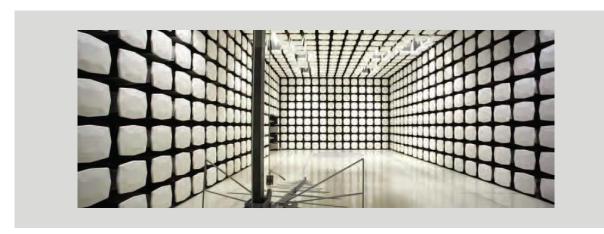


Motorola Solutions Inc

HiFi Mic 3.0

FCC 15.247:2021

Report: WTVD0040.2 Rev. 2, Issue Date: December 7, 2021





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CERTIFICATE OF TEST



Last Date of Test: July 19, 2021 Motorola Solutions Inc EUT: HiFi Mic 3.0

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2021	ANSI C63.10:2013, KDB 558074

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for a battery powered EUT.
11.6	Duty Cycle	Yes	Pass	
11.8.2	Occupied Bandwidth	Yes	Pass	
11.9.1.1	Output Power	Yes	Pass	
11.9.1.1	Equivalent Isotropic Radiated Power	Yes	Pass	
11.10.2	Power Spectral Density	Yes	Pass	
11.11	Band Edge Compliance	Yes	Pass	
11.11	Spurious Conducted Emissions	Yes	Pass	
11.12.1, 11.13.2, 6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Adam Bruno, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



Revision Number	Description	Date (yyyy-mm-dd)	Page Number
01	Updated company name	2021-11-08	1, 2, 9, 15, 26, 33, 40, 47, 54, 59, 76 and 78
O1	Updated EUT name	2021-11-08	1, 2, 9, 10, 11, 15, 26, 33, 40, 47, 54, 59, 76 and 78
02	Added attestation of worst case duty cycle calculation to Functional Description Page.	2021-12-06	9

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission - Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS - Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC - Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA - Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

<u>California</u> <u>Minnesota</u> <u>Oregon</u> <u>Texas</u> <u>Washington</u>

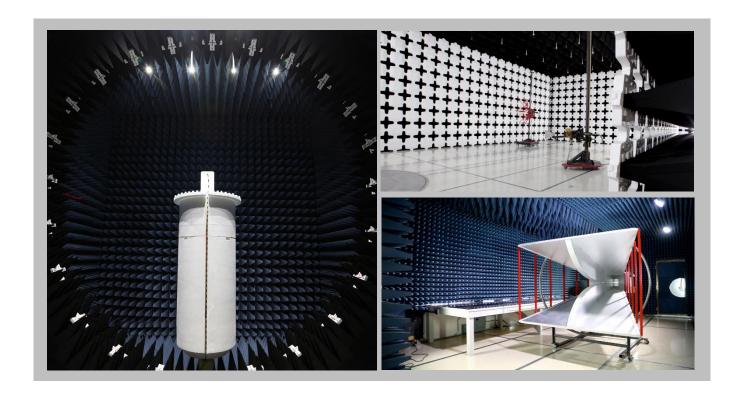
FACILITIES







California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-11 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 98011 (425)984-6600		
		A2LA				
Lab Code: 3310.04	Lab Code: 3310.05	Lab Code: 3310.02	Lab Code: 3310.03	Lab Code: 3310.06		
	Innovation, Sci	ence and Economic Develop	ment Canada			
2834B-1, 2834B-3	2834E-1, 2834E-3	2834D-1	2834G-1	2834F-1		
	BSMI					
SL2-IN-E-1154R	SL2-IN-E-1152R	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R		
VCCI						
A-0029	A-0109	A-0108	A-0201	A-0110		
Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA						
US0158	US0175	US0017	US0191	US0157		



MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found in the table below. A lab specific value may also be found in the applicable test description section. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

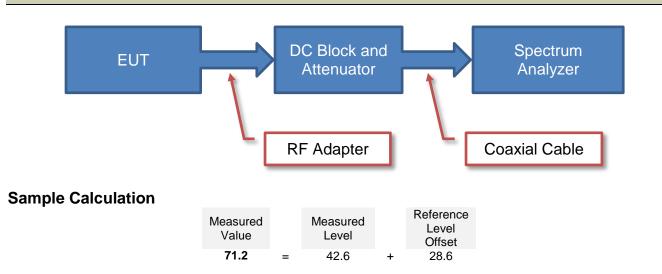
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	1.2 dB	-1.2 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.1 dB	-5.1 dB
AC Powerline Conducted Emissions (dB)	3.1 dB	-3.1 dB

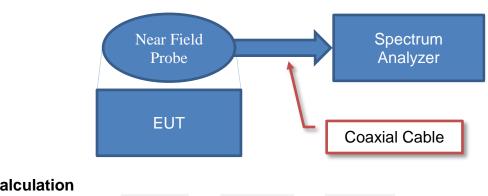
TEST SETUP BLOCK DIAGRAMS



Antenna Port Conducted Measurements



Near Field Test Fixture Measurements

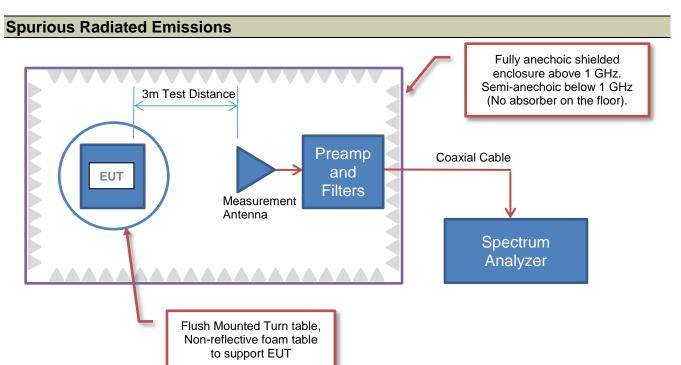


Sample Calculation



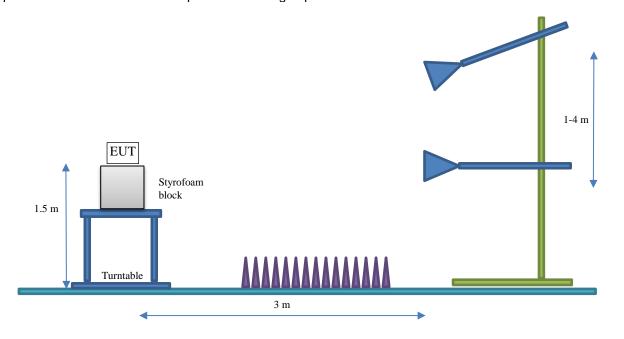
TEST SETUP BLOCK DIAGRAMS





Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Motorola Solutions Inc
Address:	415 East Exchange Pkwy
City, State, Zip:	Allen, TX 75002
Test Requested By:	Navaid Karimi
EUT:	HiFi Mic 3.0
First Date of Test:	July 8, 2021
Last Date of Test:	July 19, 2021
Receipt Date of Samples:	July 8, 2021
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

Microphone system containing a 2.4 GHz DTS radio. EUT uses Motorola Solutions Inc. proprietary protocol using only coded PHY, S=8 and 125 kbps data rate supported.

HiFi Base 3.0 maximum operational duty cycle calculation:

- 1440 μs ISO x 2 x 6 ISO events = 17280 μs
- The 7th ISO would be overlapped by an extended ACL event.
- Total duty cycle = 17280 μs+ 16784 μs + 256 μs for ACL single packet = 34320 μs per 100 ms
- Maximum duty cycle is 34.32 ms per 100 ms, therefore, maximum duty cycle is 34.3%

Testing Objective:

To demonstrate compliance of the (DTS) radio to FCC 15.247 requirements.

CONFIGURATIONS



Configuration WTVD0040-1

Software/Firmware Running during test		
Description	Version	
DTM	1.0	
TeraTerm	4.105	
Windows 10 Pro	20.H2	

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
HiFi Mic 3.0 (Transmitter)	Motorola Solutions, Inc	MIC-WRL-TRN-500	2

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Keyboard (Tablet PC)	Logitech	Y-U0009	1837CS517YN8		
Mouse (Tablet PC)	Logitech	M-U0025	180-002182		
Tablet PC	ENTEGRA Technologies	940-10-972	CPWC43140066		
Tablet Dock	ENTEGRA Technologies	DTC-0972	12102AR38140042		
AC/DC adaptor (Tablet)	FSP GRUOP INC.	FSP060-DBAE1	9NA0603116-0H-00645- 142810		
AC/DC adaptor (Base)	AC Adapter	PSA525	None		
Programming Base	Motorola Solutions, Inc	None	None		

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC power Cable (Adaptor Tablet)	Yes	2.0m	No	AC/DC adaptor	AC mains
DC power Cable (Adaptor Tablet)	No	1.2m	Yes	AC/DC adaptor	Tablet Dock
DC power Cable (Adaptor Base)	No	1.4m	No	AC/DC adaptor	Base
Keyboard Cable	Yes	1.0m	No	Keyboard	Tablet
Mouse Cable	Yes	1.0m	No	Mouse	Tablet
Base USB Cable	Yes	2.1m	No	Base	Tablet

CONFIGURATIONS



Configuration WTVD0040- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
HiFi Mic 3.0 (Transmitter)	Motorola Solutions, Inc	MIC-WRL-TRN-500	1
Microphone	Motorola Solutions, Inc	WGP00809	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Microphone Cable	No	1.2m	No	Microphone	HiFi Mic 3.0

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2021-07-08	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2021-07-16	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2021-07-16	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2021-07-16	Equivalent Isotropic Radiated Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
5	2021-07-16	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	2021-07-16	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
7	2021-07-16	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
8	2021-07-19	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information.

