

Test Report

Report No.	
Date of issue	c (
Applicant	
Product	
Model(s)	
FCC ID	

MTi250106020-0902E1

2025-02-13

dongle

YZW1

Chug. Inc

2AO23-YZW1

Shenzhen Microtest Co., Ltd.

Microtest Tel:0755-88850135-1439 Q/MTI-QP-12-FE038

Web: http://www.mtitest.cn Mobile: 131-4343-1439 (Wechat same number) Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Ver./Rev.: A1

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Test Result Certific	ation		MICI		
Applicant	Chug. Inc	Chug. Inc			
Applicant Address	7157 SHAD	Y OAK RD EDEN PRAIRE MN	55344 UNITED STATES		
Manufacturer	Dongguan V	Veiji intelligent Technology co.,Lt	d Nicrov		
Manufacturer Address	Building 1, N Guangdong	No.15, Yanhe Road(N),Xiangxi, S Sheng, China	Shipai Town, Dongguan,		
Product descriptio		er in the second se	_		
Product name	dongle	Oter	2		
Trademark	N/A	(B) Mic			
Model name	YZW1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Series Model(s)	N/A x	N/A st			
Standards	47 CFR Par	t 15.247			
Test Method	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02				
Testing Information	n	(B) Mic	Micros		
Date of test	2025-01-10	to 2025-02-11			
Test result	Pass				
Prepared b	y:	Yanice.Xie	Yanice Xie		
Reviewed by:		David Lee	Yanice Xie Dowid. Cee Cov chen		
Approved t	by:	Leon Chen	cov chen		
	Mici	(B) MIC			

Tel: 0755-88850135-1439Mobile: 131-4343-1439 (Wechat same number)Web: http://www.mtitest.cnE-mail: mti@51mti.comAddress: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, ChinaQ/MTI-QP-12-FE038Page 3 of 57

1 General Description

1.1 Description of the EUT

Product name:	dongle	
Model name:	YZW1	
Series Model(s):	N/A	
Model difference:	N/A	
Electrical rating:	Input:DC 5V	
Accessories:	N/A	
Hardware version:	V1.0	
Software version:	V1.0	
Test sample(s) number:	MTi250106020-09-R001	
RF specification		
Operating frequency range:	2402-2480MHz	
Channel number:	40	
Modulation type:	GFSK	
Antenna(s) type:	PCB Antenna	
Antenna(s) gain:	3.55 dBi	

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK

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	Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)
(MHz)	(MHz)	(MHz)	(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: FCC TestTool

For power setting, refer to below table.

Mode	2402MHz	2440MHz	2480MHz
GFSK	2	2	2

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	
Support cable list				
Description	Length (m)	From	То	
/	/	1	/	
1.5 Measurement und	certainty			
Measurement		Uncertainty		
Occupied channel band	dwidth	±3 %		
RF output power, condu	ucted	±1 dB		
Time		±1 %		
Unwanted Emissions, c	conducted	±1 dB		
Radiated spurious emis	sions (above 1GHz)	±5.3dB		

Radiated spurious emissions (9kHz~30MHz)±4.3dBRadiated spurious emissions (30MHz~1GHz)±4.7dBTemperature±1 °CHumidity±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	Requirement	Result
1	Antenna requirement	47 CFR 15.203	Pass
2	20dB Bandwidth	47 CFR 15.247(a)(1)	Pass
3	Maximum Conducted Output Power	47 CFR 15.247(b)(1)	Pass
4	Channel Separation	47 CFR 15.247(a)(1)	Pass
5	Number of Hopping Frequencies	47 CFR 15.247(a)(1)(iii)	Pass
6	Dwell Time	47 CFR 15.247(a)(1)(iii)	Pass
7	RF conducted spurious emissions and band edge measurement	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Band edge emissions (Radiated)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated emissions (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
10	Radiated emissions (above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
11	Conducted Emission at AC power line	47 CFR 15.207(a)	N/A

Notes:

1.N/A means not applicable.

2. Since the EUT power by DC supply, therefore AC power line conducted emissions test is not required.

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

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due				
	20dB Bandwidth Maximum Conducted Output Power Channel Separation Number of Hopping Frequencies Dwell Time Emissions in non-restricted frequency bands									
1	Wideband Radio Communication Tester	2024-03- 20	2025-03- 19							
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB400512 40	2024-03- 21	2025-03- 20				
3	PXA Signal Analyzer	Agilent	N9030A	MY513502 96	2024-03- 21	2025-03- 20				
4	Synthesized Sweeper	Agilent	83752A	3610A019 57	2024-03- 21	2025-03- 20				
5	MXA Signal Analyzer	Agilent	N9020A	MY501434 83	2024-03- 21	2025-03- 20				
6	RF Control Unit	Tonscend	JS0806-1	19D80601 52	2024-03- 21	2025-03- 20				
7	Band Reject Filter Group	Tonscend	JS0806-F	19D80601 60	2024-03- 21	2025-03- 20				
8	ESG Vector Signal Generator	Agilent	N5182A	MY501437 62	2024-03- 20	2025-03- 19				
9	DC Power Supply	Agilent	E3632A	MY400276 95	2024-03- 21	2025-03- 20				
	Er	Band edge emi nissions in frequen	ssions (Radiated cv bands (above	(k						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03- 20	2025-03- 19				
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06- 17	2025-06- 16				
3	Amplifier	Agilent	8449B	3008A0112 0	2024-03- 20	2025-03- 19				
4	MXA signal analyzer	Agilent	N9020A	MY544408 59	2024-03- 21	2025-03- 20				
5	PXA Signal Analyzer	Agilent	N9030A	MY513502 96	2024-03- 21	2025-03- 20				
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06- 17	2025-06- 16				
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2024-03- 21	2025-03- 20				
	Er	missions in frequen	cy bands (below	1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03- 20	2025-03- 19				
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06- 10				
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03- 23	2025-03- 22				
4	Amplifier	Hewlett-Packard	8447F	3113A0618 4	2024-03- 20	2025-03- 19				

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.	

