



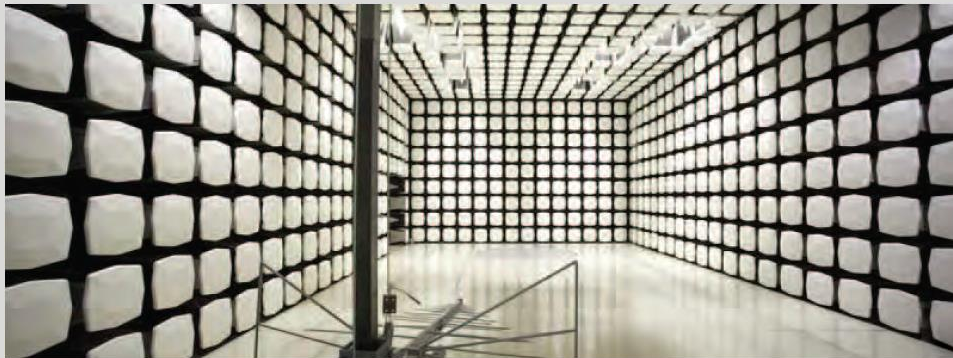
Fortell Research Inc.

Fortell AI Hearing Aid, Right

FCC 15.247

Bluetooth radio

Report: CHRM0012.1 Rev. 1, Issue Date: August 5, 2026



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CERTIFICATE OF TEST

Last Date of Test: July 17, 2026
Fortell Research Inc.
EUT: Fortell AI Hearing Aid, Right

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247	ANSI C63.10:2020 + Cor.1:2023 + C63.10a:2024 + Errata to C63.10a:2024

Guidance

FCC KDB 558074 v05r02:2019

Results

Test Description	Result	Specification Section(s)	Method Section(s)	Comments
Powerline Conducted Emissions	N/A	15.207	6.2	Not requested.
Duty Cycle	N/A	KDB 558074 -6.0	11.6	Not requested.
DTS Bandwidth (6 dB)	N/A	15.247(a)(2), KDB 558074 -8.2	11.8.2	Not requested.
Occupied Bandwidth (99%)	N/A	KDB 558074 -2.1	6.9.3	Not requested.
Output Power	Pass	15.247(b)(3), KDB 558074 - 8.3.1	11.9.1.1	
Equivalent Isotropic Radiated Power	Pass	15.247(b)(3), KDB 558074 - 8.3.1	11.9.1.1	
Power Spectral Density	N/A	15.247(e), KDB 558074 -8.4	11.10.2	Not requested.
Band Edge Compliance	N/A	15.247(d), KDB 558074 -8.5	11.11	Not requested.
Spurious Conducted Emissions	N/A	15.247(d), KDB 558074 -8.5	11.11	Not requested.
Radiated Band Edge Emissions	Pass	15.247(d), KDB 558074 - 8.6, 8.7	11.12.1, 11.13.2, 6.6	
Spurious Radiated Emissions	Pass	15.247(d), KDB 558074 - 8.6, 8.7	11.12.1, 11.13.2, 6.4, 6.5, 6.6	

Deviations From Test Standards

None

Approved By:



Chuck Heller, Operations Manager
 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
01	Updated comments related to Powerline Conducted Emissions	2026-08-05	3

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	MN11 (+/-)	MN05 (+/-)
9kHz-30MHz	N/A	1.8
30MHz-1GHz 3m	N/A	4.6
1GHz-6GHz	N/A	5.1
6GHz-40GHz	N/A	5.3
40GHz-220GHz	N/A	4.9

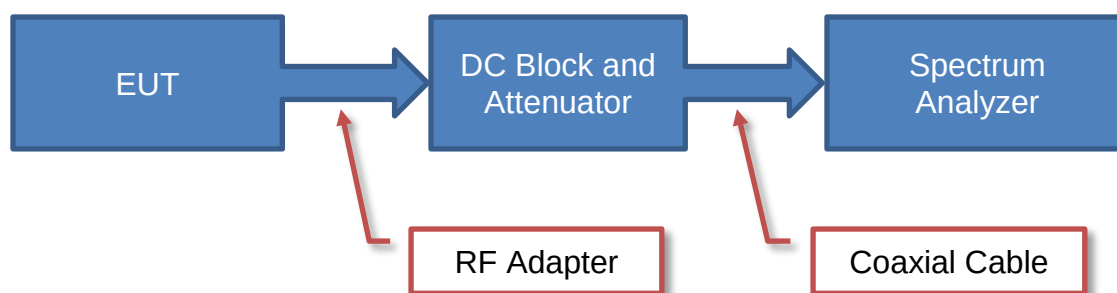
TEST SETUP BLOCK DIAGRAMS

Measurement Bandwidths

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.009 - 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.

