



Emerson / Fisher

DVC7K

FCC 15.247:2026

RSS-247 Issue 4:2025

RSS-Gen Issue 5:2018+A1:2019+A2:2021

Bluetooth Low Energy (DTS) Radio

Report: EMPM0211.1 Rev. 0, Issue Date: March 31, 2026



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CERTIFICATE OF TEST

Last Date of Test: February 27, 2026

Emerson / Fisher

EUT: DVC7K

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2026	ANSI C63.10:2020 Cor.1:2023
RSS-247 Issue 4:2025	ANSI C63.10-2020 + Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024
RSS-Gen Issue 5:2018+A1:2019+A2:2021	

Guidance

FCC KDB 558074 v05r02:2019
Notice 2021 - CEB0001

Results

Test Description	Result	FCC Section(s)	RSS Section(s)	ANSI C63.10 Section(s)	Comments
Powerline Conducted Emissions	Pass	15.207	RSS-Gen 8.8	6.2	
Occupied Bandwidth (99%)	Pass	KDB 558074 -2.1	RSS-Gen 6.7	6.9.3	
Duty Cycle	N/A	KDB 558074 -6.0	RSS-Gen 3.2	11.6	Characterization of radio operation.
DTS Bandwidth (6 dB)	Pass	15.247(a)(2), KDB 558074 -8.2	RSS-247 6.3.1(a)	11.8.2	
Output Power	Pass	15.247(b)(3), KDB 558074 -8.3.1	RSS-247 6.3.2, RSS-Gen 6.12	11.9.1.1	
Equivalent Isotropic Radiated Power	Pass	15.247(b)(3), KDB 558074 -8.3.1	RSS-247 6.3.2, RSS-Gen 6.12	11.9.1.1	
Power Spectral Density	Pass	15.247(e), KDB 558074 -8.4	RSS-247 6.3.1(b)	11.10.2	
Band Edge Compliance	Pass	15.247(d), KDB 558074 -8.5	RSS-247 6.6	11.11	
Spurious Conducted Emissions	Pass	15.247(d), KDB 558074 -8.5	RSS-247 6.6	11.11	
Radiated Band Edge Emissions	Pass	15.247(d), KDB 558074 - 8.6, 8.7	RSS-247 6.6, RSS-Gen 6.13, 8.10	11.12.1, 11.12.3, 6.6	
Spurious Radiated Emissions	Pass	15.247(d), KDB 558074 - 8.6, 8.7	RSS-247 6.6, RSS-Gen 6.13, 8.10	11.12.1, 6.4, 6.5, 6.6	

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.

CERTIFICATE OF TEST



Deviations From Test Standards

None

Approved By:

Jeff Alcock, Senior EMC Test Engineer
Signed for and on behalf of Element

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
00	None			

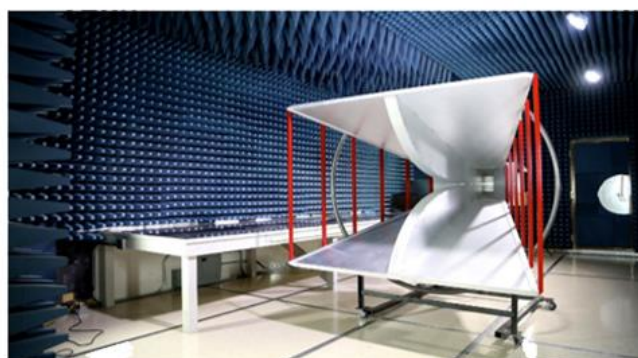
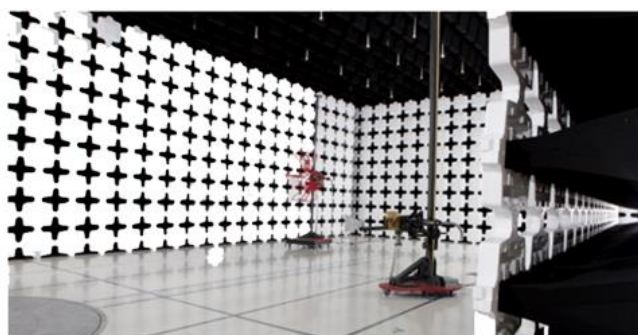
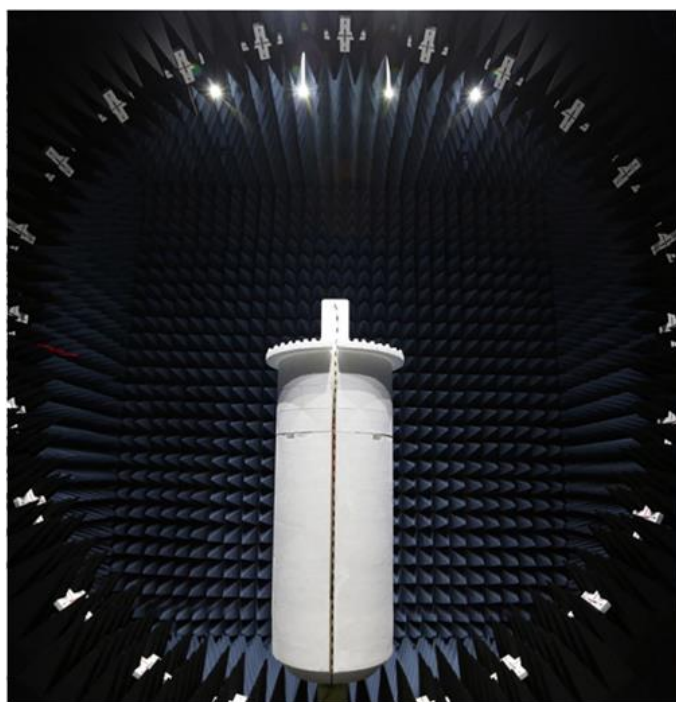
FACILITIES

Testing was performed at the following location(s)

Location	Labs ⁽¹⁾	Address	A2LA ⁽²⁾	ISED ⁽³⁾	BSMI ⁽⁴⁾	VCCI ⁽⁵⁾	CAB	FDA ⁽⁶⁾
☐ California	OC01-17	41 Tesla Irvine, CA 92618 (949) 861-8918	3310.04	2834B	SL2-IN-E-1154R	A-0029	US0158	TL-55
☒ Minnesota	MN01-11	9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136	3310.05	2834E	SL2-IN-E-1152R	A-0109	US0175	TL-57
☐ Oregon	EV01-12	6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	3310.02	2834D	SL2-IN-E-1017	A-0108	US0017	TL-56
☐ Washington	NC01-05	19201 120th Ave NE Bothell, WA 98011 (425) 984-6600	3310.06	2834F	SL2-IN-E-1153R	A-0110	US0157	TL-67
☐ Offsite	N/A	See Product Description	N/A	N/A	N/A	N/A	N/A	N/A

See data sheets for specific labs

- (1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
- (2) A2LA Certificate No.
- (3) ISED Company No.
- (4) BSMI No.
- (5) VCCI Site Filing No.
- (6) FDA ASCA No.



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 reported is based on statistical analysis that was performed by the laboratory. 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.

Various Measurements

Test	All Labs (+/-)
Frequency Accuracy (%)	0.0007
Amplitude Accuracy (dB)	1.2
Conducted Power (dB)	1.2
Radiated Power via Substitution (dB)	0.7
Temperature (degrees C)	0.7
Humidity (% RH)	2.5
Voltage (AC) (%)	1
Voltage (DC) (%)	0.7
Near-field Measurement of E-Field (dB)	1.89
Near-field Measurement of H-Field (dB)	2.65

Field Strength Measurements (dB)

Range	MN09 (+/-)
9kHz-30MHz	1.8
30MHz-1GHz 3m	4.6
1GHz-6GHz	5.1
6GHz-40GHz	5.3
40GHz-220GHz	4.9

Conducted Emissions (dB)

Range	MN03 (+/-)
150kHz-30MHz (LISN)	3.2

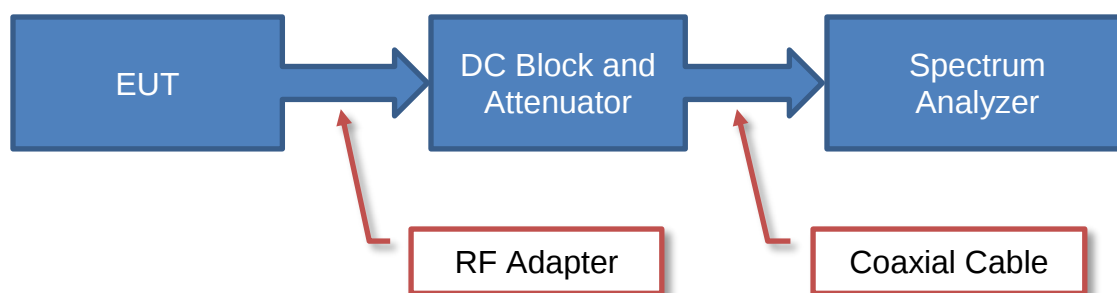
TEST SETUP BLOCK DIAGRAMS

Measurement Bandwidths

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

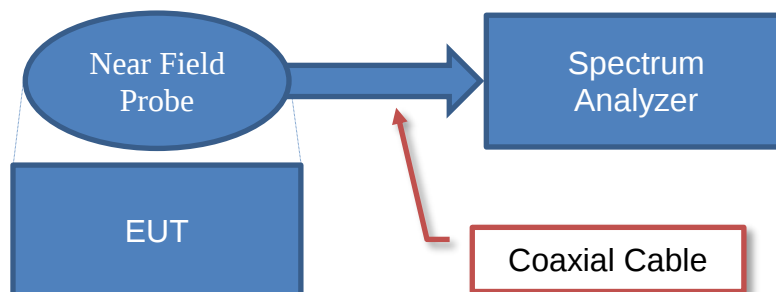
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

Measured Value		Measured Level		Reference Level Offset
71.2	=	42.6	+	28.6

Near Field Test Fixture Measurements

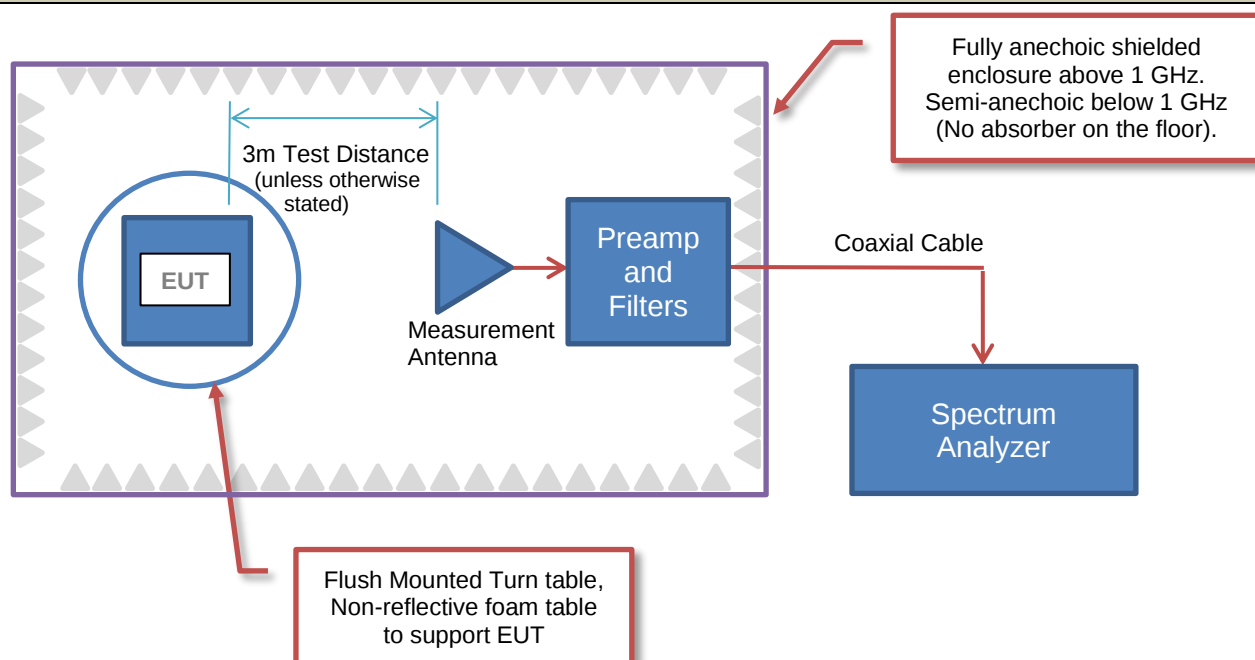


Sample Calculation (logarithmic units)

Measured Value		Measured Level		Reference Level Offset
71.2	=	42.6	+	28.6

TEST SETUP BLOCK DIAGRAMS

Emissions Measurements



Sample Calculation (logarithmic units)

Radiated Emissions:

Measured Level (Amplitude)	Factor			Distance Adjustment Factor	External Attenuation	Field Strength
	Antenna Factor	Cable Factor	Amplifier Gain			
42.6	28.6	3.1	40.8	0.0	0.0	33.5

Conducted Emissions:

Measured Level (Amplitude)	Factor		External Attenuation	Adjusted Level
	Transducer Factor	Cable Factor		
26.7	0.3	0.1	20.0	47.1

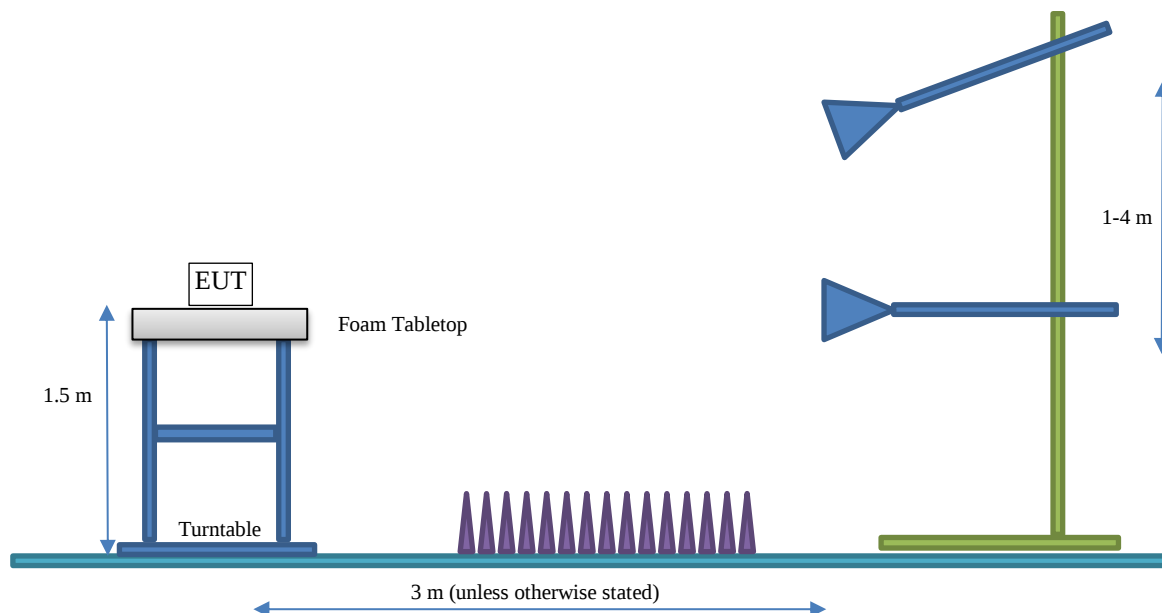
Radiated Power (ERP/EIRP) – Substitution Method:

Measured Level into Substitution Antenna (Amplitude dBm)	Substitution Antenna Factor (dBi)	EIRP to ERP (if applicable)	Measured power (dBm ERP/EIRP)
10.0	6.0	2.15	13.9/16.0

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:	Emerson / Fisher
Address:	6021 Innovation Boulevard
City, State, Zip:	Shakopee, MN 55379
Test Requested By:	Daniel Wolf
EUT:	DVC7K
First Date of Test:	February 16, 2026
Last Date of Test:	February 27, 2026
Receipt Date of Samples:	February 16, 2026
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

The Fisher DVC7K Digital Valve Controller is a control device that communicates via a wired connection to convert input current signal into a pneumatic output pressure. The DVC7K has an optional Bluetooth interface for configuration and maintenance purposes. The Bluetooth is enabled using a chipped-in Bluetooth low energy radio with a PCB trace antenna.