6 Radio Spectrum Matter Test Results (RF)

6.1 20dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the t

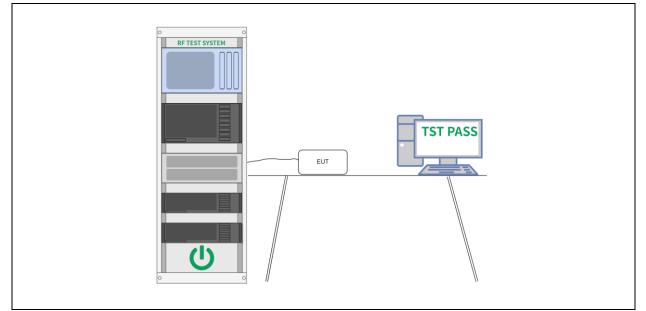
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envelope of the spectral display, such that the marker is at or slightly
below the "-xx dB down amplitude" determined in step h). Reset the
marker-delta function and move the marker to the other side of the
emission until the delta marker amplitude is at the same level as the
reference marker amplitude. The marker-delta frequency reading at
this point is the specified emission bandwidth.
k) The occupied bandwidth shall be reported by providing plot(s) of the
measuring instrument display; the plot axes and the scale units per
division shall be clearly labeled. Tabular data may be reported in
addition to the plot(s).

6.1.1 E.U.T. Operation:

Operating Environment:								
Temperature: 25.4 °C		Humidity:	57 %	Atmospheric Pressure:	101 kPa			
Pre test mode:	Mod	e1						
Final test mode: N		Mod	e1					

6.1.2 Test Setup Diagram:



6.1.3 Test Data:

Please Refer to Appendix for Details.

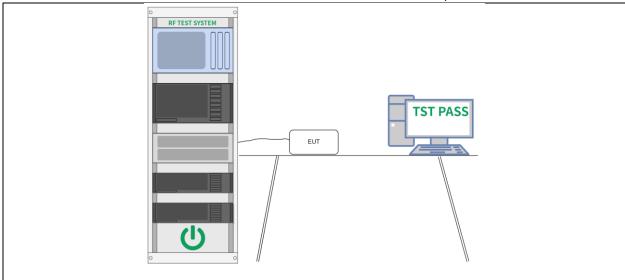
6.2 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non- overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

6.2.1 E.U.T. Operation:

Operating Environment:								
Temperature: 25.4 °C			Humidity:	57 %	Atmospheric Pressure:	101 kPa		
Pre test mode:	Mod	e1						
Final test mode: N			e1					
6.2.2 Test Setup Diagram:								

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6.2.3 Test Data:

Please Refer to Appendix for Details.

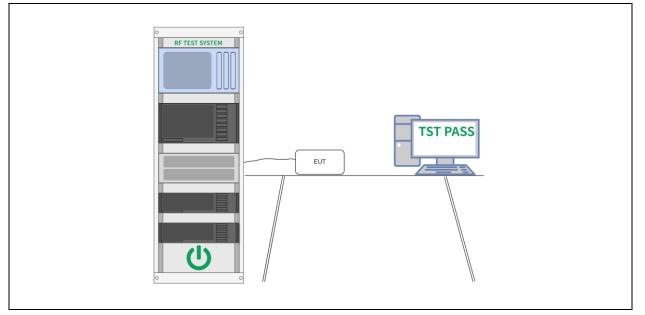
6.3 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

6.3.1 E.U.T. Operation:

Operating Environment:								
Temperature:25.4 °CHumidity:57 %Atmospheric Pressure:101 kPa								
Pre test mode:	Mod	e1						
Final test mode: M		Mod	e1					

6.3.2 Test Setup Diagram:



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6.3.3 Test Data:

Please Refer to Appendix for Details.

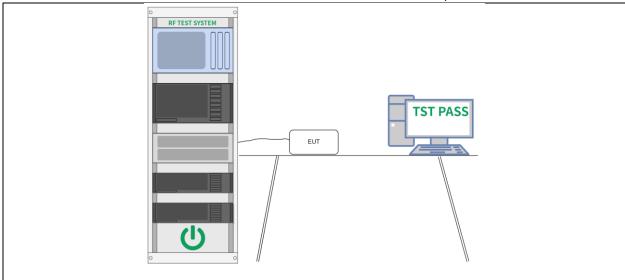
6.4 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

6.4.1 E.U.T. Operation:

Operating Environment:								
Temperature: 25.4 °C		°C	Humidity:	57 %	Atmospheric Pressure:	101 kPa		
Pre test mode:	Mod	e1						
Final test mode	Mod	e1						
6.4.2 Test Setup Diagram:								

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6.4.3 Test Data:

Please Refer to Appendix for Details.

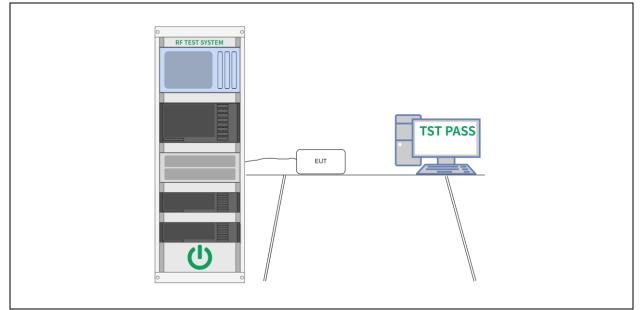
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements) = (number of hops in the period specified in the requirements) = (number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation domat, number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation data rate, modulation format, number of hops in a specific time varies with different modes of operation data rate, modulation format, number of hops in the period specified in the requirements. Using the following equation: (Number of hops on spectrum analyzer) × (period specified in the requirements. If the number of hops in a specific time varies with different mod

6.5.1 E.U.T. Operation:

Operating Envi	ronmei	nt:				
Temperature:	25.4 °	С	Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mod	e1			
Final test mode	e:	Mod	e1			

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6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