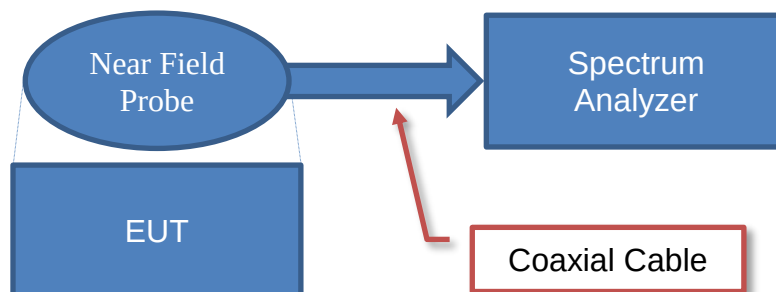
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

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

Near Field Test Fixture Measurements

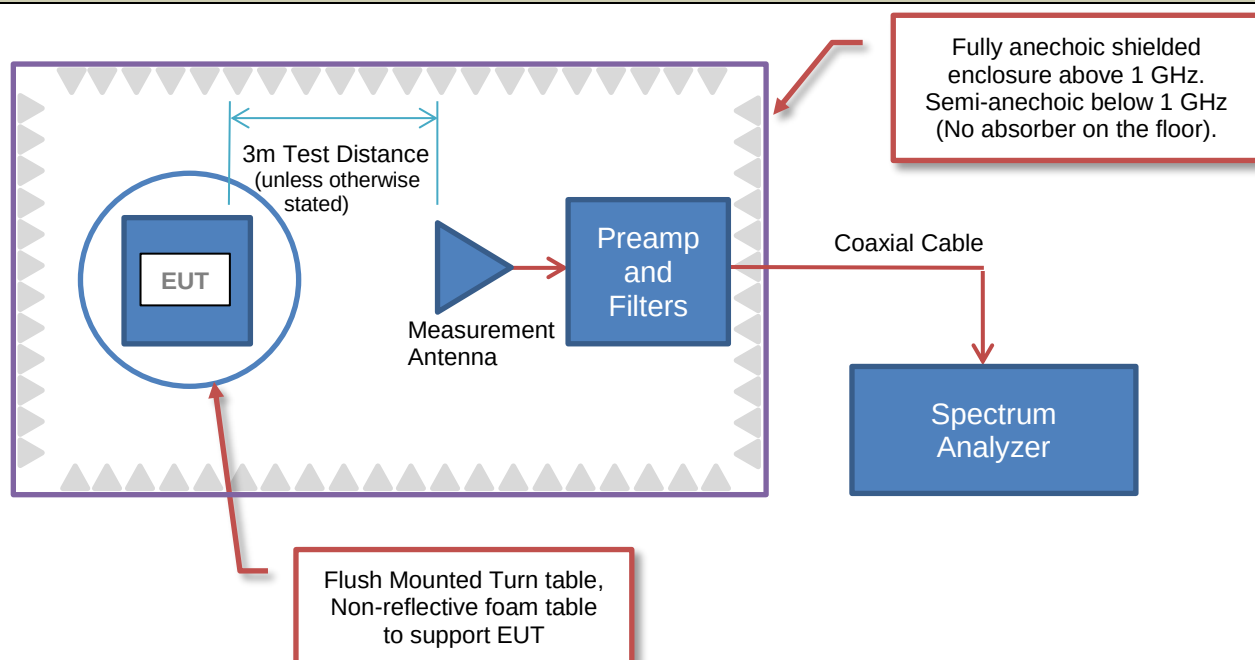


Sample Calculation (logarithmic units)