ANTENNA GAIN (dBi)

Type	Provided by:	Frequency Range (MHz)	Gain (dBi)
Ceramic Antenna	Ethertronics	2400 - 2485	1.39

The EUT was tested using the power settings provided by the manufacturer:

SETTINGS FOR ALL TESTS IN THIS REPORT

HiFi Mic 3.0	Power Setting
Channels 0-38	3
Channel 39	2



XMit 2020.12.30.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2020-09-21	2021-09-21
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXK	2020-09-22	2021-09-22
Attenuator	Fairview Microwave	SA4018-20	TYE	2020-09-18	2021-09-18

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.



N/A

Work Order: WTVD0040
Date: 8-Jul-21
Temperature: 20.4 °C EUT: HiFi Mic 3.0 Serial Number: 1

Customer: Motorola Solutions Inc Humidity: 57% RH Barometric Pres.: 1017 mba Project: None
Tested by: Brandon Hobbs
TEST SPECIFICATIONS Power: Battery
Test Method Job Site: TX09 FCC 15.247:2021 COMMENTS All losses were accounted for down the measurement path: DC block, attenuator and cable. The power level was set to 3 for all channels. DEVIATIONS FROM TEST STANDARD Configuration # Signature Number of Pulses Limit (%) Value (%) Pulse Width Results Period BLE/GFSK 1Mbps Modulation N/A N/A N/A N/A Low Channel, 2402 MHz 207.7 us 625.1 us N/A N/A N/A 33.2 N/A 625.1 us Low Channel, 2402 MHz N/A N/A Mid Channel, 2440 MHz 208.7 us 33.4 Mid Channel, 2440 MHz High Channel, 2480 MHz N/A N/A 5 N/A N/A 208.6 us 625 us 33.4 N/A N/A High Channel, 2480 MHz 500kbps Modulation N/A N/A N/A N/A N/A Low Channel, 2402 MHz Low Channel, 2402 MHz 676.1 us N/A 54.0 N/A N/A N/A 1.252 ms N/A N/A N/A 54.1 N/A Mid Channel, 2440 MHz Mid Channel, 2440 MHz 676.9 us N/A N/A N/A 1.252 ms N/A N/A N/A High Channel, 2480 MHz High Channel, 2480 MHz 676.6 us 1.25 ms 54.1 N/A N/A N/A N/A N/A N/A N/A 125kbps Modulation Low Channel, 2402 MHz 1.408 ms 1.875 ms 75.1 N/A N/A Low Channel, 2402 MHz Mid Channel, 2440 MHz N/A 1.409 ms N/A 1.875 ms N/A 75.2 N/A N/A N/A N/A N/A 1.875 ms N/A 75.1 N/A N/A N/A N/A Mid Channel, 2440 MHz N/A High Channel, 2480 MHz 1.409 ms

N/A

N/A

High Channel, 2480 MHz

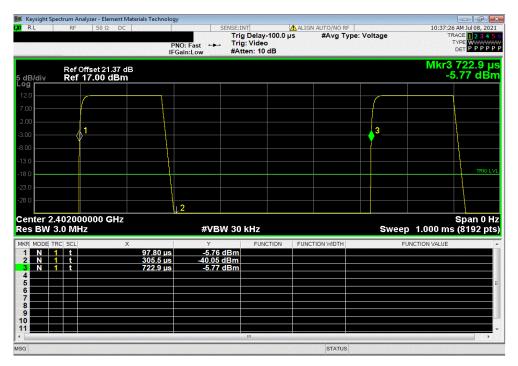


BLE/GFSK , 1Mbps Modulation, Low Channel, 2402 MHz

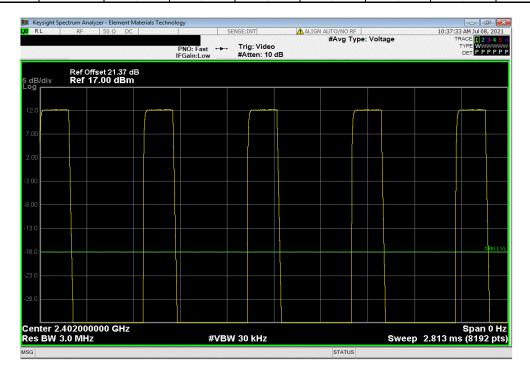
Number of Value Limit

Pulse Width Period Pulses (%) (%) Results

207.7 us 625.1 us 1 33.2 N/A N/A



	BLE/GFSK , 1Mbps Modulation, Low Channel, 2402 MHz								
				Number of	Value	Limit			
		Pulse Width	Period	Pulses	(%)	(%)	Results		
l		N/A	N/A	5	N/A	N/A	N/A		



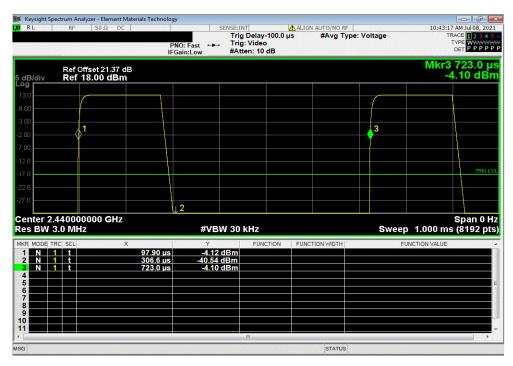


 BLE/GFSK , 1Mbps Modulation, Mid Channel, 2440 MHz

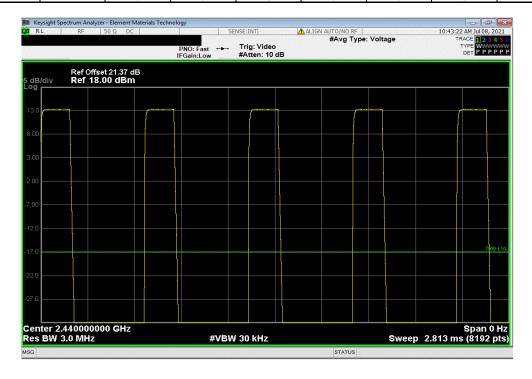
 Number of Value Limit

 Pulse Width
 Period
 Pulses
 (%)
 Results

 208.7 us
 625.1 us
 1
 33.4
 N/A
 N/A



	BLE/GFSK , 1Mbps Modulation, Mid Channel, 2440 MHz							
				Number of	Value	Limit		
		Pulse Width	Period	Pulses	(%)	(%)	Results	
ı		N/A	N/A	5	N/A	N/A	N/A	



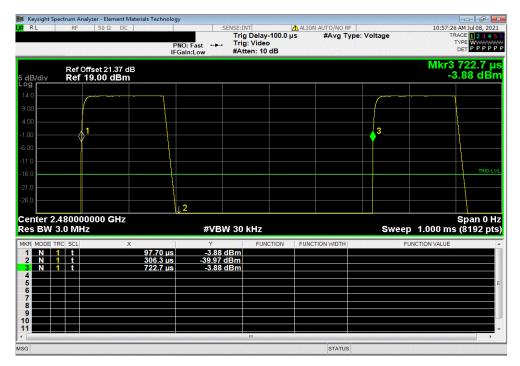


BLE/GFSK , 1Mbps Modulation, High Channel, 2480 MHz

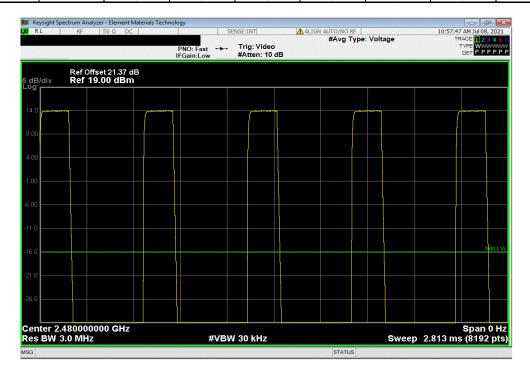
Number of Value Limit

Pulse Width Period Pulses (%) (%) Results

208.6 us 625 us 1 33.4 N/A N/A



BLE/GFSK , 1Mbps Modulation, High Channel, 2480 MHz							
		Number of	Value	Limit			
 Pulse Width	Period	Pulses	(%)	(%)	Results		
N/A	N/A	5	N/A	N/A	N/A		