Testing Objective:

To demonstrate compliance of the Bluetooth Low Energy (DTS) radio to FCC 15.247/RSS-247 requirements.

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. The power settings below reflect the maximum power that the EUT is allowed to transmit at during normal operation.

ANTENNA GAIN (dBi)

Type	Provided by:	Frequency Range (MHz)	Gain (dBi)
PCB Trace Antenna, Inverted F	Emerson / Fisher	2402 - 2480	-2.31 dBi

The EUT was tested using the power settings provided by the manufacturer which were based upon:

- ☐ Test software settings
- ☒ Rated power settings

EUT Firmware: FW Version 3.0

SETTINGS FOR ALL TESTS IN THIS REPORT

Modulation Types	Position (if multiple channels)	Power Setting (dBm)
BLE/GFSK 1 Mbps and 2 Mbps	Low Channel, 2402 MHz	5
	Mid Channel, 2442 MHz	5
	High Channel, 2480 MHz	5

CONFIGURATIONS



Configuration EMPM0211-1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
DVC7K	Emerson / Fisher	DVC7K	1117

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
AC/DC Supply 12V	None	CJ-1205	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Power Cable	Yes	6.6m	No	DVC7K	AC/DC Supply 12V
AC/DC Power Cable	No	1m	No	AC/DC Supply	Power Cable
USB to Serial Cable	No	2m	No	DVC7K	Unterminated

Configuration EMPM0211-2

Software/Firmware Running During Test	
Description	Version
Texas Instruments B Tool	1.42.19

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
DVC7K	Emerson / Fisher	DVC7K	1263

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
AC/DC Supply 12V	None	CJ-1205	None
AC/DC Supply 5V	None	WCH-5V-1A-8T-BK-US	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Power Cable	Yes	6.6m	No	DVC7K	AC/DC Supply 12V
AC/DC Power Cable	No	1m	No	AC/DC Supply	Power Cable
USB to Serial Cable	No	2m	No	DVC7K	Unterminated
Power Cable	Yes	6.6m	No	DVC7K	AC/DC Supply 5V
USB to Serial Cable	No	2m	No	DVC7K	Laptop

CONFIGURATIONS



Configuration EMPM0211-4

Software/Firmware Running During Test	
Description	Version
Texas Instruments B Tool	1.42.19

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
DVC7K	Emerson / Fisher	DVC7K	1117

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Power Cable	Yes	6.6m	No	DVC7K	AC/DC Supply 12V
USB to Serial Cable	No	2m	No	DVC7K	Unterminated

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2026-02-16	Powerline 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.
2	2026-02-16	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.
3	2026-02-16	DTS Bandwidth (6 dB)	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	2026-02-16	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	2026-02-16	Occupied Bandwidth (99%)	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	2026-02-16	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.
7	2026-02-16	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.
8	2026-02-16	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.
9	2026-02-27	Radiated Band Edge 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.
10	2026-02-27	Spurious Radiated Emissions	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Gauss Instruments	TDEMI 30M	ARS	2025-05-20	2026-05-20
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	2025-03-30	2026-03-30
Cable - Conducted Cable Assembly	Northwest EMC	MNC, HGN, TYK, VAE	MNCA	2026-02-05	2027-02-05
Power Supply - DC	Agilent	U8002A	TPZ	NCR	NCR

CONFIGURATIONS INVESTIGATED

EMPM0211-4

MODES INVESTIGATED

BLE Transmitting Mid Channel, 2442 MHz, 1 Mbps

POWERLINE CONDUCTED EMISSIONS

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1117	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.7°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mb
Tested By:	Christopher Heintzelman	Job Site:	MN03
Power:	12VDC via 110VAC/60Hz	Configuration:	EMPM0211-4

TEST PARAMETERS

Run #:	8	Line:	Neutral	Add. Ext. Attenuation (dB):	0
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COMMENTS

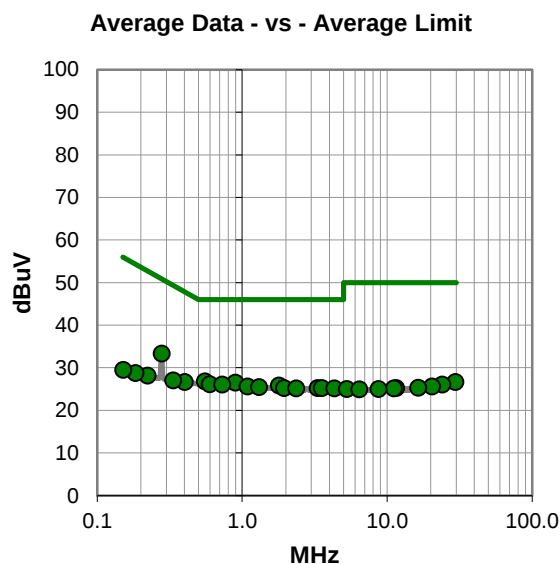
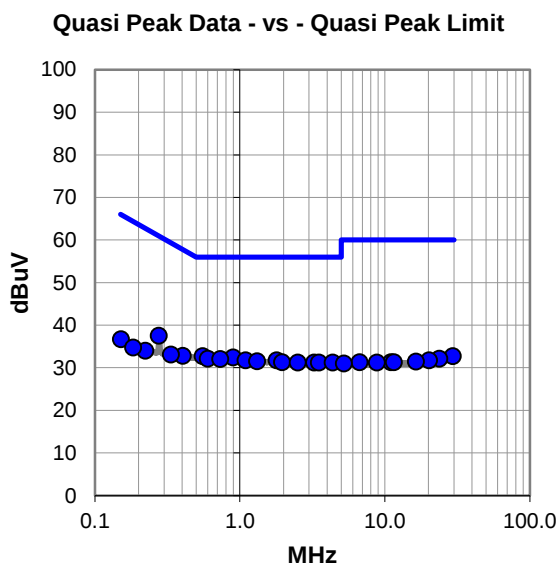
Measuring AC power of DC power supply.

EUT OPERATING MODES

BLE Transmitting Mid Channel, 2442 MHz, 1 Mbps

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #8

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.554	12.4	20.3	32.7	56.0	-23.3
0.277	17.1	20.4	37.5	60.9	-23.4
0.898	12.1	20.3	32.4	56.0	-23.6
0.600	11.8	20.3	32.1	56.0	-23.9
0.731	11.6	20.4	32.0	56.0	-24.0
1.094	11.3	20.4	31.7	56.0	-24.3
1.795	11.3	20.4	31.7	56.0	-24.3
1.317	11.1	20.4	31.5	56.0	-24.5
1.960	10.9	20.4	31.3	56.0	-24.7
2.510	10.8	20.4	31.2	56.0	-24.8
3.250	10.7	20.5	31.2	56.0	-24.8
3.510	10.6	20.6	31.2	56.0	-24.8
4.363	10.6	20.6	31.2	56.0	-24.8
0.405	12.5	20.3	32.8	57.8	-25.0
0.335	12.8	20.3	33.1	59.3	-26.2
29.435	10.0	22.7	32.7	60.0	-27.3
23.827	10.1	22.0	32.1	60.0	-27.9
20.269	10.1	21.6	31.7	60.0	-28.3
16.459	10.0	21.4	31.4	60.0	-28.6
0.223	13.4	20.6	34.0	62.7	-28.7
6.711	10.6	20.7	31.3	60.0	-28.7
11.014	10.3	21.0	31.3	60.0	-28.7
11.586	10.2	21.1	31.3	60.0	-28.7
8.821	10.3	20.9	31.2	60.0	-28.8
5.219	10.4	20.6	31.0	60.0	-29.0

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.278	12.9	20.4	33.3	50.9	-17.6
0.554	6.5	20.3	26.8	46.0	-19.2
0.898	6.2	20.3	26.5	46.0	-19.5
0.597	5.8	20.3	26.1	46.0	-19.9
0.728	5.6	20.4	26.0	46.0	-20.0
1.796	5.4	20.4	25.8	46.0	-20.2
1.090	5.2	20.4	25.6	46.0	-20.4
1.311	5.0	20.4	25.4	46.0	-20.6
1.946	4.8	20.4	25.2	46.0	-20.8
3.319	4.6	20.6	25.2	46.0	-20.8
3.551	4.6	20.6	25.2	46.0	-20.8
2.367	4.7	20.4	25.1	46.0	-20.9
4.322	4.5	20.6	25.1	46.0	-20.9
0.402	6.3	20.3	26.6	47.8	-21.2
0.335	6.7	20.3	27.0	49.3	-22.3
29.555	3.9	22.7	26.6	50.0	-23.4
24.046	3.9	22.1	26.0	50.0	-24.0
20.483	4.0	21.6	25.6	50.0	-24.4
0.223	7.5	20.6	28.1	52.7	-24.6
16.455	3.9	21.4	25.3	50.0	-24.7
11.586	4.1	21.1	25.2	50.0	-24.8
11.151	4.0	21.1	25.1	50.0	-24.9
5.274	4.4	20.6	25.0	50.0	-25.0
8.745	4.1	20.9	25.0	50.0	-25.0
6.441	4.3	20.6	24.9	50.0	-25.1

CONCLUSION

Pass



Tested By

POWERLINE CONDUCTED EMISSIONS

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1117	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.7°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mb
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	12VDC via 110VAC/60Hz	Configuration:	EMPM0211-4

TEST PARAMETERS

Run #:	9	Line:	High Line	Add. Ext. Attenuation (dB):	0
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COMMENTS

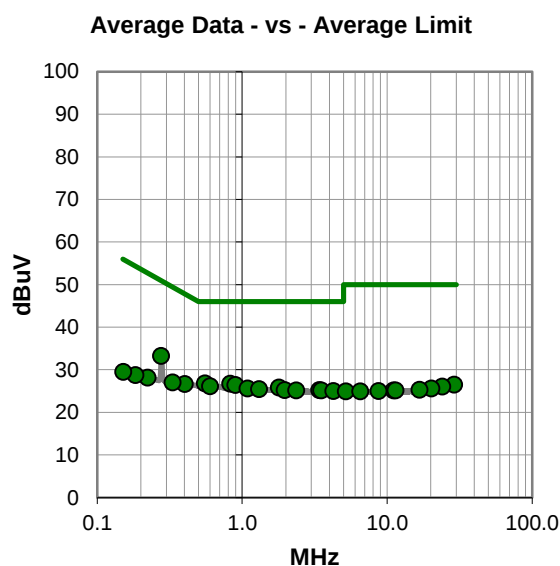
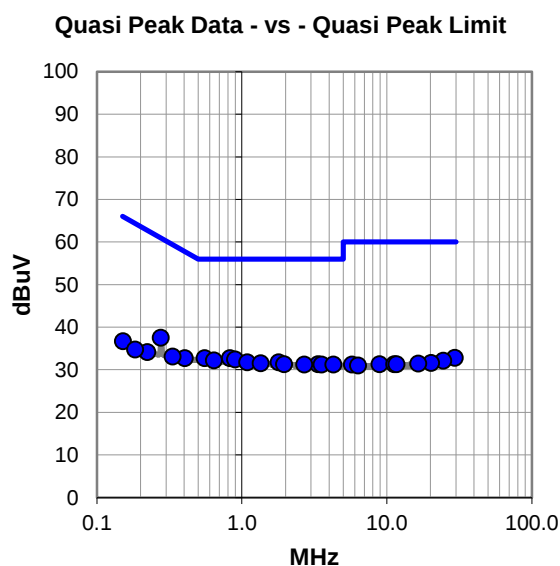
Measuring AC power of DC power supply.

EUT OPERATING MODES

BLE Transmitting Mid Channel, 2442 MHz, 1 Mbps

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #9

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.554	12.4	20.3	32.7	56.0	-23.3
0.829	12.4	20.3	32.7	56.0	-23.3
0.277	17.1	20.4	37.5	60.9	-23.4
0.899	12.1	20.3	32.4	56.0	-23.6
0.641	11.8	20.4	32.2	56.0	-23.8
1.091	11.3	20.4	31.7	56.0	-24.3
1.795	11.3	20.4	31.7	56.0	-24.3
1.349	11.1	20.4	31.5	56.0	-24.5
1.960	10.9	20.4	31.3	56.0	-24.7
3.354	10.7	20.6	31.3	56.0	-24.7
2.694	10.8	20.4	31.2	56.0	-24.8
3.545	10.6	20.6	31.2	56.0	-24.8
4.290	10.6	20.6	31.2	56.0	-24.8
0.403	12.4	20.3	32.7	57.8	-25.1
0.333	12.8	20.3	33.1	59.4	-26.3
29.424	10.1	22.7	32.8	60.0	-27.2
24.514	10.0	22.1	32.1	60.0	-27.9
20.201	10.0	21.6	31.6	60.0	-28.4
0.223	13.5	20.6	34.1	62.7	-28.6
16.504	10.0	21.4	31.4	60.0	-28.6
8.900	10.4	20.9	31.3	60.0	-28.7
11.270	10.2	21.1	31.3	60.0	-28.7
11.674	10.2	21.1	31.3	60.0	-28.7
5.768	10.6	20.6	31.2	60.0	-28.8
6.336	10.4	20.6	31.0	60.0	-29.0

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.277	12.8	20.4	33.2	50.9	-17.7
0.554	6.5	20.3	26.8	46.0	-19.2
0.829	6.4	20.3	26.7	46.0	-19.3
0.898	6.1	20.3	26.4	46.0	-19.6
0.600	5.8	20.3	26.1	46.0	-19.9
1.795	5.4	20.4	25.8	46.0	-20.2
1.090	5.2	20.4	25.6	46.0	-20.4
1.311	5.0	20.4	25.4	46.0	-20.6
1.972	4.8	20.4	25.2	46.0	-20.8
3.408	4.6	20.6	25.2	46.0	-20.8
2.367	4.7	20.4	25.1	46.0	-20.9
3.508	4.5	20.6	25.1	46.0	-20.9
4.274	4.4	20.6	25.0	46.0	-21.0
0.402	6.3	20.3	26.6	47.8	-21.2
0.332	6.7	20.3	27.0	49.4	-22.4
29.102	3.8	22.7	26.5	50.0	-23.5
24.070	3.9	22.1	26.0	50.0	-24.0
20.202	4.0	21.6	25.6	50.0	-24.4
0.223	7.5	20.6	28.1	52.7	-24.6
16.739	3.9	21.4	25.3	50.0	-24.7
11.079	4.1	21.0	25.1	50.0	-24.9
11.439	4.0	21.1	25.1	50.0	-24.9
8.745	4.1	20.9	25.0	50.0	-25.0
5.203	4.3	20.6	24.9	50.0	-25.1
6.549	4.3	20.6	24.9	50.0	-25.1

CONCLUSION

Pass



Tested By

OCCUPIED BANDWIDTH (99%)

TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation.

Per ANSI C63.10:2020, 6.9.3, the spectrum analyzer was configured as follows:

Sweep time: Auto

Resolution Bandwidth: 1% to 5% of the OBW

Video Bandwidth: $\geq 3 \times \text{RBW}$

Trace: Max Hold

Span: Large enough to capture all products of the modulation process, including the emission skirts.

A sample detector was used unless the device was not able to be operated in a continuous transmit mode, in which case a peak detector was used.

