	*	9920.000	38.13	9.23	47.36	54.00	-6.64	AVG	
7		17983.000	44.56	14.72	59.28	74.00	-14.72	peak	
8		17983.000	31.60	14.72	46.32	54.00	-7.68	AVG	

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Mode1 / Polarization: Horizontal / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		24020.000	46.97	5.89	52.86	74.00	-21.14	peak	
2		24020.000	40.58	5.89	46.47	54.00	-7.53	AVG	
3		38922.000	47.17	12.57	59.74	74.00	-14.26	peak	
4	*	38922.000	34.54	12.57	47.11	54.00	-6.89	AVG	

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Mode1 / Polarization: Vertical / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		24020.000	48.32	5.89	54.21	74.00	-19.79	peak	
2		24020.000	40.34	5.89	46.23	54.00	-7.77	AVG	
3		39846.000	48.98	12.13	61.11	74.00	-12.89	peak	
4	*	39846.000	35.02	12.13	47.15	54.00	-6.85	AVG	

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Report No.: MTi260321001-0108E1

Mode1 / Polarization: Horizontal / CH: M

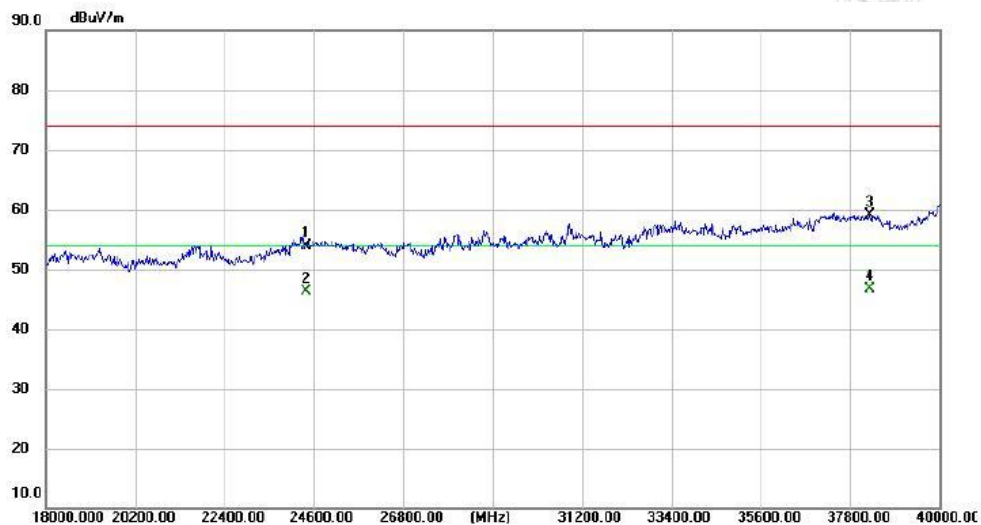


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		24400.000	45.83	6.42	52.25	74.00	-21.75	peak	
2	*	24400.000	41.12	6.42	47.54	54.00	-6.46	AVG	
3		39670.000	48.93	12.11	61.04	74.00	-12.96	peak	
4		39670.000	34.67	12.11	46.78	54.00	-7.22	AVG	

TEST REPORT

Report No.: MTi260321001-0108E1

Mode1 / Polarization: Vertical / CH: M

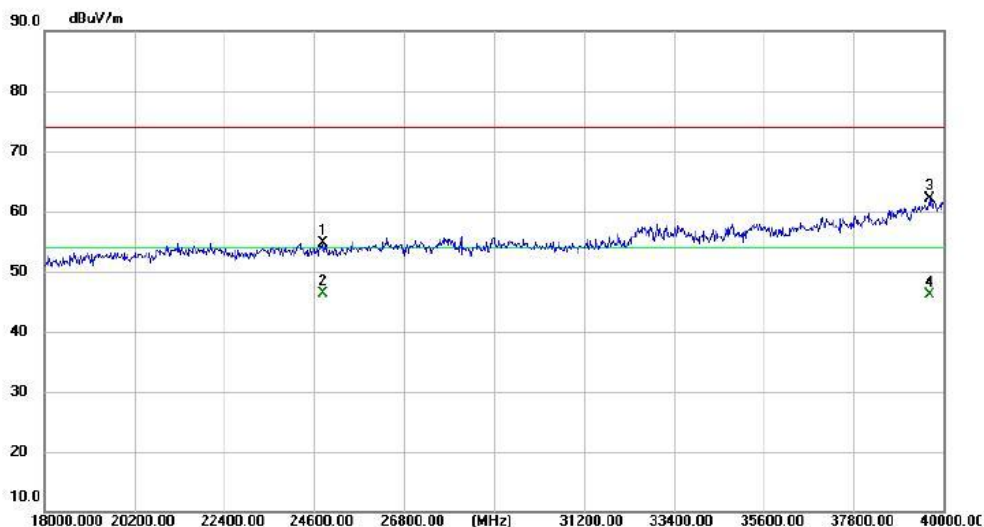


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		24400.000	47.48	6.42	53.90	74.00	-20.10	peak	
2		24400.000	39.79	6.42	46.21	54.00	-7.79	AVG	
3		38284.000	47.23	11.78	59.01	74.00	-14.99	peak	
4	*	38284.000	34.92	11.78	46.70	54.00	-7.30	AVG	

TEST REPORT

Report No.: MTi260321001-0108E1

Mode1 / Polarization: Horizontal / CH: H

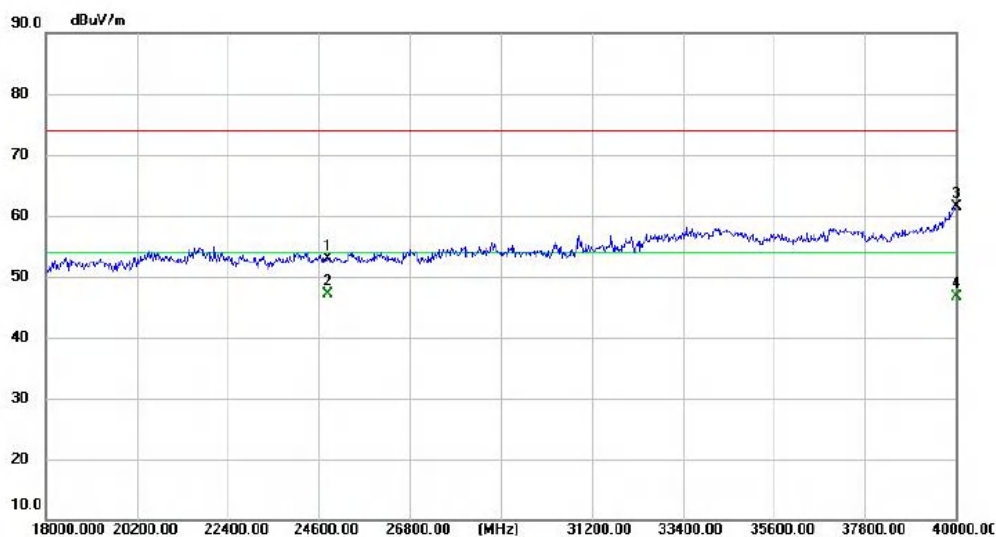


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	24800.000	48.02	6.61	54.63	74.00	-19.37	peak	
2 *	24800.000	39.66	6.61	46.27	54.00	-7.73	AVG	
3	39670.000	49.93	12.11	62.04	74.00	-11.96	peak	
4	39670.000	34.08	12.11	46.19	54.00	-7.81	AVG	

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Report No.: MTi260321001-0108E1

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		24800.000	46.36	6.61	52.97	74.00	-21.03	peak	
2	*	24800.000	40.40	6.61	47.01	54.00	-6.99	AVG	
3		40000.000	49.39	12.14	61.53	74.00	-12.47	peak	
4		40000.000	34.56	12.14	46.70	54.00	-7.30	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

TEST REPORT

Report No.: MTi260321001-0108E1

Appendix A: DTS Bandwidth

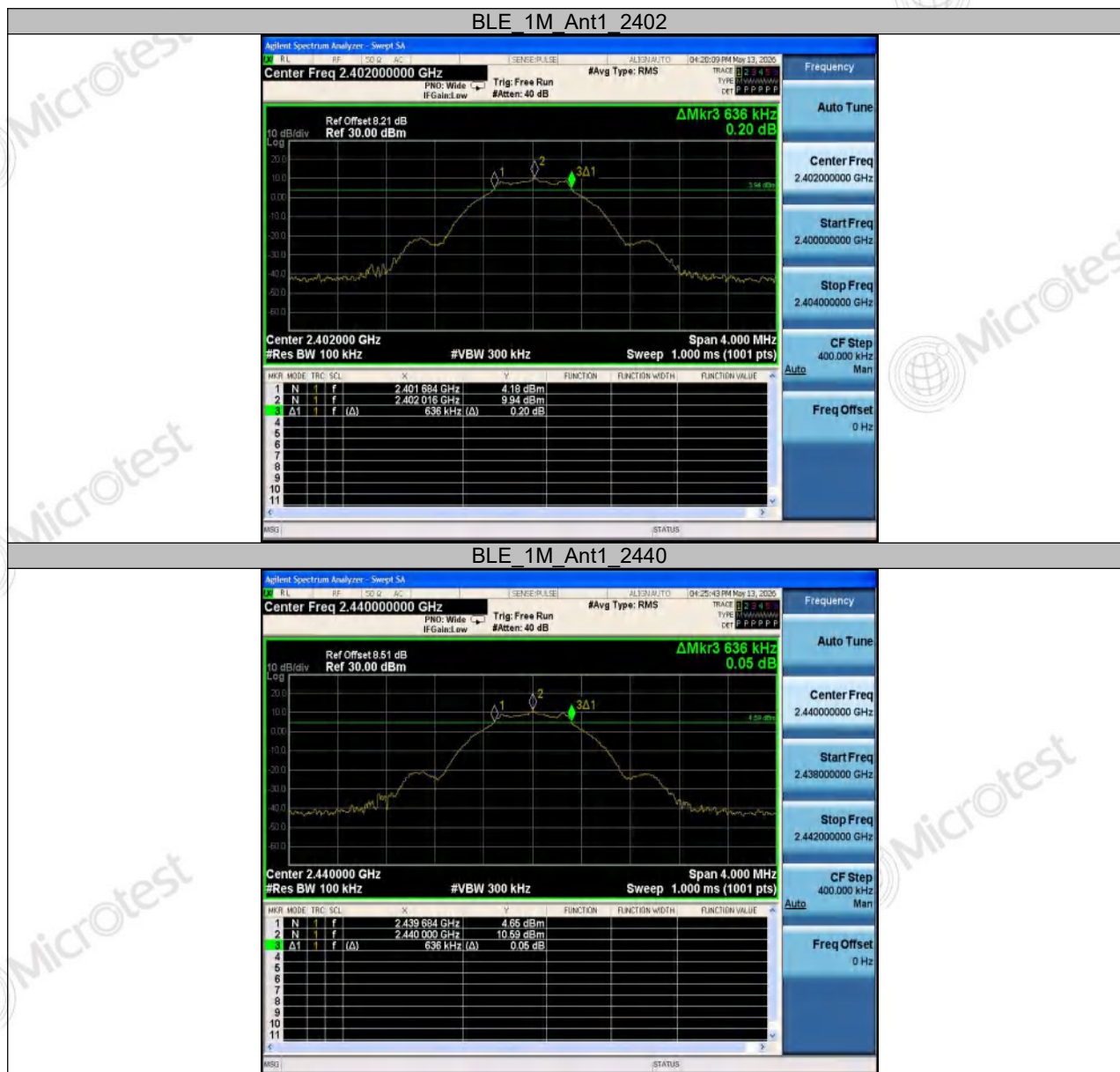
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.636	0.5	PASS
		2440	0.636	0.5	PASS
		2480	0.640	0.5	PASS
BLE_2M	Ant1	2402	1.108	0.5	PASS
		2440	1.100	0.5	PASS
		2480	1.124	0.5	PASS
BLE_125K	Ant1	2402	0.588	0.5	PASS
		2440	0.644	0.5	PASS
		2480	0.576	0.5	PASS
BLE_500K	Ant1	2402	0.636	0.5	PASS
		2440	0.624	0.5	PASS
		2480	0.640	0.5	PASS