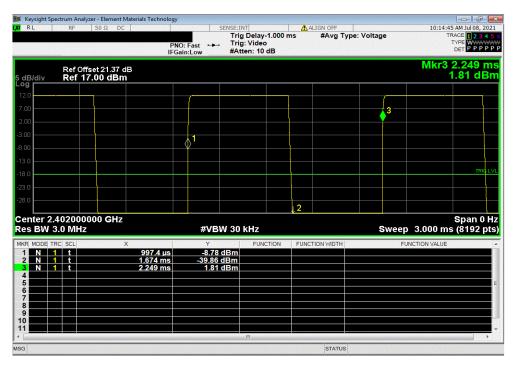


 BLE/GFSK , 500kbps Modulation, Low Channel, 2402 MHz

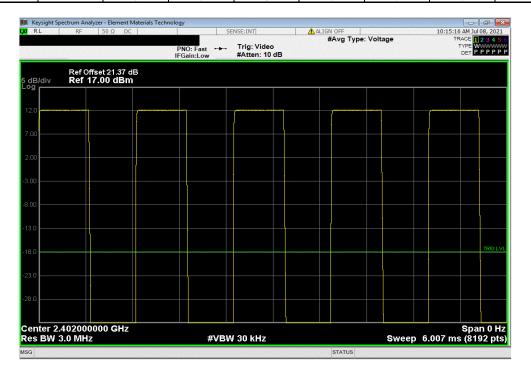
 Number of Value
 Limit

 Pulse Width
 Period
 Pulses
 (%)
 (%)
 Results

 676.1 us
 1.252 ms
 1
 54
 N/A
 N/A



BLE/GFSK , 500kbps Modulation, Low Channel, 2402 MHz								
	Number of Value Limit							
	Pulse Width	Period	Pulses	(%)	(%)	Results		
	N/A	N/A	5	N/A	N/A	N/A		



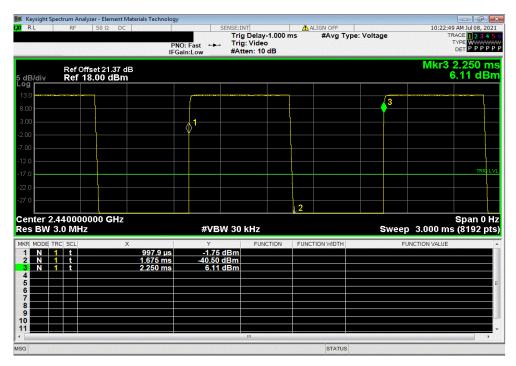


 BLE/GFSK , 500kbps Modulation, Mid Channel, 2440 MHz

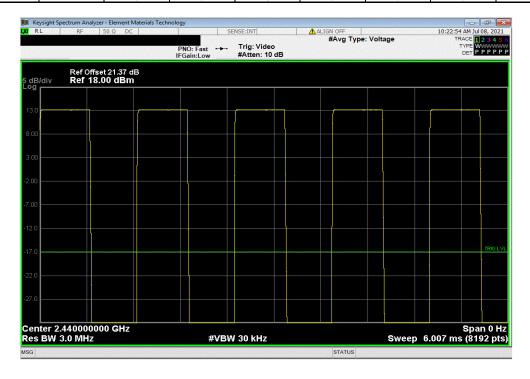
 Number of Value Limit

 Pulse Width
 Period
 Pulses
 (%)
 (%)
 Results

 676.9 us
 1.252 ms
 1
 54.1
 N/A
 N/A



	BLE/GFSK , 500kbps Modulation, Mid Channel, 2440 MHz							
				Number of	Value	Limit		
		Pulse Width	Period	Pulses	(%)	(%)	Results	
ı		N/A	N/A	5	N/A	N/A	N/A	



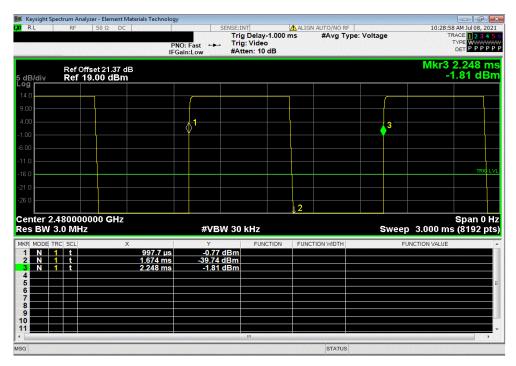


 BLE/GFSK , 500kbps Modulation, High Channel, 2480 MHz

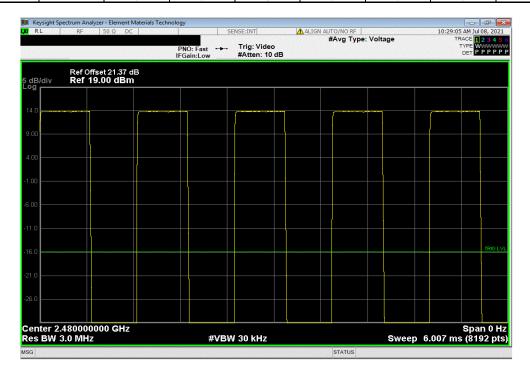
 Number of
 Value
 Limit

 Pulse Width
 Period
 Pulses
 (%)
 (%)
 Results

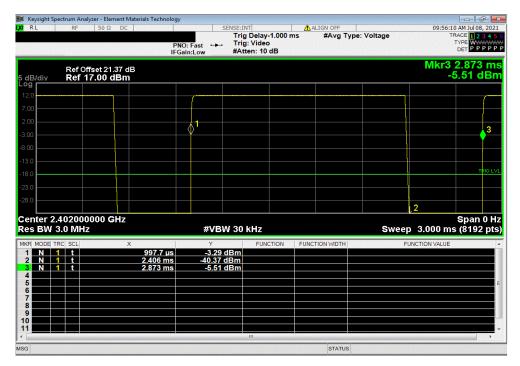
 676.6 us
 1.25 ms
 1
 54.1
 N/A
 N/A



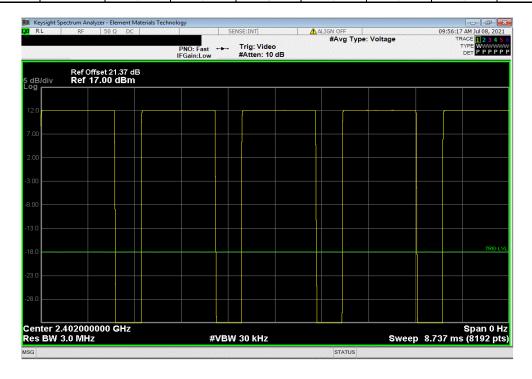
BLE/GFSK , 500kbps Modulation, High Channel, 2480 MHz							
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	N/A	N/A	5	N/A	N/A	N/A	







	BLE/GFSK , 125kbps Modulation, Low Channel, 2402 MHz								
			Number of	Value	Limit				
	Pulse Width	Period	Pulses	(%)	(%)	Results			
1	N/A	N/A	5	N/A	N/A	N/A			



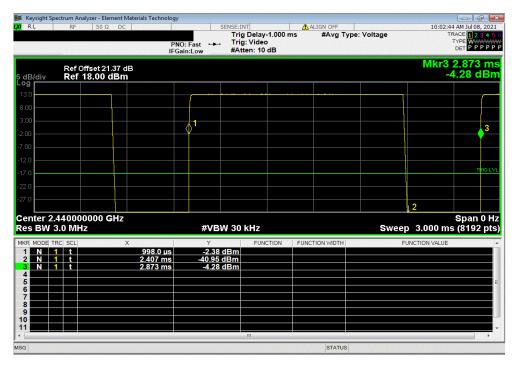


 BLE/GFSK , 125kbps Modulation, Mid Channel, 2440 MHz

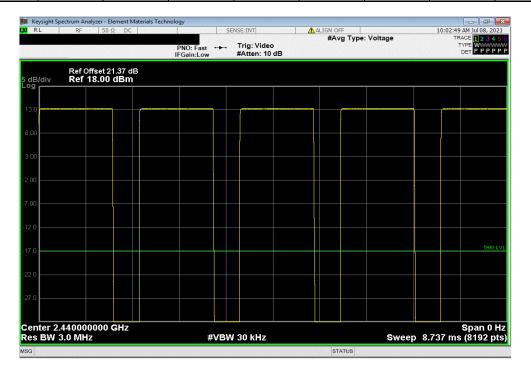
 Number of Value Limit

 Pulse Width
 Period
 Pulses
 (%)
 (%)
 Results

 1.409 ms
 1.875 ms
 1
 75.2
 N/A
 N/A



BLE/GFSK , 125kbps Modulation, Mid Channel, 2440 MHz								
			Number of	Value	Limit			
	Pulse Width	Period	Pulses	(%)	(%)	Results		
	N/A	N/A	5	N/A	N/A	N/A		