The spectrum analyzer occupied bandwidth measurement function was used to sum the power of the transmission in linear terms to obtain the 99% bandwidth.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

OCCUPIED BANDWIDTH (99%)

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.5°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	12VDC	Configuration:	EMPM0211-2

COMMENTS

Reference level offset includes 20 dB attenuator, DC Block, SMA cable, SMA female/female adapter, secondary SMA cable, and 3.4 dB of client patch cable loss as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

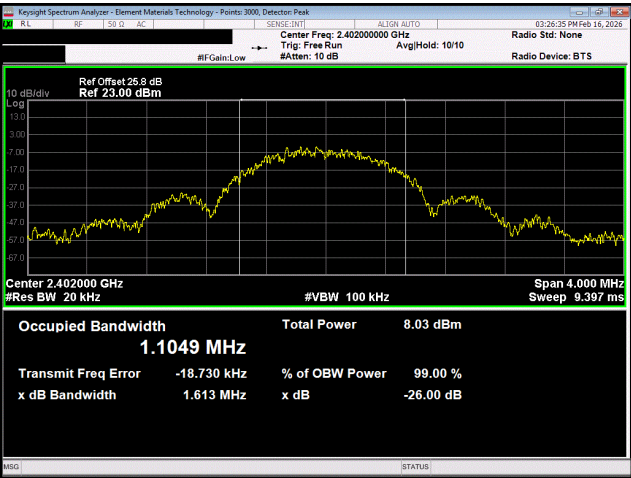


Tested By

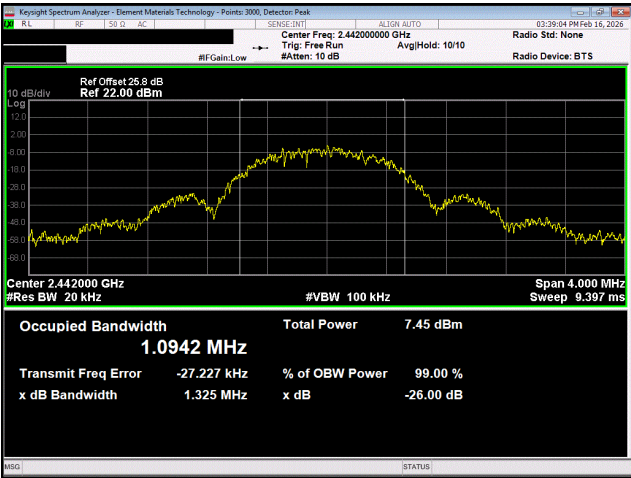
TEST RESULTS

		Value	Limit	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	1.105 MHz	N/A	N/A
	Mid Channel, 2442 MHz	1.094 MHz	N/A	N/A
	High Channel, 2480 MHz	1.094 MHz	N/A	N/A
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	2.091 MHz	N/A	N/A
	Mid Channel, 2442 MHz	2.113 MHz	N/A	N/A
	High Channel, 2480 MHz	2.132 MHz	N/A	N/A

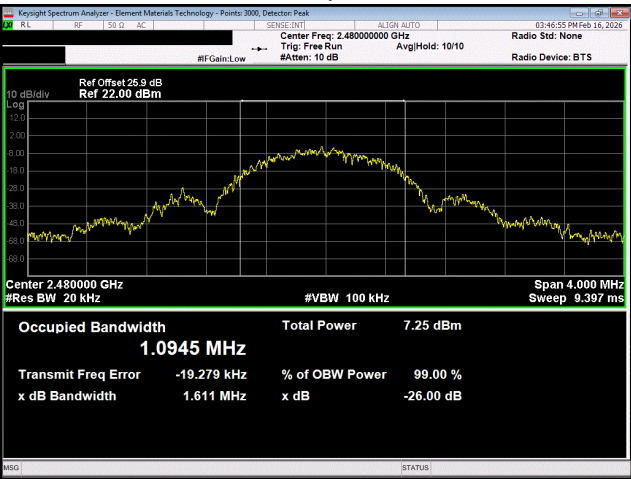
OCCUPIED BANDWIDTH (99%)



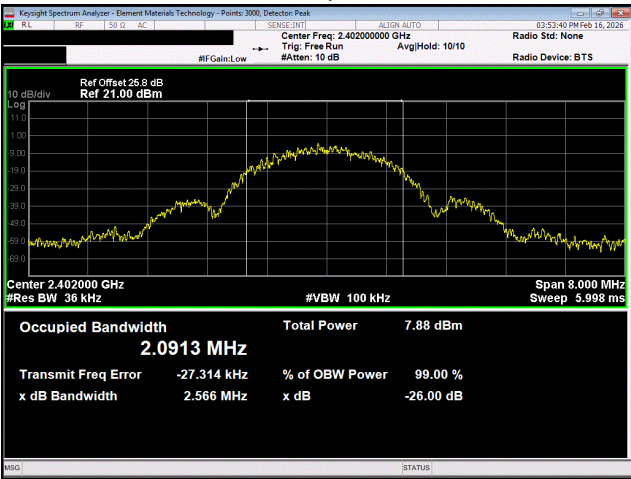
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

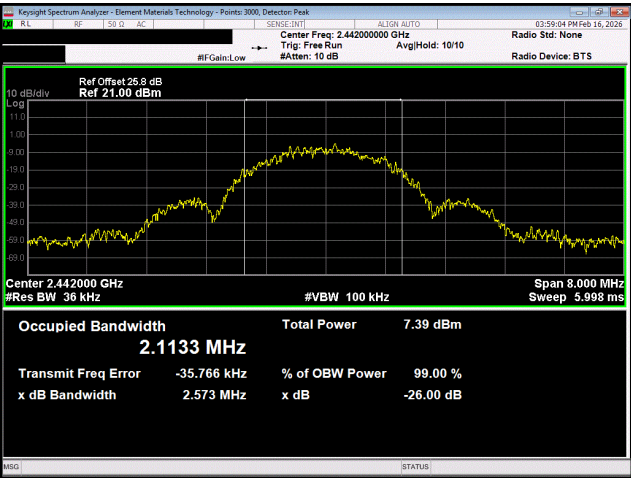


BLE/GFSK 1 Mbps
High Channel, 2480 MHz

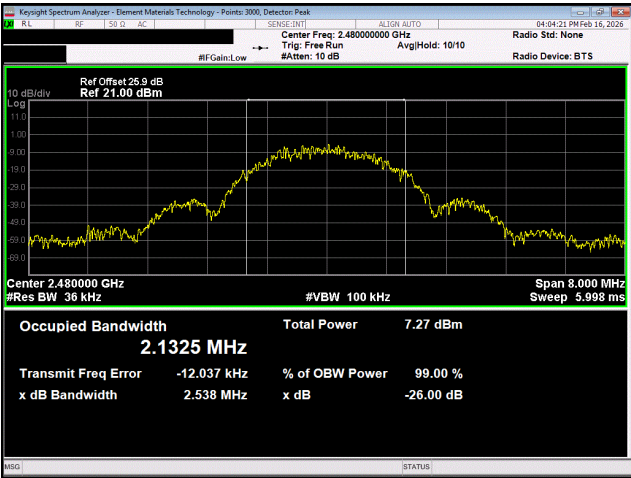


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

OCCUPIED BANDWIDTH (99%)



BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

DUTY CYCLE



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 test software provided for operation in a fixed, single channel mode allows the EUT to operate continuously at 100% Duty Cycle.

DTS BANDWIDTH (6 dB)

TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

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

The 6dB DTS bandwidth was measured using the following analyzer settings:

Detector: Peak

Sweep time: Auto

Resolution Bandwidth: 1% to 5% of the OBW but not less than 100 kHz

Video Bandwidth: $\geq 3 * RBW$

Trace: Max Hold

Span: Large enough to capture all products of the modulation process, including the emission skirts.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

DTS BANDWIDTH (6 dB)

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.6°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	12VDC	Configuration:	EMPM0211-2

COMMENTS

Reference level offset includes 20 dB attenuator, DC Block, SMA cable, SMA female/female adapter, secondary SMA cable, and 3.4 dB of client patch cable loss as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

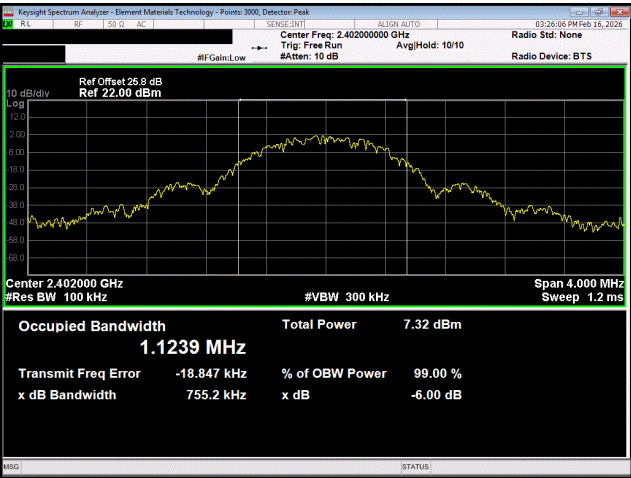


Tested By

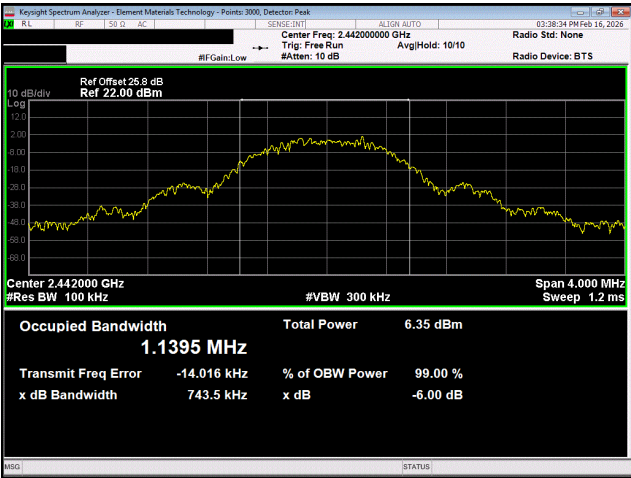
TEST RESULTS

		Value	Limit	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	755.164 kHz	≥ 500 kHz	Pass
	Mid Channel, 2442 MHz	743.527 kHz	≥ 500 kHz	Pass
	High Channel, 2480 MHz	695.885 kHz	≥ 500 kHz	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	1.293 MHz	≥ 500 kHz	Pass
	Mid Channel, 2442 MHz	1.501 MHz	≥ 500 kHz	Pass
	High Channel, 2480 MHz	1.232 MHz	≥ 500 kHz	Pass

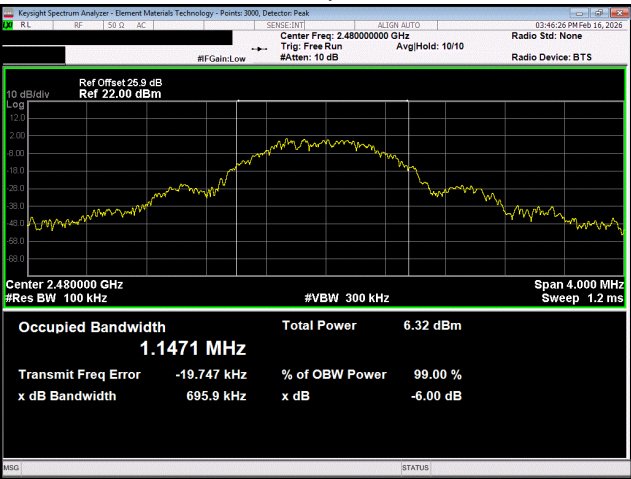
DTS BANDWIDTH (6 dB)



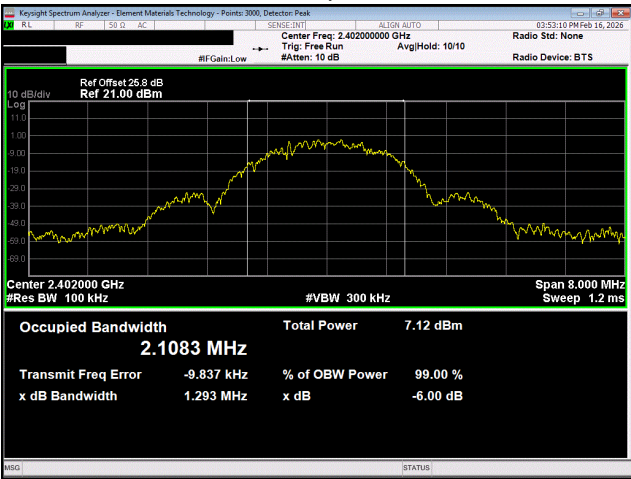
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

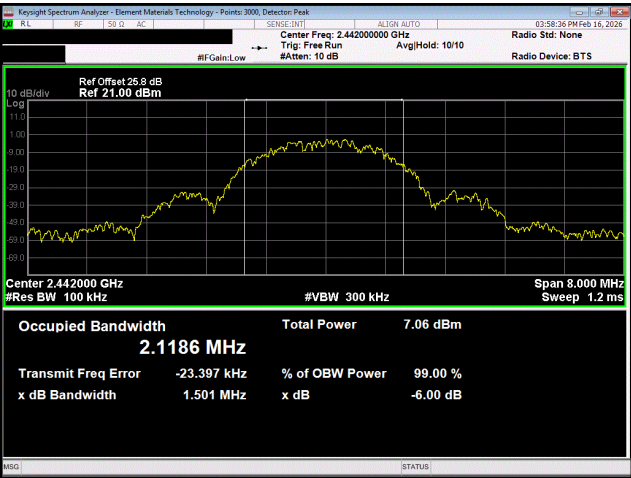


BLE/GFSK 1 Mbps
High Channel, 2480 MHz

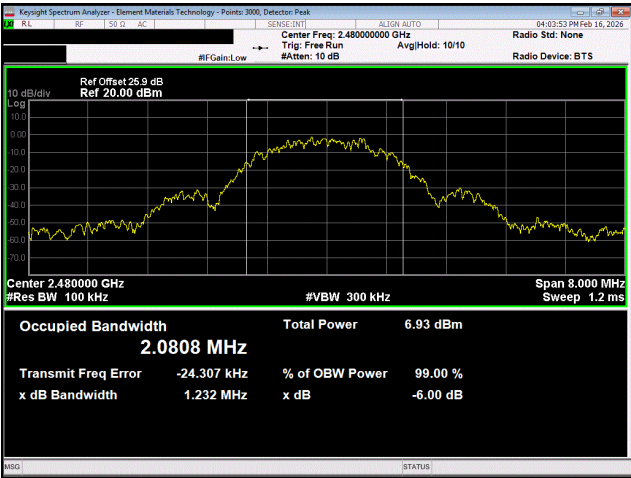


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

DTS BANDWIDTH (6 dB)



BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

OUTPUT POWER

TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

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 C63.10:2020 Section 11.9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Analyzer settings:

Detector: Peak

Sweep time: Auto

Resolution Bandwidth: $\geq$ DTS bandwidth

Video Bandwidth: $\geq 3 * \text{RBW}$

Trace: Max Hold

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

OUTPUT POWER

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.5°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	12VDC	Configuration:	EMPM0211-2

COMMENTS

Power setting was 5 dBm. Reference level offset includes 20 dB attenuator, DC Block, SMA cable, SMA female/female adapter, secondary SMA cable, and 3.4 dB of cable losses from solder, connectors, impedance mismatch, and cables as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