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

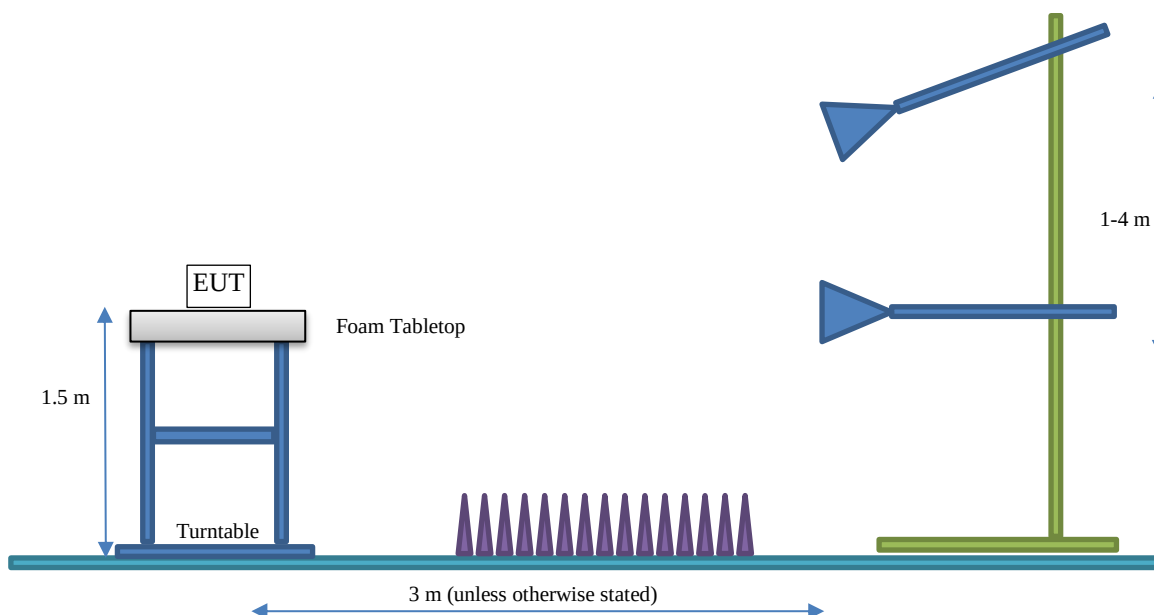
Radiated Power (ERP/EIRP) – Substitution Method:

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:	Fortell Research Inc.
Address:	379 W Broadway
City, State, Zip:	New York, NY 10012
Test Requested By:	John Becker
EUT:	Fortell AI Hearing Aid, Right
First Date of Test:	July 6, 2026
Last Date of Test:	July 17, 2026
Receipt Date of Samples:	July 6, 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:
Hearing aid with Bluetooth
Testing Objective:
To demonstrate compliance of the Bluetooth radio to FCC 15.247 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)
Planar Inverted F-Type	Fortell Research Inc	2400-2483.5	-6.11

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

- ☒ Test software settings
- ☐ Rated power settings

SETTINGS FOR ALL TESTS IN THIS REPORT

Modulation Types / Data Rates	Type	Channel	Position	Frequency (MHz)	Power Setting
BLE GFSK 1 Mbps, 2 Mbps	DTS	37	Low Channel	2402	-4
		18	Mid Channel	2442	-4
		39	High Channel	2480	-4

CONFIGURATIONS



Configuration CHRM0012-2

Software/Firmware Running During Test	
Description	Version
Test Firmware	2608.13

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Hearing Aid (Right, Conducted)	Fortell Research, Inc	FR1	7DMFLX3

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Conducted Adapter (Right)	Fortell Research, Inc	010-00058-01	R-21

Configuration CHRM0012-4

Software/Firmware Running During Test	
Description	Version
Test Firmware	2608.13

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Hearing Aid (Right, Radiated)	Fortell Research, Inc	FR1	7DK53X0

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2026-07-06	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.
2	2026-07-06	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.
3	2026-07-15	Spurious Radiated 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.
4	2026-07-17	Radiated Band Edge Emissions	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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	Agilent	E4443A	AAS	2025-07-23	2026-07-23
Cable	Element Materials Technology	None	HIFL	2026-05-18	2027-05-18
Generator - Signal	Keysight	N5182B	TET	2024-09-12	2027-09-12
Switch Matrix	Pickering	60-102D-001	HIF	NCR	NCR