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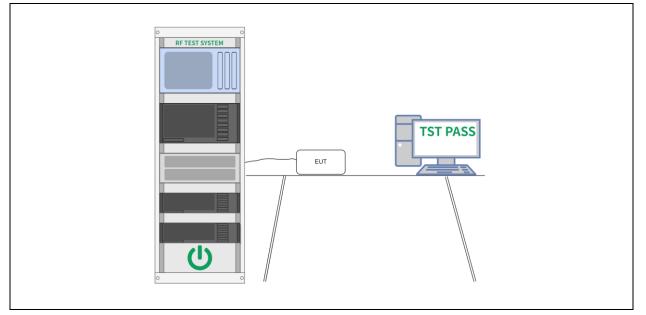
6.6 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

6.6.1 E.U.T. Operation:

Operating Envi	ronmei	nt:				
Temperature:	25.4 °	С	Humidity:	57 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mod	e1			
Final test mode	: :	Mod	e1			

6.6.2 Test Setup Diagram:



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6.6.3 Test Data:

Please Refer to Appendix for Details.

6.7 Band edge emissions (Radiated)

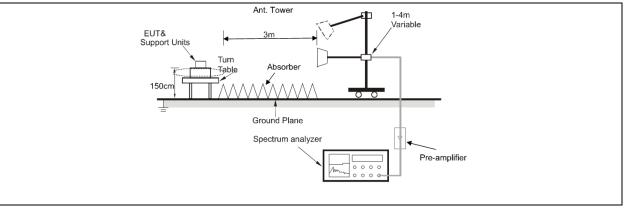
Test Requirement:	in the restricted bands,	7(d), In addition, radiated em as defined in § 15.205(a), m ion limits specified in § 15.20	ust also comply
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	intentional radiators op the frequency bands 54 806 MHz. However, op permitted under other s In the emission table al The emission limits sho measurements employ frequency bands 9–90 Radiated emission limit	n paragraph (g), fundamenta erating under this section sha 4-72 MHz, 76-88 MHz, 174-2 eration within these frequence sections of this part, e.g., §§ bove, the tighter limit applies own in the above table are ba ing a CISPR quasi-peak dete kHz, 110–490 kHz and above is in these three bands are ba	all not be located in 16 MHz or 470- by bands is 15.231 and 15.241. at the band edges. ased on ector except for the e 1000 MHz.
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.24	tion 6.10 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 sec	tion 6.10.5.2	

6.7.1 E.U.T. Operation:

Operating Envi	ironme	nt:				
Temperature:	25 °C		Humidity:	42.3 %	Atmospheric Pressure:	100 kPa
Pre test mode:		Mod	e1			
Final test mode	e:	Mod	e1			
Note:						
The energitude	of only	iouo a	minaiana w	sich are atta	nucted means then 20 dD h	alout the limite

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

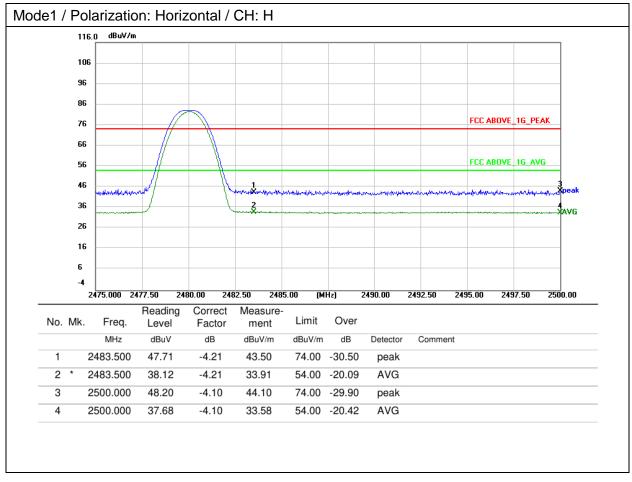
6.7.2 Test Setup Diagram:

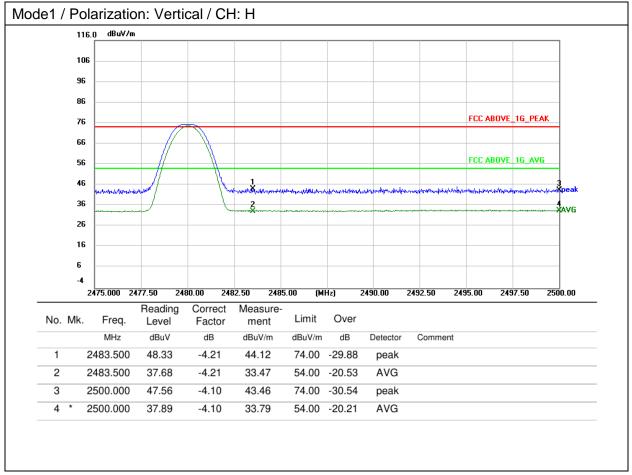


Tel: 0755-88850135-1439Mobile: 131-4343-1439 (Wechat same number)Web: http://www.mtitest.cnE-mail: mti@51mti.comAddress: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong,China
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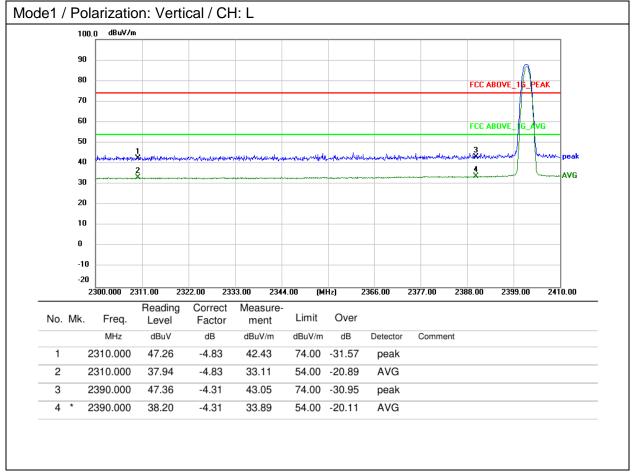
Report No.: MTi250106020-0902E1