TEST REPORT

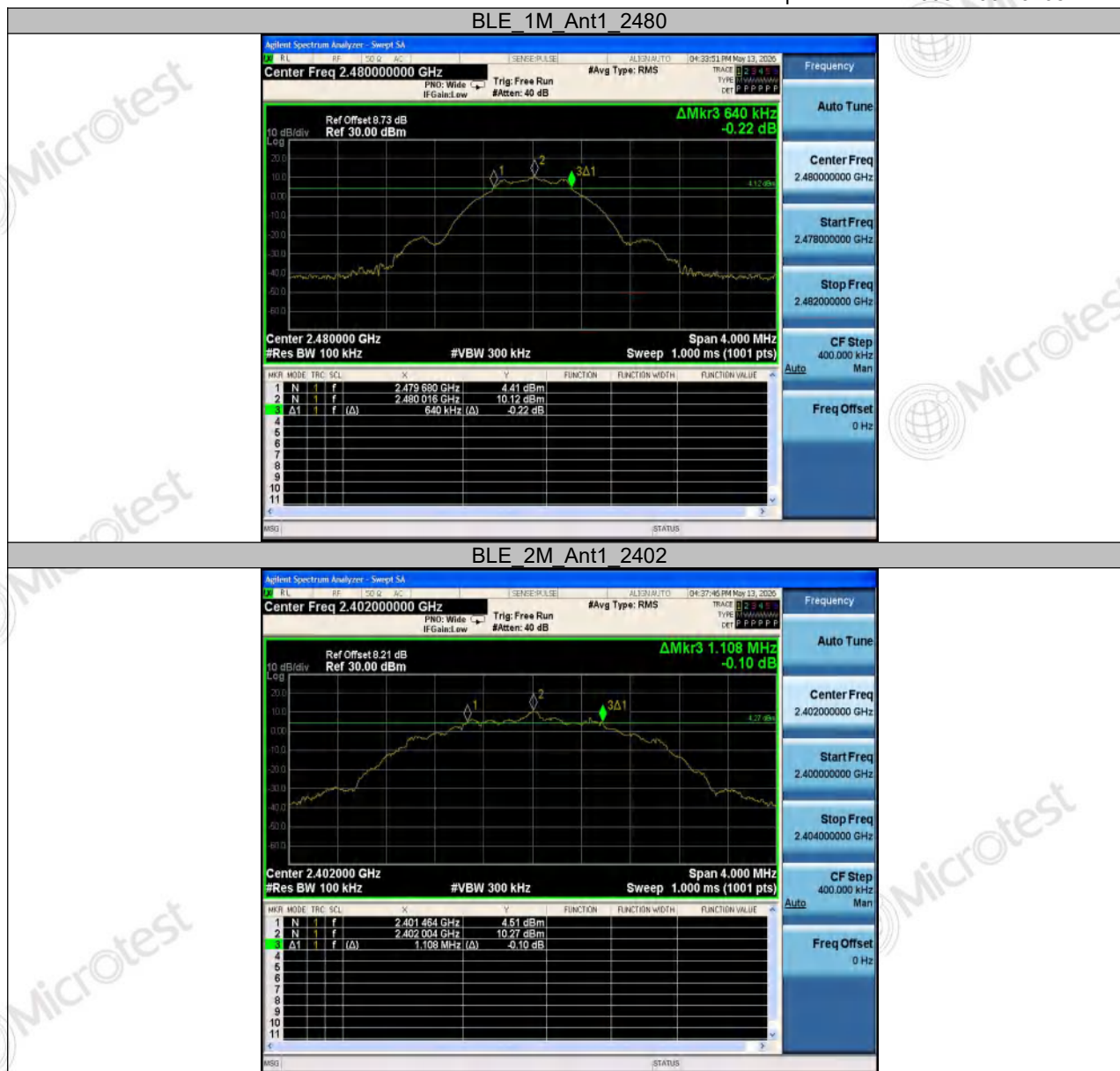
Report No.: MTi260321001-0108E1

Test Graphs



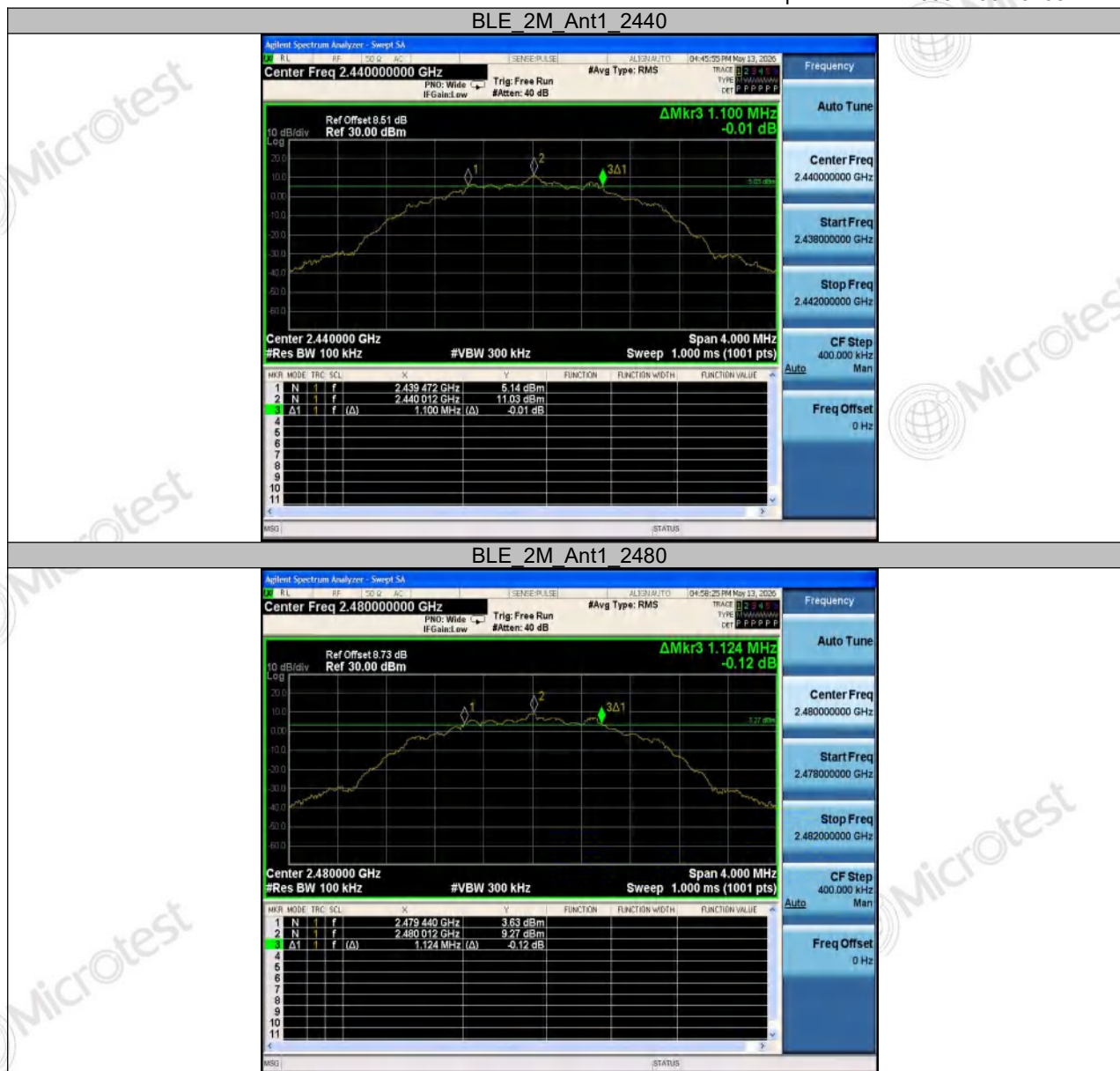
TEST REPORT

Report No.: MTI260321001-0108E1



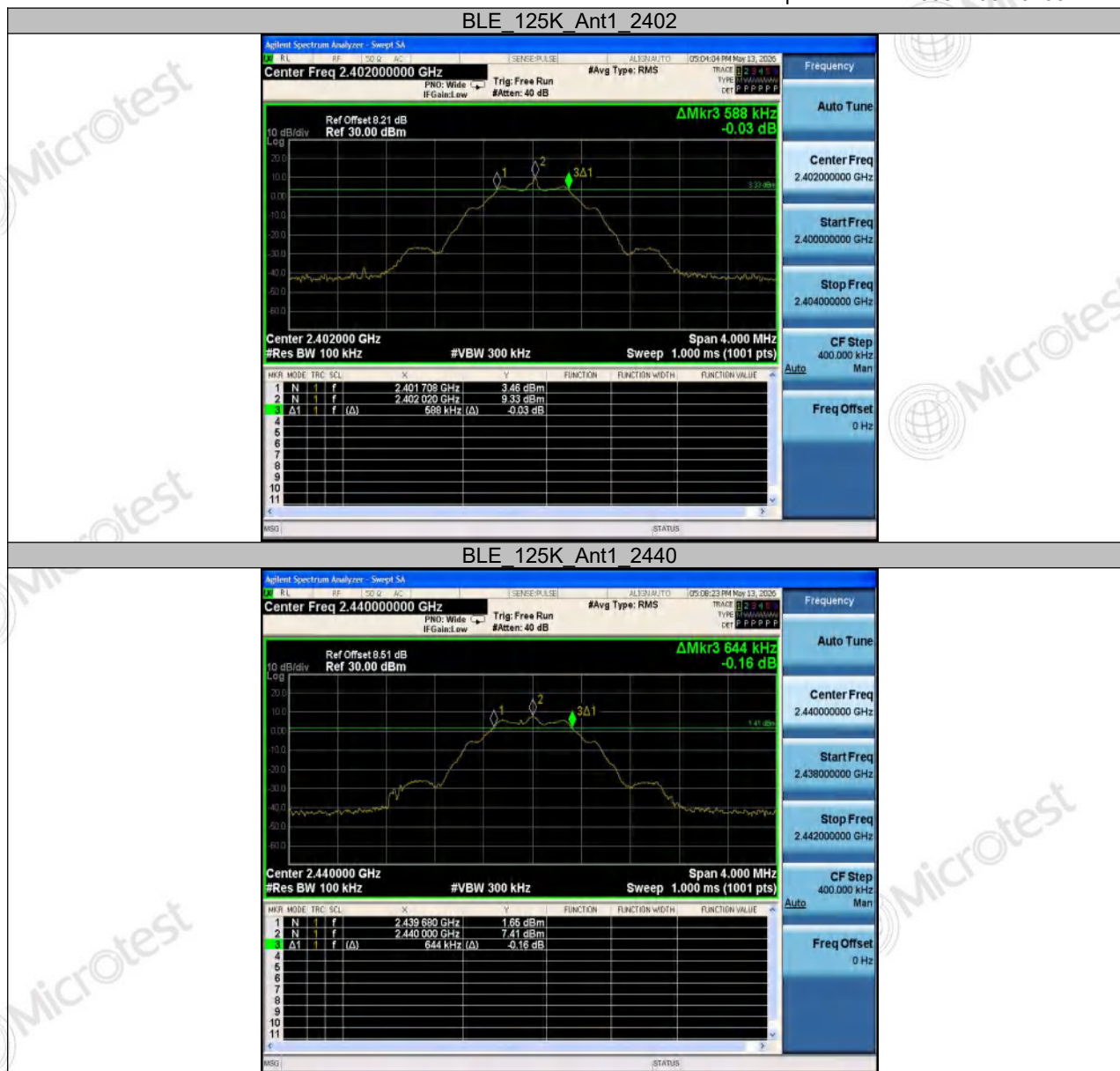
TEST REPORT

Report No.: MTI260321001-0108E1



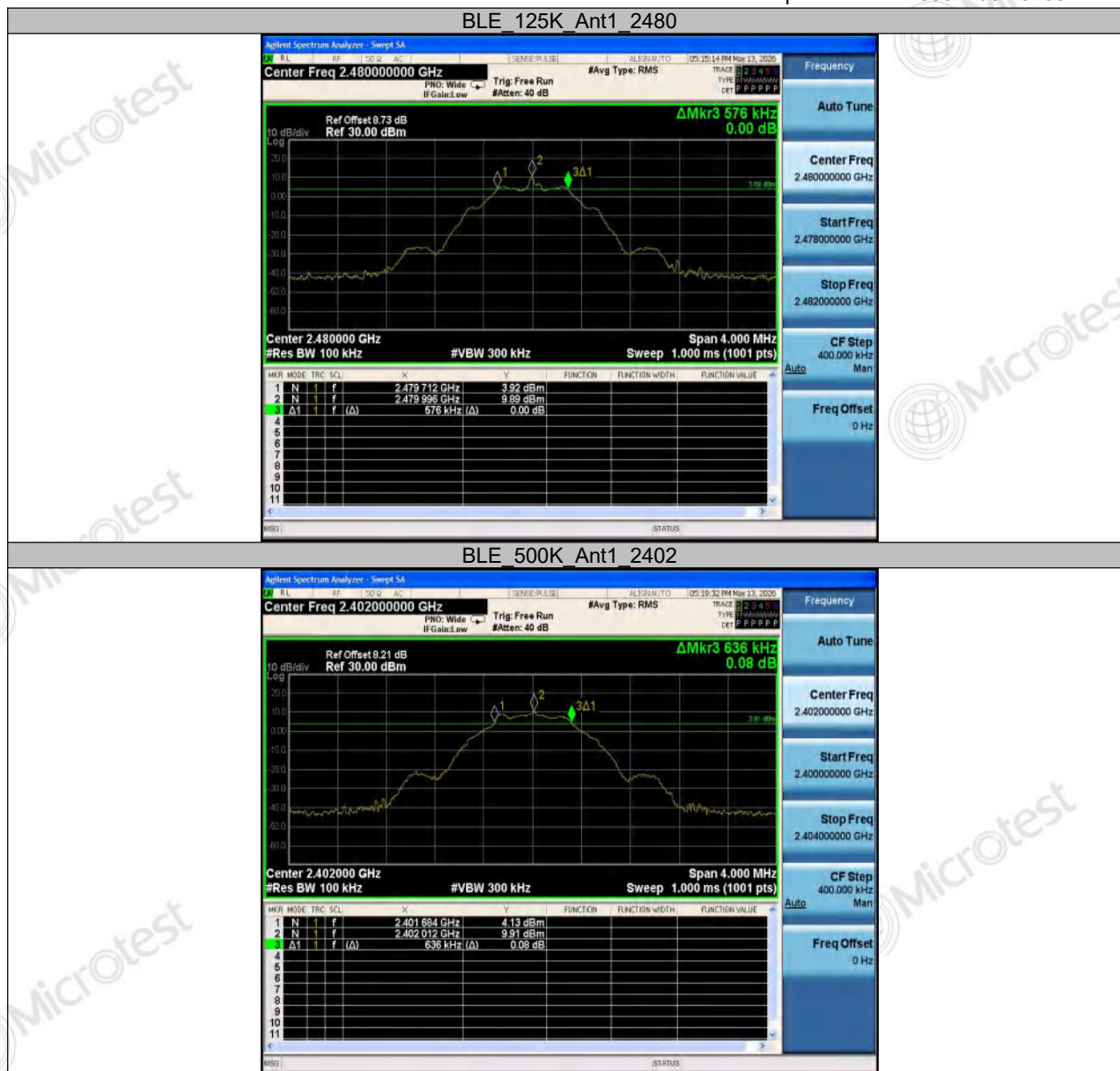
TEST REPORT

Report No.: MTI260321001-0108E1



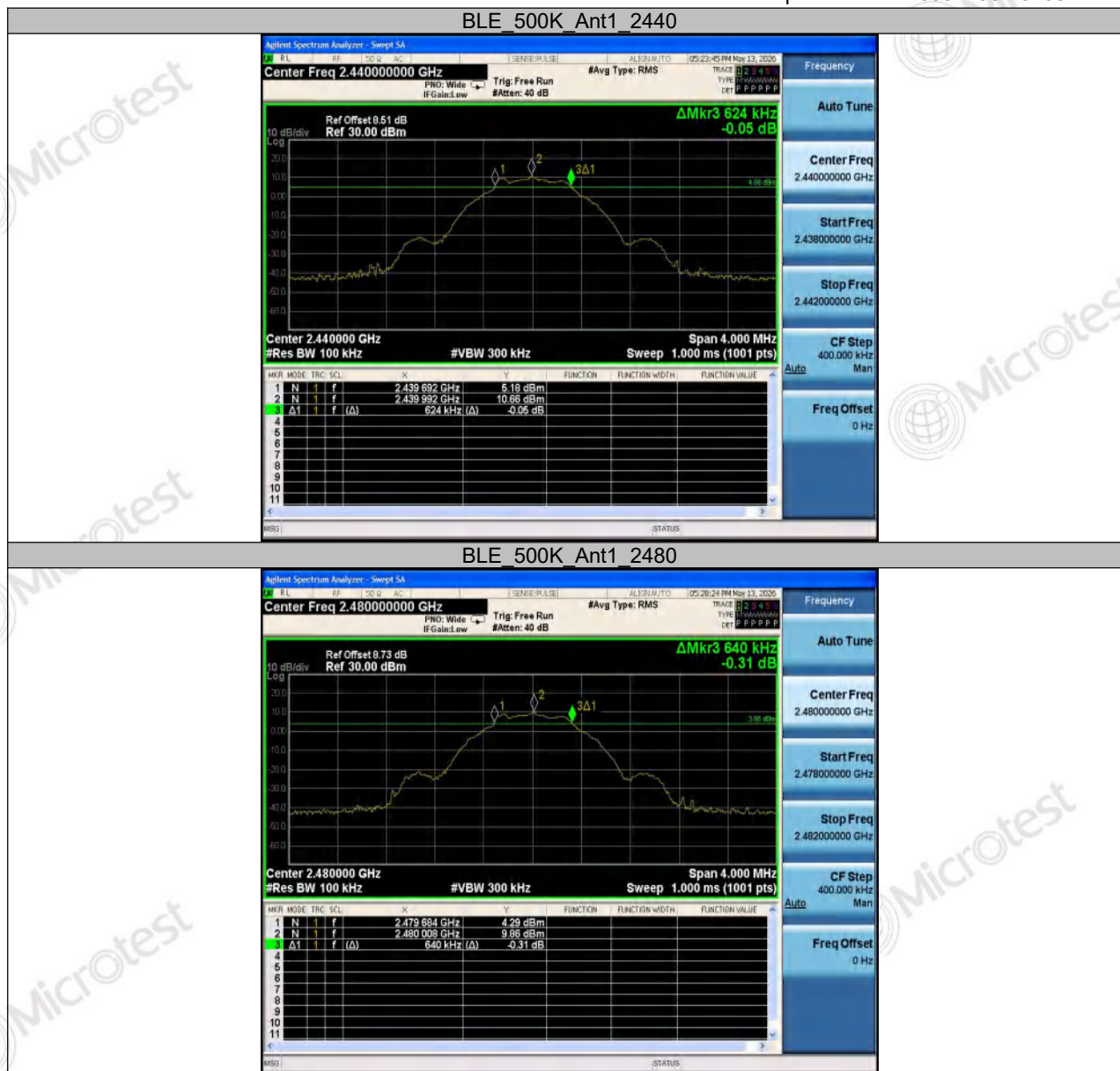
TEST REPORT

Report No.: MTI260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1

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	10.55	≤30	PASS
		2440	11.04	≤30	PASS
		2480	10.64	≤30	PASS
BLE_2M	Ant1	2402	10.66	≤30	PASS
		2440	11.09	≤30	PASS
		2480	10.74	≤30	PASS
BLE_125K	Ant1	2402	10.36	≤30	PASS
		2440	10.76	≤30	PASS
		2480	10.39	≤30	PASS
BLE_500K	Ant1	2402	10.34	≤30	PASS
		2440	10.89	≤30	PASS
		2480	10.49	≤30	PASS