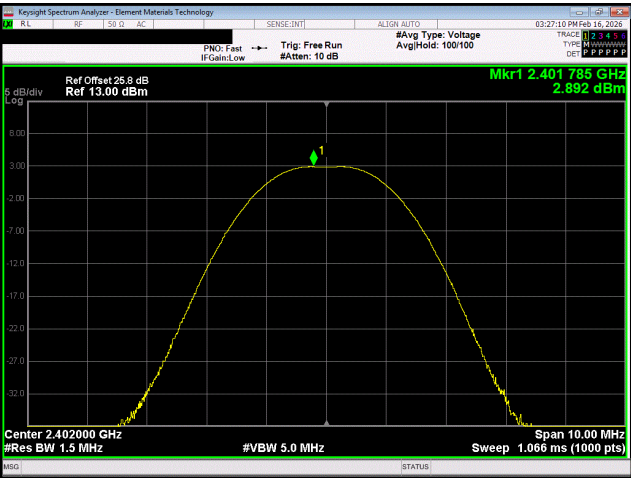


Tested By

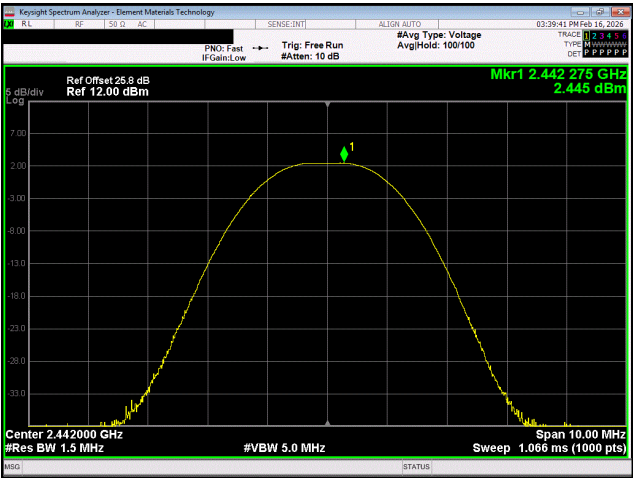
TEST RESULTS

		Out Pwr (dBm)	Limit (dBm)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	2.892	30	Pass
	Mid Channel, 2442 MHz	2.445	30	Pass
	High Channel, 2480 MHz	2.164	30	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	2.917	30	Pass
	Mid Channel, 2442 MHz	2.48	30	Pass
	High Channel, 2480 MHz	2.178	30	Pass

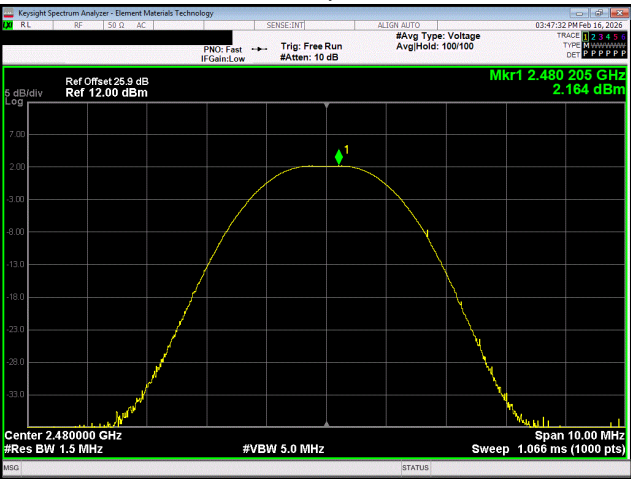
OUTPUT POWER



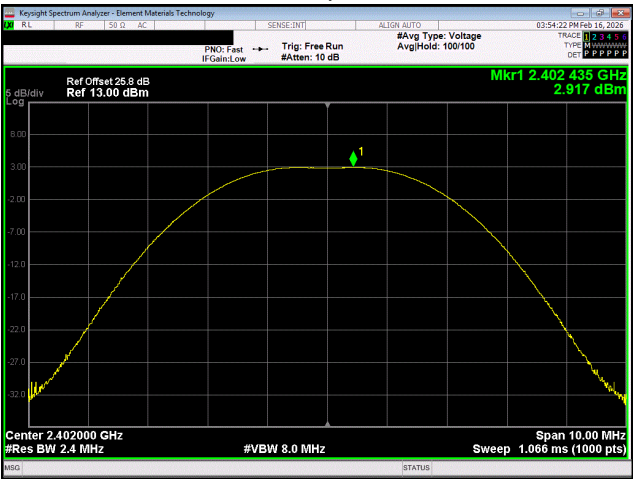
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

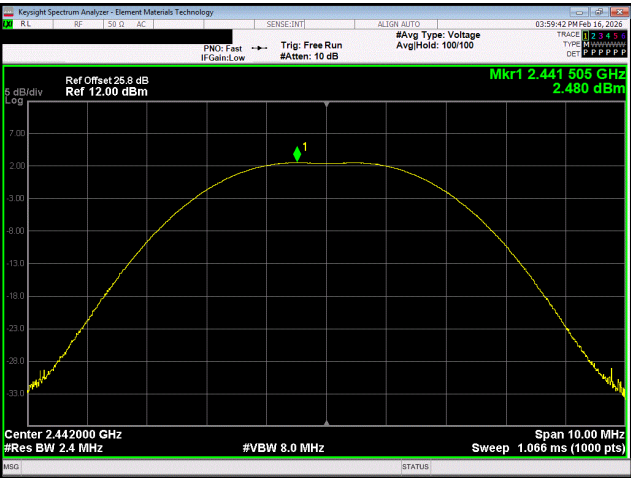


BLE/GFSK 1 Mbps
High Channel, 2480 MHz

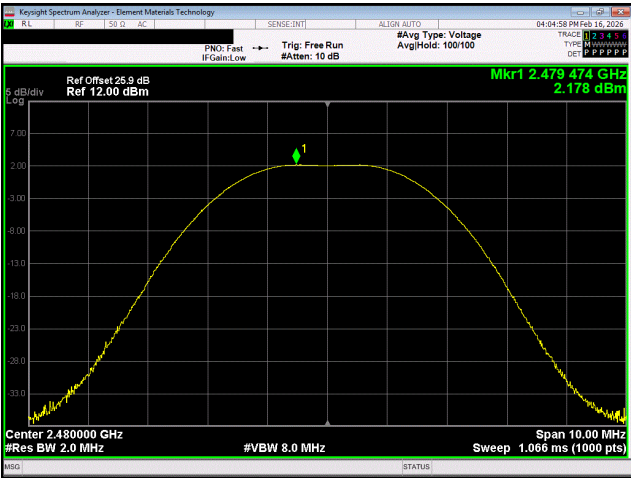


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

OUTPUT POWER



BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

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 C63.10:2020 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)

Analyzer settings:
Detector: Peak
Sweep time: Auto
Resolution Bandwidth: $\geq$ DTS bandwidth
Video Bandwidth: $\geq 3 * \text{RBW}$
Trace: Max Hold

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.5°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	12VDC	Configuration:	EMPM0211-2

COMMENTS

Reference level offset includes 20 dB attenuator, DC Block, SMA cable, SMA female/female adapter, secondary SMA cable, and 3.4 dB of client patch cable losses from solder, connectors, impedance mismatch, and cables as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
BLE/GFSK 1 Mbps					
Low Channel, 2402 MHz	2.892	-2.31	0.58	36	Pass
Mid Channel, 2442 MHz	2.445	-2.31	0.14	36	Pass
High Channel, 2480 MHz	2.164	-2.31	-0.15	36	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	2.917	-2.31	0.61	36	Pass
Mid Channel, 2442 MHz	2.48	-2.31	0.17	36	Pass
High Channel, 2480 MHz	2.178	-2.31	-0.13	36	Pass

POWER SPECTRAL DENSITY

TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

POWER SPECTRAL DENSITY

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.4°C
Attendees:	Stacy Lukas	Relative Humidity:	26.1%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	110VAC/60Hz	Configuration:	EMPM0211-2

COMMENTS

Reference level offset includes 20 dB attenuator, DC Block, SMA cable, SMA female/female adapter, secondary SMA cable, and 3.4 dB of client patch cable losses from solder, connectors, impedance mismatch, and cables as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

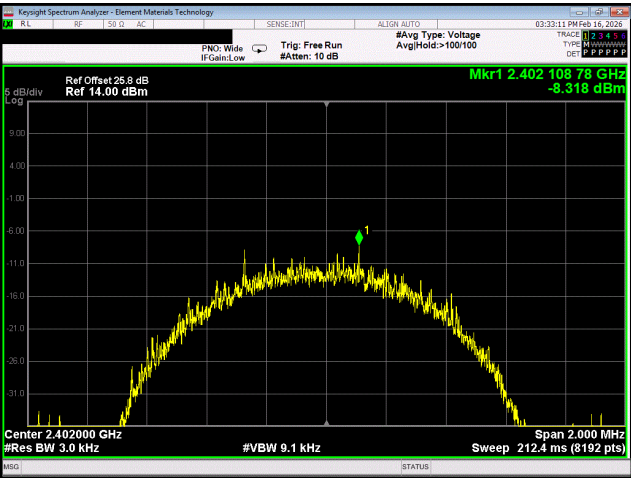


Tested By

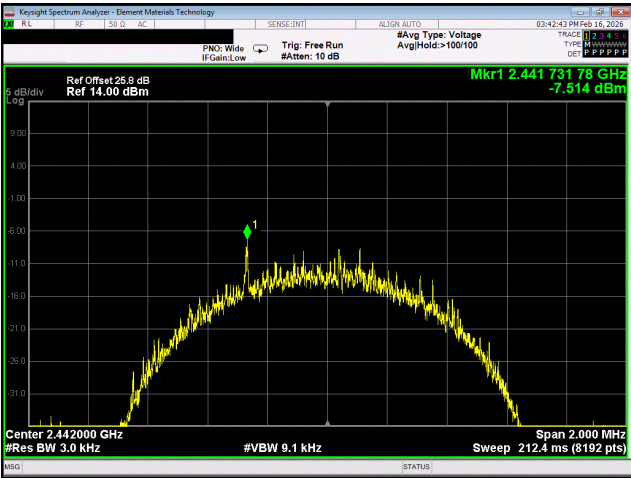
TEST RESULTS

		Value dBm/3kHz	Limit ≤ (dBm/3kHz)	Results
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	-8.318	8	Pass
	Mid Channel, 2442 MHz	-7.514	8	Pass
	High Channel, 2480 MHz	-8.68	8	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	-10.278	8	Pass
	Mid Channel, 2442 MHz	-11.31	8	Pass
	High Channel, 2480 MHz	-11.771	8	Pass

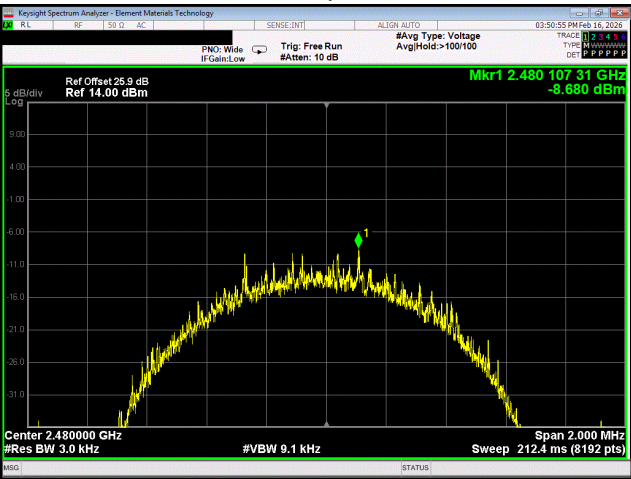
POWER SPECTRAL DENSITY



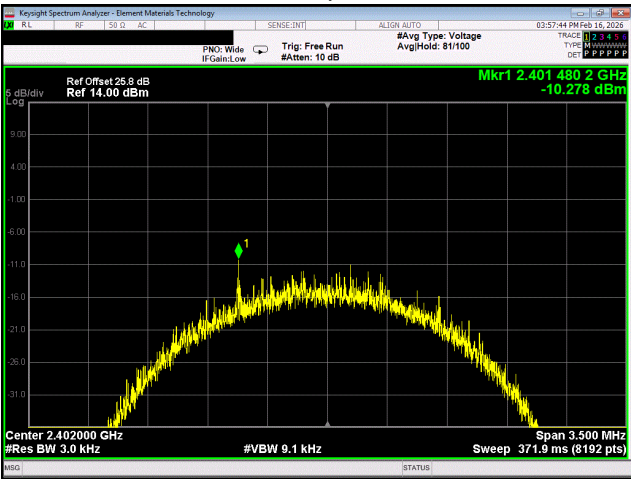
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

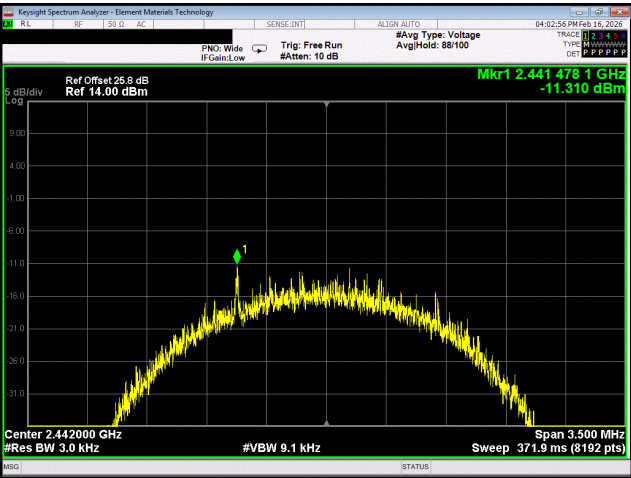


BLE/GFSK 1 Mbps
High Channel, 2480 MHz

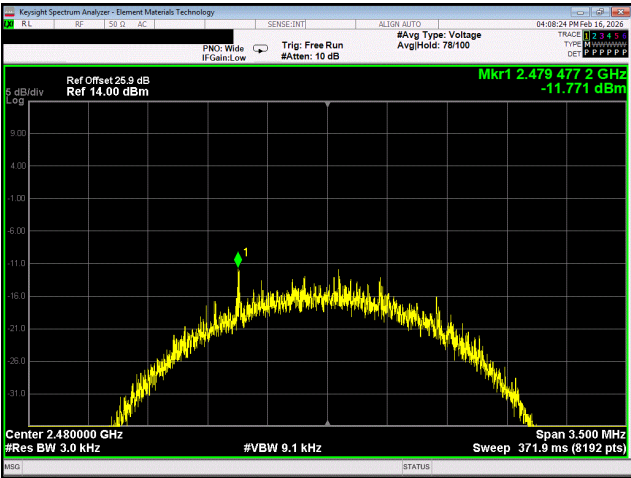


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

POWER SPECTRAL DENSITY



BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

BAND EDGE COMPLIANCE

TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge. The analyzer screen captures for this test show an example of the emission mask for the test mode also used during the radiated spurious emissions at the restricted band edges test.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

BAND EDGE COMPLIANCE

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.5°C
Attendees:	Stacy Lukas	Relative Humidity:	26%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	110VAC/60Hz	Configuration:	EMPM0211-2

COMMENTS

Reference level offset includes 20 dB attenuator, DC Block, SMA cable, SMA female/female adapter, secondary SMA cable, and 3.4 dB of client patch cable loss as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

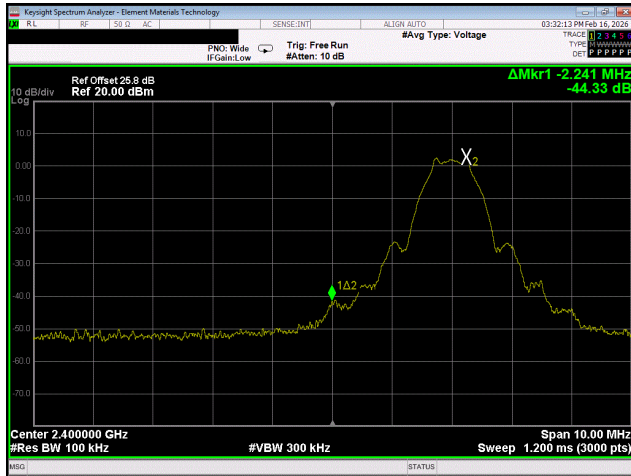


Tested By

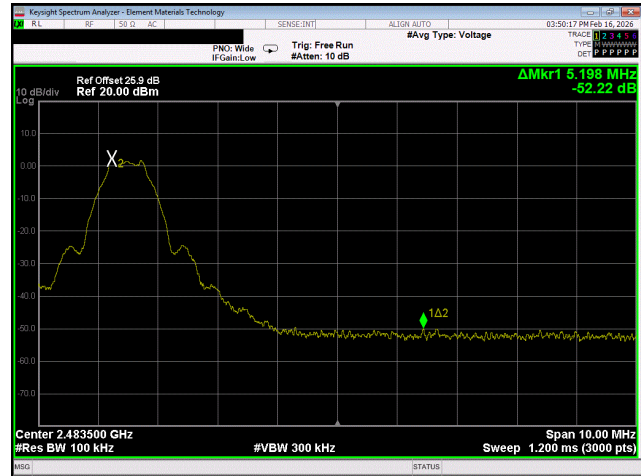
TEST RESULTS

		Value (dBc)	Limit ≤ (dBc)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	-44.33	-20	Pass
	High Channel, 2480 MHz	-52.22	-20	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	-30.75	-20	Pass
	High Channel, 2480 MHz	-49.58	-20	Pass

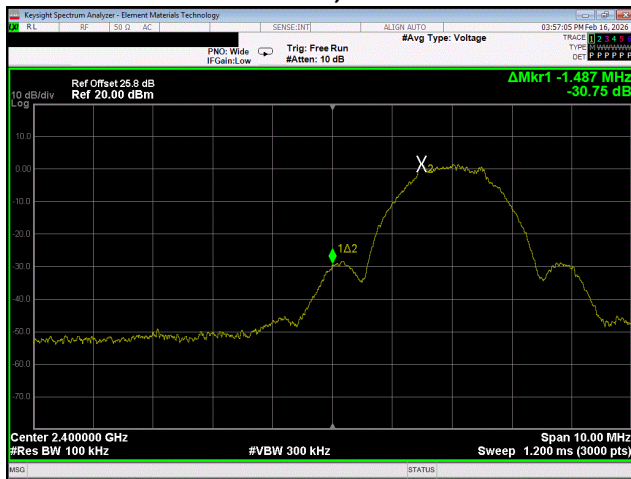
BAND EDGE COMPLIANCE



BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
Low Channel, 2402 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

SPURIOUS CONDUCTED EMISSIONS

TEST DESCRIPTION

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.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the fundamental was measured with a 100 kHz resolution bandwidth and the highest value was recorded. The rest of the spectrum was then measured with a 100 kHz resolution bandwidth and the highest value was found. The difference between the value found on the fundamental and the rest of the spectrum was compared against the limit to determine compliance.