OUTPUT POWER

EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0012
Serial Number:	7DMFLX3	Date:	2026-07-06
Customer:	Fortell Research Inc.	Temperature:	23.5°C
Attendees:	John Becker	Relative Humidity:	53.6%
Customer Project:	None	Bar. Pressure (PMSL):	1017 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0012-2

COMMENTS

Reference level offset includes measurement cable, switch matrix, 20dB attenuator, and DC block.
Right hearing aid.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

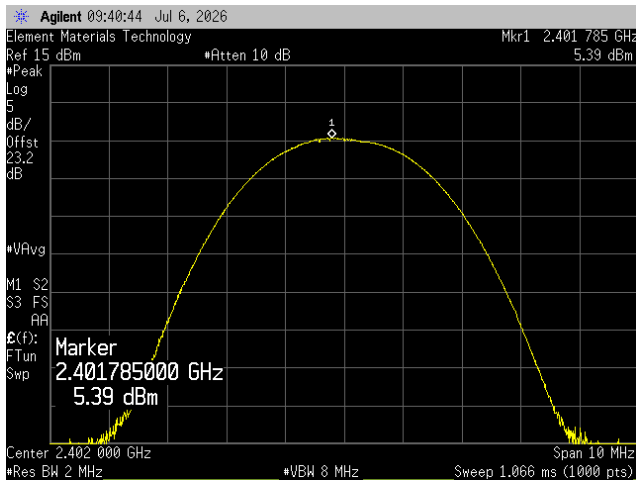


Tested By

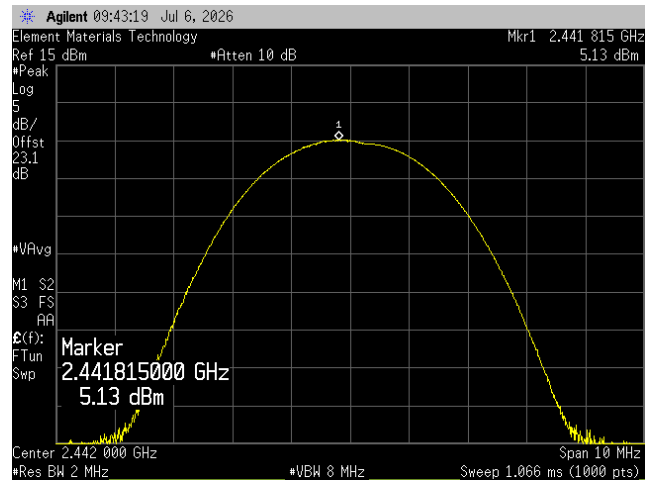
TEST RESULTS

		Out Pwr (dBm)	Limit (dBm)	Result
BLE/GFSK 1 Mbps				
	Low Channel, 2402 MHz	5.385	30	Pass
	Mid Channel, 2442 MHz	5.13	30	Pass
	High Channel, 2480 MHz	4.582	30	Pass
BLE/GFSK 2 Mbps				
	Low Channel, 2402 MHz	5.11	30	Pass
	Mid Channel, 2442 MHz	4.808	30	Pass
	High Channel, 2480 MHz	4.482	30	Pass