TEST REPORT

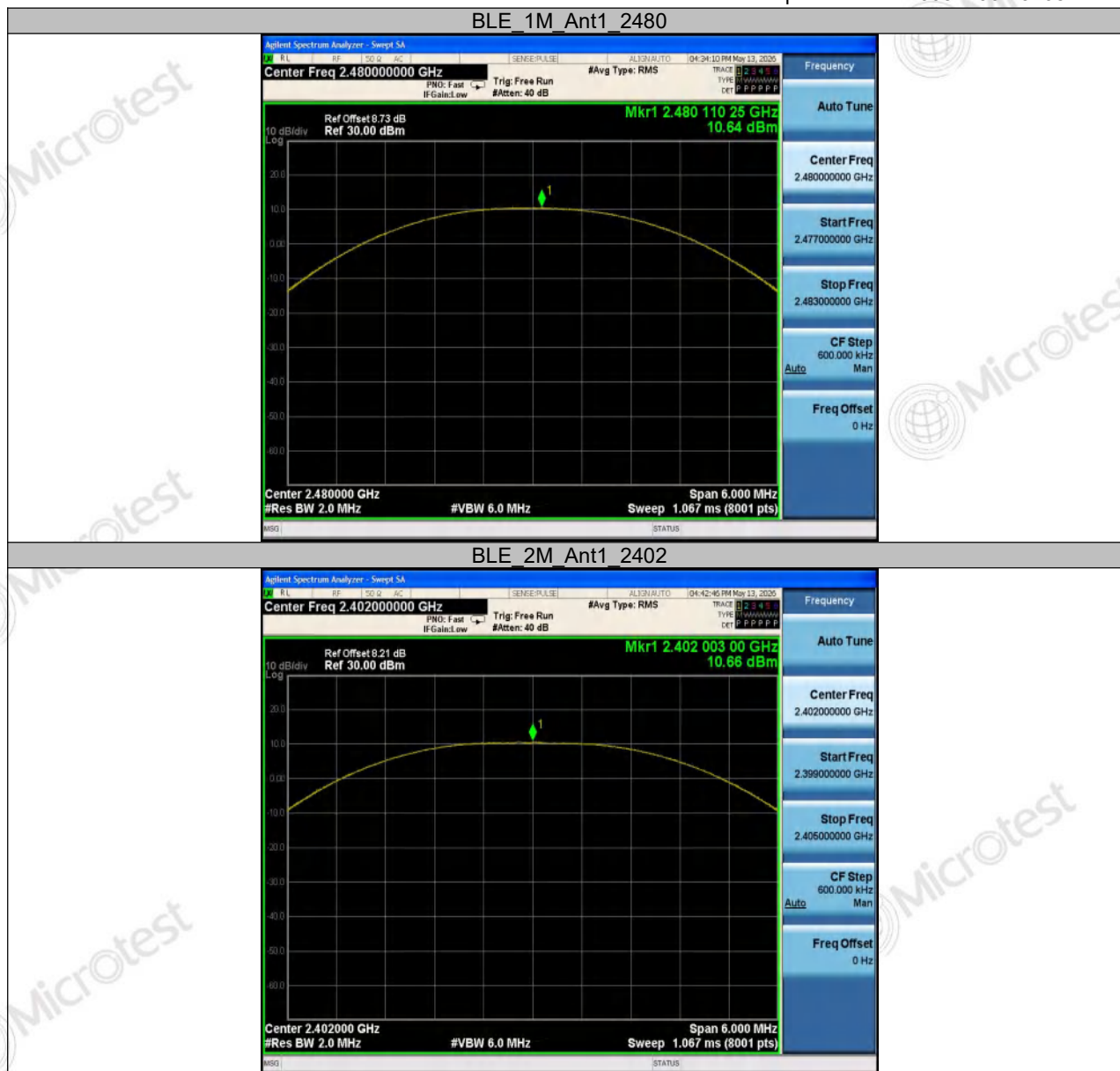
Report No.: MTI260321001-0108E1

Test Graphs



TEST REPORT

Report No.: MTi260321001-0108E1



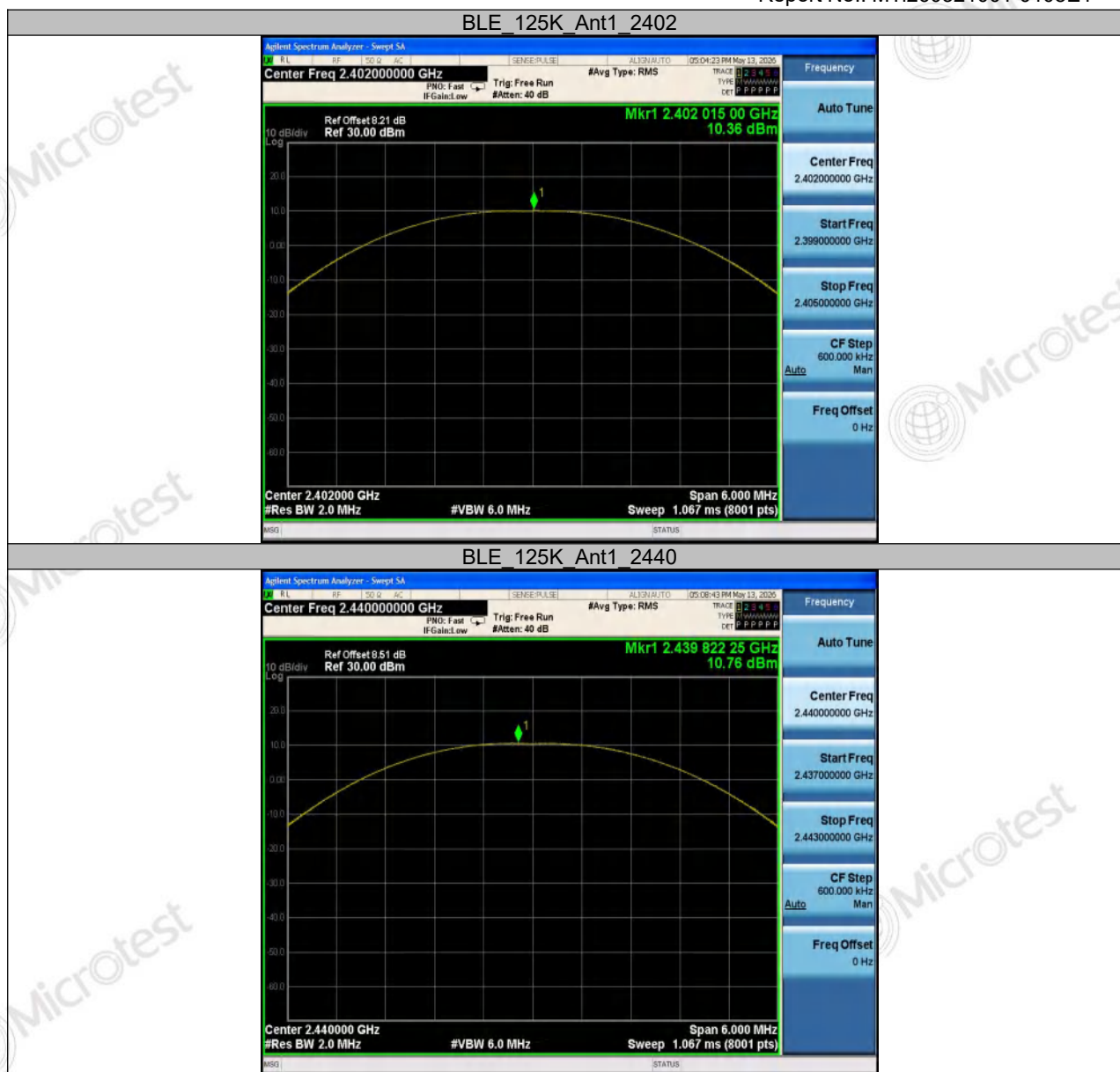
TEST REPORT

Report No.: MTi260321001-0108E1



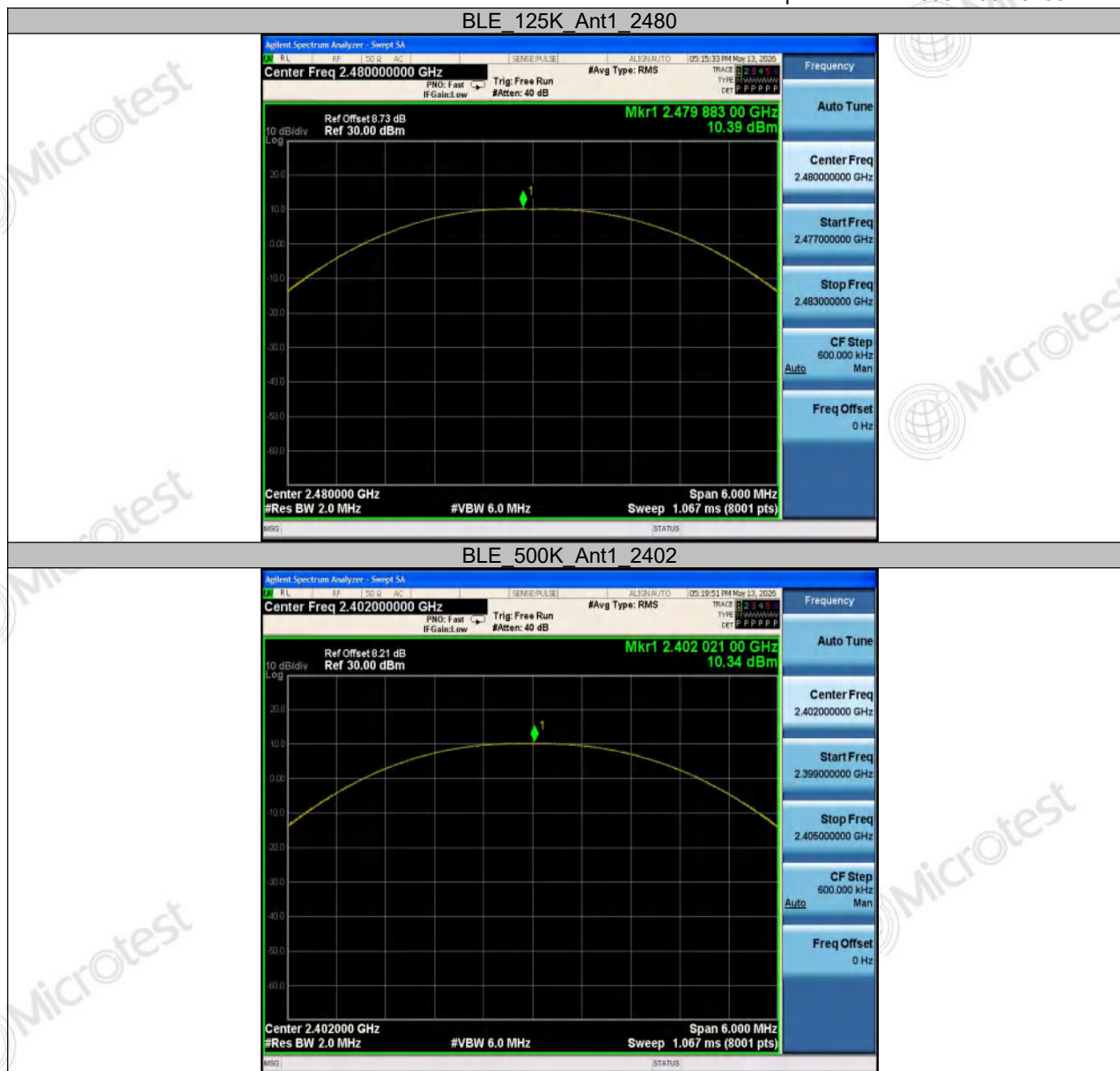
TEST REPORT

Report No.: MTi260321001-0108E1



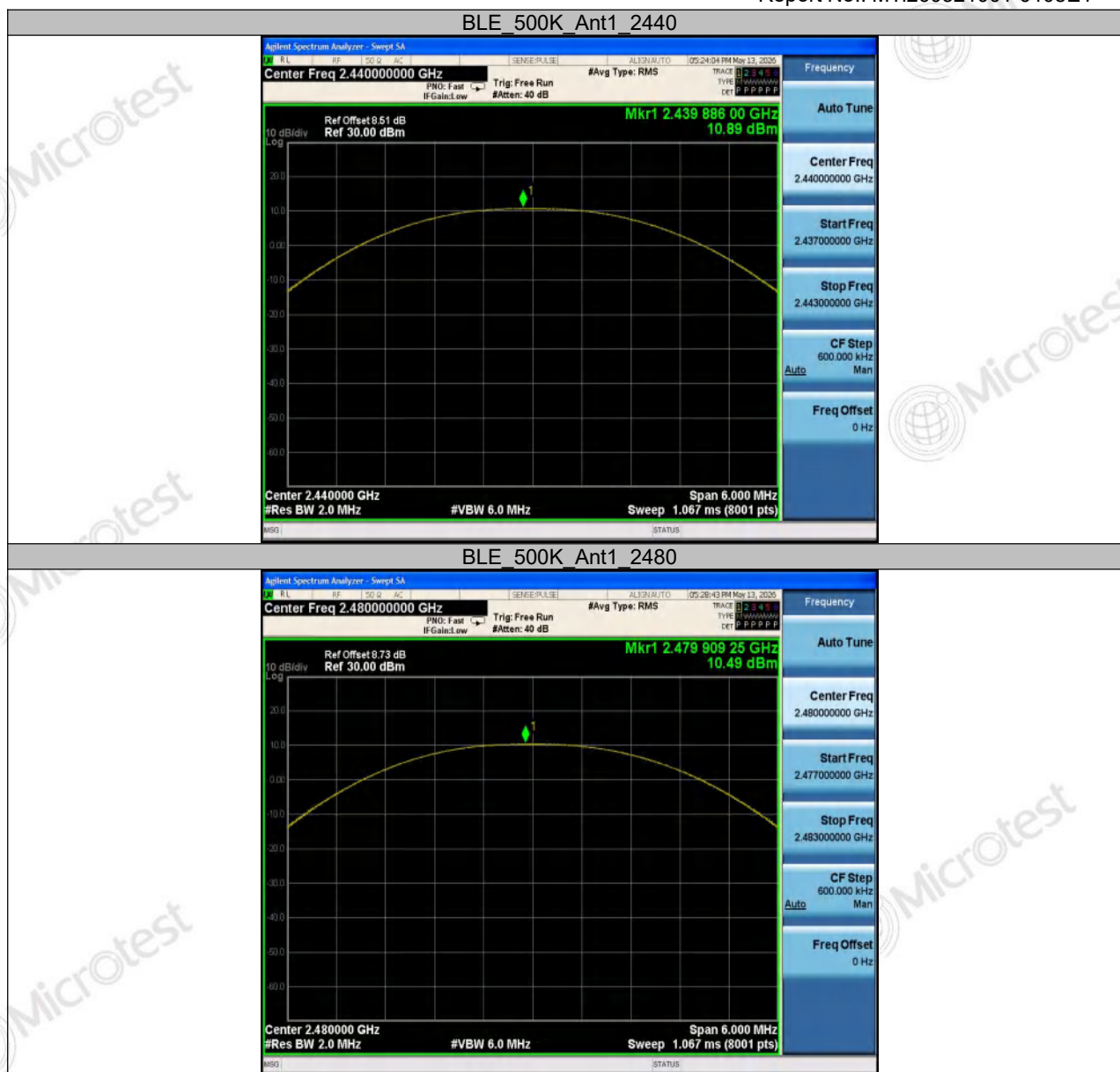
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1

Appendix C: Maximum power spectral density

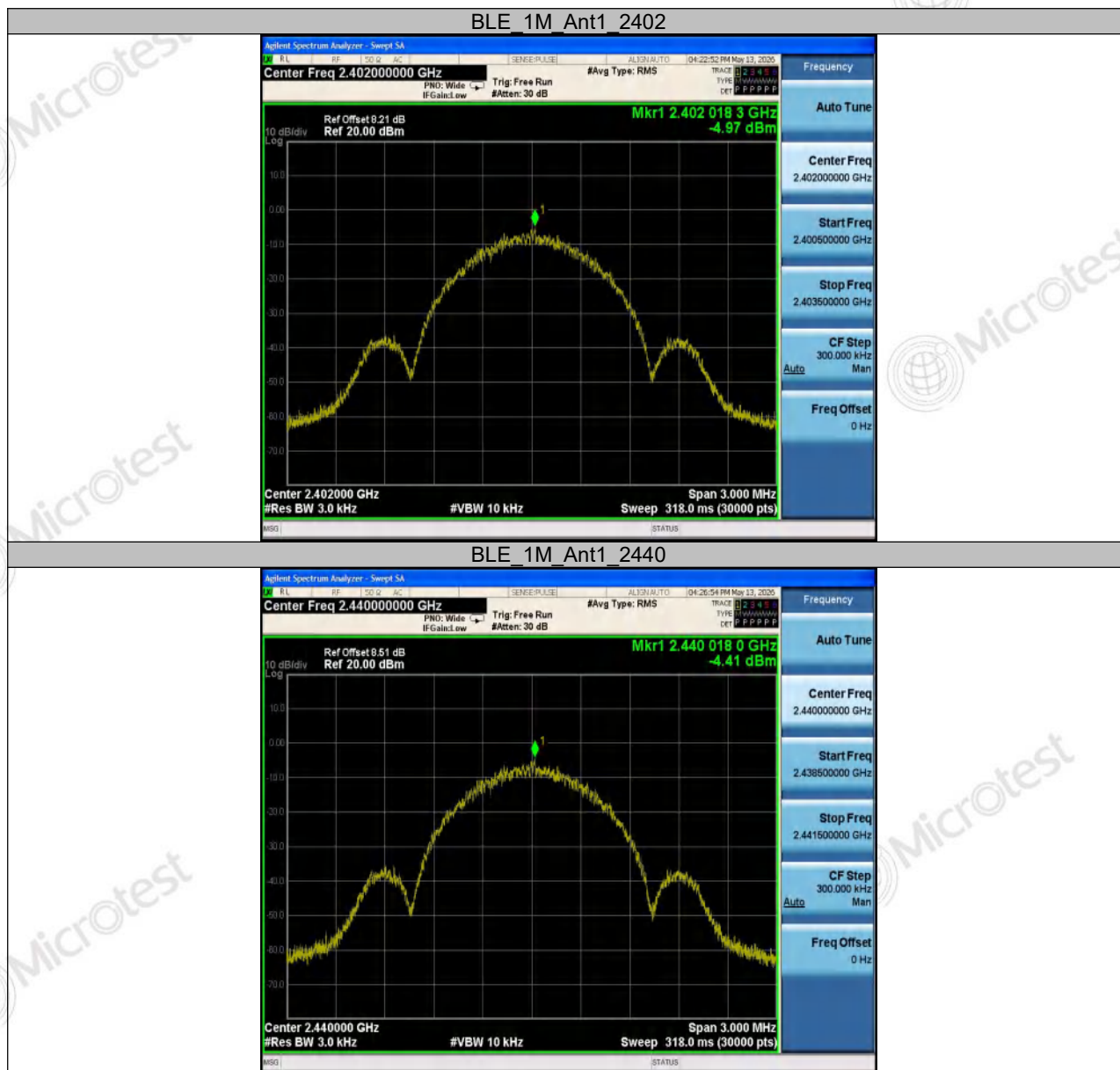
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.97	≤8.00	PASS
		2440	-4.41	≤8.00	PASS
		2480	-4.83	≤8.00	PASS
BLE_2M	Ant1	2402	-6.74	≤8.00	PASS
		2440	-6.26	≤8.00	PASS
		2480	-6.85	≤8.00	PASS
BLE_125K	Ant1	2402	2.86	≤8.00	PASS
		2440	3.76	≤8.00	PASS
		2480	2.97	≤8.00	PASS
BLE_500K	Ant1	2402	2.83	≤8.00	PASS
		2440	3.22	≤8.00	PASS
		2480	2.95	≤8.00	PASS