The reference level offset for the fundamental screen capture was based on a measured value of the loss between the spectrum analyzer and the EUT which was verified at the time of test. The remaining screen capture(s) use an internal transducer factor on the analyzer to correct the displayed trace based on the cable loss over frequency. The reference level offset for the additional screen capture(s) is then based on the expected attenuator value and any other losses.

Fundamental Offset = Ref Lvl Offset showing measured composite factor of all losses

Remaining Screen capture(s) Offset = "Internal" cable loss factor not shown on screen capture + Ref Lvl Offset showing expected attenuator value and any other losses

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFM	2025-06-09	2026-06-09
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	2025-09-03	2026-09-03
Block - DC	Fairview Microwave	SD3379	ANK	2025-06-03	2026-06-03
Attenuator	S.M. Electronics	SA26B-20	RFW	2026-02-04	2027-02-04
Generator - Signal	Keysight	N5182B	TEV	2024-05-06	2027-05-06

SPURIOUS CONDUCTED EMISSIONS

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1263	Date:	2026-02-16
Customer:	Emerson / Fisher	Temperature:	23.5°C
Attendees:	Stacy Lukas	Relative Humidity:	26%
Customer Project:	None	Bar. Pressure (PMSL):	1011 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	12VDC	Configuration:	EMPM0211-2

COMMENTS

Reference level offset includes 20 dB attenuator and 3.4 dB of client patch cable losses from solder, connectors, impedance mismatch, and cables as declared by the customer.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

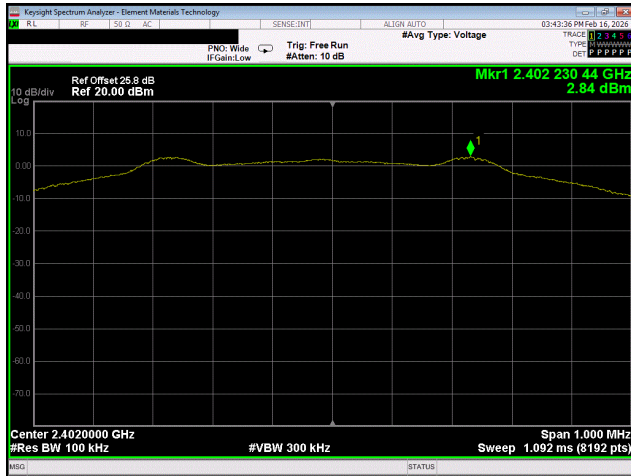


Tested By

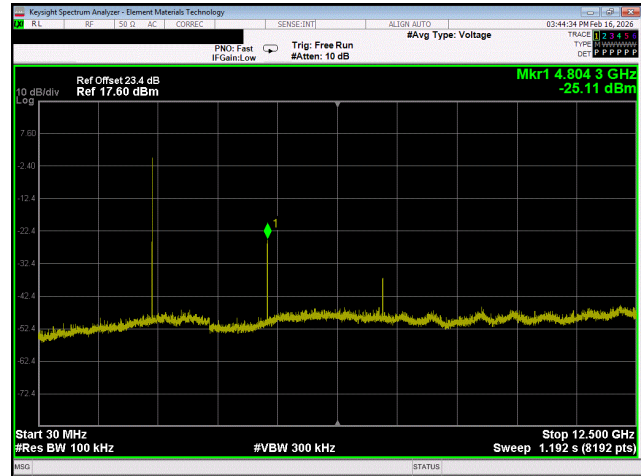
TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
BLE/GFSK 1 Mbps					
Low Channel, 2402 MHz	Fundamental	2402.23	N/A	N/A	N/A
	30 MHz - 12.5 GHz	4804.25	-27.95	-20	Pass
	12.5 GHz - 25 GHz	24923.7	-36.45	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2441.73	N/A	N/A	N/A
	30 MHz - 12.5 GHz	4883.42	-28.44	-20	Pass
	12.5 GHz - 25 GHz	24578.81	-35.82	-20	Pass
High Channel, 2480 MHz	Fundamental	2479.73	N/A	N/A	N/A
	30 MHz - 12.5 GHz	4959.54	-29.39	-20	Pass
	12.5 GHz - 25 GHz	24877.91	-35.66	-20	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	Fundamental	2401.97	N/A	N/A	N/A
	30 MHz - 12.5 GHz	4804.25	-28.29	-20	Pass
	12.5 GHz - 25 GHz	24964.9	-34.09	-20	Pass
Mid Channel, 2442 MHz	Fundamental	2441.48	N/A	N/A	N/A
	30 MHz - 12.5 GHz	4883.42	-27.97	-20	Pass
	12.5 GHz - 25 GHz	24946.59	-33.08	-20	Pass
High Channel, 2480 MHz	Fundamental	2479.97	N/A	N/A	N/A
	30 MHz - 12.5 GHz	4959.54	-29.33	-20	Pass
	12.5 GHz - 25 GHz	24925.22	-34.48	-20	Pass

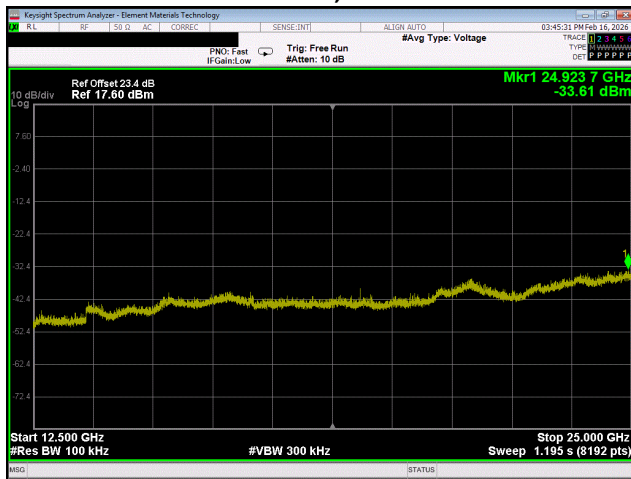
SPURIOUS CONDUCTED EMISSIONS



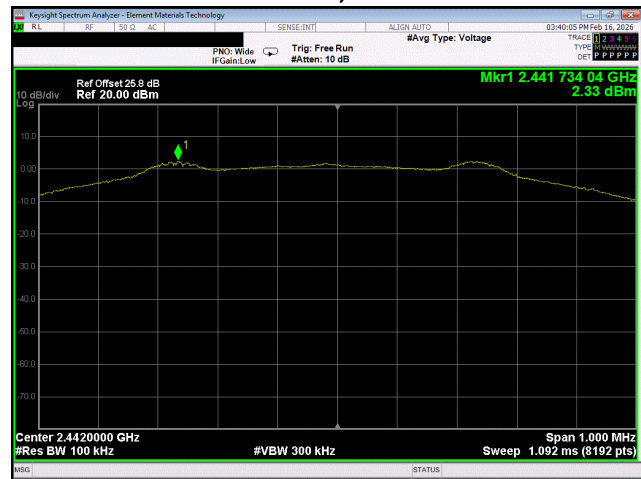
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



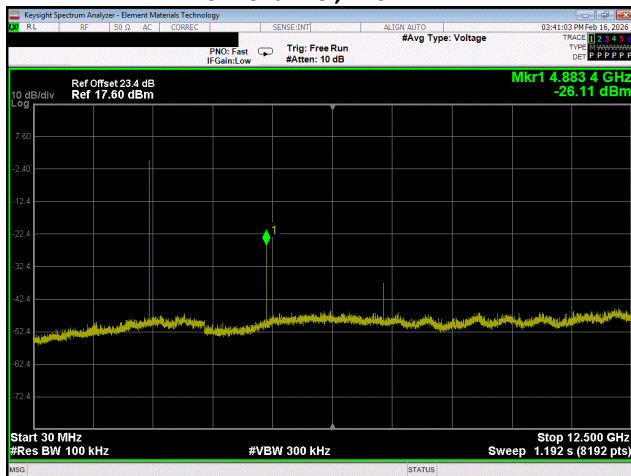
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



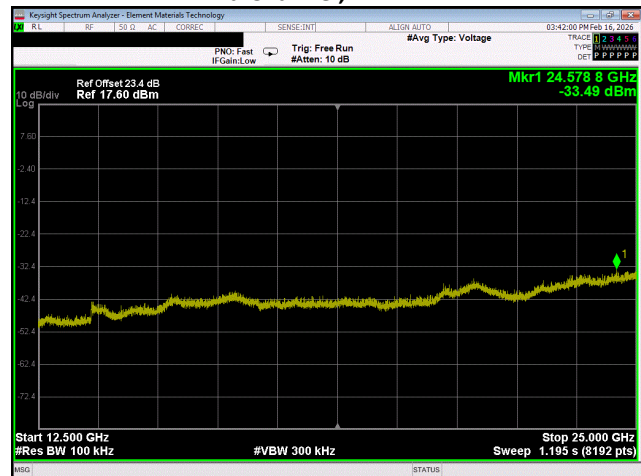
BLE/GFSK 1 Mbps
Low Channel, 2402 MHz



BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

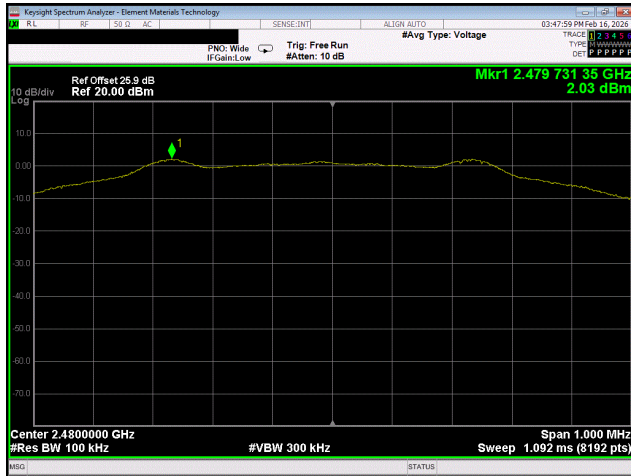


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

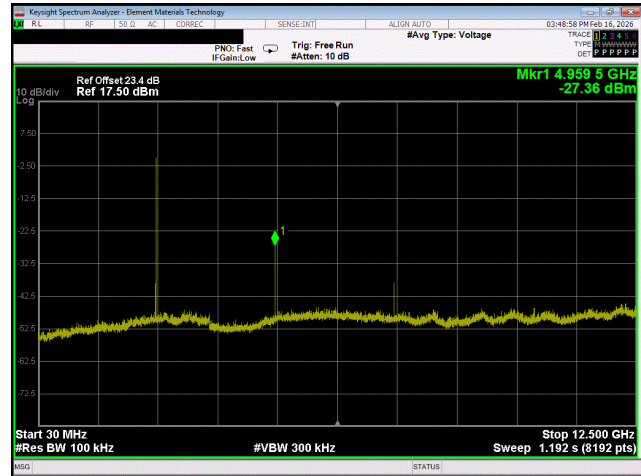


BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz

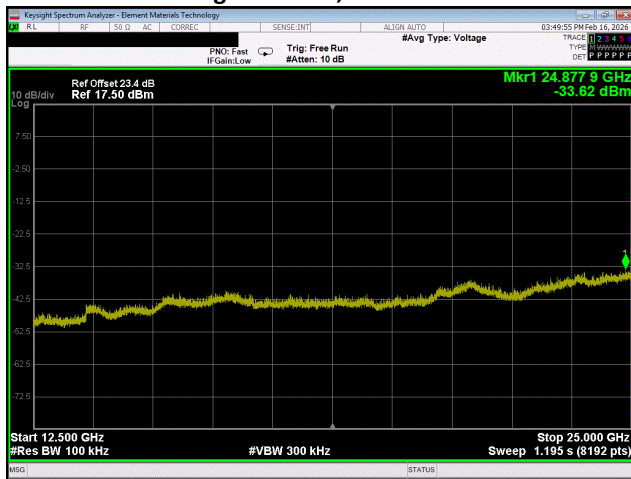
SPURIOUS CONDUCTED EMISSIONS



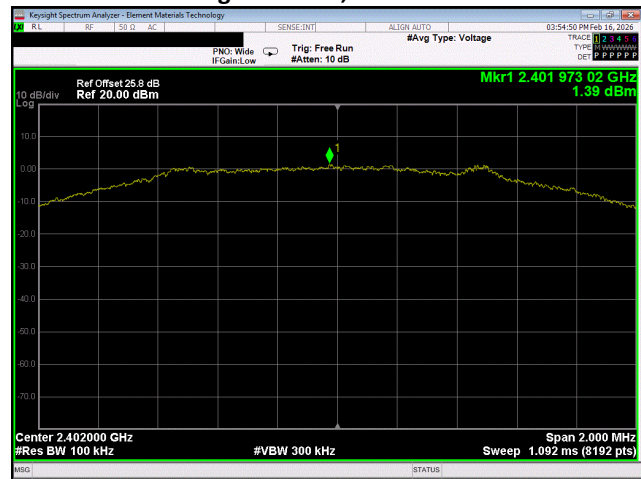
BLE/GFSK 1 Mbps
Low Channel, 2480 MHz



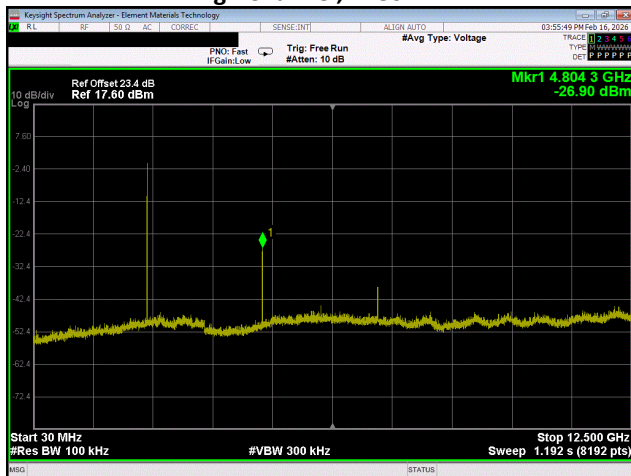
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