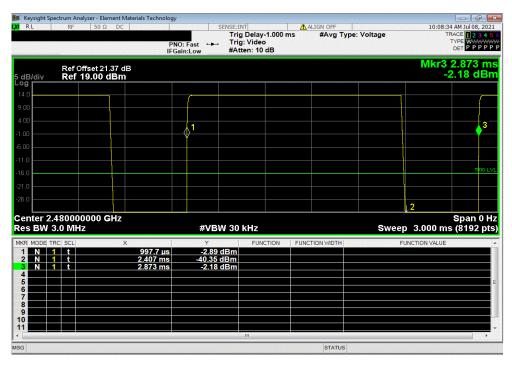


 BLE/GFSK , 125kbps Modulation, High Channel, 2480 MHz

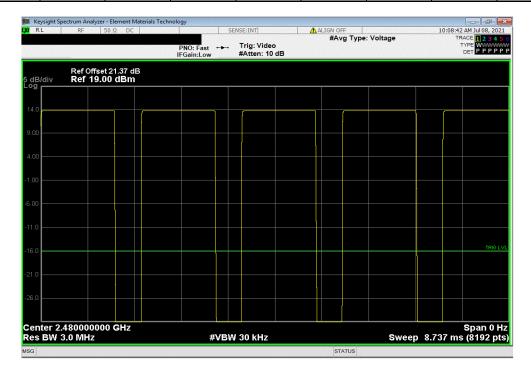
 Number of Value Limit

 Pulse Width
 Period
 Pulses
 (%)
 (%)
 Results

 1.409 ms
 1.875 ms
 1
 75.1
 N/A
 N/A



	BLE/GFSK, 125kbps Modulation, High Channel, 2480 MHz					
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A





XMit 2020.12.30.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379		2020-09-21	2021-09-21
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXK	2020-09-22	2021-09-22
Attenuator	Fairview Microwave	SA4018-20	TYE	2020-09-18	2021-09-18

TEST DESCRIPTION

The EUT was set to the channels and modes listed in the datasheet.

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.0% occupied bandwidth was also measured at the same time which can be needed during Output Power depending on the applicable method.



EUT: HiFi Mic 3.0
Serial Number: 2
Customer: Motorola Solutions Inc Work Order: WTVD0040

Date: 16-Jul-21

Temperature: 21.4 °C Humidity: 56.1% RH
Barometric Pres.: 1017 mbar Project: None
Tested by: Brandon Hobbs
TEST SPECIFICATIONS Power: Battery
Test Method Job Site: TX09 FCC 15.247:2021 COMMENTS All measurement path losses were accounted for: DC block, attenuater and cable. DEVIATIONS FROM TEST STANDARD Configuration # Signature Value Result (≥) BLE/GFSK 1Mbps Modulation Low Channel, 2402 MHz Mid Channel, 2440 MHz 683.949 kHz 690.176 kHz 500 kHz 500 kHz Pass Pass High Channel, 2480 MHz 691.322 kHz 500 kHz Pass 500kbps Modulation Low Channel, 2402 MHz 686.735 kHz 500 kHz Pass Mid Channel, 2440 MHz High Channel, 2480 MHz 681.19 kHz 689.338 kHz 500 kHz 500 kHz Pass Pass 125kbps Modulation Low Channel, 2402 MHz 610.688 kHz 500 kHz Pass Mid Channel, 2440 MHz High Channel, 2480 MHz 610.954 kHz Pass Pass 500 kHz 610.093 kHz 500 kHz

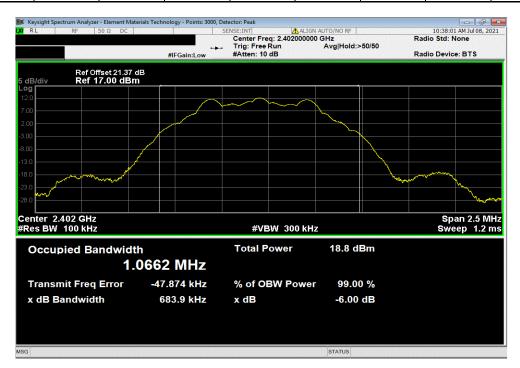


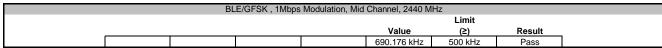
BLE/GFSK , 1Mbps Modulation, Low Channel, 2402 MHz

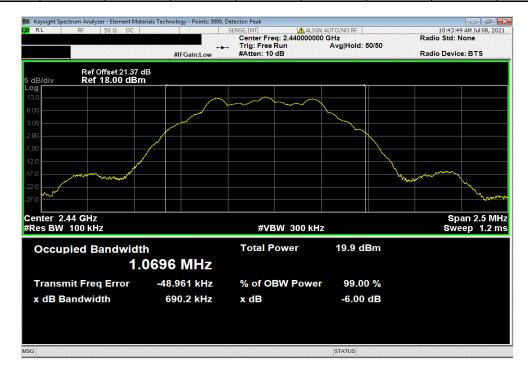
Limit

Value
(2) Result

683.949 kHz 500 kHz Pass







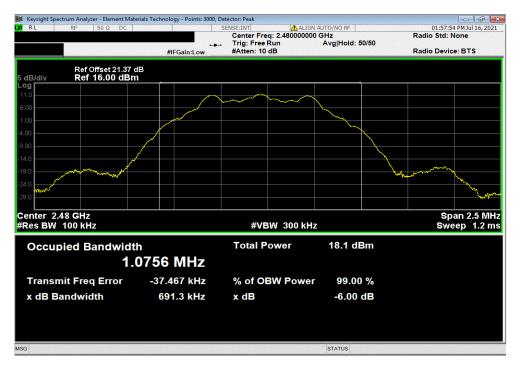


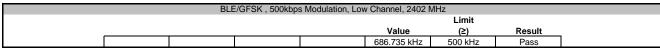
BLE/GFSK , 1Mbps Modulation, High Channel, 2480 MHz

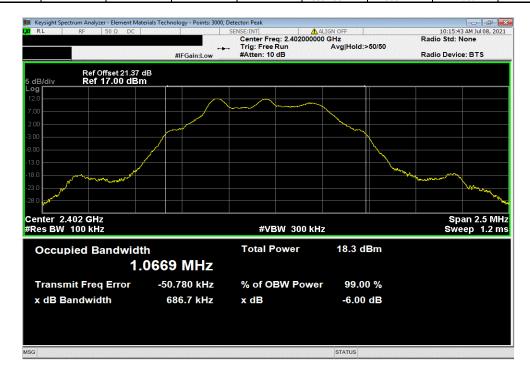
Limit

Value (≥) Result

691.322 kHz 500 kHz Pass







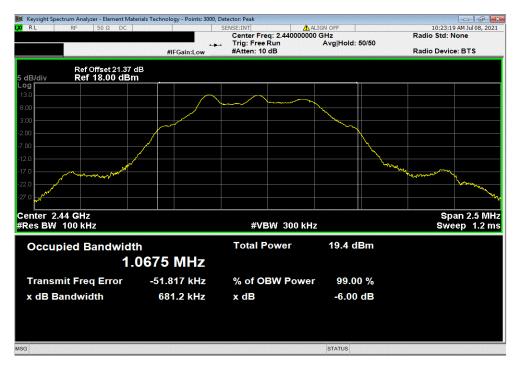


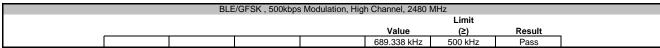
BLE/GFSK , 500kbps Modulation, Mid Channel, 2440 MHz

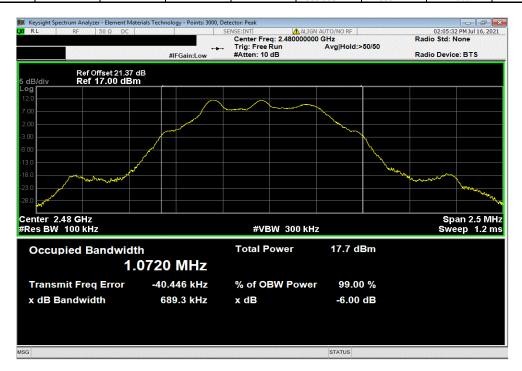
Limit

Value (2) Result

681.19 kHz 500 kHz Pass







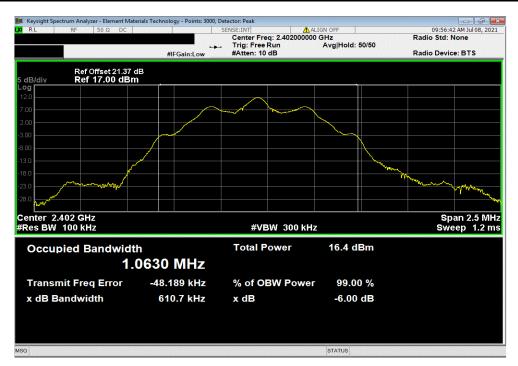


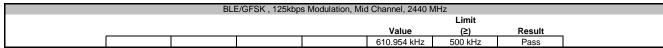
BLE/GFSK , 125kbps Modulation, Low Channel, 2402 MHz

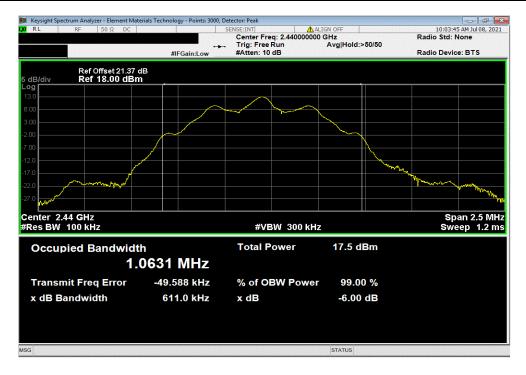
Limit

Value (2) Result

610.688 kHz 500 kHz Pass









BLE/GFSK , 125kbps Modulation, High Channel, 2480 MHz

Limit

Value (2) Result

610.093 kHz 500 kHz Pass





XMit 2020.12.30.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	ve SD3379		2020-09-21	2021-09-21
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXK	2020-09-22	2021-09-22
Attenuator	Fairview Microwave	SA4018-20	TYE	2020-09-18	2021-09-18

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.