TEST REPORT

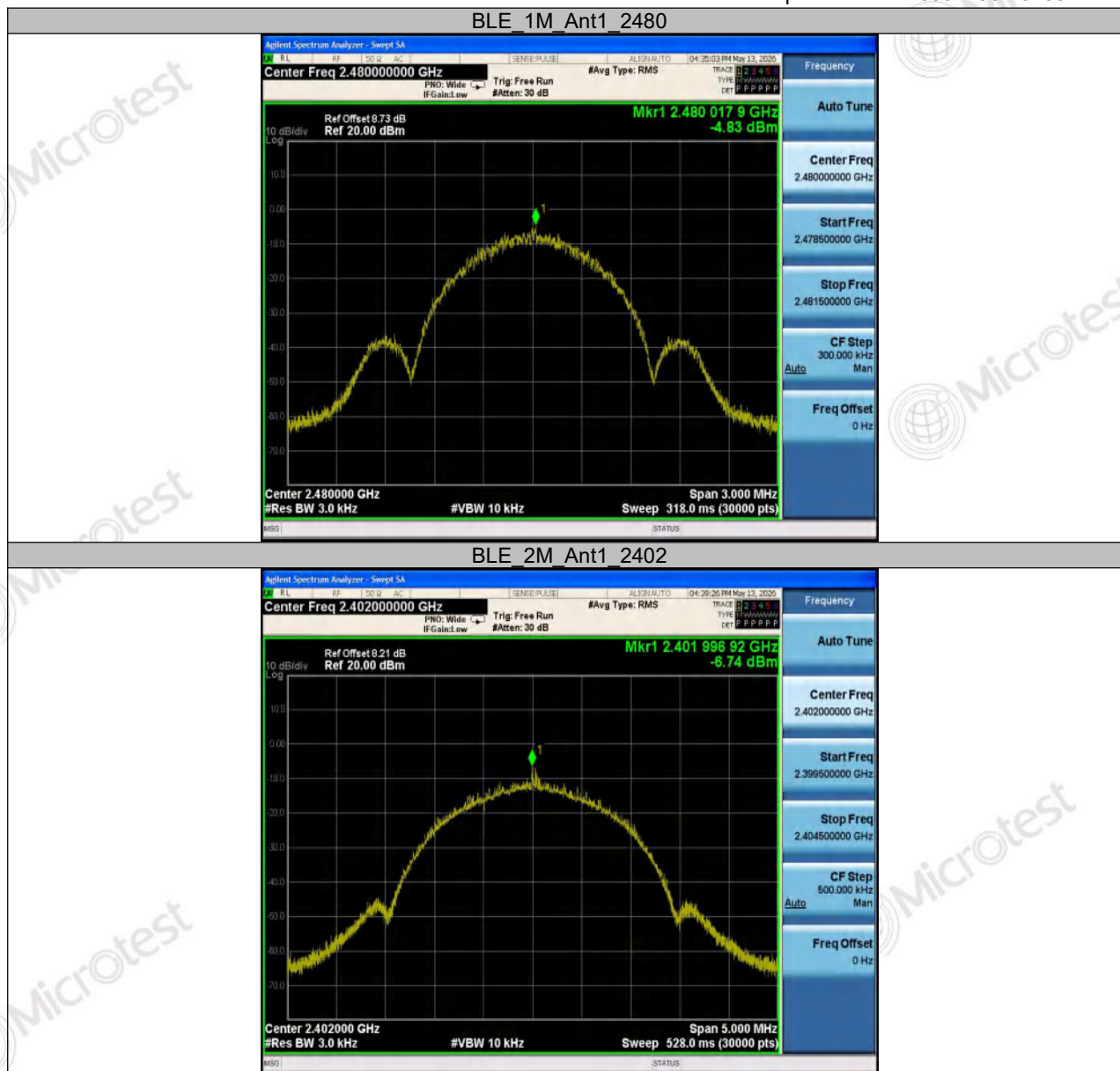
Report No.: MTI260321001-0108E1

Test Graphs



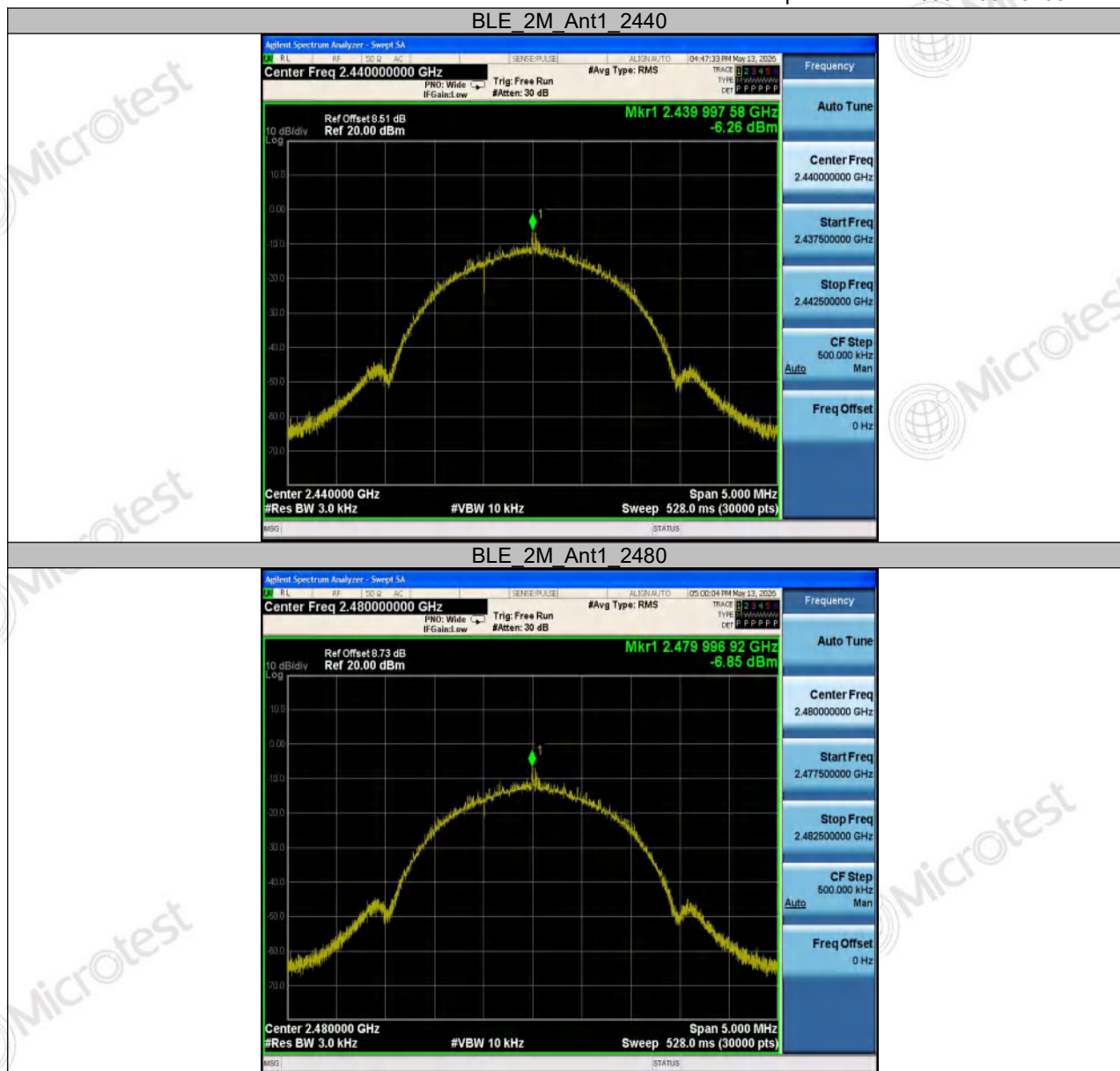
TEST REPORT

Report No.: MTi260321001-0108E1



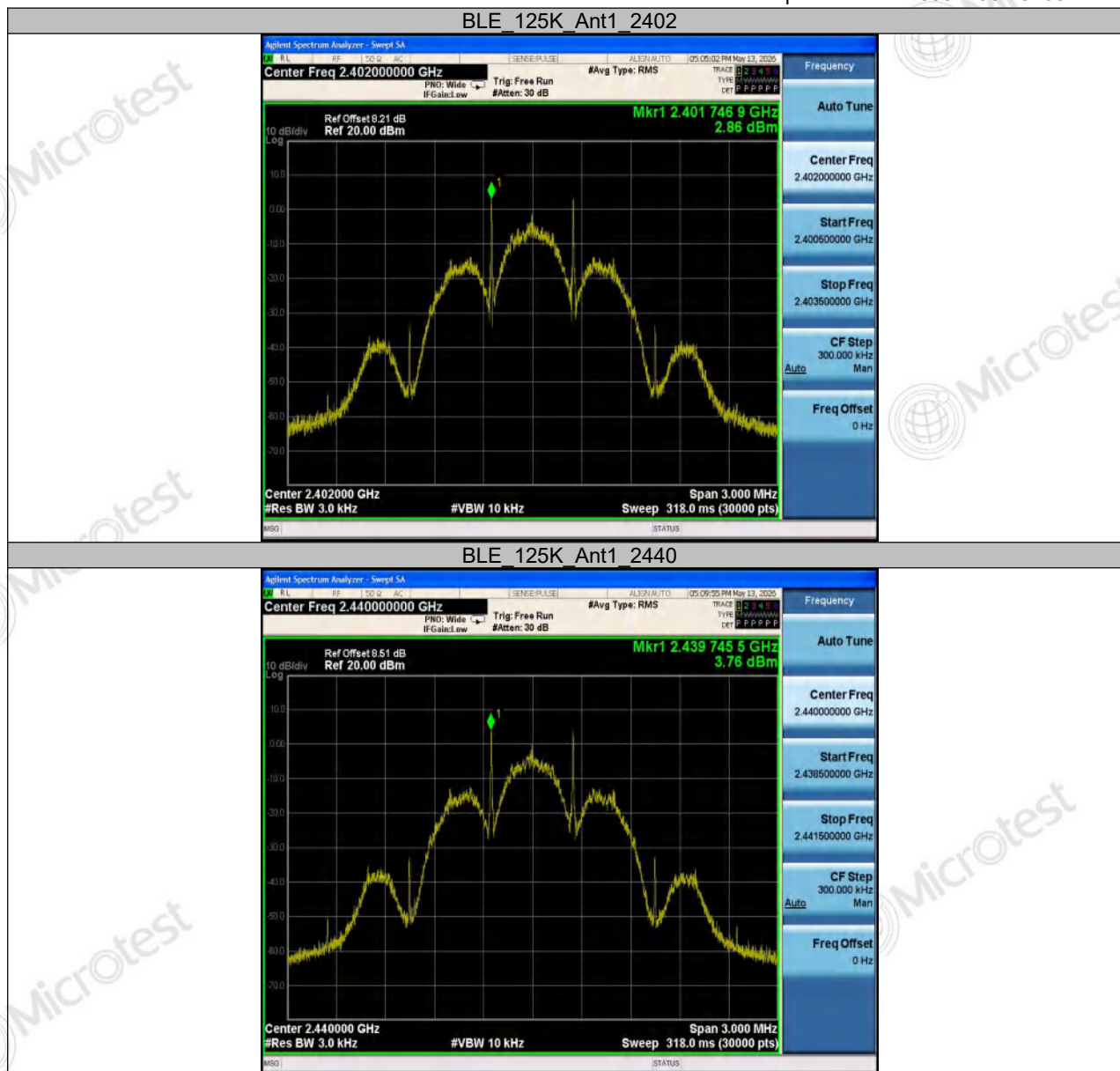
TEST REPORT

Report No.: MTi260321001-0108E1



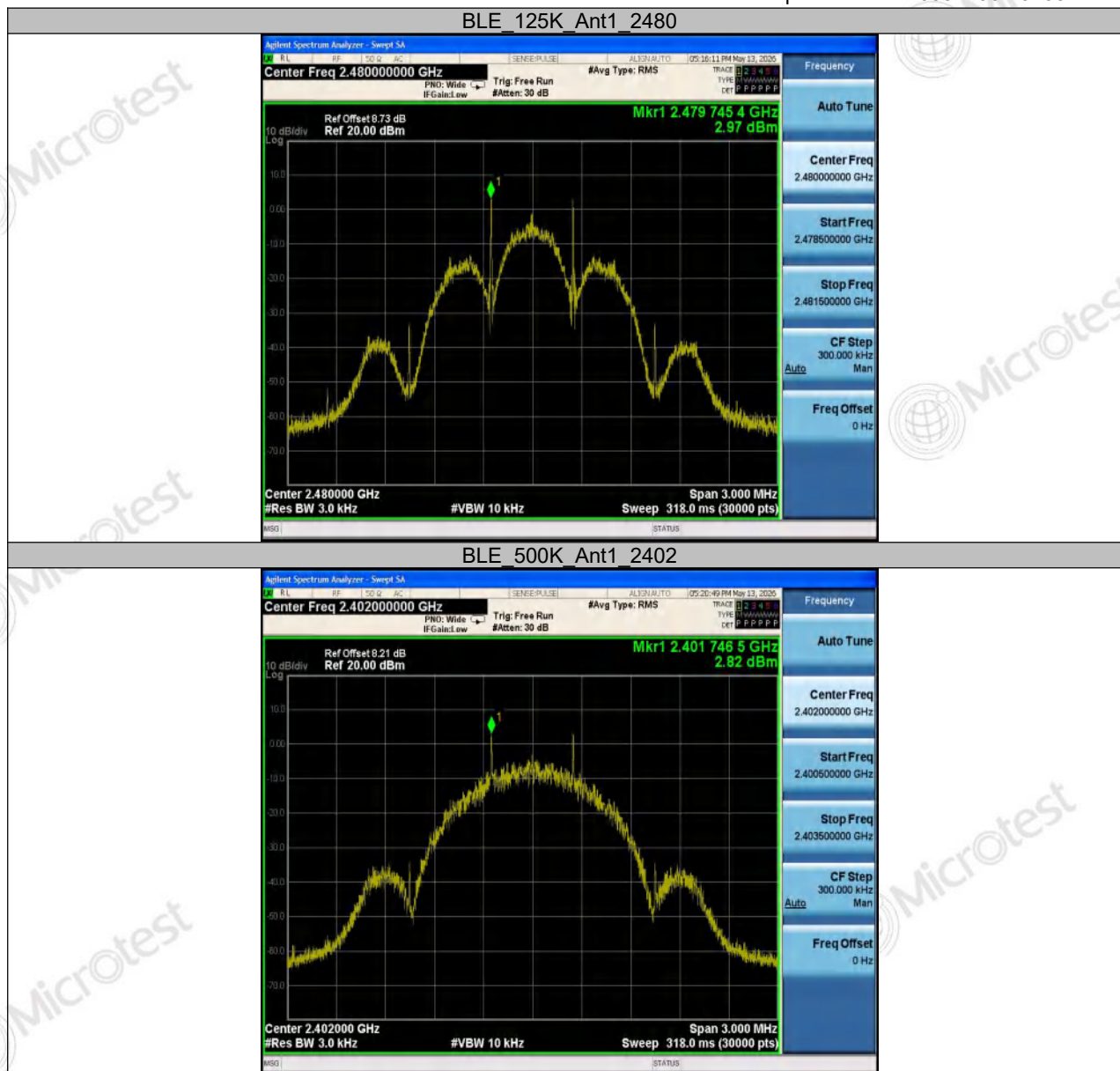
TEST REPORT

Report No.: MTi260321001-0108E1



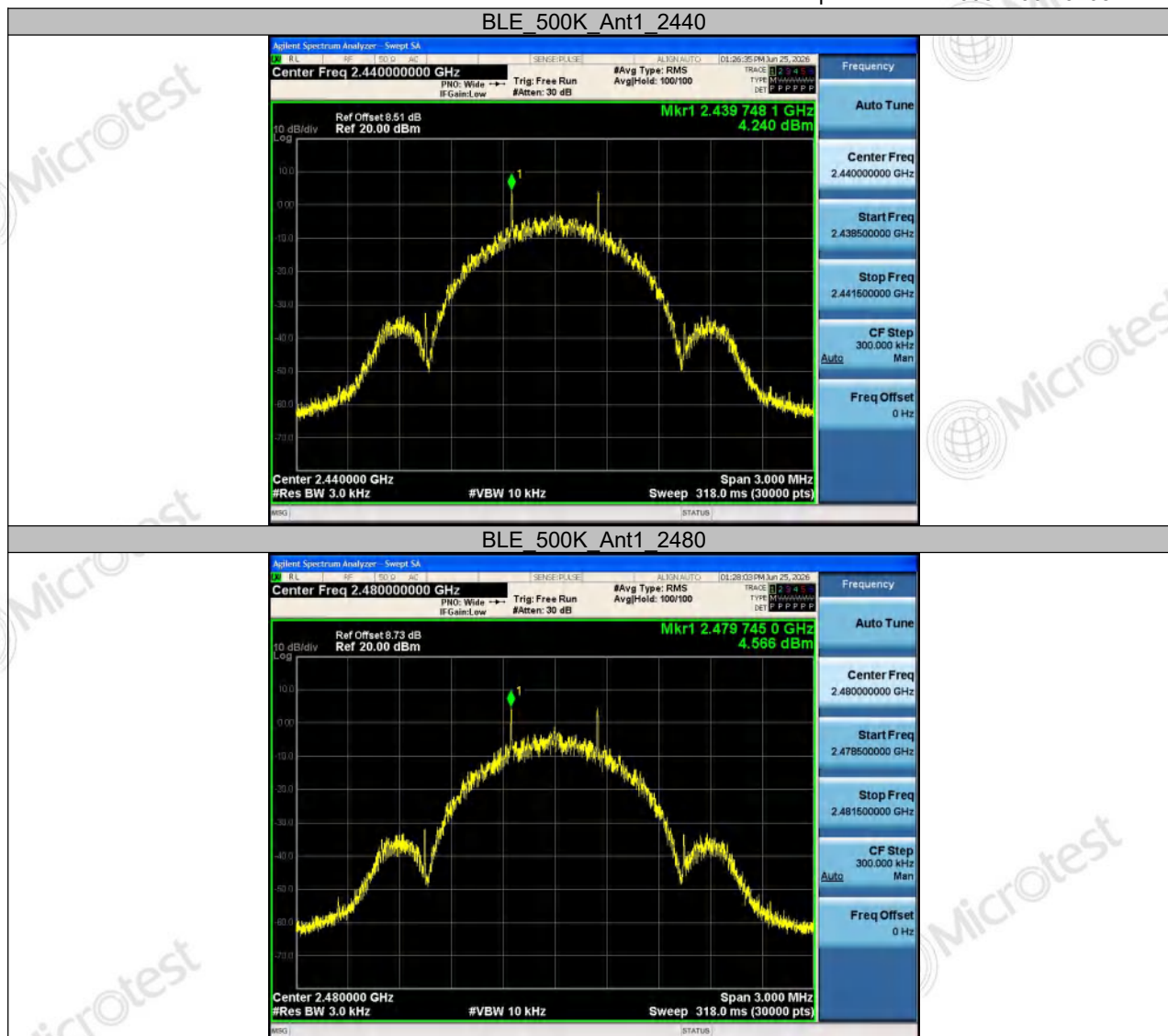
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1