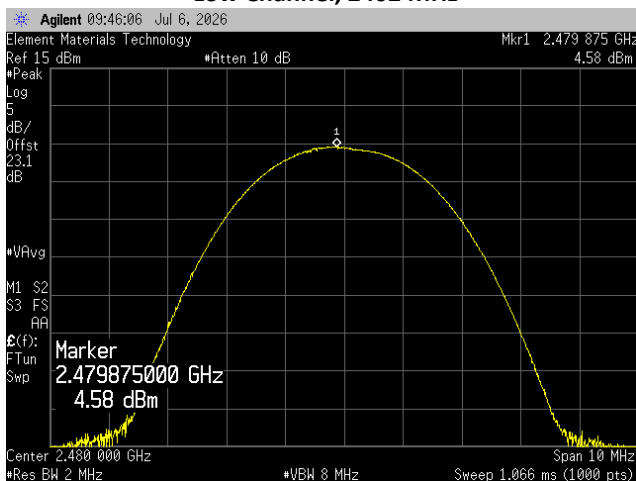
OUTPUT POWER



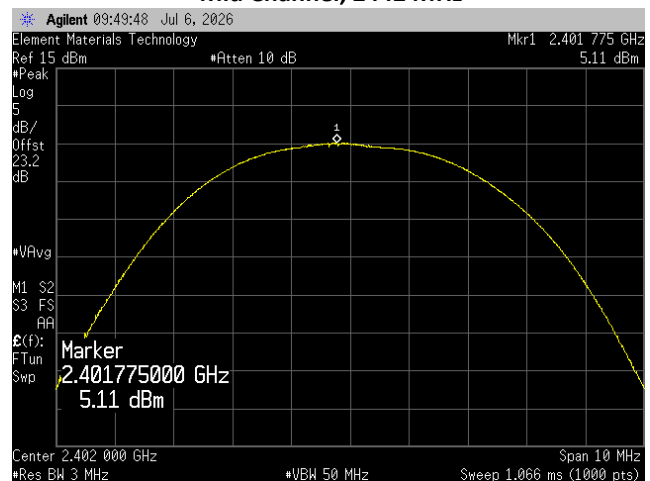
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



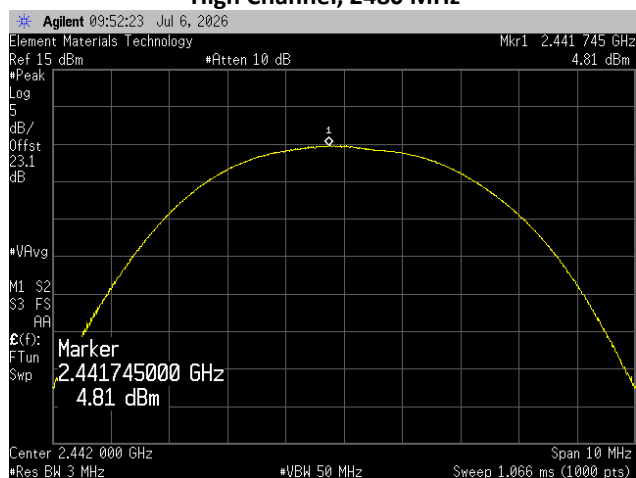
**BLE/GFSK 1 Mbps
Mid Channel, 2442 MHz**



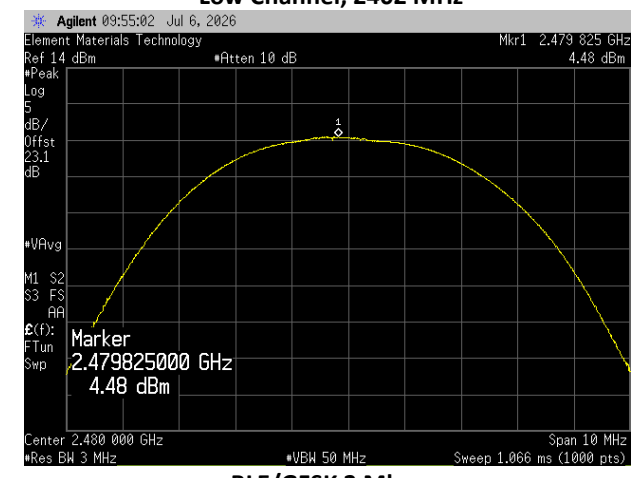
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



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



**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: $\geq 3 * RBW$
Trace: Max Hold

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4443A	AAS	2025-07-23	2026-07-23
Cable	Element Materials Technology	None	HIFL	2026-05-18	2027-05-18
Generator - Signal	Keysight	N5182B	TET	2024-09-12	2027-09-12
Switch Matrix	Pickering	60-102D-001	HIF	NCR	NCR

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)



EUT:	Fortell AI Hearing Aid, Right	Work Order:	CHRM0012
Serial Number:	7DK53X0	Date:	2026-07-06
Customer:	Fortell Research Inc.	Temperature:	23.5°C
Attendees:	John Becker	Relative Humidity:	53.3%
Customer Project:	None	Bar. Pressure (PMSL):	1017 mbar
Tested By:	Christopher Heintzelman	Job Site:	MN11
Power:	Battery	Configuration:	CHRM0012-2

COMMENTS

Right hearing aid.