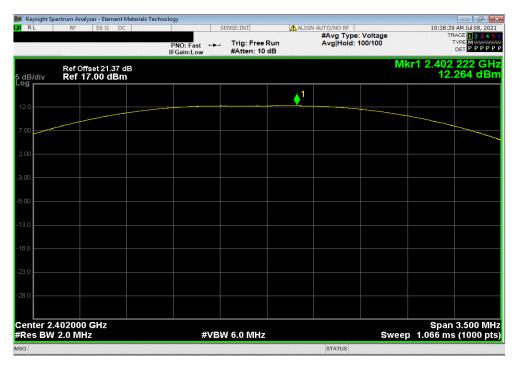
EUT	: HiFi Mic 3.0					Work Order:	WTVD0040	
Serial Number	r: 2					Date:	16-Jul-21	
Customer	r: Motorola Solutions Inc					Temperature:	21.1 °C	
	: Navaid Karimi					Humidity:		
Project	t: None				Bar	ometric Pres.:	1017 mbar	
	: Brandon Hobbs		Power:	Battery		Job Site:	TX09	
EST SPECIFICAT	TIONS			Test Method				
CC 15.247:2021				ANSI C63.10:2013				
OMMENTS								
I measurement	path losses were accounte	d for: DC block, attenuater and cable.			•		•	•
EVIATIONS FRO	M TEST STANDARD							
one								
one onfiguration#	1		7	9-1				
	1	Signature	7.7	JM				
	1	Signature	Jan y	Jal		Out Pwr	Limit	
onfiguration #	1	Signature	Jan y	Jan		Out Pwr (dBm)	Limit (dBm)	Result
onfiguration #	1	Signature	7	J				Result
onfiguration #	1 1Mbps Modulation	Signature	J. T	JM		(dBm)	(dBm)	
	Low Channel	Signature Signature	7.7	Jan		(dBm) 12.264	(dBm) 30	Pass
onfiguration #	Low Channel Mid Channel,	Signature 1, 2402 MHz 2440 MHz		JM		(dBm) 12.264 13.373	(dBm) 30 30	Pass Pass
onfiguration #	Low Channel Mid Channel, High Channe	Signature 1, 2402 MHz 2440 MHz	J.A.Y	Jal		(dBm) 12.264	(dBm) 30	Pass
onfiguration #	Low Channel Mid Channel, High Channel 500kbps Modulation	Signature 1, 2402 MHz 2, 2440 MHz 3, 2480 MHz		Jal		(dBm) 12.264 13.373 11.594	(dBm) 30 30 30	Pass Pass Pass
onfiguration #	Low Channel Mid Channel High Channel 500kbps Modulation Low Channel	Signature 1, 2402 MHz 2440 MHz 1, 2480 MHz 1, 2402 MHz	2-7	JM		12.264 13.373 11.594 12.196	30 30 30 30 30	Pass Pass Pass
onfiguration #	Low Channel Mid Channel High Channe 500kbps Modulation Low Channel Mid Channel	Signature 1, 2402 MHz 2, 2440 MHz 1, 2480 MHz 1, 2402 MHz 2, 4404 MHz 2, 4404 MHz 2, 4404 MHz 3, 4404 MHz 4, 4404	J. Y	Jal		12.264 13.373 11.594 12.196 13.31	30 30 30 30 30 30	Pass Pass Pass Pass Pass
onfiguration #	Low Channel Mid Channel, High Channe 500kbps Modulation Low Channel Mid Channel, High Channe	Signature 1, 2402 MHz 2, 2440 MHz 1, 2480 MHz 1, 2402 MHz 2, 4404 MHz 2, 4404 MHz 2, 4404 MHz 3, 4404 MHz 4, 4404		JA		12.264 13.373 11.594 12.196	30 30 30 30 30	Pass Pass Pass
onfiguration #	Low Channel Mid Channel, High Channe 500kbps Modulation Low Channel Mid Channel, High Channe 125kbps Modulation	Signature 1, 2402 MHz 2440 MHz 1, 2480 MHz 2, 2402 MHz 2, 2402 MHz 3, 2480 MHz 1, 2480 MHz	2-7	JM		12.264 13.373 11.594 12.196 13.31 11.556	30 30 30 30 30 30 30	Pass Pass Pass Pass Pass Pass
onfiguration #	Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel Mid Channel, High Channel 125kbps Modulation Low Channel	Signature 1, 2402 MHz 2, 2440 MHz 1, 2480 MHz 1, 2402 MHz 2, 2440 MHz 1, 2480 MHz 1, 2402 MHz	Jan y	Jan		12.264 13.373 11.594 12.196 13.31 11.556	30 30 30 30 30 30 30 30	Pass Pass Pass Pass Pass Pass
onfiguration #	Low Channel Mid Channel, High Channe 500kbps Modulation Low Channel Mid Channel, High Channe 125kbps Modulation	Signature 1, 2402 MHz 2, 2440 MHz 31, 2480 MHz 1, 2402 MHz 2, 2440 MHz 1, 2480 MHz 1, 2402 MHz 2, 2440 MHz 2, 2402 MHz 2, 2402 MHz 2, 2402 MHz 2, 2402 MHz		JA		12.264 13.373 11.594 12.196 13.31 11.556	30 30 30 30 30 30 30	Pass Pass Pass Pass Pass Pass



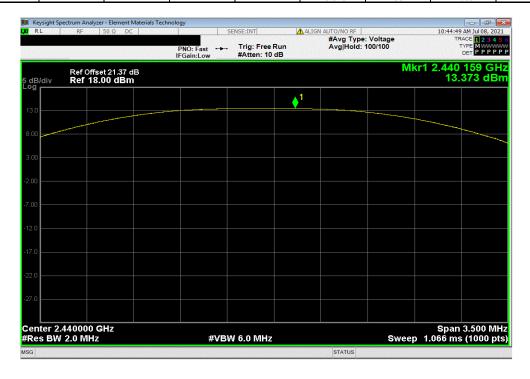
BLE/GFSK , 1Mbps Modulation, Low Channel, 2402 MHz

Out Pwr Limit
(dBm) (dBm) Result

12.264 30 Pass



	BL	E/GFSK , 1Mbps	Modulation, Mid	Channel, 2440 N	Hz		
				Out Pwr	Limit		
_				(dBm)	(dBm)	Result	
				13.373	30	Pass	

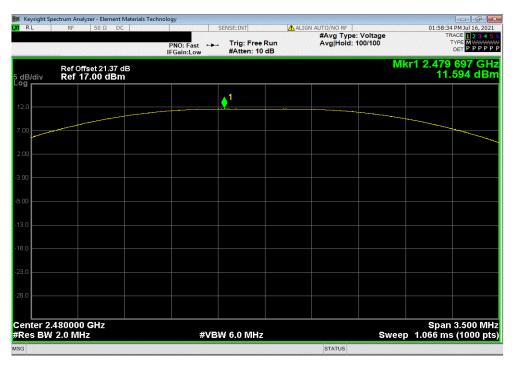




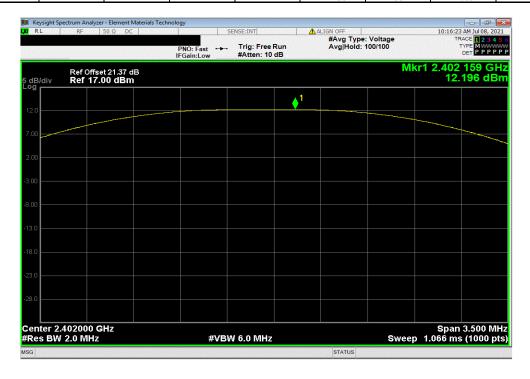
BLE/GFSK , 1Mbps Modulation, High Channel, 2480 MHz

Out Pwr Limit
(dBm) (dBm) Result

11.594 30 Pass



	BLE/GFSK , 500kbps Modulation, Low Channel, 2402 MHz							
					Out Pwr	Limit		
_					(dBm)	(dBm)	Result	_
					12.196	30	Pass	1