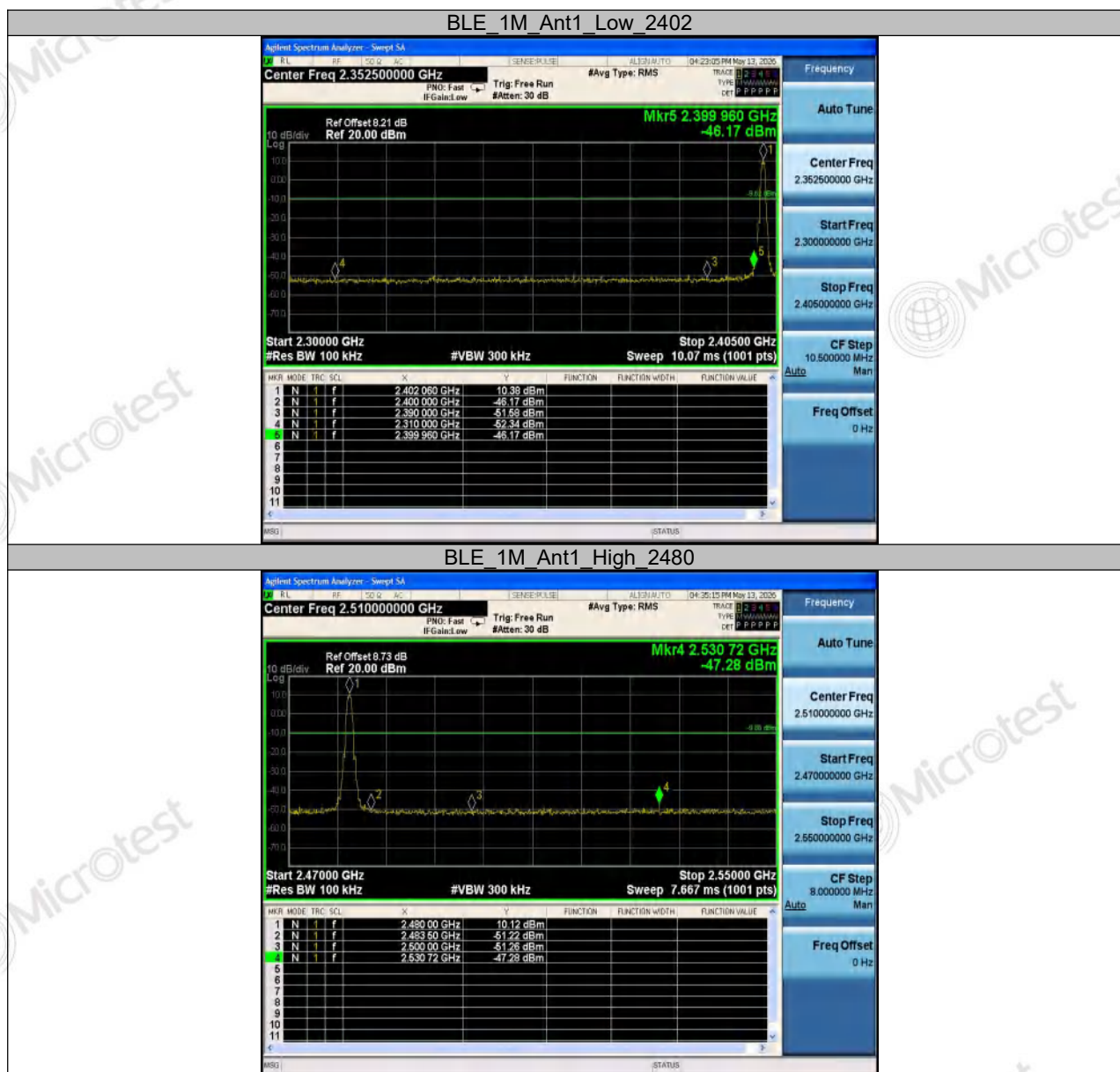


TEST REPORT

Report No.: MTI260321001-0108E1

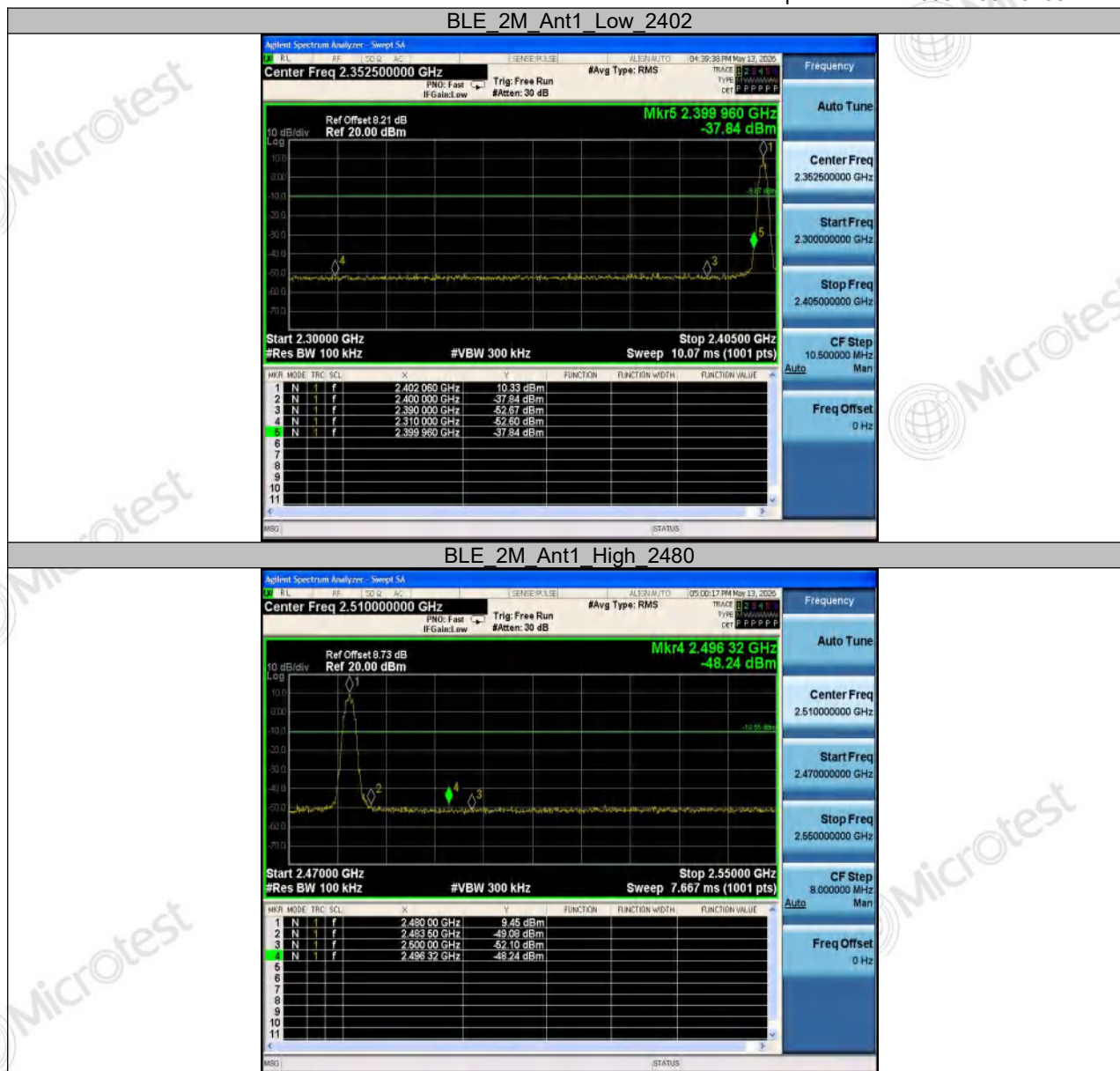
Appendix D: Band edge measurements

Test Graphs



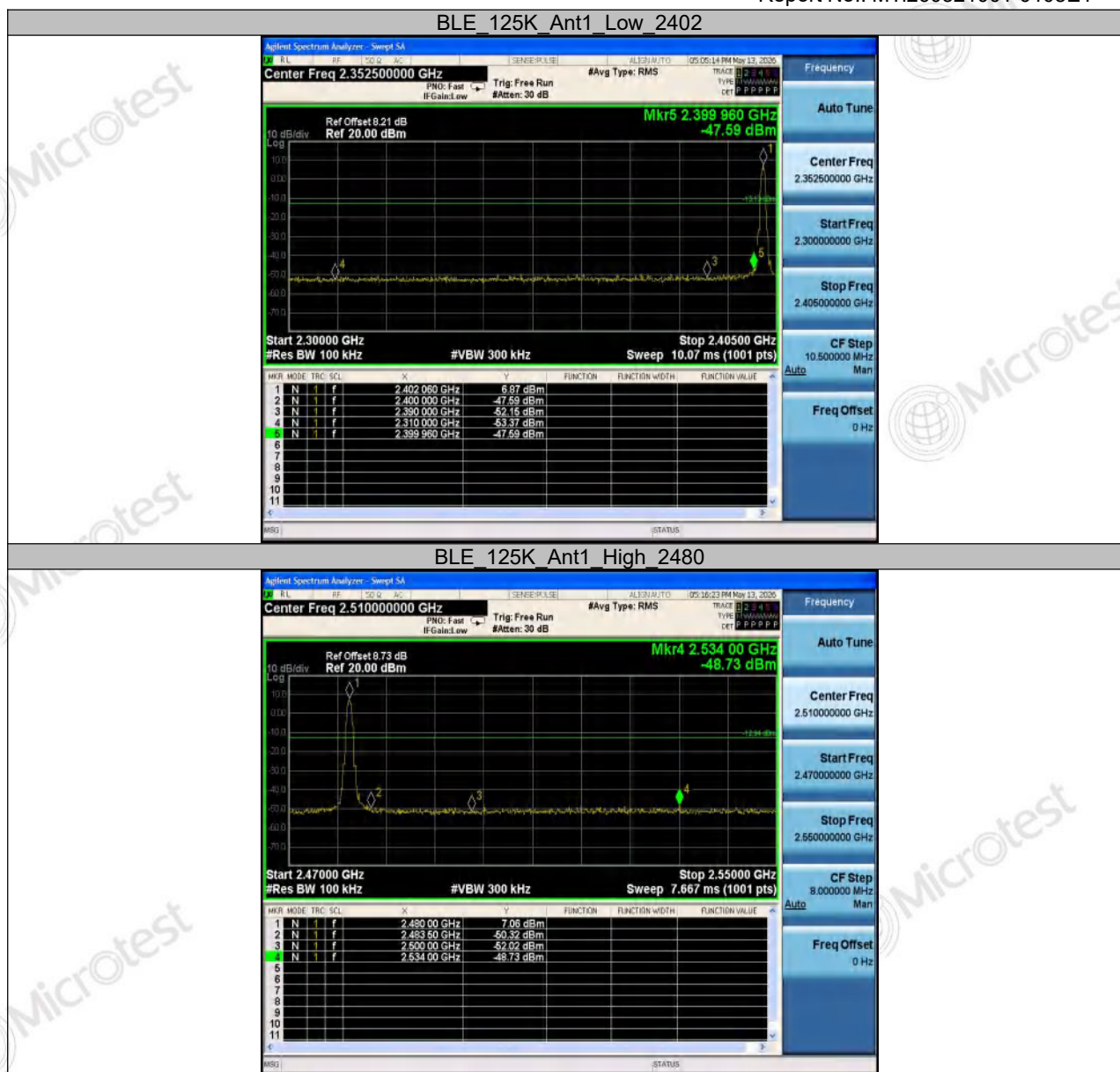
TEST REPORT

Report No.: MTi260321001-0108E1



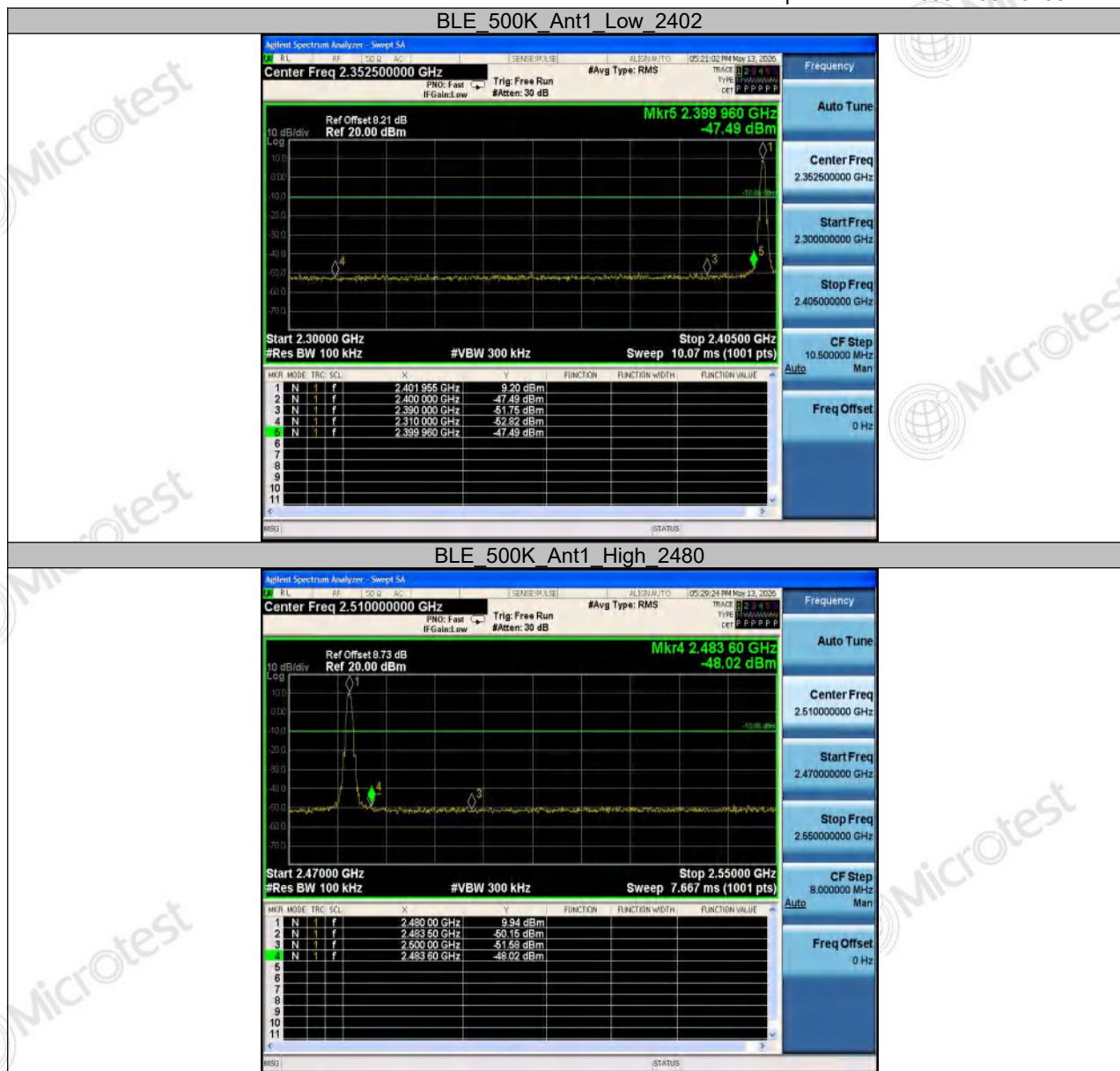
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1

Appendix E: Conducted Spurious Emission

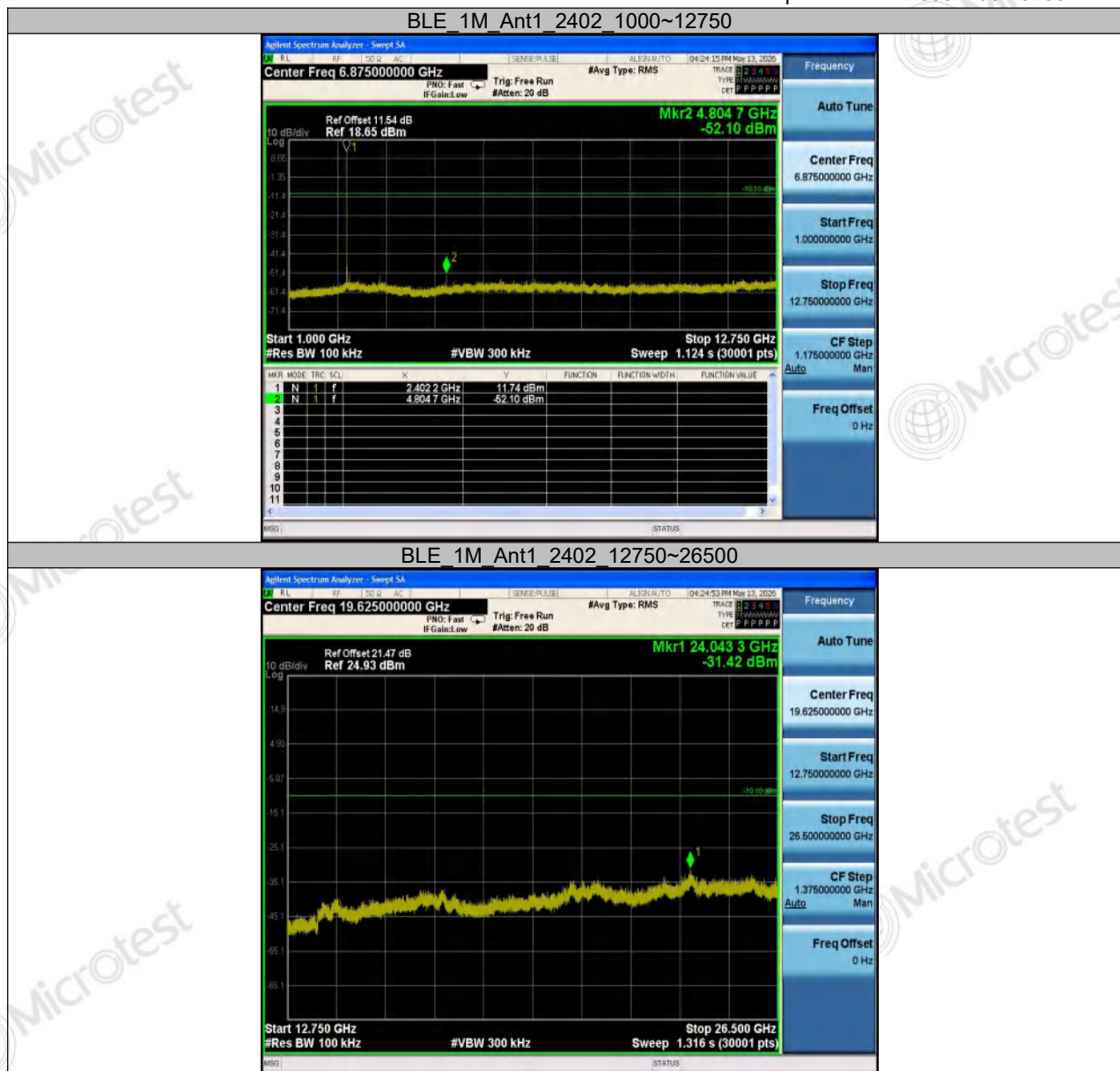
Note: The conducted spurious emissions test has compensated for the maximum line loss measurement, and the recorded data represents the worst-case scenario.

Test Graphs



TEST REPORT

Report No.: MTi260321001-0108E1



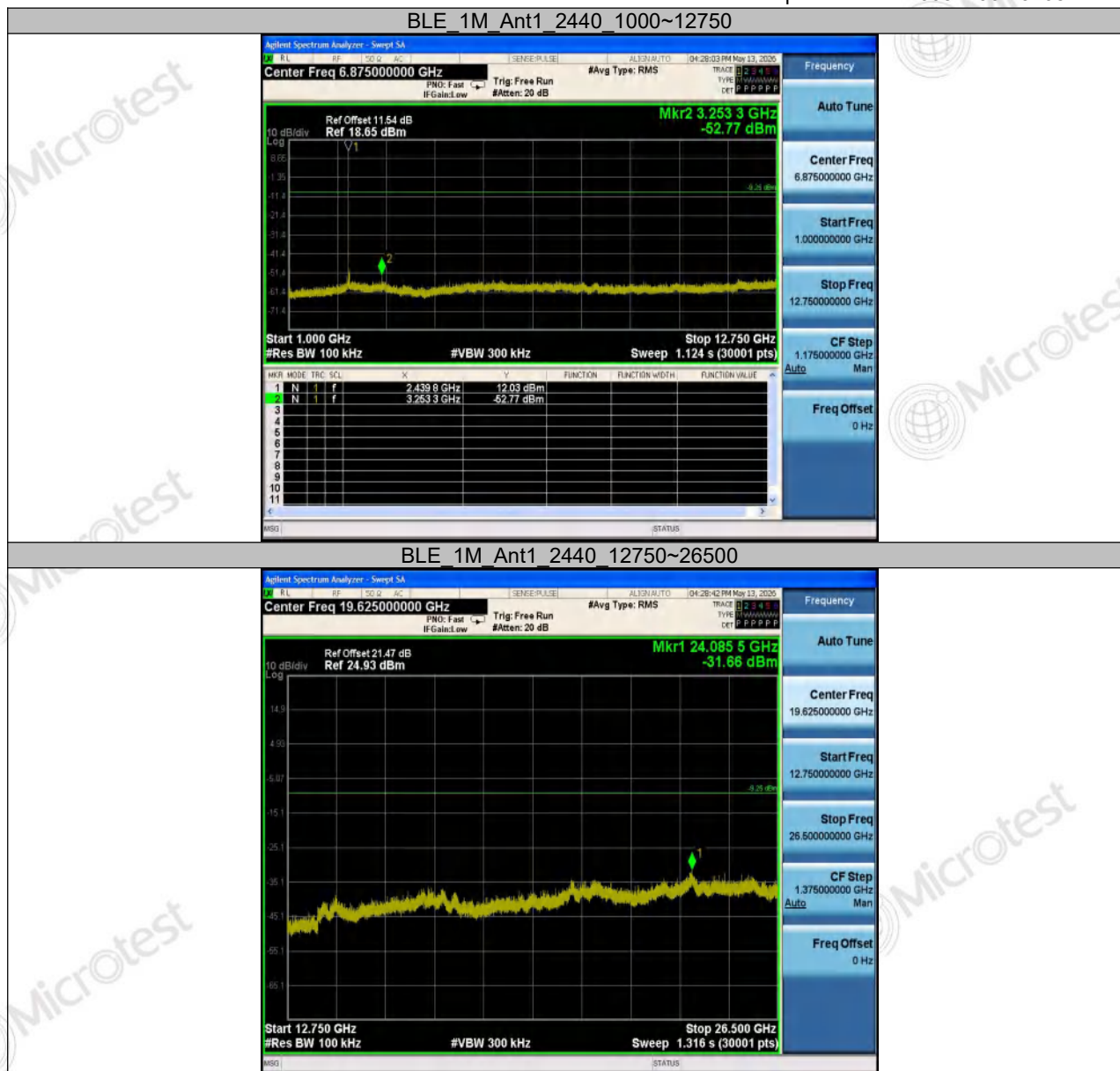
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