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	5.385	-6.11	-0.73	36	Pass
Mid Channel, 2442 MHz	5.13	-6.11	-0.98	36	Pass
High Channel, 2480 MHz	4.582	-6.11	-1.53	36	Pass
BLE/GFSK 2 Mbps					
Low Channel, 2402 MHz	5.11	-6.11	-1.00	36	Pass
Mid Channel, 2442 MHz	4.808	-6.11	-1.30	36	Pass
High Channel, 2480 MHz	4.482	-6.11	-1.63	36	Pass

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 showed 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 axis 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 in order 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 11.13.3. 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
Antenna - Double Ridge	ETS Lindgren	3115	AIP	2024-08-02	2026-08-02
Cable	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	2025-09-05	2026-09-05
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVT	2026-01-07	2027-01-07
Attenuator	Fairview Microwave	SA18H-20	VAF	2025-09-03	2026-09-03
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	2026-04-20	2027-04-20

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



EUT:	Fortell AI Hearing Aid	Work Order:	CHRM0012
Serial Number:	7DK53X0	Date:	2026-07-17
Customer:	Fortell Research Inc.	Temperature:	23.8°C
Attendees:	John Becker	Relative Humidity:	57.7%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mbar
Tested By:	Marcelo Aguayo	Job Site:	MN05
Power:	Battery	Configuration:	CHRM0012-4