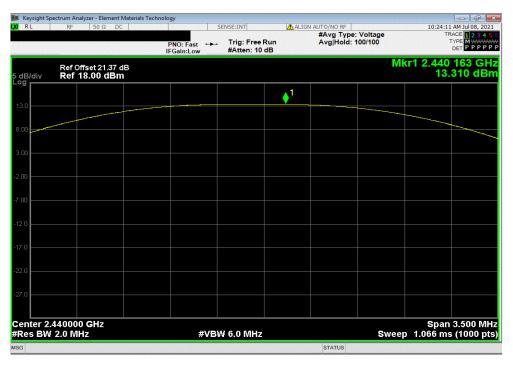




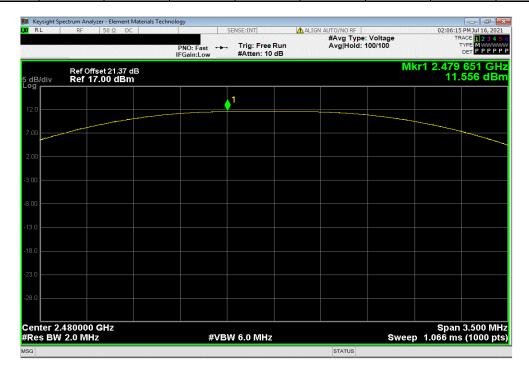
BLE/GFSK , 500kbps Modulation, Mid Channel, 2440 MHz

Out Pwr Limit
(dBm) (dBm) Result

13.31 30 Pass



BLE/GFSK , 500kbps Modulation, High Channel, 2480 MHz						
				Out Pwr	Limit	
				(dBm)	(dBm)	Result
				11.556	30	Pass



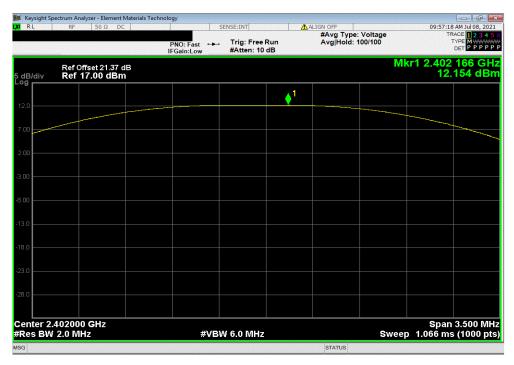
OUTPUT POWER



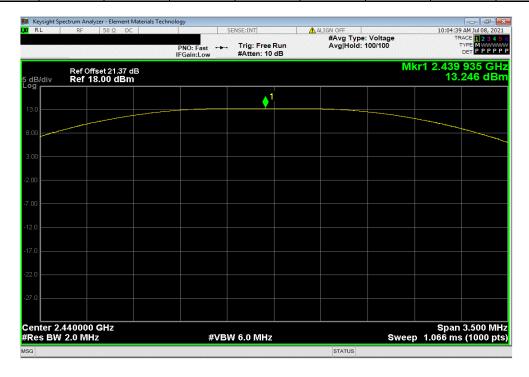
BLE/GFSK , 125kbps Modulation, Low Channel, 2402 MHz

Out Pwr Limit
(dBm) (dBm) Result

12.154 30 Pass



	BL	E/GFSK , 125kbp	s Modulation, Mid	Channel, 2440 M	ИHz		
				Out Pwr	Limit		
1				(dBm)	(dBm)	Result	_
				13.246	30	Pass	ĺ



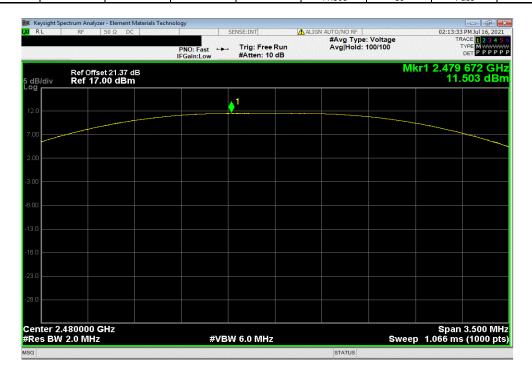
OUTPUT POWER



BLE/GFSK , 125kbps Modulation, High Channel, 2480 MHz

Out Pwr Limit
(dBm) (dBm) Result

11.503 30 Pass





XMit 2020.12.30.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2020-09-21	2021-09-21
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXK	2020-09-22	2021-09-22
Attenuator	Fairview Microwave	SA4018-20	TYE	2020-09-18	2021-09-18

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum.

Prior to measuring peak transmit power the DTS bandwidth (B) was measured.

The method found in ANSI C63.10:2013 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)



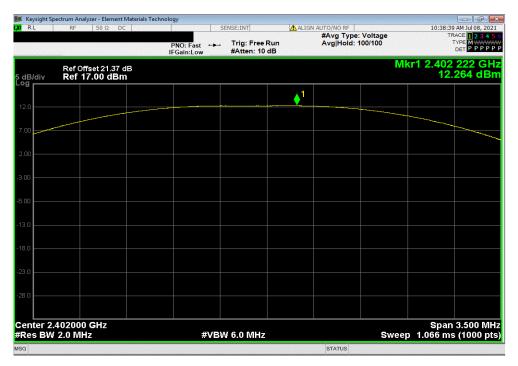
FUT-								TbtTx 2021.03.19.1	XMit 2020.12.3
	HiFi Mic 3.0						Work Order:		
Serial Number:								16-Jul-21	
	Motorola Solutions Inc						Temperature:		
	Navaid Karimi						Humidity:		
Project:							Barometric Pres.:		
	Brandon Hobbs			Battery			Job Site:	TX09	
EST SPECIFICATION	IONS			Test Method					
CC 15.247:2021				ANSI C63.10:2013					
COMMENTS									
II measurement pa	ath losses were accounted	d for: DC block, attenuater and	cable.	·		·	·		·
	I TEST STANDARD								
lone									
Configuration #	1		1	1-1					
Johnguration #	1	Signature	17.7	$J \sim \Lambda$					
Somiguration #	1	Signature	1 Frey	Jan	Out Pwr	Antenna	EIRP	EIRP Limit	
	1	Signature	1 frey	Jan	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
LE/GFSK		Signature	1	Jan					Result
BLE/GFSK	1Mbps Modulation	· · · ·		Jan	(dBm)	Gain (dBi)	(dBm)	(dBm)	
BLE/GFSK	1Mbps Modulation Low Channel	I, 2402 MHz	The Y	Jan	(dBm) 12.264	Gain (dBi) 1.39	(dBm) 13.654	(dBm) 36	Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel,	i, 2402 MHz 2440 MHz	Jan Y	Jan	(dBm) 12.264 13.373	1.39 1.39	(dBm) 13.654 14.763	(dBm) 36 36	Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channe	i, 2402 MHz 2440 MHz	7	Jan	(dBm) 12.264	Gain (dBi) 1.39	(dBm) 13.654	(dBm) 36	Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation	1, 2402 MHz 2440 MHz 11, 2480 MHz	7	Jan	12.264 13.373 11.594	1.39 1.39 1.39 1.39	13.654 14.763 12.984	(dBm) 36 36 36	Pass Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel	, 2402 MHz , 2440 MHz , 2480 MHz , 2402 MHz	Jan Y	Jan	12.264 13.373 11.594 12.196	1.39 1.39 1.39 1.39	13.654 14.763 12.984 13.586	(dBm) 36 36 36 36	Pass Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel Mid Channel,	, 2402 MHz , 2440 MHz , 2480 MHz , 2402 MHz , 2402 MHz	7	Jan	12.264 13.373 11.594 12.196 13.310	1.39 1.39 1.39 1.39 1.39	13.654 14.763 12.984 13.586 14.700	36 36 36 36 36 36	Pass Pass Pass Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel Mid Channel High Channel	, 2402 MHz , 2440 MHz , 2480 MHz , 2402 MHz , 2402 MHz		Jan	12.264 13.373 11.594 12.196	1.39 1.39 1.39 1.39	13.654 14.763 12.984 13.586	(dBm) 36 36 36 36	Pass Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel Mid Channel, High Channel 125kbps Modulation	, 2402 MHz , 2440 MHz , 2440 MHz , 2480 MHz , 2402 MHz , 2440 MHz , 2480 MHz		Jan	12.264 13.373 11.594 12.196 13.310 11.556	1.39 1.39 1.39 1.39 1.39 1.39	13.654 14.763 12.984 13.586 14.700 12.946	(dBm) 36 36 36 36 36 36 36 36	Pass Pass Pass Pass Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel Mid Channel, High Channel 25kbps Modulation Low Channel	, 2402 MHz , 2440 MHz , 2440 MHz , 2480 MHz , 2402 MHz , 2440 MHz , 2402 MHz		Jan	12.264 13.373 11.594 12.196 13.310 11.556	1.39 1.39 1.39 1.39 1.39 1.39 1.39	13.654 14.763 12.984 13.586 14.700 12.946	(dBm) 36 36 36 36 36 36 36 36	Pass Pass Pass Pass Pass Pass Pass Pass
BLE/GFSK	1Mbps Modulation Low Channel Mid Channel, High Channel 500kbps Modulation Low Channel Mid Channel, High Channel 125kbps Modulation	I, 2402 MHz 2440 MHz II, 2480 MHz I, 2402 MHz 2440 MHz II, 2480 MHz II, 2480 MHz II, 2402 MHz 2440 MHz		Jan	12.264 13.373 11.594 12.196 13.310 11.556	1.39 1.39 1.39 1.39 1.39 1.39	13.654 14.763 12.984 13.586 14.700 12.946	(dBm) 36 36 36 36 36 36 36 36	Pass Pass Pass Pass Pass Pass