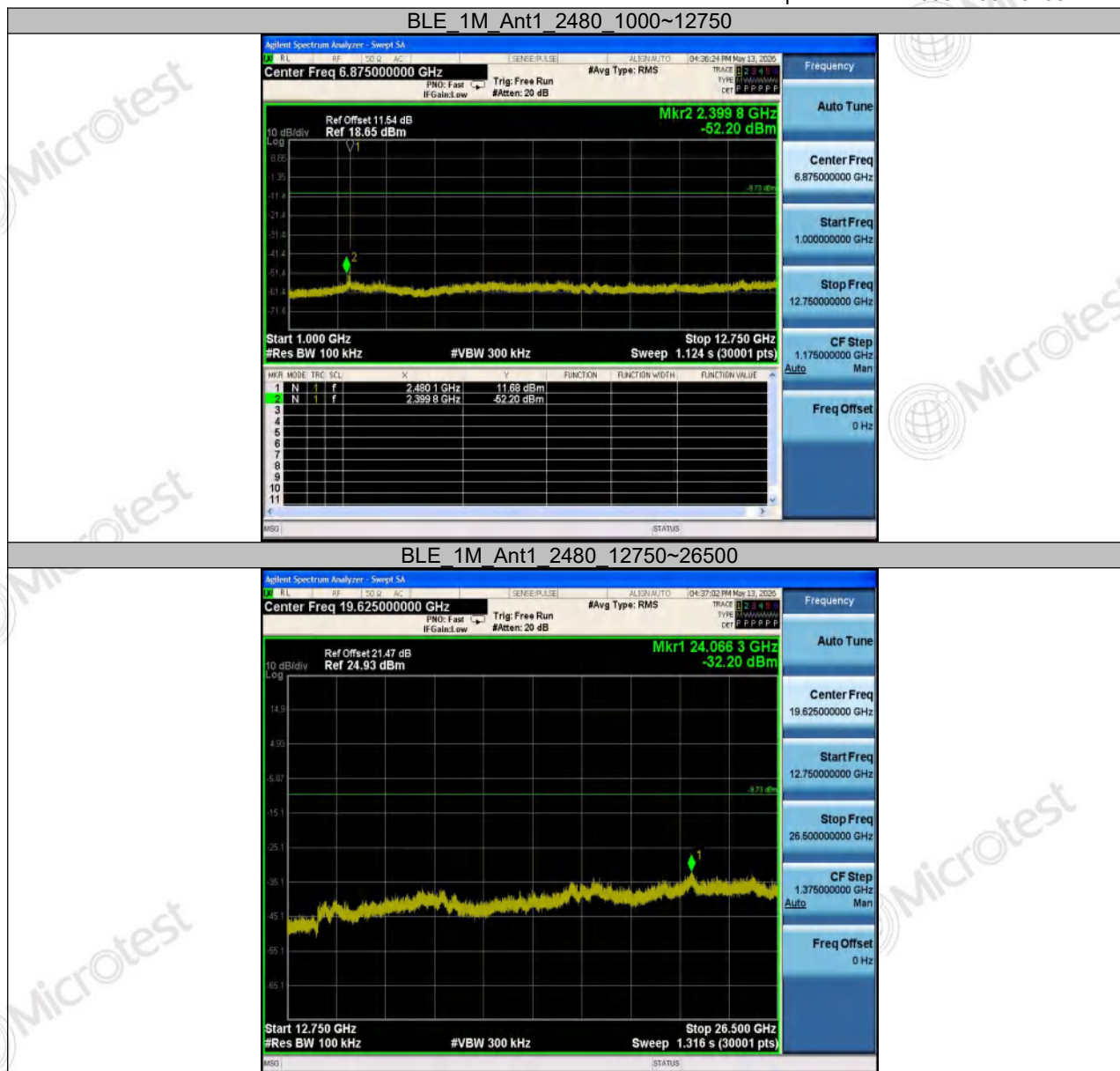
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



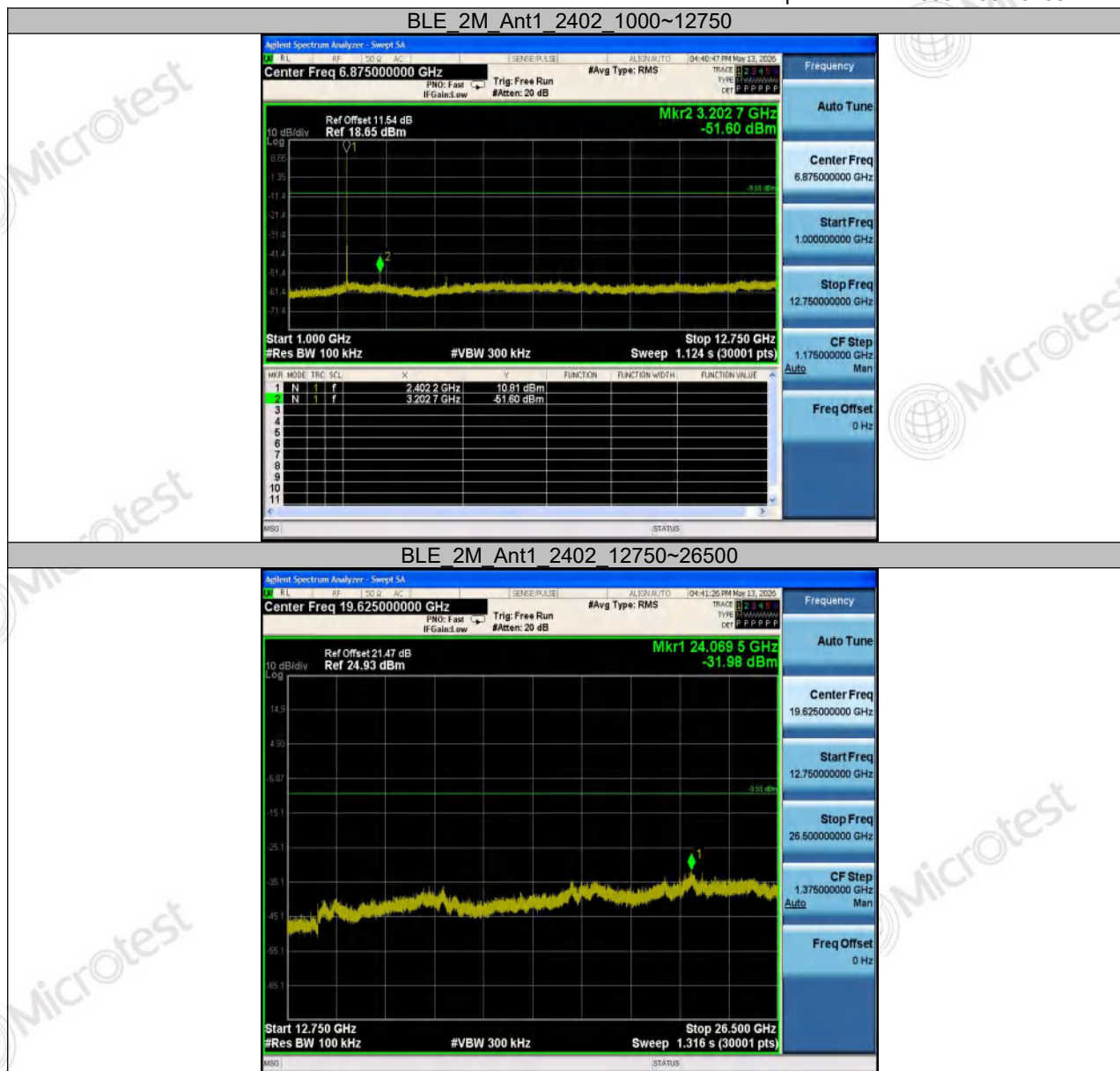
TEST REPORT

Report No.: MTi260321001-0108E1



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Report No.: MTI260321001-0108E1



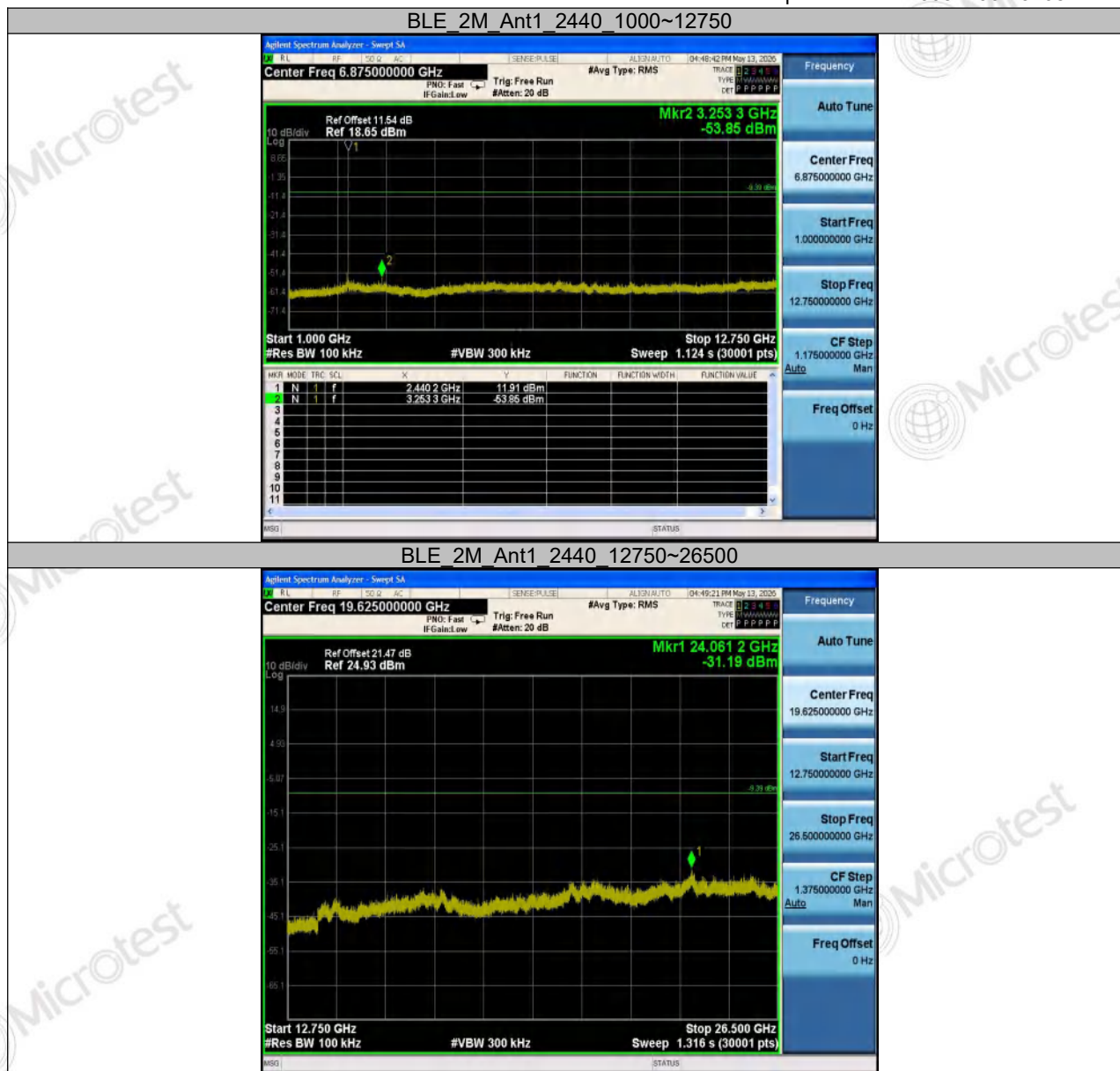
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1



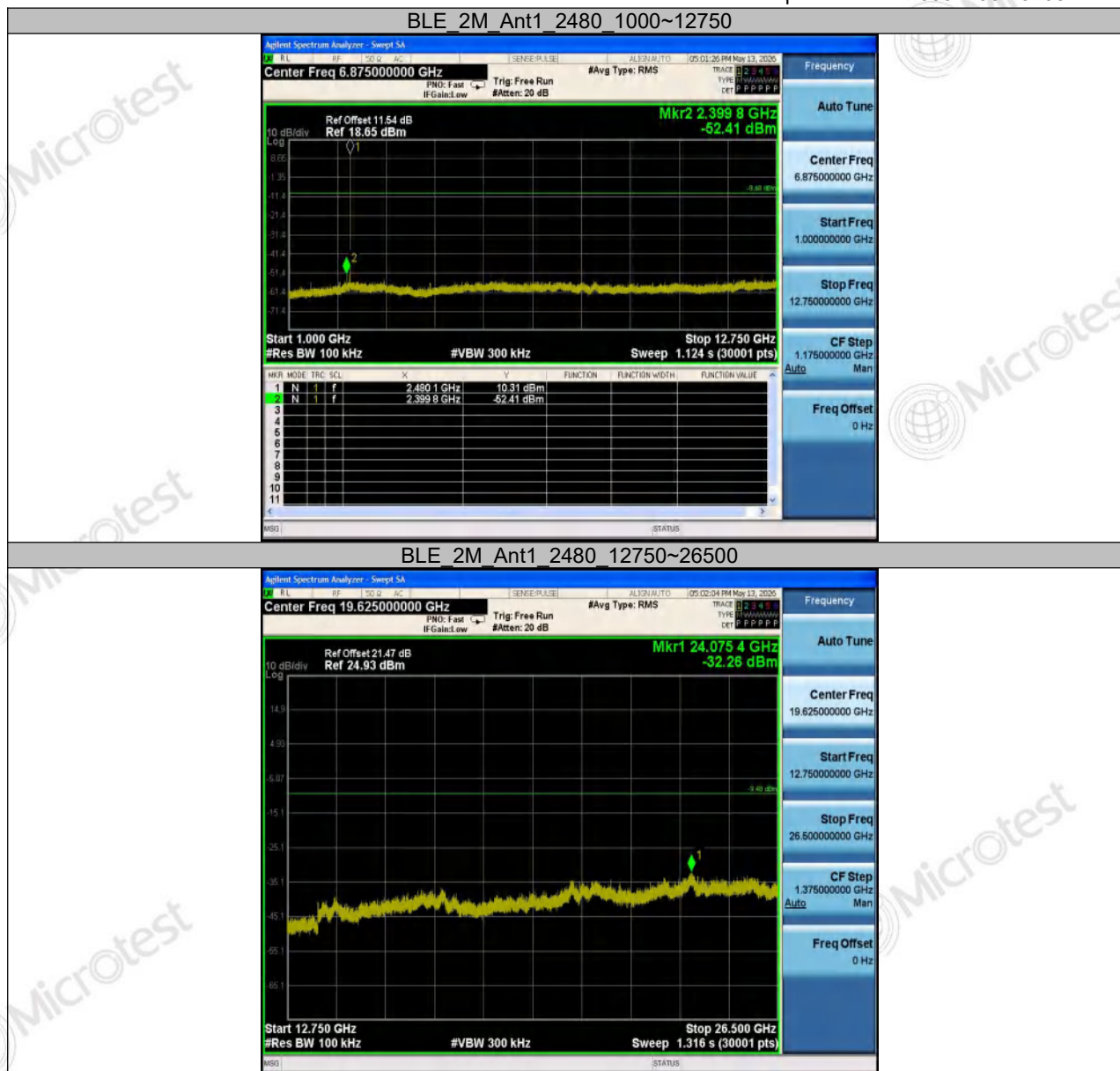
TEST REPORT

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TEST REPORT

Report No.: MTI260321001-0108E1



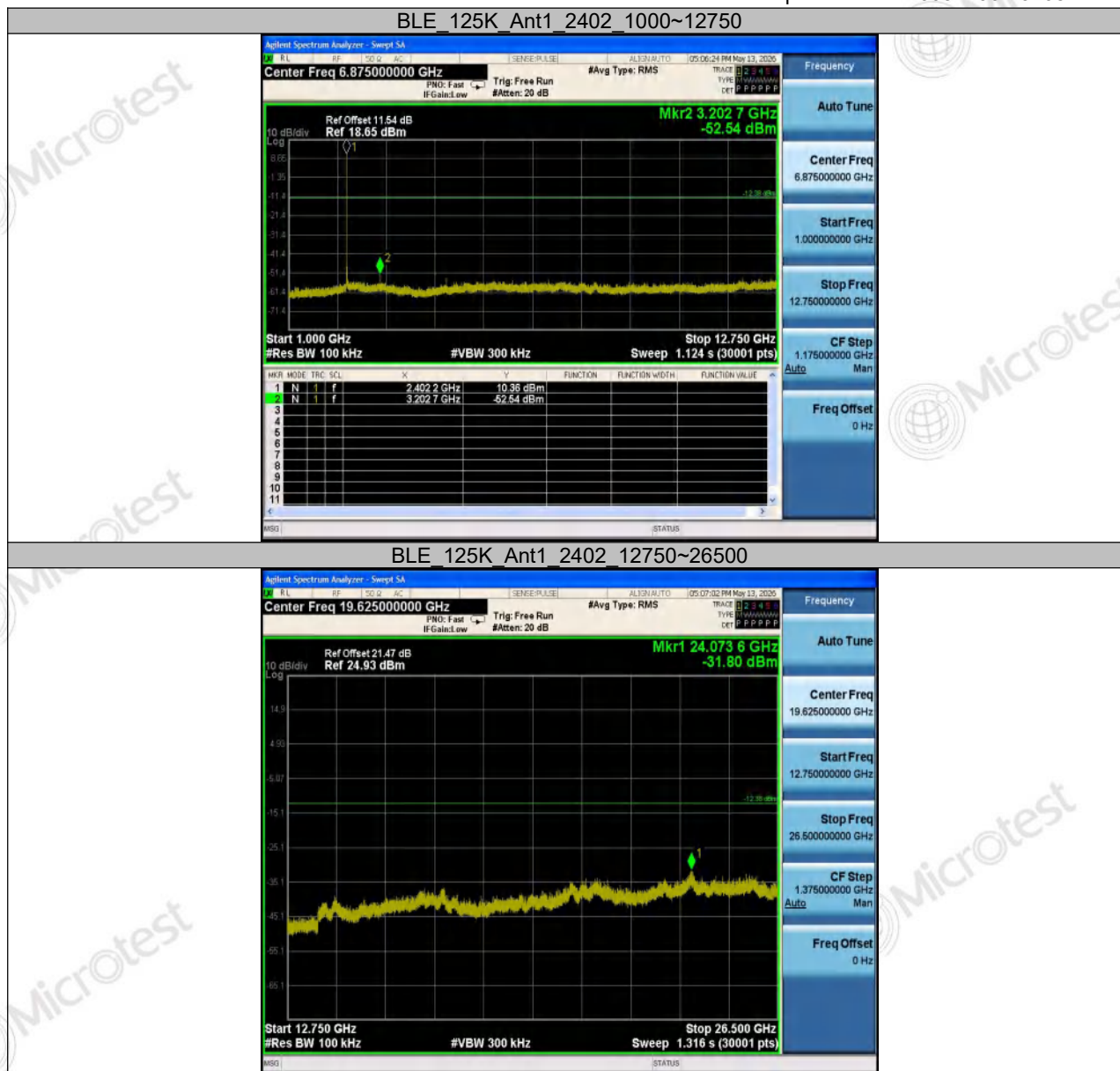
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