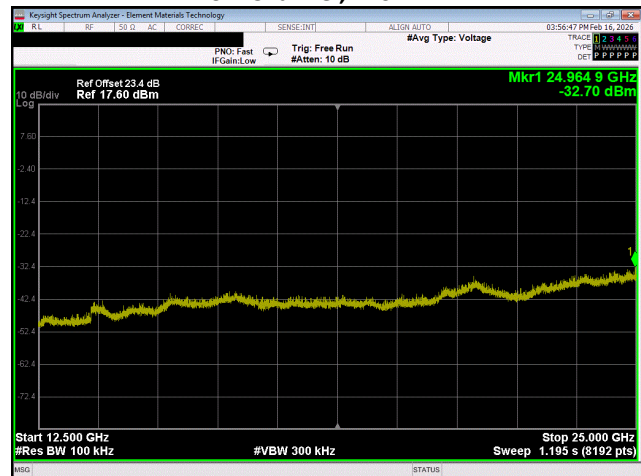
BLE/GFSK 1 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

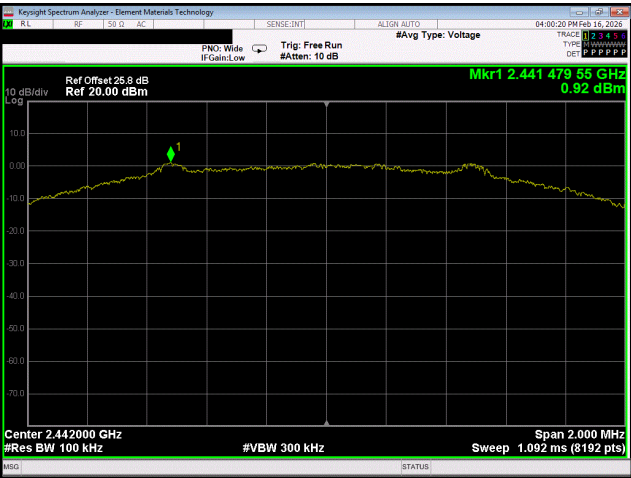


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

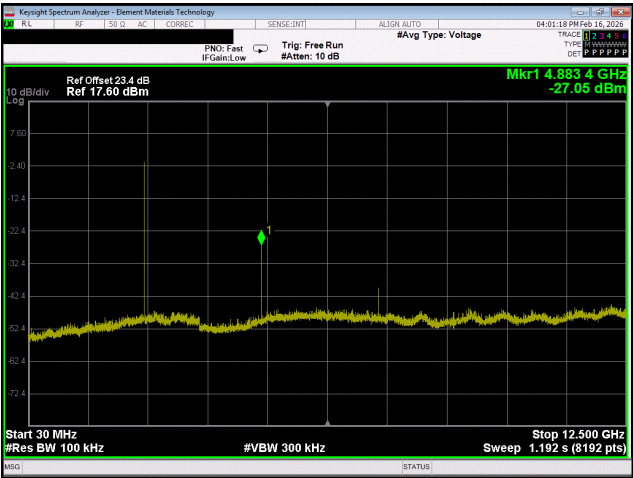


BLE/GFSK 2 Mbps
Low Channel, 2402 MHz

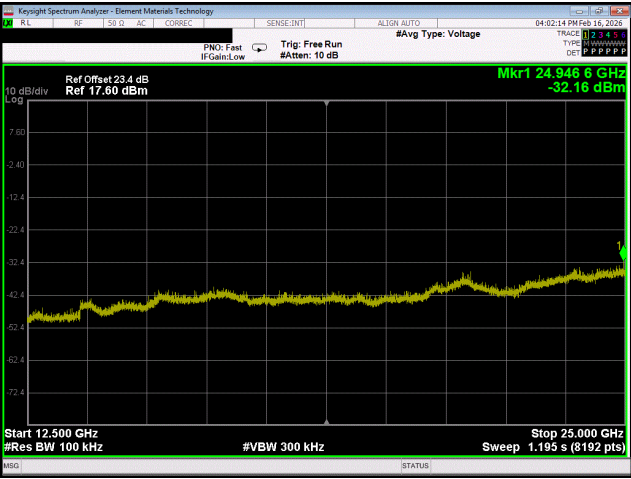
SPURIOUS CONDUCTED EMISSIONS



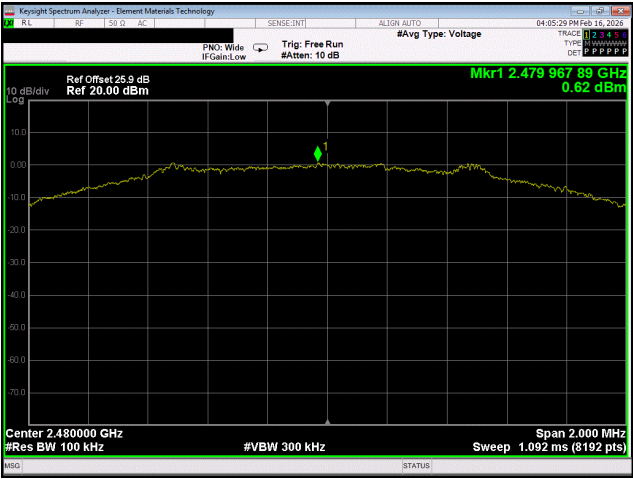
BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz



BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz

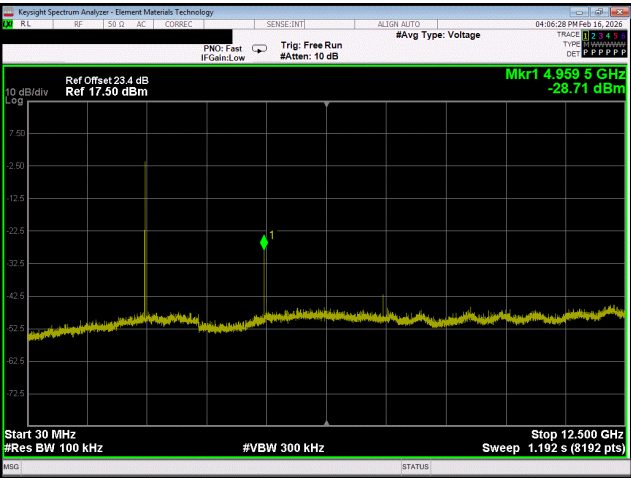


BLE/GFSK 2 Mbps
Mid Channel, 2442 MHz

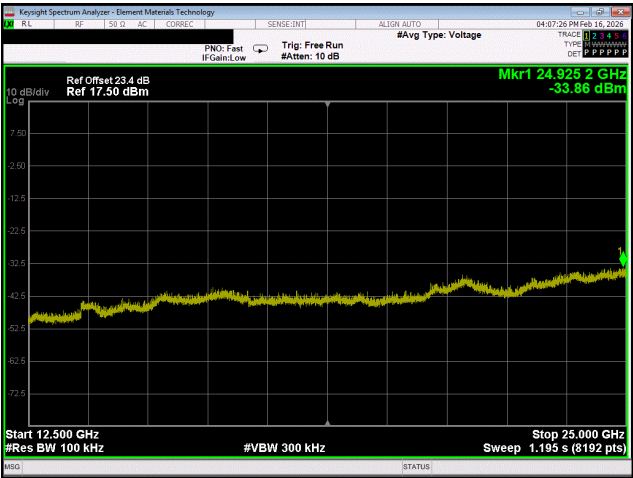


BLE/GFSK 2 Mbps
High Channel, 2480 MHz

SPURIOUS CONDUCTED EMISSIONS



BLE/GFSK 2 Mbps
High Channel, 2480 MHz



BLE/GFSK 2 Mbps
High Channel, 2480 MHz

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE

TEST DESCRIPTION

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.

The measurement was made in a radiated configuration of the fundamental with the carrier fully maximized for its highest radiated power.

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as shown in the data sheets.

The emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and attenuation were used (if needed) for this test to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

PK = Peak Detector
AV = RMS Detector

Measurements within 2 MHz of the allowable band may have been taken using the integration method from ANSI C63.10 clause 11.12.3. This procedure uses the channel power feature of the spectrum analyzer to integrate the power of the emission within a 1 MHz bandwidth.

Where the radio test software does not provide for a duty cycle at continuous transmit conditions (> 98%) and the RMS (power average) measurements were made across the on and off times of the EUT transmissions, a duty cycle correction is added to the measurements using the formula of $10 \cdot \log(1/dc)$.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2025-09-29	2026-09-29
Antenna - Double Ridge	ETS Lindgren	3115	AJQ	2025-02-05	2027-02-05
Cable	Element	Double Ridge Guide Horn Cables	MNV	2025-09-11	2026-09-11
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2026-01-29	2027-01-29
Attenuator	Coaxicom	3910-20	AXY	2025-09-11	2026-09-11

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1117	Date:	2026-02-27
Customer:	Emerson / Fisher	Temperature:	24°C
Attendees:	Stacy Lukas	Relative Humidity:	22.7%
Customer Project:	None	Bar. Pressure (PMSL):	1004 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN09
Power:	12VDC via supply at 120VAC/60Hz	Configuration:	EMPM0211-1

COMMENTS

Power setting 5dBm. Test mode is 100% duty cycle.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

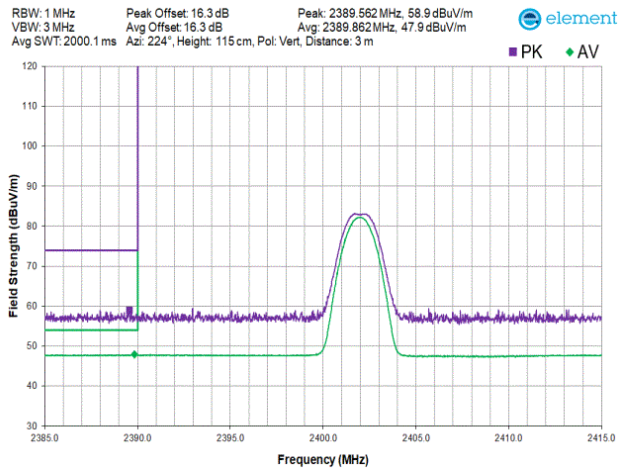
Pass

Tested By

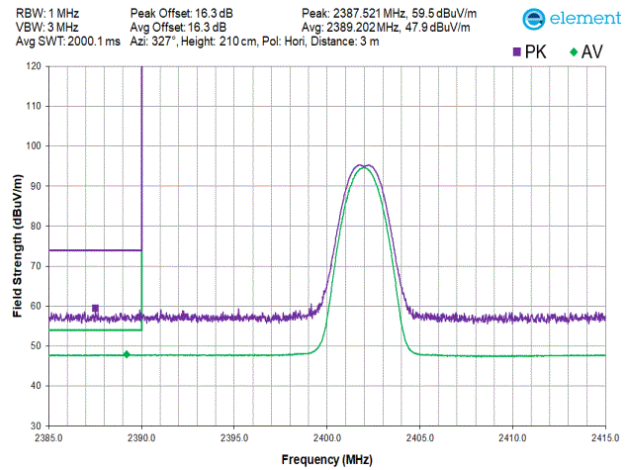
TEST RESULTS

	Frequency (MHz)	PK (dBuV/m) AV (dBuV/m)	PK Lim (dBuV/m) AV Lim (dBuV/m)	Worst Margin (dB)	Pol. (H/V)	EUT Orientation	Results				
BLE/GFSK 1 Mbps											
Low Channel, 2402 MHz	2389.562	58.9	74.0	-6.1	V	Vertical	Pass				
	2389.862	47.9	54.0								
High Channel, 2480 MHz	2387.521	59.5	74.0	-6.1	H	Vertical	Pass				
	2389.202	47.9	54.0								
	2486.244	59.5	74.0	-5.5	H	Vertical	Pass				
	2483.503	48.5	54.0								
	2484.328	59.6	74.0	-5.8	V	Vertical	Pass				
	2483.698	48.2	54.0								
	2483.908	59.5	74.0	-5.9	V	Horizontal	Pass				
	2483.608	48.1	54.0								
	2488.090	59.3	74.0	-5.9	H	Horizontal	Pass				
	2483.938	48.1	54.0								
	2484.768	59.6	74.0	-5.9	H	on Side	Pass				
	2486.679	48.1	54.0								
	2484.888	60.2	74.0	-5.9	V	on Side	Pass				
	2483.588	48.1	54.0								
BLE/GFSK 2 Mbps											
Low Channel, 2402 MHz	2387.071	58.7	74.0	-6.1	H	Vertical	Pass				
	2385.510	47.9	54.0								
	2389.382	58.9	74.0					-6.1	V	Vertical	Pass
	2386.951	47.9	54.0								
High Channel, 2480 MHz	2486.804	60.2	74.0	-5.9	V	Vertical	Pass				
	2486.469	48.1	54.0								
	2486.309	59.9	74.0					-5.5	H	Vertical	Pass
	2483.508	48.5	54.0								

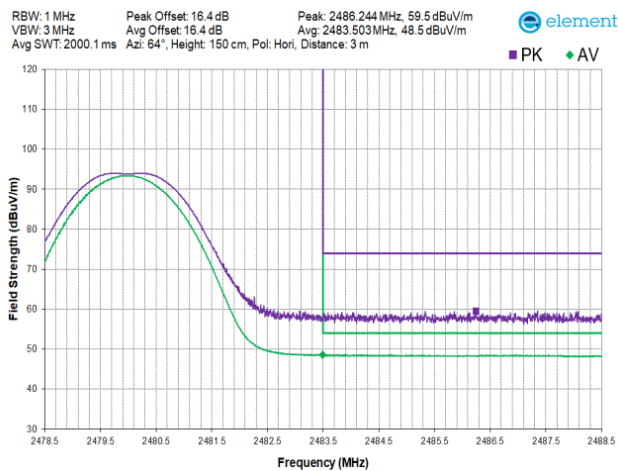
RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



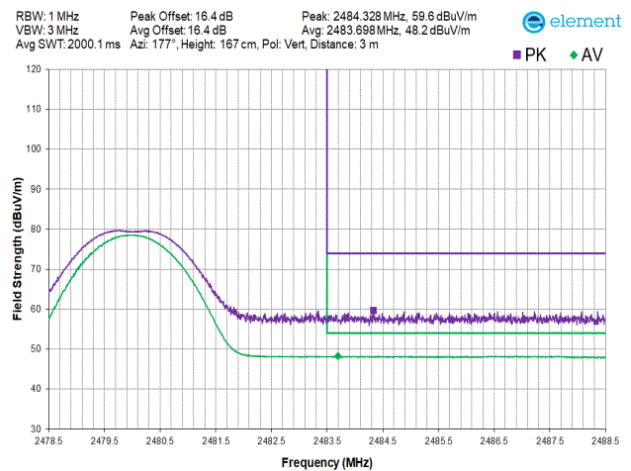
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



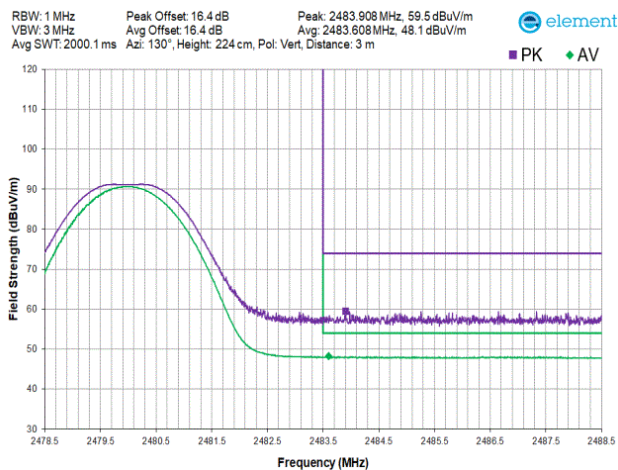
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



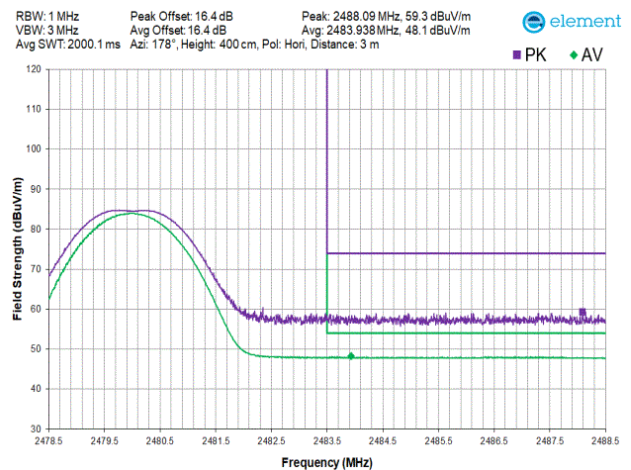
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