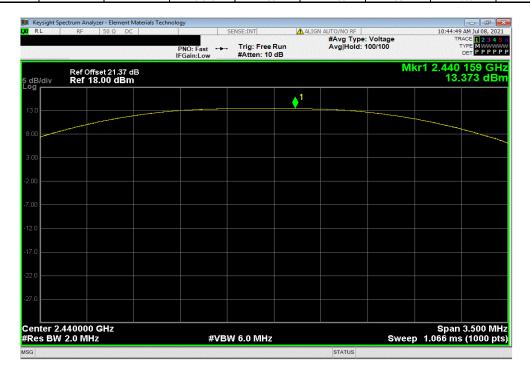
BLE/GFSK , 1Mbps Modulation, Low Channel, 2402 MHz

Out Pwr Antenna EIRP EIRP Limit
(dBm) Gain (dBi) (dBm) (dBm) Result

12.264 1.39 13.654 36 Pass



	BL	E/GFSK , 1Mbps	Modulation, Mid	Channel, 2440 M	lHz	
		Out Pwr	Antenna	EIRP	EIRP Limit	
		(dBm)	Gain (dBi)	(dBm)	(dBm)	Result
		13.373	1.39	14.763	36	Pass

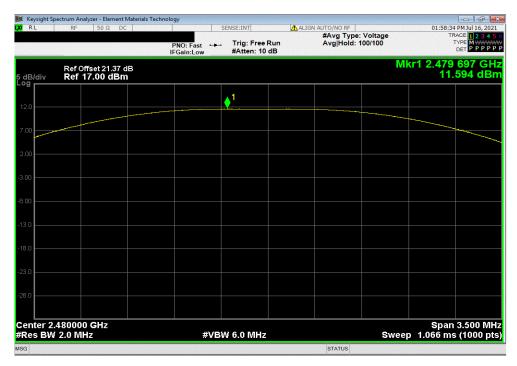




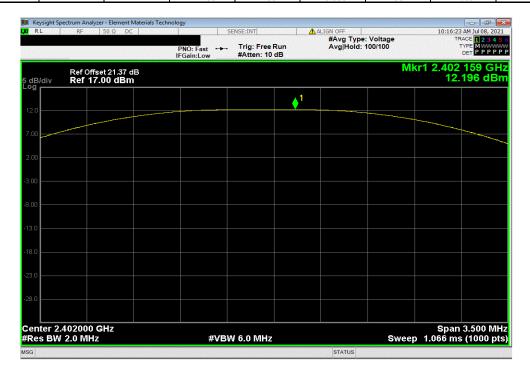
BLE/GFSK , 1Mbps Modulation, High Channel, 2480 MHz

Out Pwr Antenna EIRP EIRP Limit
(dBm) Gain (dBi) (dBm) (dBm) Result

11.594 1.39 12.984 36 Pass



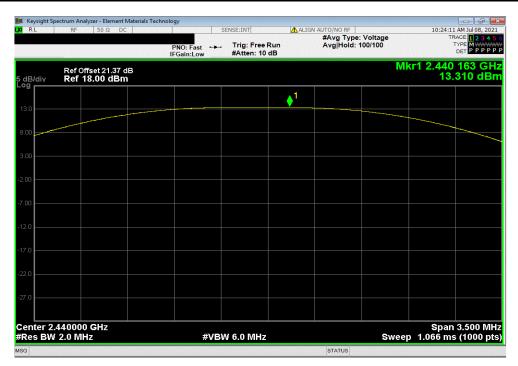
	BLE	GFSK, 500kbps	s Modulation, Lov	v Channel, 2402 I	MHz	
		Out Pwr	Antenna	EIRP	EIRP Limit	
_		(dBm)	Gain (dBi)	(dBm)	(dBm)	Result
ĺ		12.196	1.39	13.586	36	Pass



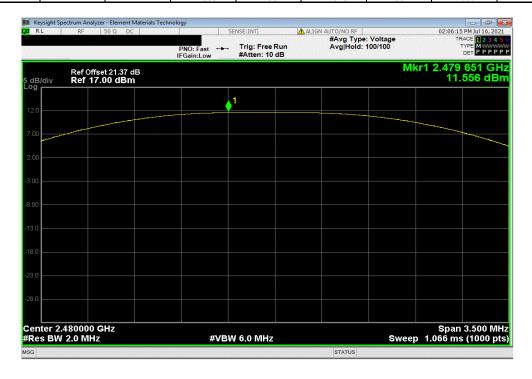


BLE/GFSK , 500kbps Modulation, Mid Channel, 2440 MHz
Out Pwr Antenna EIRP EIRP Limit
(dBm) Gain (dBi) (dBm) (dBm) Result

13.31 1.39 14.7 36 Pass



	BLE	E/GFSK, 500kbps	Modulation, Hig	h Channel, 2480	MHz	
		Out Pwr	Antenna	EIRP	EIRP Limit	
		(dBm)	Gain (dBi)	(dBm)	(dBm)	Result
		11.556	1.39	12.946	36	Pass

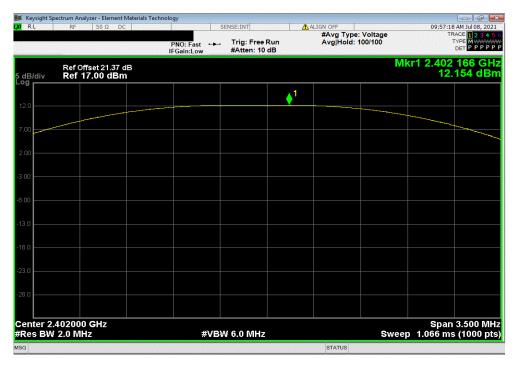




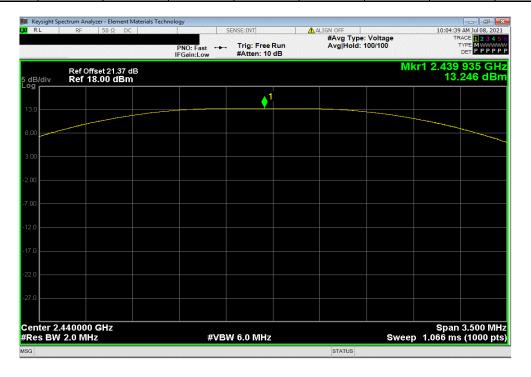
BLE/GFSK , 125kbps Modulation, Low Channel, 2402 MHz

Out Pwr Antenna EIRP EIRP Limit
(dBm) Gain (dBi) (dBm) (dBm) Result

12.154 1.39 13.544 36 Pass



	BLI	E/GFSK , 125kbps	s Modulation, Mic	d Channel, 2440 M	ЛHz	
		Out Pwr	Antenna	EIRP	EIRP Limit	
		(dBm)	Gain (dBi)	(dBm)	(dBm)	Result
l		13.246	1.39	14.636	36	Pass

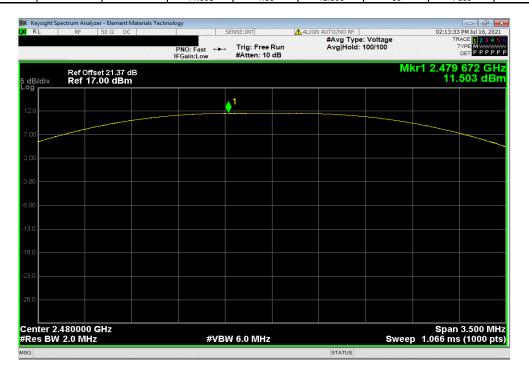




BLE/GFSK , 125kbps Modulation, High Channel, 2480 MHz

Out Pwr Antenna EIRP EIRP Limit
(dBm) Gain (dBi) (dBm) (dBm) Result

11.503 1.39 12.893 36 Pass



1.39 1.39



XMit 2020.12.30.0

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Block - DC	Fairview Microwave	SD3379	AMM	2020-09-21	2021-09-21
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2021-03-11	2022-03-11
Cable	UtiFlex Micro-Coax	UFD1150A-1-0720-200200	TXK	2020-09-22	2021-09-22
Attenuator	Fairview Microwave	SA4018-20	TYE	2020-09-18	2021-09-18

TEST DESCRIPTION

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.