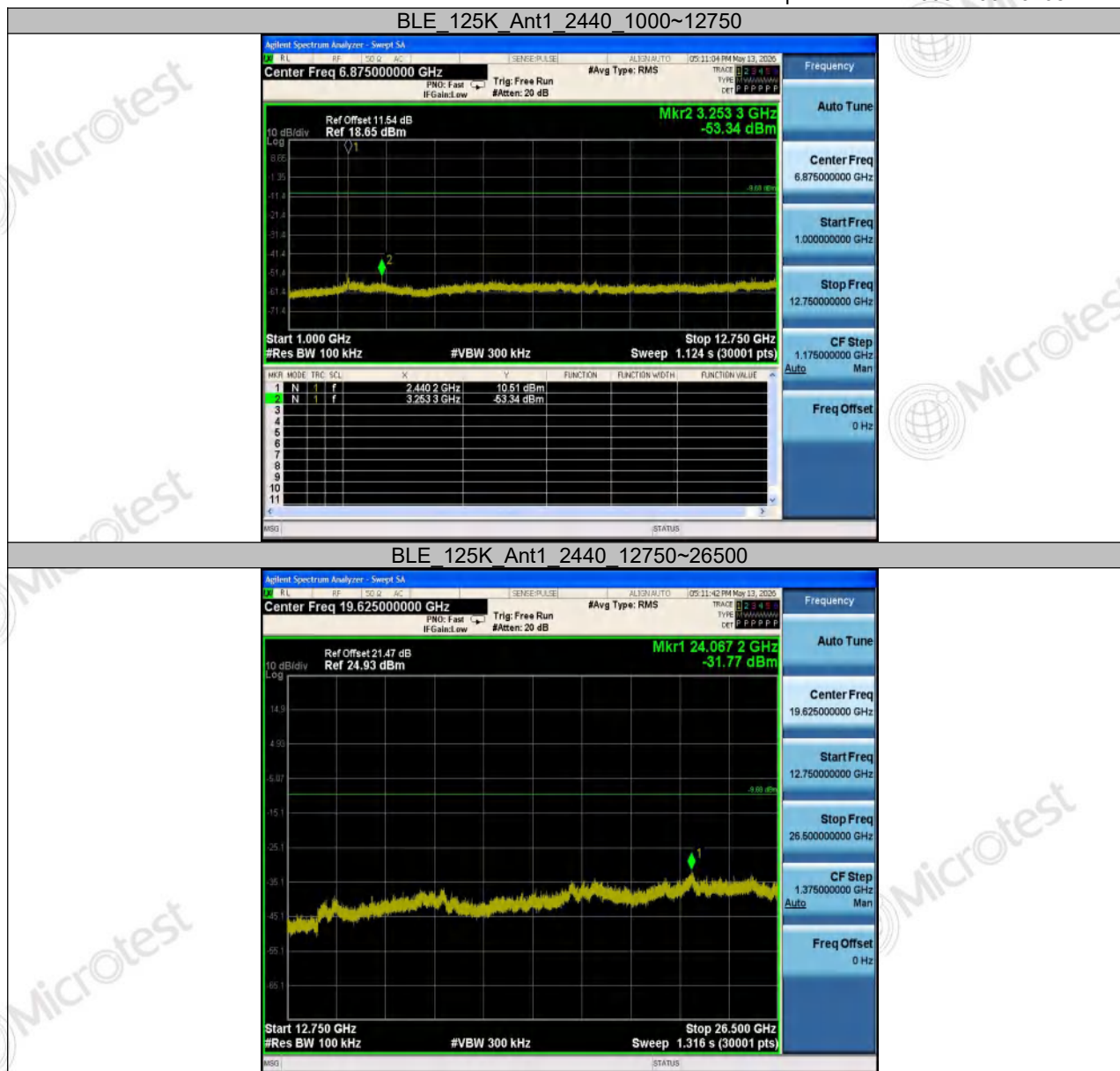
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



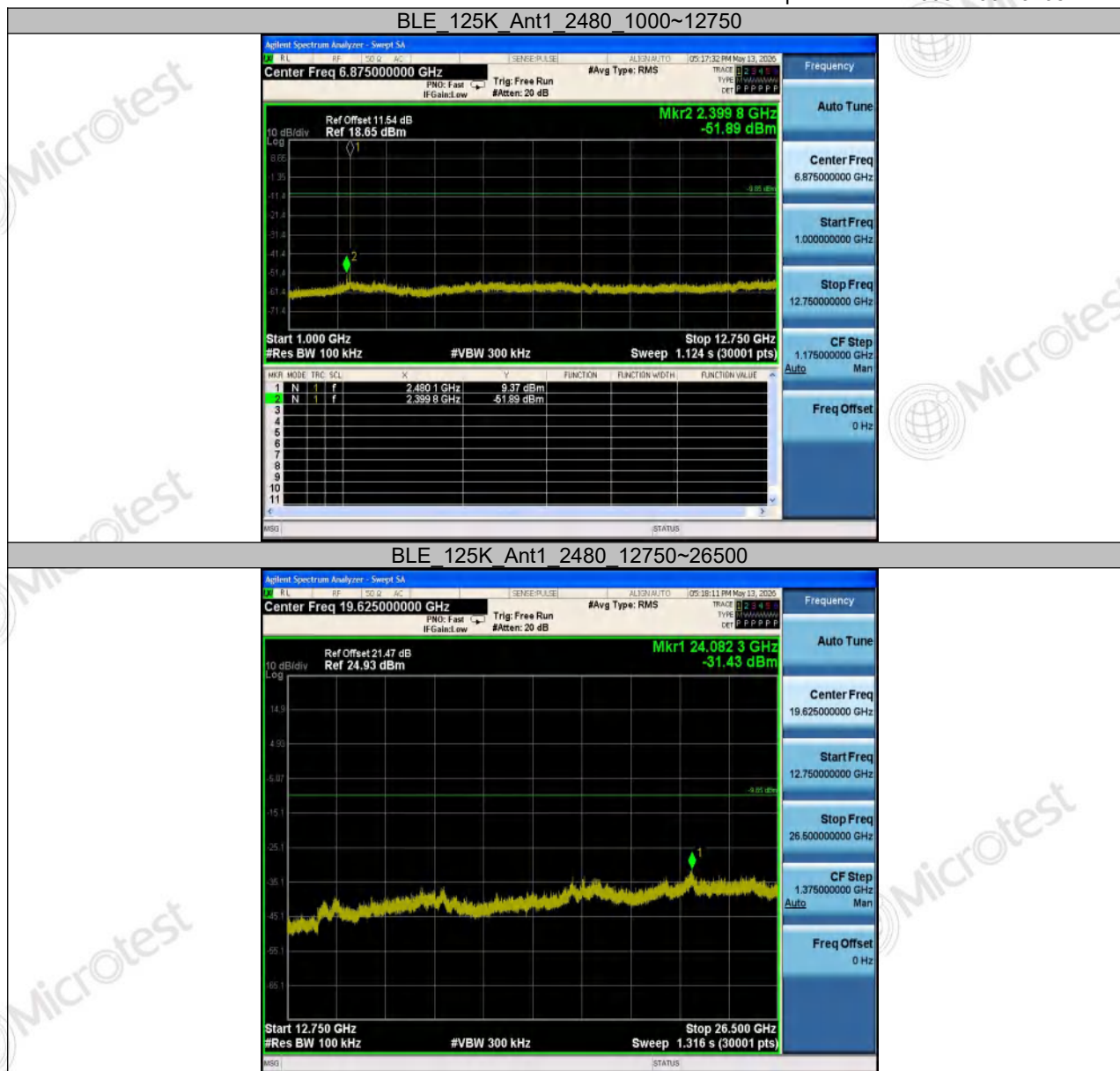
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1



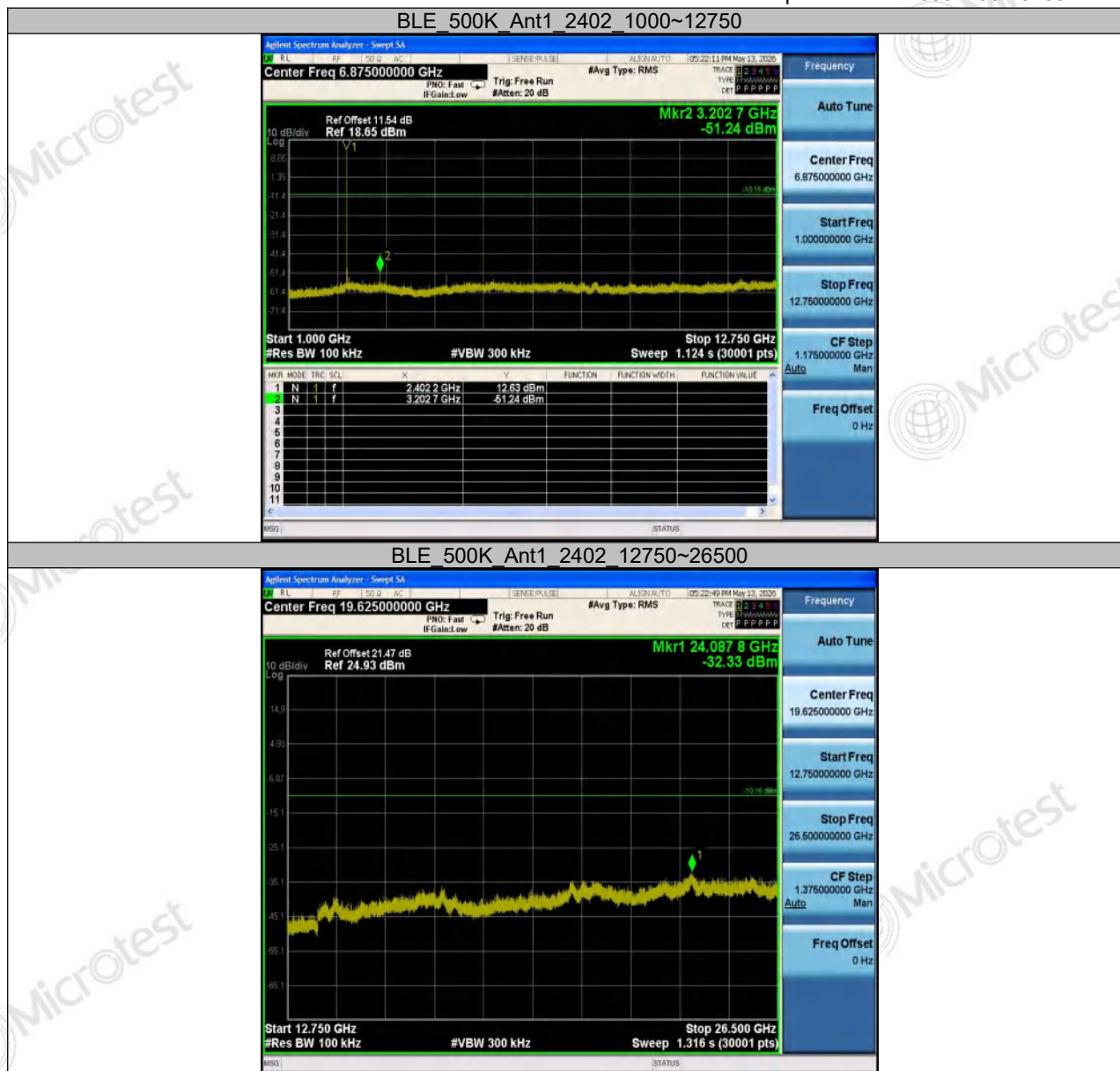
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



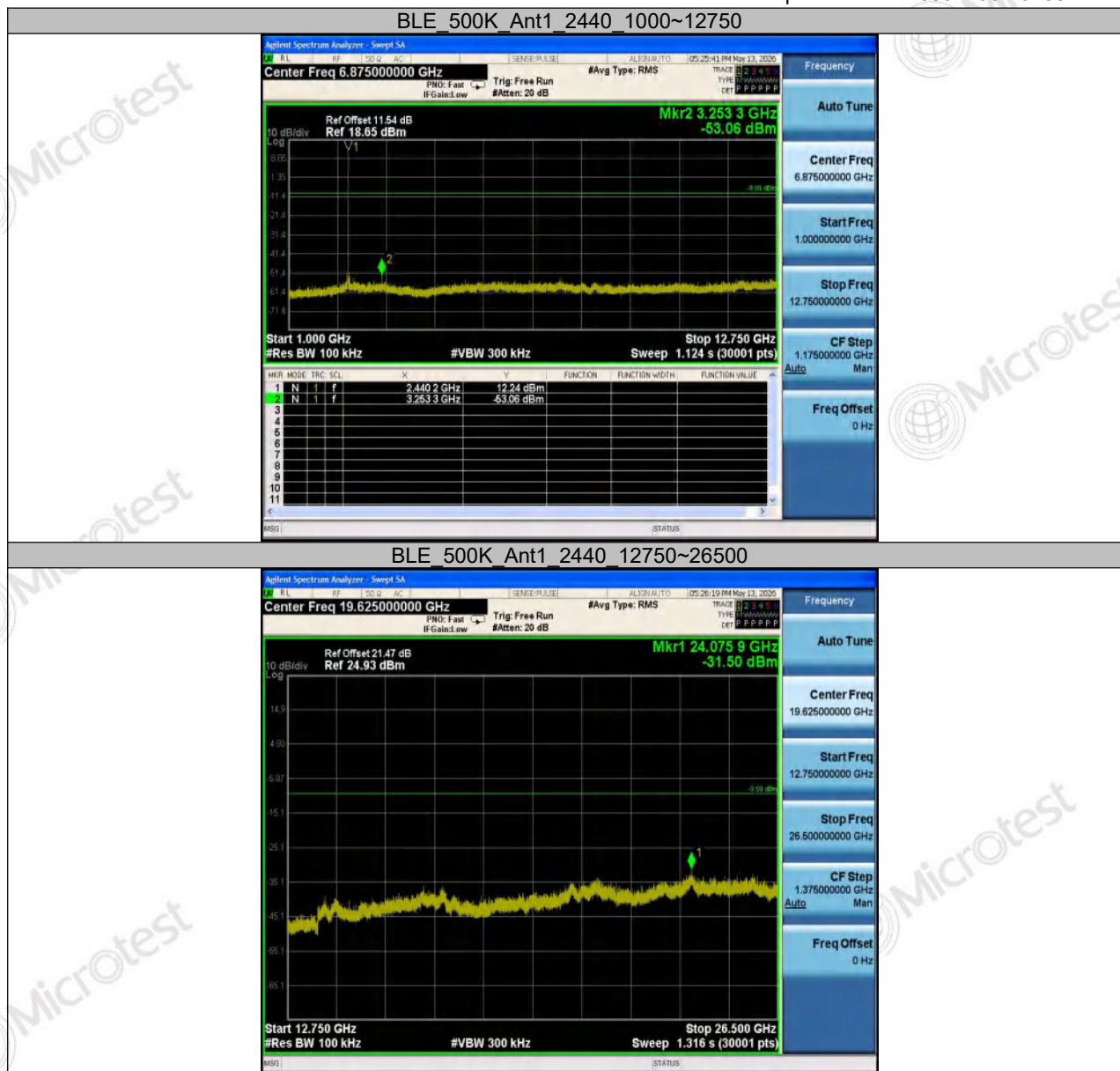
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