6.7.3 Test Data:





Report No.: MTi250106020-0902E1 Mode1 / Polarization: Horizontal / CH: L 100.0 dBu∀/m 90 80 FCC ABOVE_101PEAK 70 60 FCC ABOVE VG 50 3 40 4 AVG 30 20 10 0 -10 -20 2300.000 2311.00 2322.00 2333.00 2344.00 (MHz) 2366.00 2377.00 2388.00 2399.00 2410.00 Measure Reading Correct Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m dBuV/m dB Detector Comment -4.83 1 2310.000 46.34 41.51 74.00 -32.49 peak 2 2310.000 37.63 -4.83 32.80 54.00 -21.20 AVG -4.31 3 2390.000 48.38 44.07 74.00 -29.93 peak * 2390.000 -4.31 AVG 4 37.86 33.55 54.00 -20.45



6.8 Radiated emissions (below 1GHz)

Test Requirement:	in the restricted bands,	7(d), In addition, radiated em as defined in § 15.205(a), m ion limits specified in § 15.20	ust also comply
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t 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
	intentional radiators op the frequency bands 54 806 MHz. However, op permitted under other s In the emission table al The emission limits sho measurements employ frequency bands 9–90 Radiated emission limit	n paragraph (g), fundamenta erating under this section sha I-72 MHz, 76-88 MHz, 174-2 eration within these frequence sections of this part, e.g., §§ bove, the tighter limit applies own in the above table are bai ing a CISPR quasi-peak detected kHz, 110–490 kHz and above is in these three bands are bai ing an average detector.	all not be located in 16 MHz or 470- y bands is 15.231 and 15.241. at the band edges. ised on ector except for the e 1000 MHz.
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.24	tion 6.6.4 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 sec	tion 6.6.4	

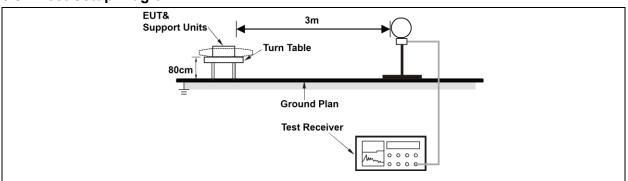
6.8.1 E.U.T. Operation:

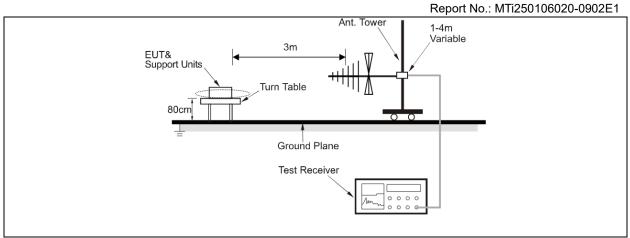
Operating Envi	ironme	nt:				
Temperature:	25 °C		Humidity:	42.3 %	Atmospheric Pressure:	100 kPa
Pre test mode:		Mod	e1			
Final test mode	e:	Mod	e1			
Note:						
The amplitude	ofsour	ious 4	missions wh	nich are atte	nuated more than 20 dB h	elow the limits

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

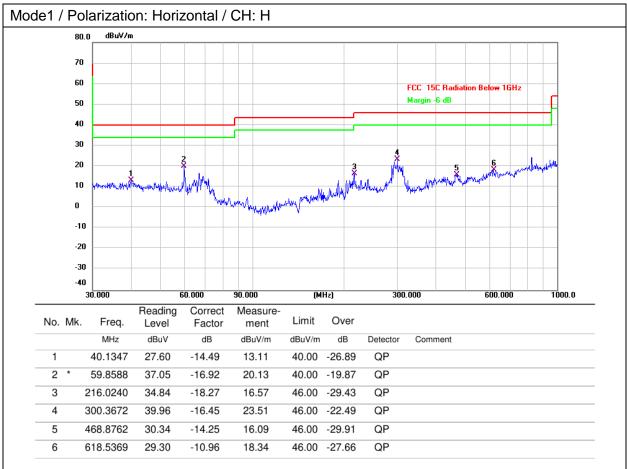
All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.

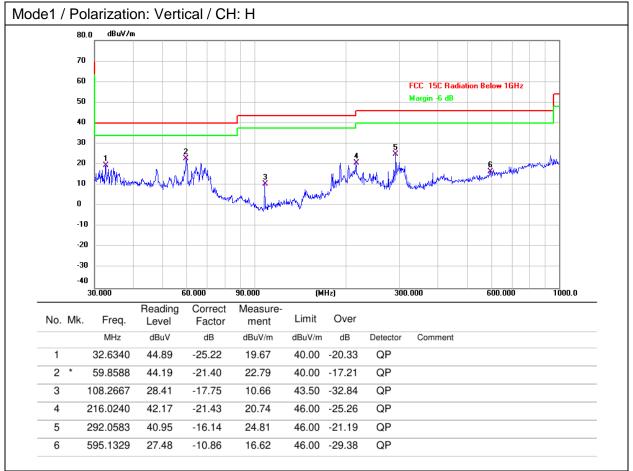
6.8.2 Test Setup Diagram:





6.8.3 Test Data:





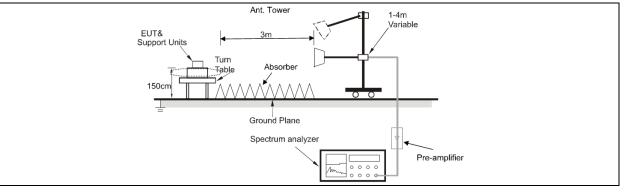
6.9 Radiated emissions (above 1GHz)