							TbtTx 2021.03.19.1	XMit 2020.12.
	HiFi Mic 3.0					Work Order:		
Serial Number:							16-Jul-21	
	Motorola Solutions Inc					Temperature:		
	Navaid Karimi						57.7% RH	
Project:					Ва	rometric Pres.:		
	Brandon Hobbs		Power:	Battery		Job Site:	TX09	
TEST SPECIFICATI	TONS			Test Method				
FCC 15.247:2021				ANSI C63.10:2013				
COMMENTS								
All measurement p	oath losses were accounted	d for: DC block, attenuater and cab	ole.					
	M TEST STANDARD							
	III IEOI GIANDAND							
None	III TEOT OTANDARD							
None	1		7	11				
	1	Signature	7.7	9-1				
None	1	Signature	7.7	Jal		Value	Limit	
None	1	Signature	J. Y	Jan		Value dBm/3kHz	Limit < dBm/3kHz	Results
None Configuration #	1	Signature	7-7	Jan				Results
None Configuration # BLE/GFSK	1 1Mbps Modulation	Signature	J.Z.	Jal				Results
None Configuration # BLE/GFSK	1	Signature	7-7	Jan				Results Pass
None Configuration # BLE/GFSK	1 1Mbps Modulation	Signature	7	Jan		dBm/3kHz	< dBm/3kHz	
None Configuration # BLE/GFSK	1 1Mbps Modulation Low Channel,	, 2402 MHz 2440 MHz	Jan Y	Jan		-5.168	< dBm/3kHz	Pass
None Configuration # BLE/GFSK	1 1Mbps Modulation Low Channel, Mid Channel,	, 2402 MHz 2440 MHz	7-7	Jan		-5.168 -3.959	< dBm/3kHz	Pass Pass
None Configuration # BLE/GFSK	1 1Mbps Modulation Low Channel, Mid Channel, High Channel	, 2402 MHz 2440 MHz 1, 2480 MHz	7-7	Jan		-5.168 -3.959	< dBm/3kHz	Pass Pass
None Configuration # BLE/GFSK	1 1Mbps Modulation Low Channel, Mid Channel, High Channel 500kbps Modulation Low Channel,	, 2402 MHz , 2440 MHz , 2480 MHz , 2402 MHz	Jan Y	Jan		-5.168 -3.959 -5.851	< dBm/3kHz 8 8 8	Pass Pass Pass
None Configuration # BLE/GFSK	1 1Mbps Modulation Low Channel, Mid Channel, High Channel 500kbps Modulation	, 2402 MHz 2440 MHz 1, 2480 MHz 1, 2480 MHz 2440 MHz		Jan		-5.168 -3.959 -5.851 6.059	< dBm/3kHz	Pass Pass Pass
None Configuration # BLE/GFSK	1 1 1Mbps Modulation Low Channel, Mid Channel, High Channel 500kbps Modulation Low Channel, Mid Channel,	, 2402 MHz 2440 MHz 1, 2480 MHz 1, 2480 MHz 2440 MHz		Jan		-5.168 -3.959 -5.851 6.059 7.09	< dBm/3kHz 8 8 8 8 8	Pass Pass Pass Pass Pass
None Configuration # BLE/GFSK	1 1Mbps Modulation Low Channel, Mid Channel, High Channel 500kbps Modulation Low Channel, Mid Channel, Mid Channel, High Channel	, 2402 MHz 2440 MHz 1, 2480 MHz 2440 MHz 2440 MHz 1, 2480 MHz		Jan		-5.168 -3.959 -5.851 6.059 7.09	< dBm/3kHz 8 8 8 8 8	Pass Pass Pass Pass Pass
None Configuration # BLE/GFSK	1 Mbps Modulation Low Channel, Mid Channel, High Channel 500kbps Modulation Low Channel, Mid Channel, High Channel 125kbps Modulation	, 2402 MHz 2440 MHz 1, 2480 MHz 1, 2480 MHz 2440 MHz 1, 2480 MHz 2402 MHz		Jan		-5.168 -3.959 -5.851 -6.059 7.09 5.403	8 8 8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass

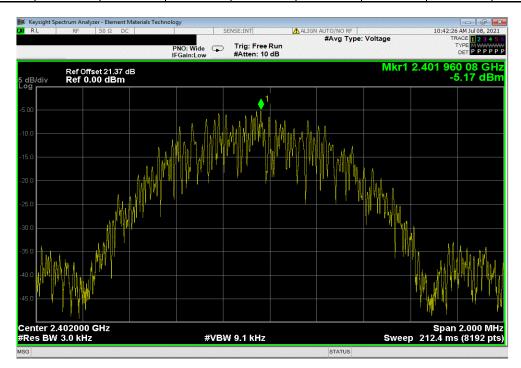


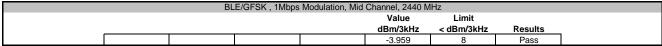
BLE/GFSK , 1Mbps Modulation, Low Channel, 2402 MHz

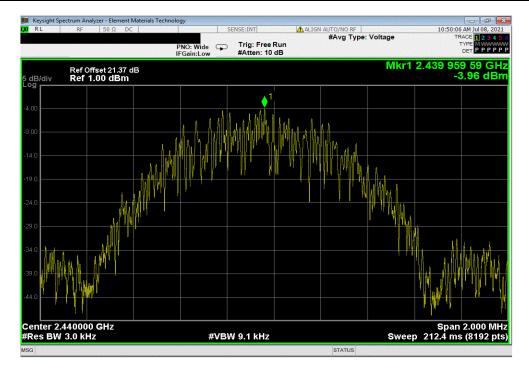
Value Limit

dBm/3kHz < dBm/3kHz Results

-5.168 8 Pass







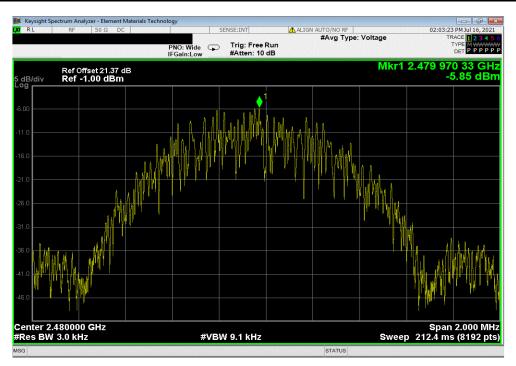


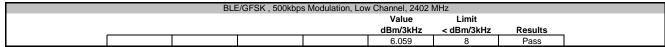
BLE/GFSK , 1Mbps Modulation, High Channel, 2480 MHz

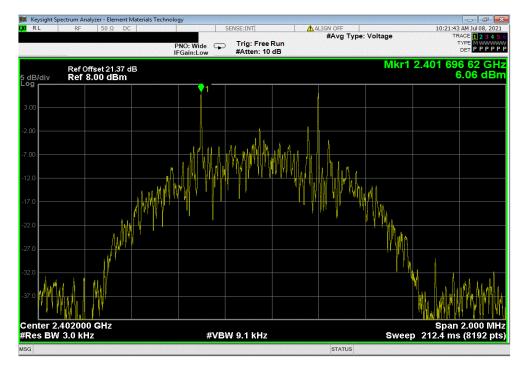
Value Limit

dBm/3kHz < dBm/3kHz Results

-5.851 8 Pass







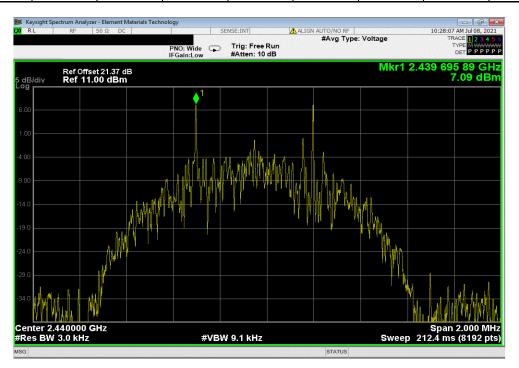


BLE/GFSK , 500kbps Modulation, Mid Channel, 2440 MHz

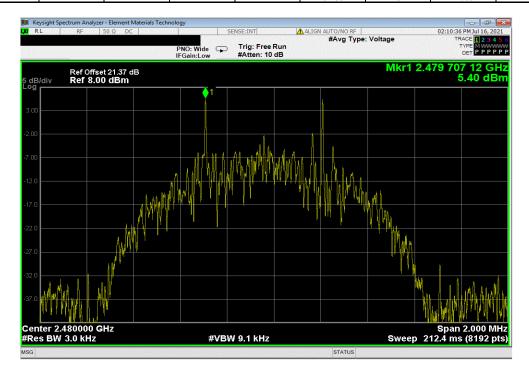
Value Limit

dBm/3kHz < dBm/3kHz Results

7.09 8 Pass



	BLE	E/GFSK , 500kbps	Modulation, Hig	h Channel, 2480	MHz	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				5.403	8	Pass





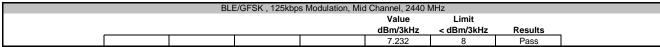
BLE/GFSK , 125kbps Modulation, Low Channel, 2402 MHz

Value Limit

dBm/3kHz < dBm/3kHz Results

6.129 8 Pass









BLE/GFSK , 125kbps Modulation, High Channel, 2480 MHz

Value Limit

dBm/3kHz < dBm/3kHz Results

5.451 8 Pass