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

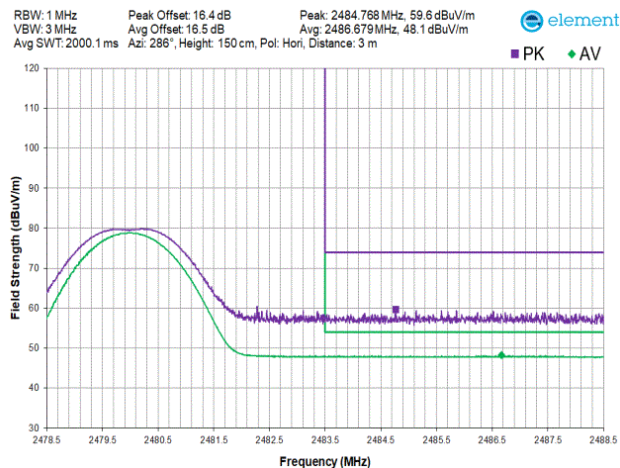


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

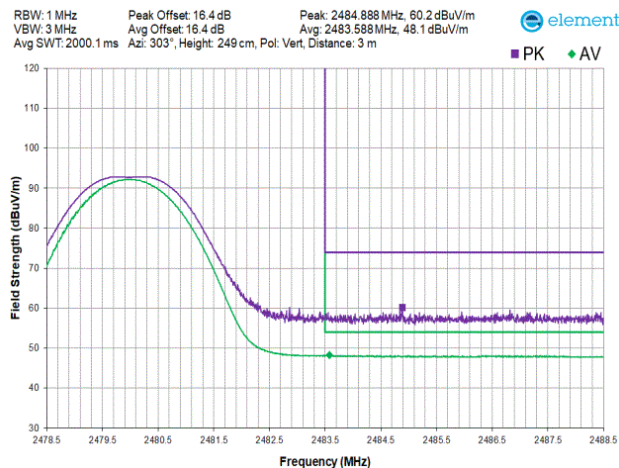


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**

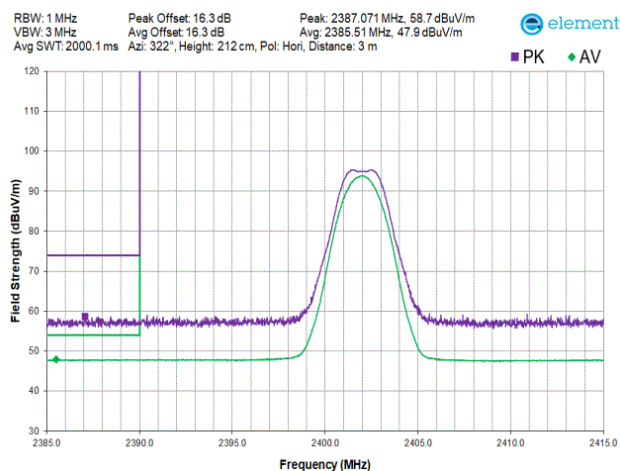
RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



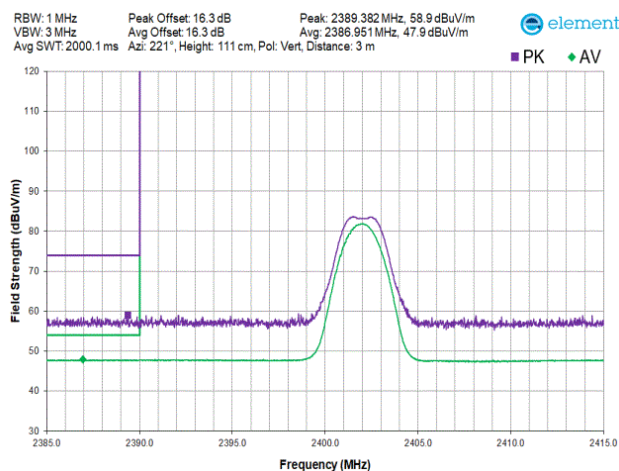
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



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

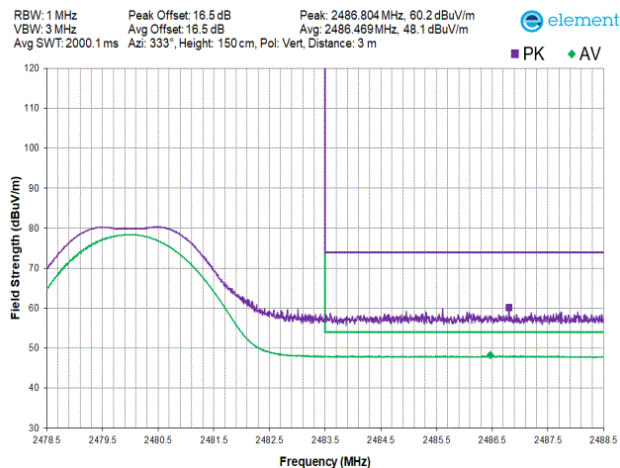


**BLE/GFSK 2 Mbps
Low Channel, 2402 MHz**

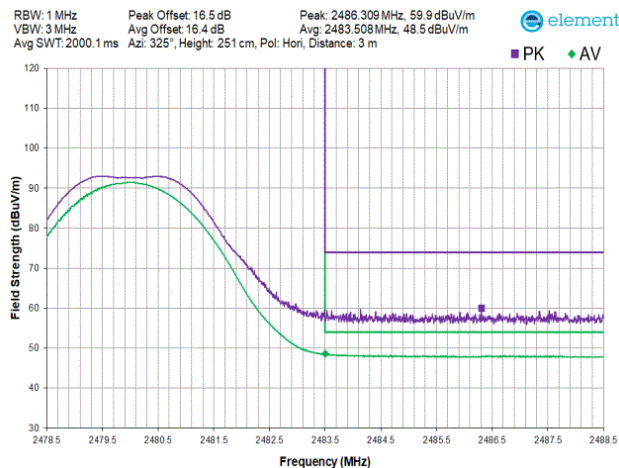


**BLE/GFSK 2 Mbps
Low Channel, 2402 MHz**

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**



**BLE/GFSK 2 Mbps
High Channel, 2480 MHz**

SPURIOUS RADIATED EMISSIONS

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as shown in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. A reference preview scan (pre-scan) is included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Double Ridge	ETS Lindgren	3115	AJQ	2025-02-05	2027-02-05
Cable	Element	Double Ridge Guide Horn Cables	MNV	2025-09-11	2026-09-11
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	2026-01-29	2027-01-29
Attenuator	Coaxicom	3910-20	AXY	2025-09-11	2026-09-11
Filter - High Pass	Micro-Tronics	HPM50111	HFM	2025-09-11	2026-09-11
Antenna - Standard Gain	ETS-Lindgren	3160-07	AJJ	2026-02-04	2027-02-04
Cable	Element	Standard Gain Cable	MNW	2025-09-11	2026-09-11
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2026-01-29	2027-01-29
Antenna - Standard Gain	ETS-Lindgren	3160-08	AJP	2026-02-04	2027-02-04
Amplifier - Pre-Amplifier	L-3 Narda-Miteq	AMF-6F-12001800-30-10P	PAP	2026-01-29	2027-01-29
Antenna - Standard Gain	ETS Lindgren	3160-09	AHG	2026-02-04	2027-02-04
Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNP	2025-09-04	2026-09-04
Amplifier - Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	2025-09-04	2026-09-04
Antenna - Loop	ETS Lindgren	6502	AOB	2025-06-17	2027-06-17
Cable	Element	Biconilog Cable	MNX	2025-09-11	2026-09-11
Antenna - Biconilog	Ametek	CBL 6141B	AYS	2025-04-29	2027-04-29
Amplifier - Pre-Amplifier	Miteq	AM-1064-9079 and SA18E-10	AOO	2026-01-29	2027-01-29
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFI	2025-09-29	2026-09-29

FREQUENCY RANGE INVESTIGATED

9 kHz TO 26500 MHz

POWER INVESTIGATED

12VDC via supply at 120VAC/60Hz

CONFIGURATIONS INVESTIGATED

EMPM0211-1

MODES INVESTIGATED

Transmitting BLE Low, Mid, and High Channels (2402, 2442, and 2480 MHz), 1 and 2 Mbps

SPURIOUS RADIATED EMISSIONS

EUT:	DVC7K	Work Order:	EMPM0211
Serial Number:	1117	Date:	2026-02-27
Customer:	Emerson / Fisher	Temperature:	23.7°C
Attendees:	Stacy Lukas	Relative Humidity:	21%
Customer Project:	None	Bar. Pressure (PMSL):	1004 mb
Tested By:	Christopher Heintzelman	Job Site:	MN09
Power:	12VDC via supply at 120VAC/60Hz	Configuration:	EMPM0211-1

TEST PARAMETERS

Run #:	12	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

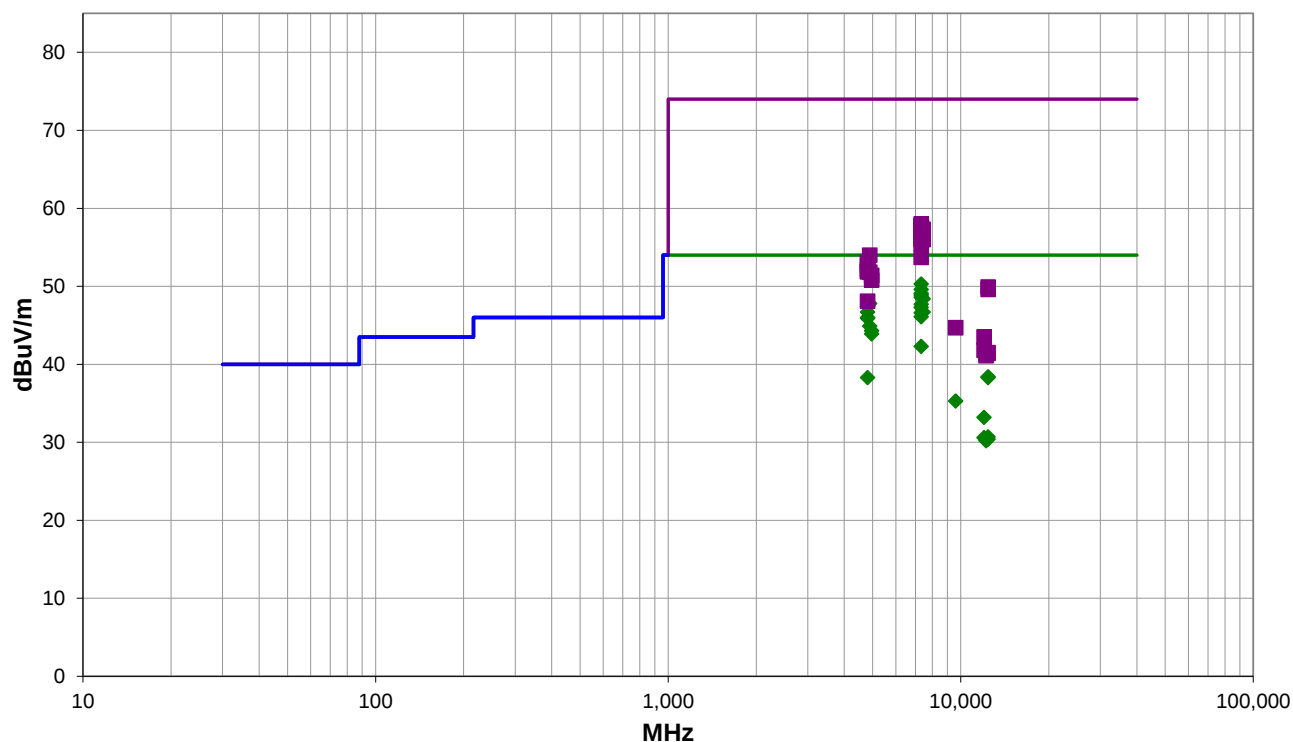
Power 5dBm. Test mode is 100% duty cycle.

EUT OPERATING MODES

Transmitting BLE Low, Mid, and High Channels (2402, 2442, and 2480 MHz), 1 and 2 Mbps

DEVIATIONS FROM TEST STANDARD

None



Run #: 12

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #12

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7325.283	37.0	13.3	1.5	61.0	3.0	0.0	Horz	AV	0.0	50.3	54.0	-3.7	EUT Vert, Mid Ch, 1 Mbps
7325.400	36.3	13.3	3.1	289.0	3.0	0.0	Vert	AV	0.0	49.6	54.0	-4.4	EUT On Side, Mid Ch, 1 Mbps
7325.392	35.8	13.3	1.5	54.0	3.0	0.0	Horz	AV	0.0	49.1	54.0	-4.9	EUT Vert, Mid Ch, 1 Mbps
7325.317	35.6	13.3	2.7	65.0	3.0	0.0	Vert	AV	0.0	48.9	54.0	-5.1	EUT Vert, Mid Ch, 1 Mbps
7324.550	35.3	13.3	3.3	287.0	3.0	0.0	Vert	AV	0.0	48.6	54.0	-5.4	EUT On Side, Mid Ch, 2 Mbps
7439.358	34.4	14.0	1.8	339.0	3.0	0.0	Horz	AV	0.0	48.4	54.0	-5.6	EUT Vert, High Ch, 1 Mbps
4883.725	42.8	5.0	1.8	75.0	3.0	0.0	Horz	AV	0.0	47.8	54.0	-6.2	EUT Vert, Mid Ch, 1 Mbps
4803.725	43.0	4.7	1.5	349.0	3.0	0.0	Horz	AV	0.0	47.7	54.0	-6.3	EUT Vert, Low Ch, 1 Mbps
7327.192	34.4	13.3	2.6	66.0	3.0	0.0	Horz	AV	0.0	47.7	54.0	-6.3	EUT Vert, Mid Ch, 2 Mbps
4803.817	42.7	4.7	2.4	112.0	3.0	0.0	Vert	AV	0.0	47.4	54.0	-6.6	EUT Horz, Low Ch, 1 Mbps
7325.192	34.0	13.3	2.4	127.0	3.0	0.0	Vert	AV	0.0	47.3	54.0	-6.7	EUT Horz, Mid Ch, 1 Mbps
4803.642	42.0	4.7	2.2	309.0	3.0	0.0	Vert	AV	0.0	46.7	54.0	-7.3	EUT On Side, Low Ch, 1 Mbps
7439.308	32.7	14.0	3.9	239.0	3.0	0.0	Vert	AV	0.0	46.7	54.0	-7.3	EUT Horz, High Ch, 1 Mbps
7325.433	33.3	13.3	2.8	136.0	3.0	0.0	Vert	AV	0.0	46.6	54.0	-7.4	EUT Horz, Mid Ch, 1 Mbps
7325.308	32.8	13.3	1.5	235.0	3.0	0.0	Horz	AV	0.0	46.1	54.0	-7.9	EUT On Side, Mid Ch, 1 Mbps
4803.800	41.3	4.7	2.0	307.0	3.0	0.0	Vert	AV	0.0	46.0	54.0	-8.0	EUT Vert, Low Ch, 1 Mbps
4804.008	41.2	4.7	2.0	298.0	3.0	0.0	Horz	AV	0.0	45.9	54.0	-8.1	EUT On Side, Low Ch, 1 Mbps
4883.783	39.9	5.0	2.3	114.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	EUT Horz, Mid Ch, 1 Mbps
4959.758	38.7	5.6	3.0	44.0	3.0	0.0	Horz	AV	0.0	44.3	54.0	-9.7	EUT Vert, High Ch, 1 Mbps
4959.950	38.3	5.6	3.6	171.0	3.0	0.0	Vert	AV	0.0	43.9	54.0	-10.1	EUT Horz, High Ch, 1 Mbps
7325.183	29.0	13.3	1.5	236.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	EUT Horz, Mid Ch, 1 Mbps
12401.420	25.6	12.8	3.9	203.0	3.0	0.0	Vert	AV	0.0	38.4	54.0	-15.6	EUT Horz, High Ch, 1 Mbps
4803.825	33.6	4.7	2.1	220.0	3.0	0.0	Horz	AV	0.0	38.3	54.0	-15.7	EUT Horz, Low Ch, 1 Mbps
12401.430	25.5	12.8	1.5	63.0	3.0	0.0	Horz	AV	0.0	38.3	54.0	-15.7	EUT Vert, High Ch, 1 Mbps
7325.117	44.7	13.3	1.5	61.0	3.0	0.0	Horz	PK	0.0	58.0	74.0	-16.0	EUT Vert, Mid Ch, 1 Mbps
7324.492	44.5	13.3	3.3	287.0	3.0	0.0	Vert	PK	0.0	57.8	74.0	-16.2	EUT On Side, Mid Ch, 2 Mbps
7325.342	44.3	13.3	3.1	289.0	3.0	0.0	Vert	PK	0.0	57.6	74.0	-16.4	EUT On Side, Mid Ch, 1 Mbps
7326.575	44.3	13.3	2.7	65.0	3.0	0.0	Vert	PK	0.0	57.6	74.0	-16.4	EUT Vert, Mid Ch, 1 Mbps
7439.117	43.3	14.0	1.8	339.0	3.0	0.0	Horz	PK	0.0	57.3	74.0	-16.7	EUT Vert, High Ch, 1 Mbps
7326.483	43.9	13.3	1.5	54.0	3.0	0.0	Horz	PK	0.0	57.2	74.0	-16.8	EUT Vert, Mid Ch, 1 Mbps
7327.417	43.6	13.3	2.6	66.0	3.0	0.0	Horz	PK	0.0	56.9	74.0	-17.1	EUT Vert, Mid Ch, 2 Mbps
7326.342	42.8	13.3	2.8	136.0	3.0	0.0	Vert	PK	0.0	56.1	74.0	-17.9	EUT Horz, Mid Ch, 1 Mbps
7440.983	42.0	14.0	3.9	239.0	3.0	0.0	Vert	PK	0.0	56.0	74.0	-18.0	EUT Horz, High Ch, 1 Mbps
7326.517	42.7	13.3	2.4	127.0	3.0	0.0	Vert	PK	0.0	56.0	74.0	-18.0	EUT Horz, Mid Ch, 1 Mbps
7326.683	42.2	13.3	1.5	235.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	EUT On Side, Mid Ch, 1 Mbps
9607.008	44.3	-9.0	1.4	332.0	3.0	0.0	Horz	AV	0.0	35.3	54.0	-18.7	EUT Vert, Low Ch, 1 Mbps
4883.700	49.0	5.0	1.8	75.0	3.0	0.0	Horz	PK	0.0	54.0	74.0	-20.0	EUT Vert, Mid Ch, 1 Mbps
7324.342	40.4	13.3	1.5	236.0	3.0	0.0	Horz	PK	0.0	53.7	74.0	-20.3	EUT Horz, Mid Ch, 1 Mbps
12008.800	34.6	-1.4	1.5	304.0	3.0	0.0	Horz	AV	0.0	33.2	54.0	-20.8	EUT Vert, Low Ch, 1 Mbps
4803.625	48.4	4.7	1.5	349.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	EUT Vert, Low Ch, 1 Mbps