Test Requirement:	-	ssions which fall in the restri nust also comply with the rac 09(a)(see § 15.205(c)).`	-
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t 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
	intentional radiators oper the frequency bands 54- 806 MHz. However, oper permitted under other set In the emission table about The emission limits show measurements employing frequency bands 9–90 k	paragraph (g), fundamental rating under this section sha 72 MHz, 76-88 MHz, 174-21 ration within these frequency ections of this part, e.g., §§ 1 ove, the tighter limit applies a vn in the above table are bas og a CISPR quasi-peak detect Hz, 110–490 kHz and above in these three bands are bas og an average detector.	Il not be located in 16 MHz or 470- 7 bands is 5.231 and 15.241. at the band edges. sed on ctor except for the 1000 MHz.
Test Method:	ANSI C63.10-2013 secti KDB 558074 D01 15.24	on 6.6.4 7 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 secti	on 6.6.4	

6.9.1 E.U.T. Operation:

Operating Envi	ironmei	nt:				
Temperature:	25 °C		Humidity:	42.3 %	Atmospheric Pressure:	100 kPa
Pre test mode:		Mod	e1			
Final test mode	e:	Mod	e1			
Note: Test freq	uency a	are fro	om 1GHz to :	25GHz, the a	amplitude of spurious emis	ssions which
are attenuated						
All modes of op	peration	n of th	e EUT were	investigated	l, and only the worst-case	results are
reported.						

6.9.2 Test Setup Diagram:



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6.9.3 Test Data:

Mod	le1 / Po	olari	zation: Horiz	zontal / 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	45.23	0.53	45.76	74.00	-28.24	peak
	2		4804.000	39.09	0.53	39.62	54.00	-14.38	AVG
	3		7206.000	47.33	7.90	55.23	74.00	-18.77	peak
	4	*	7206.000	41.80	7.90	49.70	54.00	-4.30	AVG
	5		9608.000	44.43	8.85	53.28	74.00	-20.72	peak
	6		9608.000	38.90	8.85	47.75	54.00	-6.25	AVG
1									

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	42.87	0.53	43.40	74.00	-30.60	peak
2		4804.000	37.12	0.53	37.65	54.00	-16.35	AVG
3		7206.000	42.63	7.90	50.53	74.00	-23.47	peak
4		7206.000	36.79	7.90	44.69	54.00	-9.31	AVG
5		9608.000	44.95	8.85	53.80	74.00	-20.20	peak
6	*	9608.000	38.63	8.85	47.48	54.00	-6.52	AVG

/lode1	/ P	olari	zation: Horiz	zontal / CH:	Μ				
Ν	۱o.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		4880.000	44.25	0.56	44.81	74.00	-29.19	peak
	2		4880.000	37.98	0.56	38.54	54.00	-15.46	AVG
	3		7320.000	46.70	7.54	54.24	74.00	-19.76	peak
	4	*	7320.000	40.78	7.54	48.32	54.00	-5.68	AVG
	5		9760.000	44.02	9.33	53.35	74.00	-20.65	peak
	6		9760.000	38.23	9.33	47.56	54.00	-6.44	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4880.000	44.49	0.56	45.05	74.00	-28.95	peak
2		4880.000	38.69	0.56	39.25	54.00	-14.75	AVG
3		7320.000	43.55	7.54	51.09	74.00	-22.91	peak
4		7320.000	37.91	7.54	45.45	54.00	-8.55	AVG
5		9760.000	44.25	9.33	53.58	74.00	-20.42	peak
6	*	9760.000	38.26	9.33	47.59	54.00	-6.41	AVG

/lode1	/ P	olari	zation: Horiz	zontal / CH:	Н				
١	١o.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		4960.000	44.33	0.66	44.99	74.00	-29.01	peak
	2		4960.000	37.91	0.66	38.57	54.00	-15.43	AVG
	3		7440.000	47.18	7.94	55.12	74.00	-18.88	peak
	4	*	7440.000	41.71	7.94	49.65	54.00	-4.35	AVG
	5		9920.000	45.48	9.69	55.17	74.00	-18.83	peak
	6		9920.000	39.88	9.69	49.57	54.00	-4.43	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	43.70	0.66	44.36	74.00	-29.64	peak
2		4960.000	37.60	0.66	38.26	54.00	-15.74	AVG
3		7440.000	43.52	7.94	51.46	74.00	-22.54	peak
4		7440.000	37.68	7.94	45.62	54.00	-8.38	AVG
5		9920.000	44.73	9.69	54.42	74.00	-19.58	peak
6	*	9920.000	38.98	9.69	48.67	54.00	-5.33	AVG

Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

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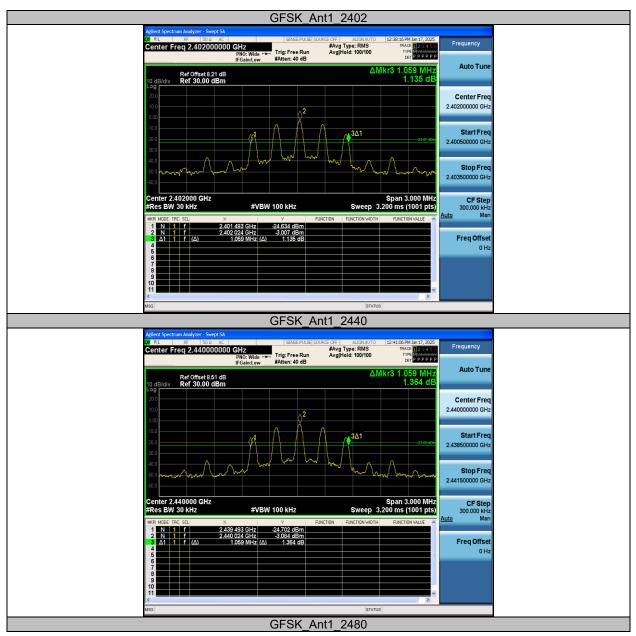
Appendix