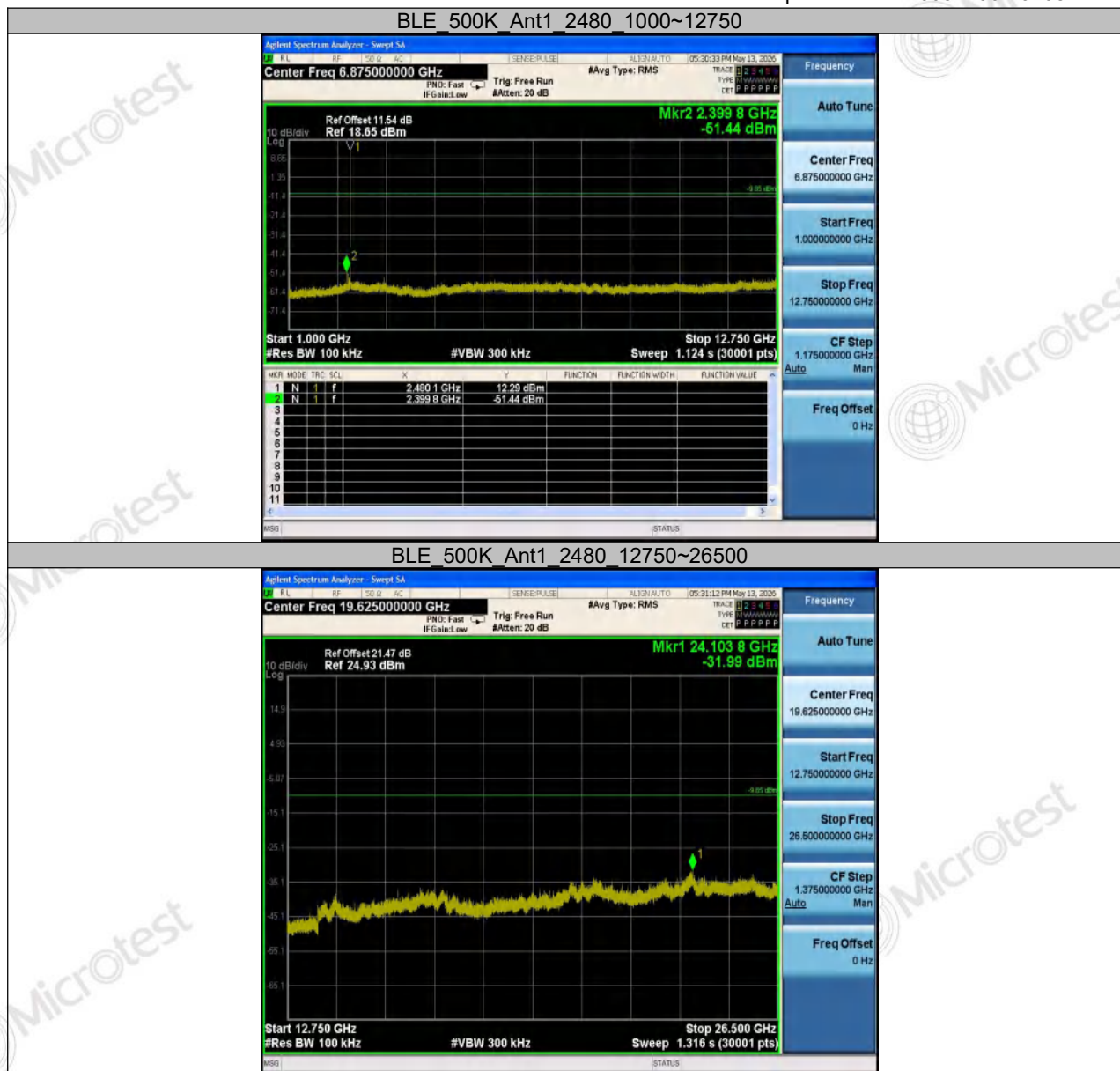
TEST REPORT

Report No.: MTi260321001-0108E1



TEST REPORT

Report No.: MTI260321001-0108E1



TEST REPORT

Report No.: MTi260321001-0108E1

Appendix F: Duty Cycle

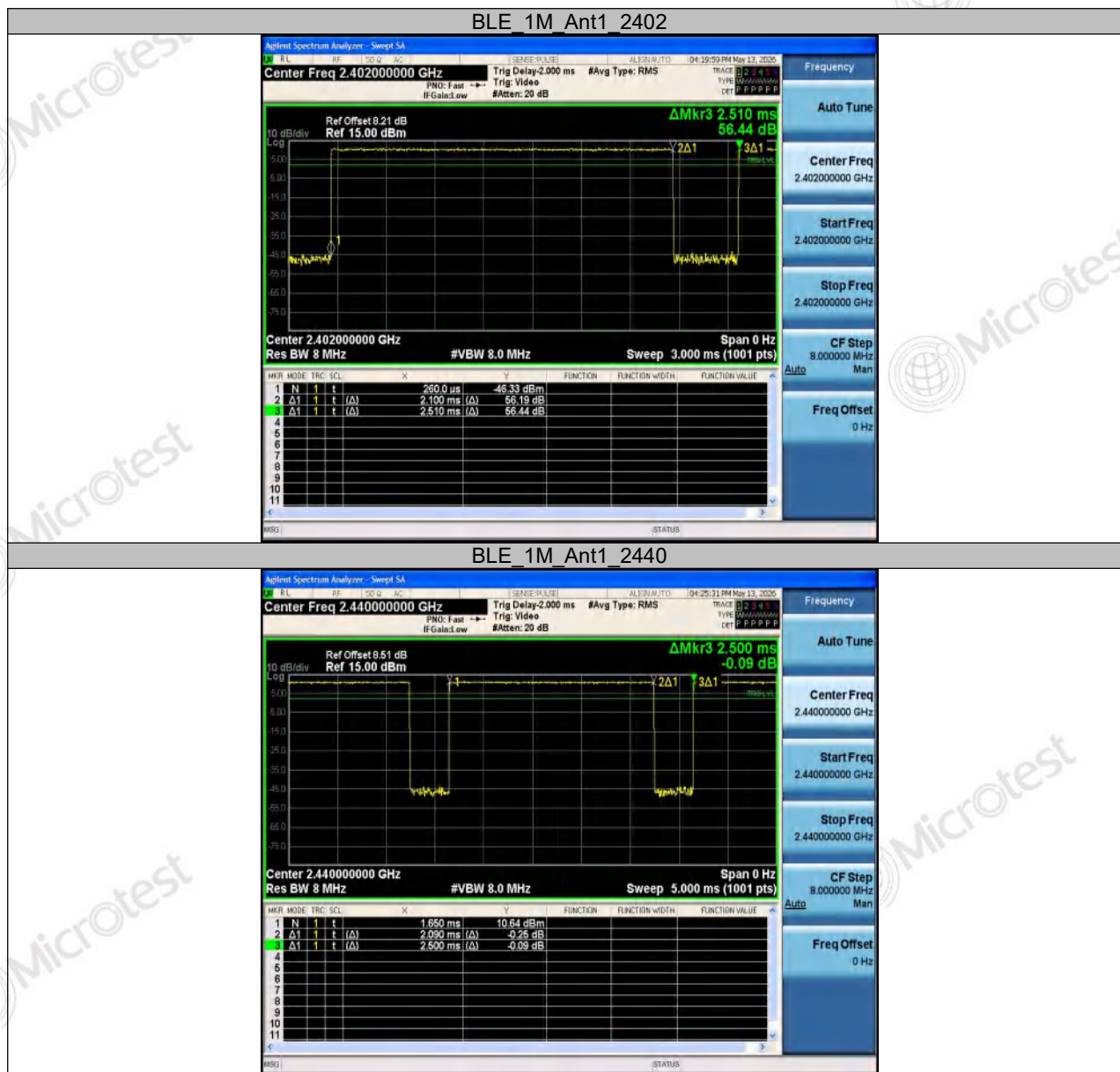
Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	2.10	2.51	83.67	0.77
		2440	2.09	2.50	83.60	0.78
		2480	2.10	2.50	84.00	0.76
BLE_2M	Ant1	2402	1.06	1.87	56.68	2.47
		2440	1.06	1.87	56.68	2.47
		2480	1.07	1.88	56.91	2.45
BLE_125K	Ant1	2402	16.75	17.50	95.71	0.19
		2440	16.75	17.50	95.71	0.19
		2480	16.74	17.50	95.66	0.19
BLE_500K	Ant1	2402	4.48	5.00	89.60	0.48
		2440	4.48	4.99	89.78	0.47
		2480	4.48	5.00	89.60	0.48

TEST REPORT

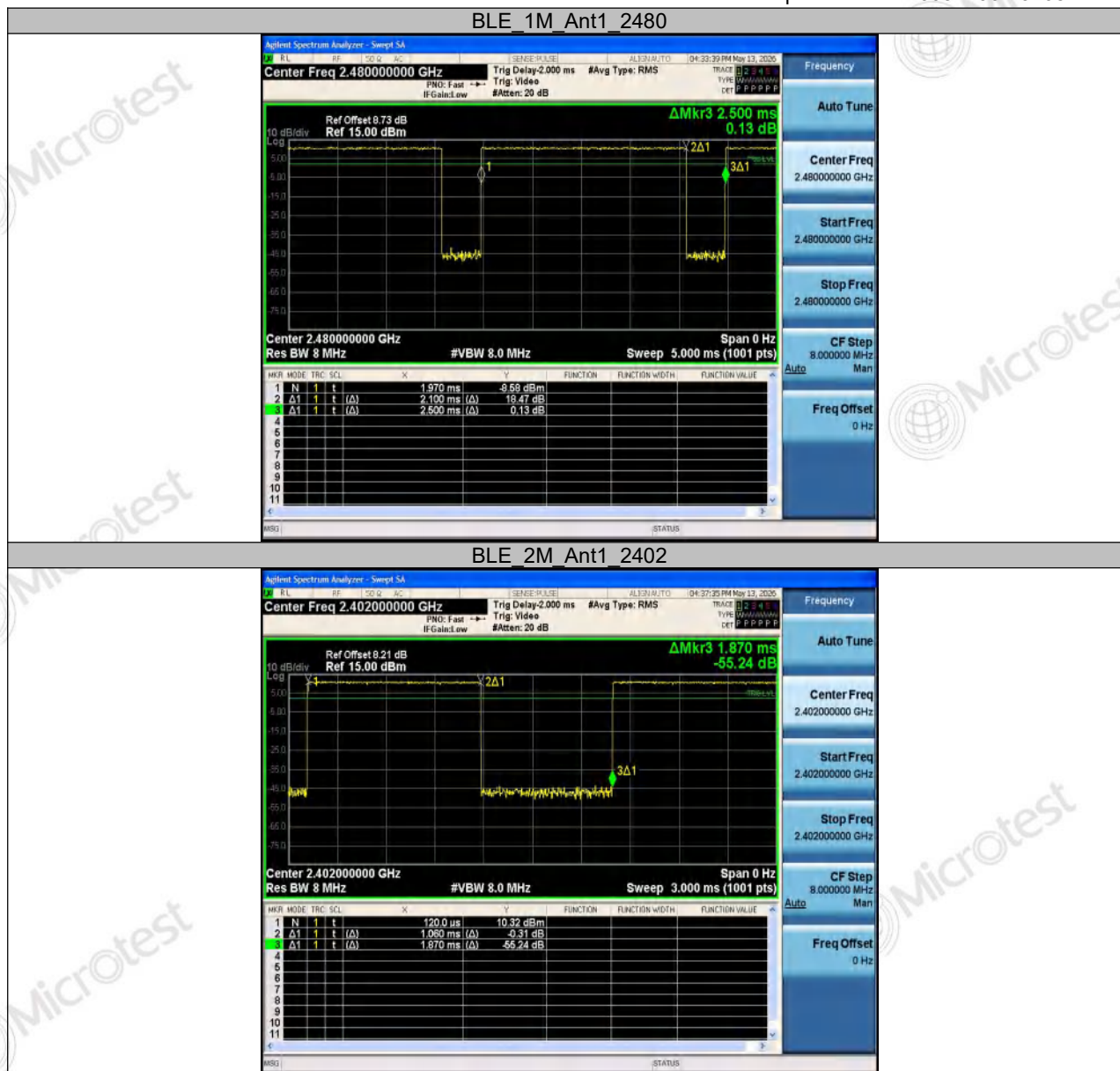
Report No.: MTi260321001-0108E1

Test Graphs



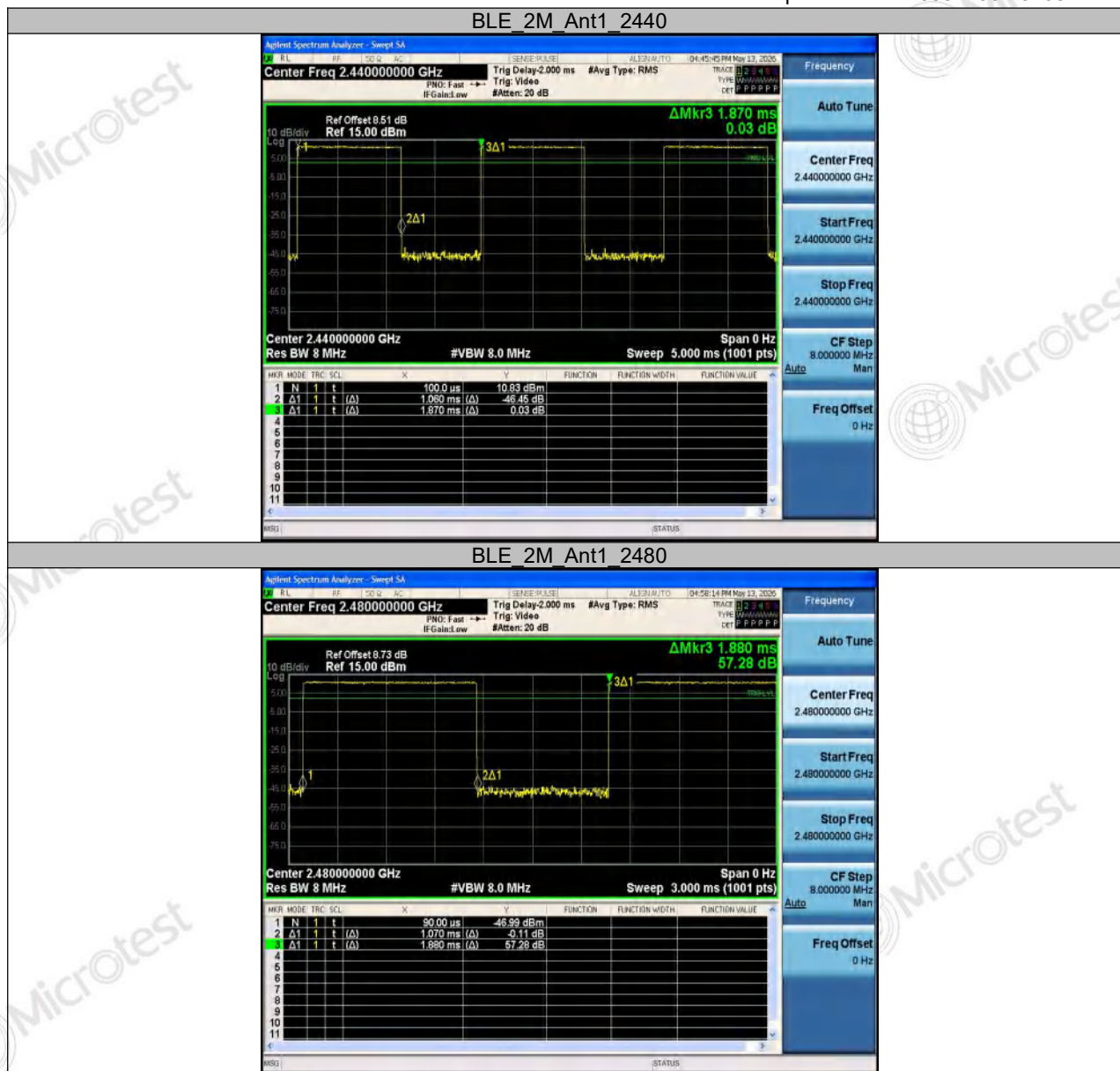
TEST REPORT

Report No.: MTI260321001-0108E1



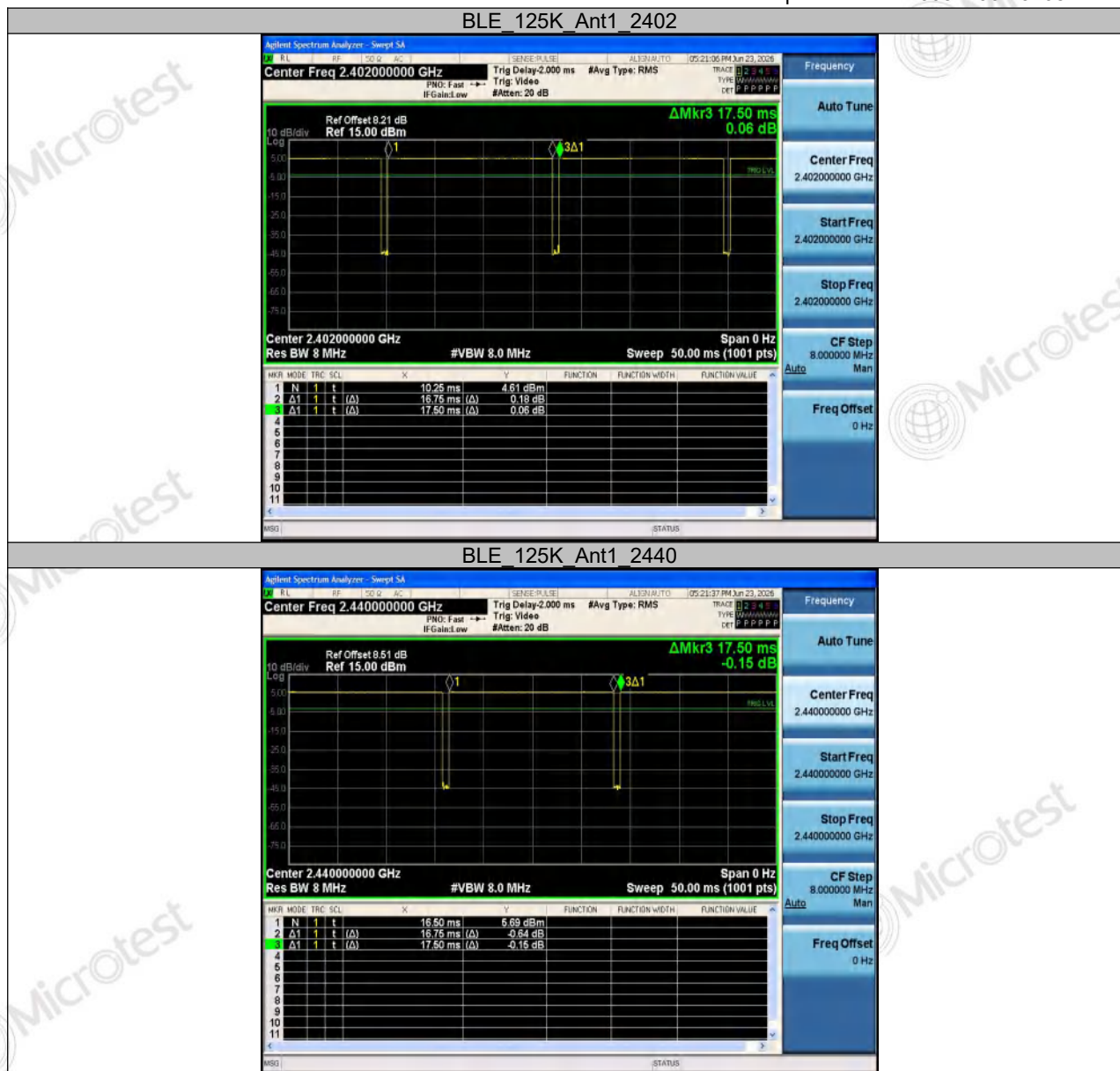
TEST REPORT

Report No.: MTI260321001-0108E1



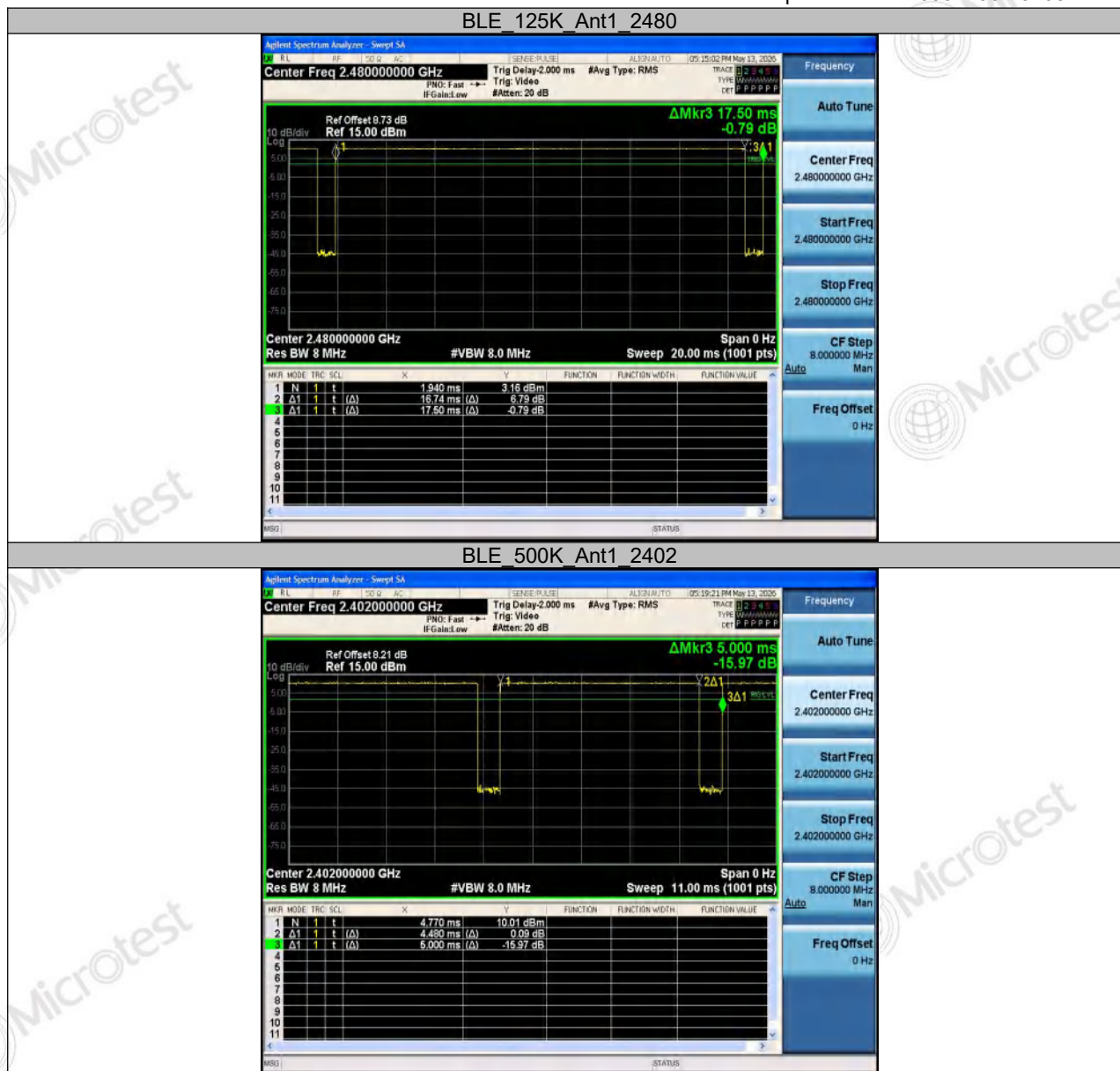
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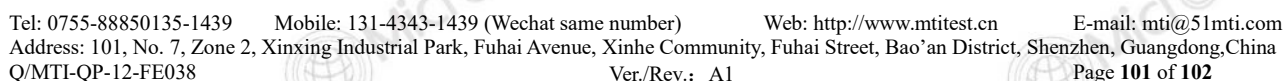
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Statement

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 *****