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4803.508	48.1	4.7	2.4	112.0	3.0	0.0	Vert	PK	0.0	52.8	74.0	-21.2	EUT Horz, Low Ch, 1 Mbps
4804.450	47.5	4.7	2.2	309.0	3.0	0.0	Vert	PK	0.0	52.2	74.0	-21.8	EUT On Side, Low Ch, 1 Mbps
4803.550	47.2	4.7	2.0	298.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	EUT On Side, Low Ch, 1 Mbps
4803.383	47.2	4.7	2.0	307.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	EUT Vert, Low Ch, 1 Mbps
4884.217	46.7	5.1	2.3	114.0	3.0	0.0	Vert	PK	0.0	51.8	74.0	-22.2	EUT Horz, Mid Ch, 1 Mbps
4960.317	45.8	5.6	3.0	44.0	3.0	0.0	Horz	PK	0.0	51.4	74.0	-22.6	EUT Vert, High Ch, 1 Mbps
4960.442	45.2	5.6	3.6	171.0	3.0	0.0	Vert	PK	0.0	50.8	74.0	-23.2	EUT Horz, High Ch, 1 Mbps
12399.150	30.4	0.3	1.5	328.0	3.0	0.0	Horz	AV	0.0	30.7	54.0	-23.3	EUT Vert, High Ch, 1 Mbps
12009.200	32.0	-1.4	3.9	107.0	3.0	0.0	Vert	AV	0.0	30.6	54.0	-23.4	EUT Horz, Low Ch, 1 Mbps
12399.160	30.1	0.3	1.3	292.0	3.0	0.0	Vert	AV	0.0	30.4	54.0	-23.6	EUT Horz, High Ch, 1 Mbps
12210.930	30.9	-0.6	1.5	55.0	3.0	0.0	Vert	AV	0.0	30.3	54.0	-23.7	EUT Horz, Mid Ch, 1 Mbps
12210.910	30.8	-0.6	1.5	184.0	3.0	0.0	Horz	AV	0.0	30.2	54.0	-23.8	EUT Vert, Mid Ch, 1 Mbps
12402.360	37.1	12.8	1.5	63.0	3.0	0.0	Horz	PK	0.0	49.9	74.0	-24.1	EUT Vert, High Ch, 1 Mbps
12401.030	36.8	12.8	3.9	203.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	EUT Horz, High Ch, 1 Mbps
4804.542	43.4	4.7	2.1	220.0	3.0	0.0	Horz	PK	0.0	48.1	74.0	-25.9	EUT Horz, Low Ch, 1 Mbps
9608.908	53.6	-8.9	1.4	332.0	3.0	0.0	Horz	PK	0.0	44.7	74.0	-29.3	EUT Vert, Low Ch, 1 Mbps
12010.930	44.8	-1.3	1.5	304.0	3.0	0.0	Horz	PK	0.0	43.5	74.0	-30.5	EUT Vert, Low Ch, 1 Mbps
12011.340	43.1	-1.3	3.9	107.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2	EUT Horz, Low Ch, 1 Mbps
12399.690	41.2	0.3	1.3	292.0	3.0	0.0	Vert	PK	0.0	41.5	74.0	-32.5	EUT Horz, High Ch, 1 Mbps
12209.580	42.0	-0.6	1.5	55.0	3.0	0.0	Vert	PK	0.0	41.4	74.0	-32.6	EUT Horz, Mid Ch, 1 Mbps
12398.470	41.1	0.3	1.5	328.0	3.0	0.0	Horz	PK	0.0	41.4	74.0	-32.6	EUT Vert, High Ch, 1 Mbps
12208.500	41.7	-0.6	1.5	184.0	3.0	0.0	Horz	PK	0.0	41.1	74.0	-32.9	EUT Vert, Mid Ch, 1 Mbps

CONCLUSION

Pass

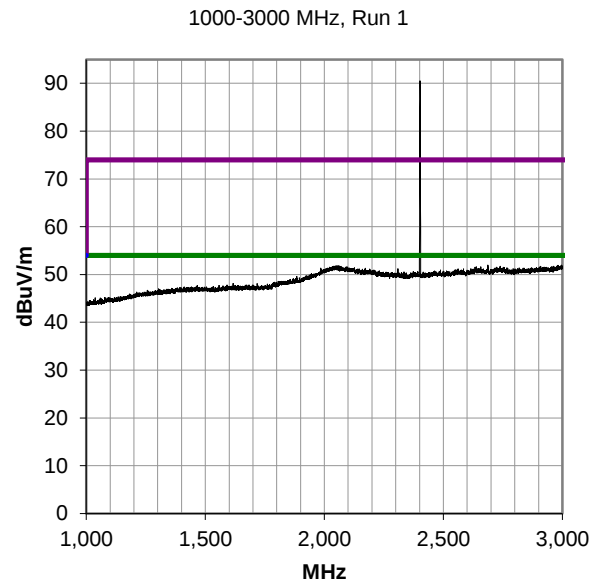
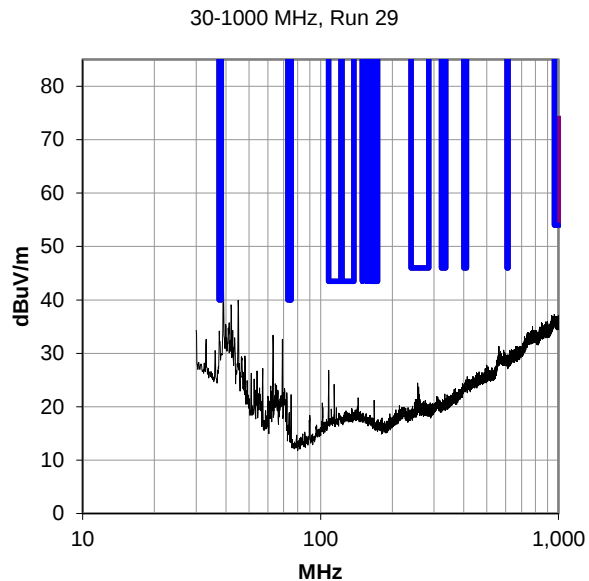
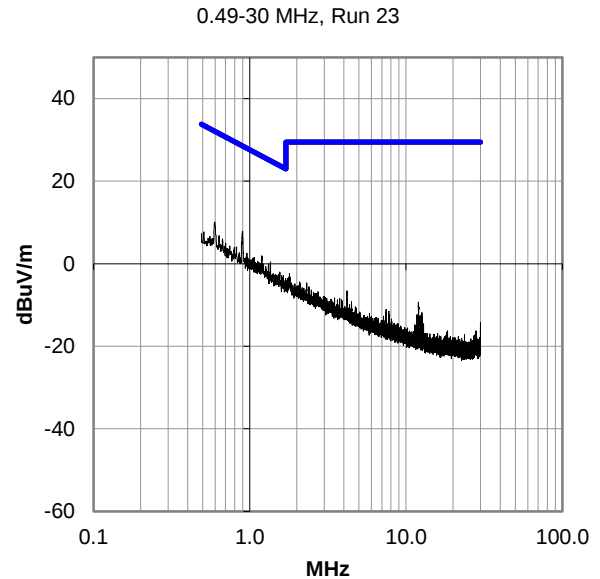
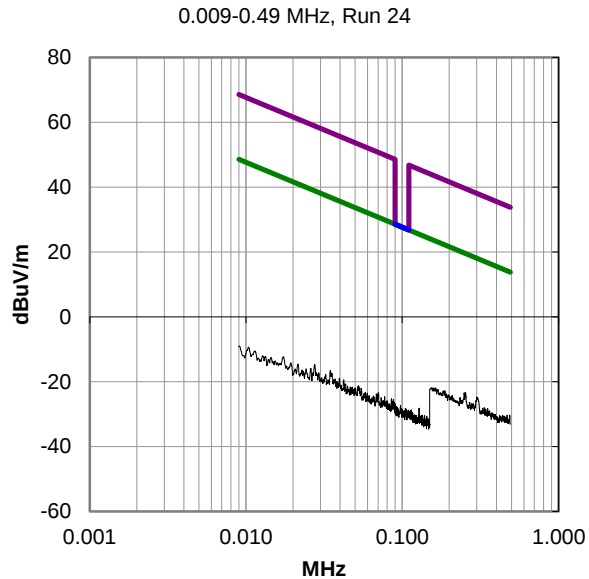


Tested By

SPURIOUS RADIATED EMISSIONS

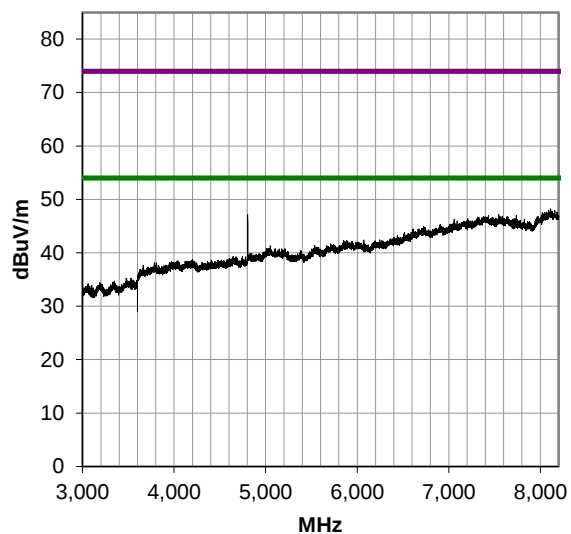
PRESCAN DATA

Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.

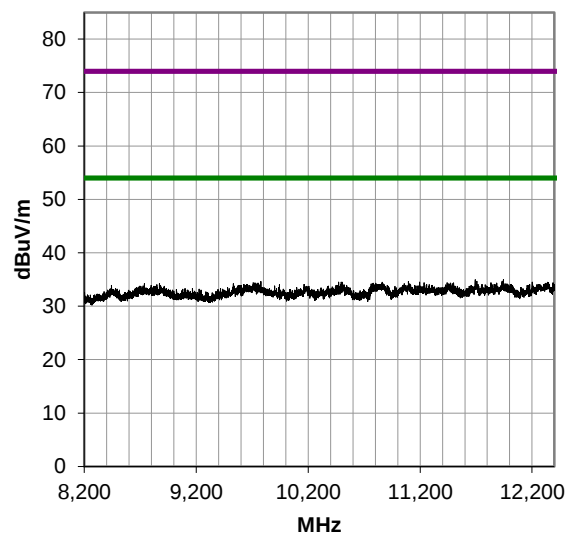


SPURIOUS RADIATED EMISSIONS

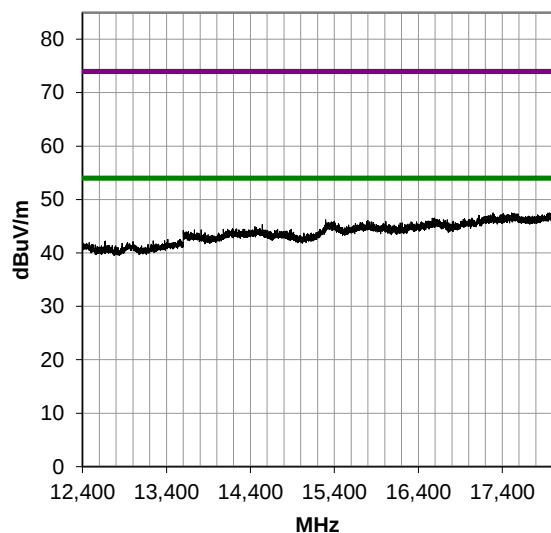
3000-8200 MHz, Run 2



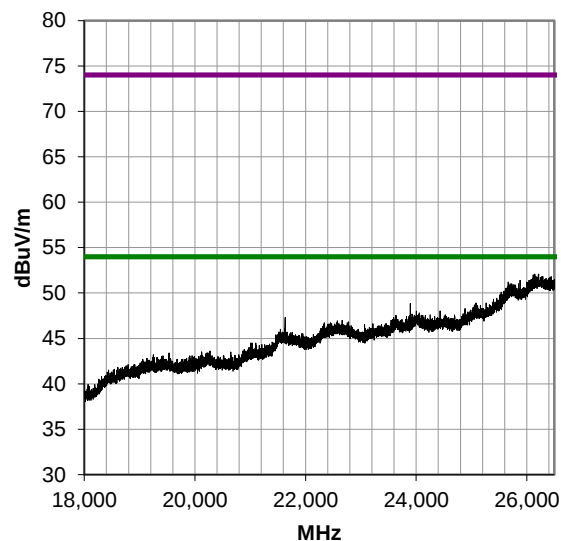
8200-12400 MHz, Run 3



12400-18000 MHz, Run 4



18000-26500 MHz, Run 21



End of Test Report