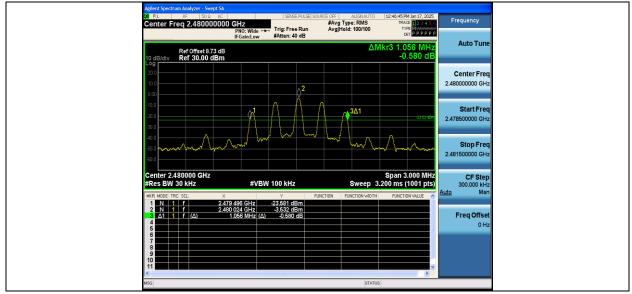
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
		2402	1.059
GFSK	Ant1	2440	1.059
		2480	1.056

Test Graphs





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Appendix B: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
		2402	0.38	≤20.97	PASS
GFSK	Ant1	2440	0.42	≤20.97	PASS
		2480	0.01	≤20.97	PASS

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Test Graphs

		(GFSK_A	nt1_2402		
Agilent Spectrum Anal VI RL RF Center Freq 2.	50 2 AC .402000000 GH	IO East →	sense:PULse) Trig: Free Run #Atten: 40 dB	SOURCE OFF ALIGNAI #Avg Type: RMS Avg Hold: 100/10	TO 01:25:09 PM Jan 17, 1 TRACE 223 0 TYPE MWW DET P P	456 Frequency
Ref C 10 dB/div Ref S	Offset 8.21 dB 30.00 dBm			М	kr1 2.401 705 G 0.384 dl	
20.0						Center Freq 2.402000000 GHz
10.0			▲ ¹			Start Freq
0.00						2.399500000 GHz
-20.0						Stop Freq 2.404500000 GHz
-30.0						CF Step 500.000 kHz <u>Auto</u> Man
-50.0						Freq Offset 0 Hz
-60.0						
Center 2.40200 #Res BW 3.0 M	00 GHz IHz	#VBW 8	.0 MHz		Span 5.000 N p 1.000 ms (1001) TATUS	1Hz pts)
MSG		(GFSK_A	nt1_2440	IAIUS	
Agilent Spectrum Anal V RL RF Center Freq 2.	50 Q AC	In Fast	sense:Pulse) Trig: Free Run #Atten: 40 dB	SOURCE OFF ALIGNAI #Avg Type: RMS Avg Hold: 100/10	TRACE 123	Frequency
Ref C 10 dB/div Ref S	Offset 8.51 dB 30.00 dBm			М	kr1 2.440 100 G 0.418 di	Hz Auto Tune Bm
20.0						Contra Fran
						Center Freq 2.440000000 GHz
10.0			▲ ¹			2.440000000 GHz
10.0			♦ ¹			2.44000000 GHz Start Freq 2.437500000 GHz
			↓ 1			2.440000000 GHz
-10.0			∮ 1			2.44000000 GHz Start Freq 2.437500000 GHz Stop Freq
-10.0			•1 			2.44000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz CF Step 500.000 kHz <u>Auto</u> Man Freq Offset
-10.0			•1 			2.44000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz CF Step 500.000 kHz Man
-10.0 -20.0 -30.0 -40.0 -50.0	0 GHz Hz	#VBW 8			Span 5.000 N p 1.000 ms (1001	2.44000000 GHz Start Freq 2.43750000 GHz Stop Freq 2.44250000 GHz CF Step 500.000 kHz Auto Man Freq Offset 0 Hz

Agilent Spectrum Analy								
Center Freq 2.	50 Ω AC 480000000 GHz PNO: F IFGain:	ast 🛶 Trig: Fre	e Run 0 dB	CE OFF ALIGN #Avg Type: RM Avg Hold: 100/	AS	25:39 PM Jan 17, TRACE 2 2 TYPE MWW DET P P P	,2025 4 5 6 P P P	equency
10 dB/div Ref	9ffset 8.73 dB 30.00 dBm			1	Mkr1 2.4	80 075 0 0.010 d	2012	Auto Tune
20.0								enter Freq 000000 GHz
10.0			♦ ¹					Start Freq 500000 GHz
-10.0								Stop Freq
-20.0								CF Step
-40.0							Auto	Man Treq Offset
-60.0								0 Hz
Center 2.48000 #Res BW 3.0 MI		#VBW 8.0 MH;		Swe	S ep 1.00	pan 5.000) ms (1001	MHz pts)	
MSG					STATUS			

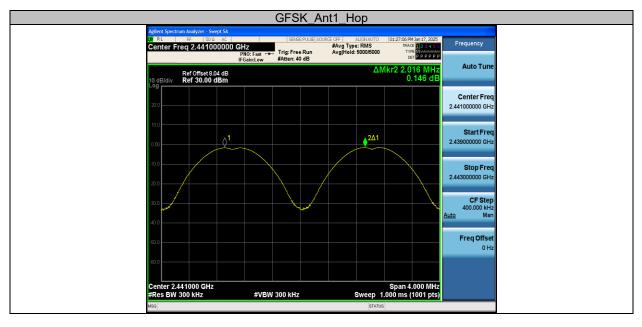
Report No.: MTi250106020-0902E1

Appendix C: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
GFSK	Ant1	Нор	2.016	≥0.706	PASS

Test Graphs



Appendix D: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	Hops in 16s [Num]	Result [s]	Limit [s]	Verdict
GFSK	Ant1	Нор	0.167	53	0.009	≤0.4	PASS

Notes:

1. Period time = 0.4s * 40 = 16s

2. Result (Time of occupancy) = BurstWidth[ms] * Hops in 16s [Num]

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Test Graphs

GFSK_Ant1_Hop
Agilent Spectrum Analyzer - Swept SA Image: Spectrum Analyzer - Swept SA UI RL RF 90.0 AC Image: Spectrum Analyzer - Swept SA Center Freq 2.444 10000000 GHz Trig Delay2.000 ms #Avg Type: RMS Image: Spectrum Analyzer - Swept SA PNO: Fast Frig. Video Trig. Video Image: Spectrum Analyzer - Swept SA If Geinit.low AMURE: OFFICE OF
Ref Offset8.04 dB △Mkr2 167.0 µs Auto Tune 10 dB/dv Ref 30.00 dBm 1.97 dB
200 Center Freq 2.441000000 GHz
000 Start Freq 2.44100000 GHz
100 Stop Freq 2.44100000 GHz
-000 CF Step 1.000000 MHz 400 Mhy 410 Mar 410 Mar 410 Million 4100 Million 410 Million 4100 M
Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VEW 3.0 MHz Sweep 10.13 ms (8000 pts)
Msg STATUS Agient Spectrum Analyzer - Swept SA SEREFLAGE SOURCE OFF ALIONANTO 0111221093m17,2005 Center Freq 2.441000000 GHz IFGaintow to dB Trig Dalay0.000 s #Aven to dB Trig Dalay0.000 s #Aven to dB
Ref Offset 8.04 dB
200 Center Freq 2.44100000 GHz
000 Start Freq 2.44100000 GHz
100 100
400 Auto Freq Offset
500 0 Hz
Center 2.441000000 GHz Span 0 Hz Res BW 510 kHz #VBW 3.0 MHz Sweep 16.00 s (30000 pts)
lisg status

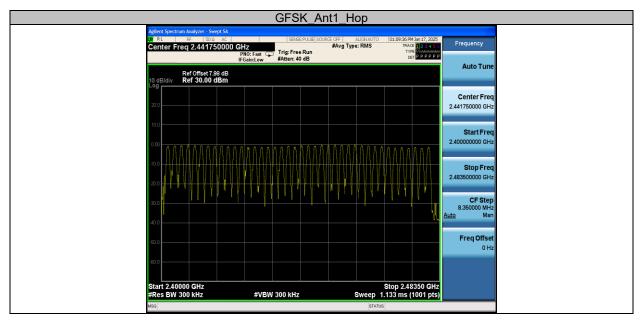
Report No.: MTi250106020-0902E1

Appendix E: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
GFSK	Ant1	Нор	40	≥15	PASS

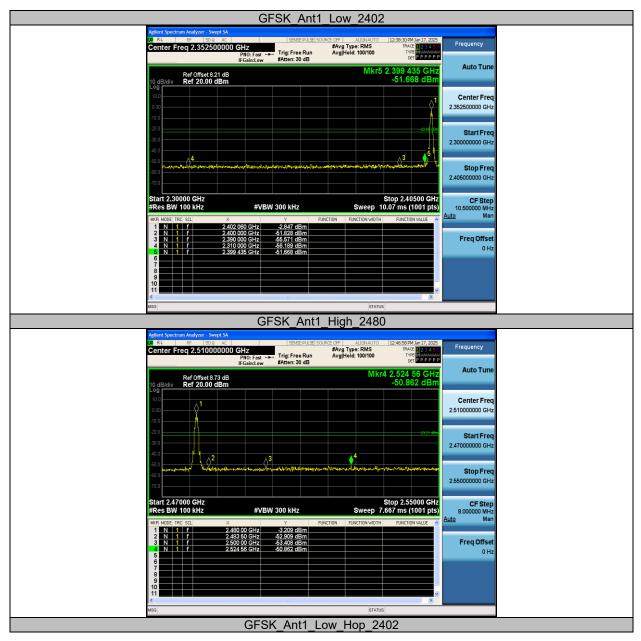
Test Graphs



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Appendix F: Band edge measurements

Test Graphs

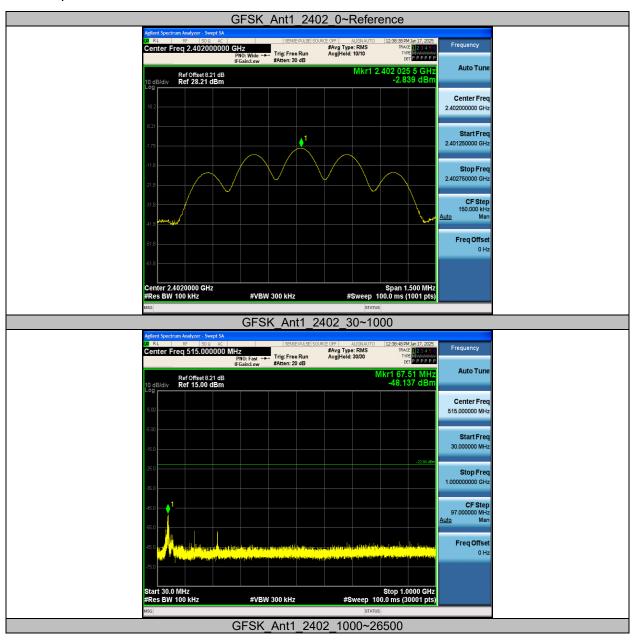


Agilent Spectrum Analyzer - Swept SA			
RE RE SO & AC SERVEPULSE SOURC Center Freq 2.352500000 GHz PN0: Fast PN0: Fas	#Avg Type: RMS TRACE 123456	Frequency	
IFGain:Low #Atten: 30 dB	DETPPPPP	Auto Tune	
Ref Offset 8.79 dB 10 dB/div Ref 20.00 dBm	Mkr5 2.399 645 GHz -36.034 dBm		
100		Center Freq 2.352500000 GHz	
-10.0	22.15 42	04-45	
-30.0	<u></u>	Start Freq 2.30000000 GHz	
-50 0	Amount of the second	Stop Freq	
-60.0		2.405000000 GHz	
Start 2.30000 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 2.40500 GHz Sweep 10.07 ms (1001 pts)	CF Step 10.500000 MHz	
MKR MODE TRC SCL X Y FUNC		Auto Man	
1 N 1 f 2404 095 GHz -2.183 dBm 2 N 1 f 2400 000 GHz -42.627 dBm 3 N 1 f 2.390 000 GHz -51.123 dBm 4 N 1 f 2.390 000 GHz -51.153 dBm 4 N 1 f 2.399 645 GHz -51.153 dBm 5 N 1 f 2.399 645 GHz -50.034 dBm		Freq Offset 0 Hz	
5 N 1 f 2.399 645 GHz -36.034 dBm 6 7		URZ	
8 9 10			
	STATUS		
GFSK_Ant1_Hig Agilent Spectrum Analyzer - Swept SA	gh_Hop_2480		
Agreen spectrum Adaptiver - Snept sa R R R S0 AC Start Freq 2.470000000 GHz PN0: Fast Trig: Free Run PN0: Fast Trig: Free Run	E OFF ALIGNAUTO 01:24:29 PM Jan 17, 2025 #Avg Type: RMS TRACE 2 34 5 0 Avg[Hold>100/100 TYPE 2 34 5 0 DET P P P P P	Frequency	
IFGain:Low #Atten: 30 dB	Mkr4 2.483 68 GHz	Auto Tune	
Ref Offset 8.32 dB 10 dB/div Ref 20.00 dBm Log	-42.011 dBm		
		Center Freq 2.51000000 GHz	
	-21.40 dBg		
-30.0 4 4 4 4		Start Freq 2.470000000 GHz	
40.0	an de la campantant anna an a	Ctop From	
-60.0		Stop Freq 2.55000000 GHz	
Start 2.47000 GHz	Stop 2.55000 GHz	CF Step	
#Res BW 100 kHz #VBW 300 kHz MKR MODE TRC SCL X Y FUNC	Sweep 7.667 ms (1001 pts)	8.00000 MHz <u>Auto</u> Man	
N 1 f 2.480.00 GHz -1.396 dBm 2 N 1 f 2.483.50 GHz -42.123 dBm 3 N 1 f 2.500.00 GHz 51.684 dBm 4 N 1 f 2.483.68 GHz -42.011 dBm		Freq Offset	
4 N 1 f 2.483 68 GHz 42.011 dBm 5 6 6 7		0 Hz	
7 8 9 10			
	×		
	STATUS		

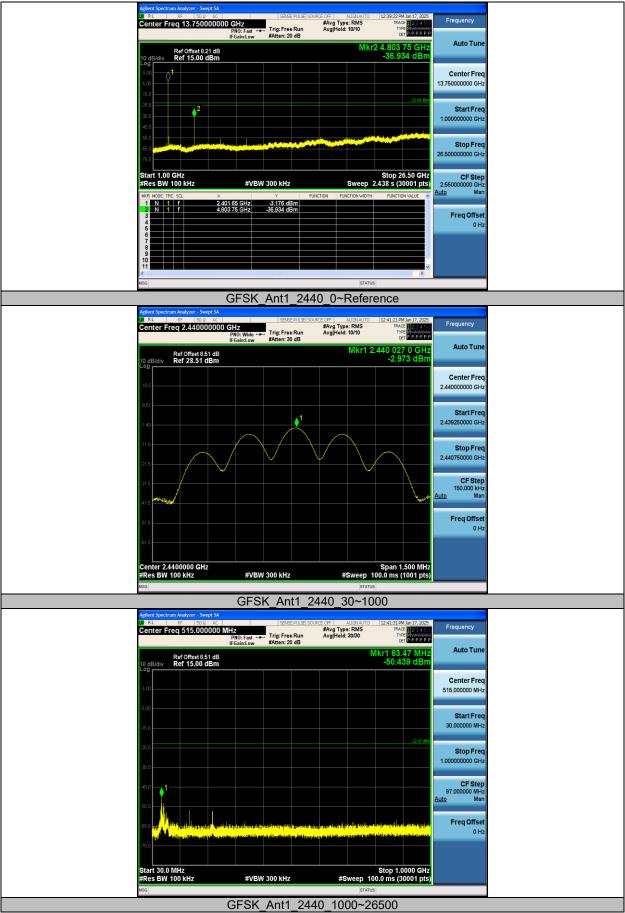
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Appendix G: Conducted Spurious Emission

Test Graphs

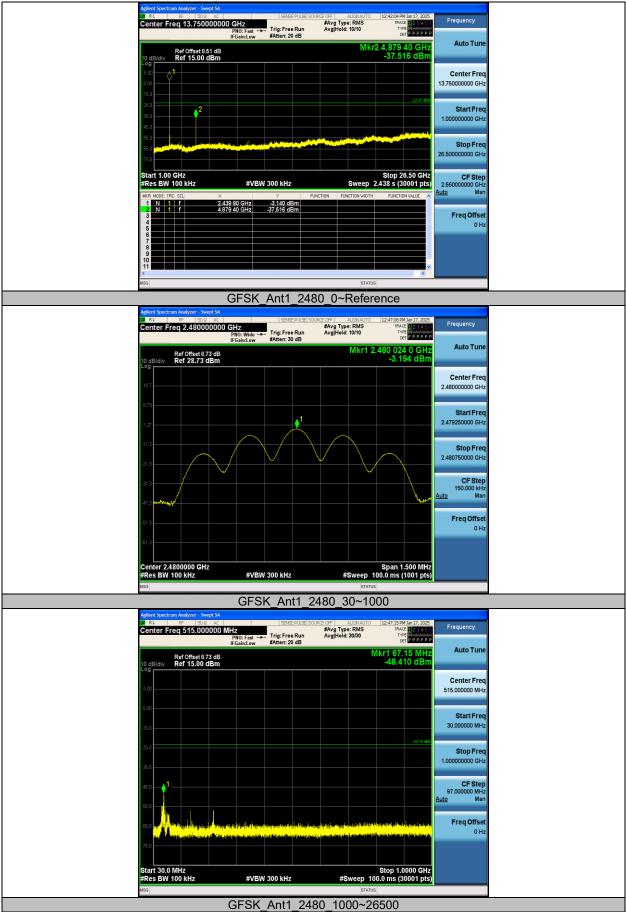


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Agilent Spectrum Analyzer - Swept SA
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IFGaind.ow #Atten: 20 dB CertPPPPPP Auto Tune Ref Offset 8.73 dB Mkr2 4.960 15 GHz Auto Tune 10 dB/div Ref 15.00 dBm -37.253 dBm
500 Center Freq 600 I 3.75000000 GHz
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