COMMENTS

Power -4, Right unit

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

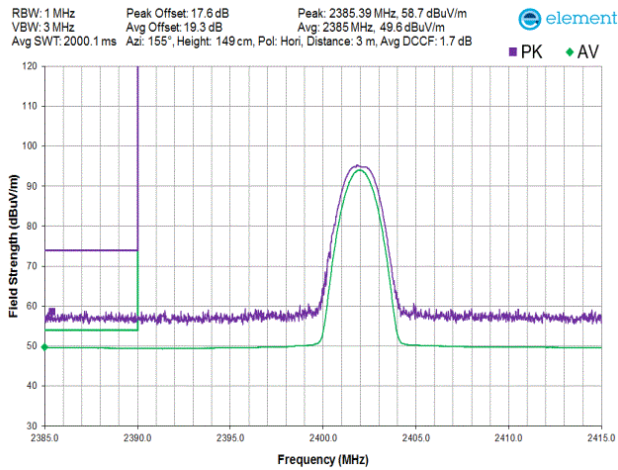
Pass

Tested By

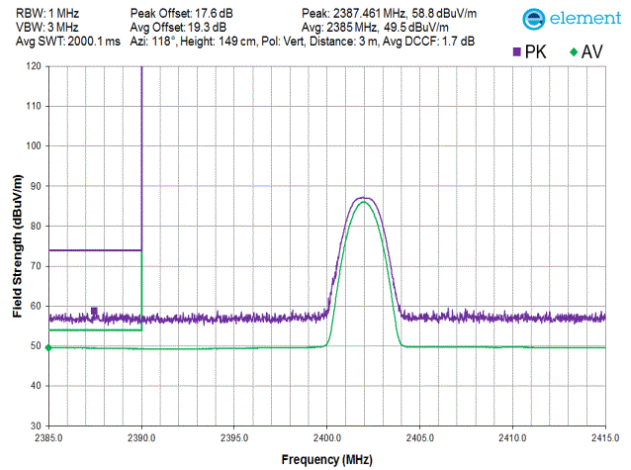
TEST RESULTS

	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	2385.390	58.7	74.0	-4.4	H	Horizontal	Pass
	2385.000	49.6	54.0				
	2387.461	58.8	74.0	-4.5	V	Horizontal	Pass
	2385.000	49.5	54.0				
	2387.011	58.9	74.0	-4.4	H	Vertical	Pass
	2385.120	49.6	54.0				
	2385.090	59.0	74.0	-4.4	V	Vertical	Pass
	2385.675	49.6	54.0				
	2386.456	58.6	74.0	-4.5	H	on Side	Pass
	2385.000	49.5	54.0				
	2385.420	59.7	74.0	-4.5	V	on Side	Pass
	2385.000	49.5	54.0				
	2485.408	59.9	74.0	-4.3	H	Vertical	Pass
	2483.503	49.7	54.0				
	2484.173	60.4	74.0	-4.0	V	Vertical	Pass
	2483.503	50.0	54.0				
High Channel, 2480 MHz	2487.169	59.6	74.0	-4.1	H	on Side	Pass
	2483.503	49.9	54.0				
	2485.694	59.9	74.0	-4.1	V	on Side	Pass
	2483.503	49.9	54.0				
	2486.954	59.1	74.0	-4.4	V	Horizontal	Pass
	2483.503	49.6	54.0				
	2484.568	59.8	74.0	-3.8	H	Horizontal	Pass
	2483.503	50.2	54.0				
BLE/GFSK 2 Mbps							
High Channel, 2480 MHz	2483.508	60.0	74.0	-1.5	H	Horizontal	Pass
	2483.503	52.5	54.0				

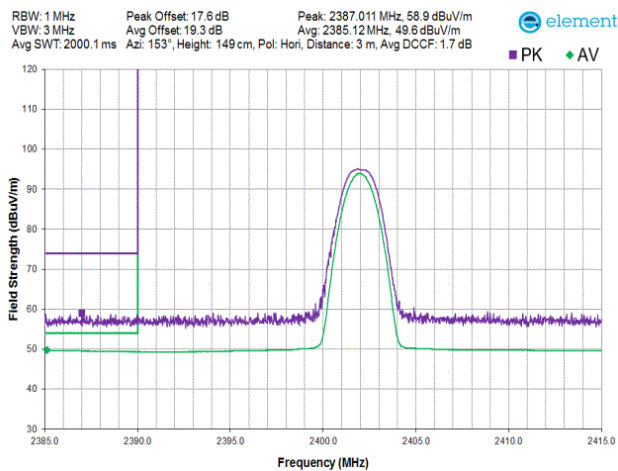
RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



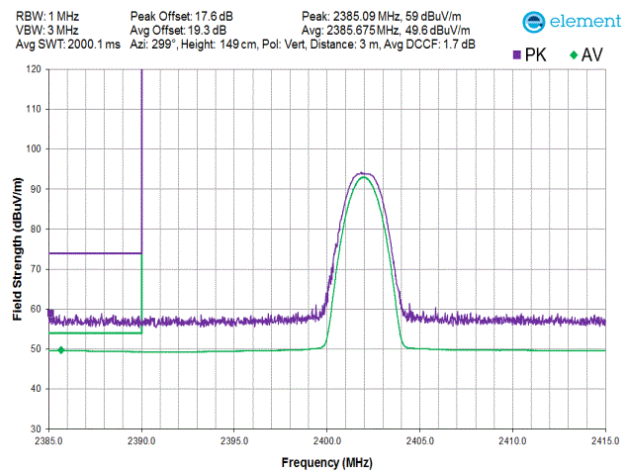
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



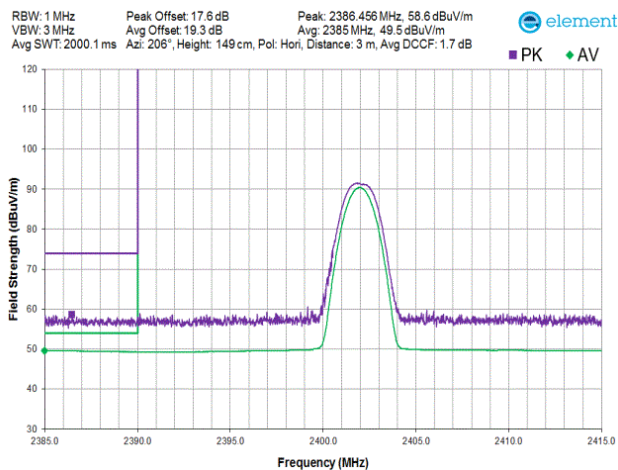
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



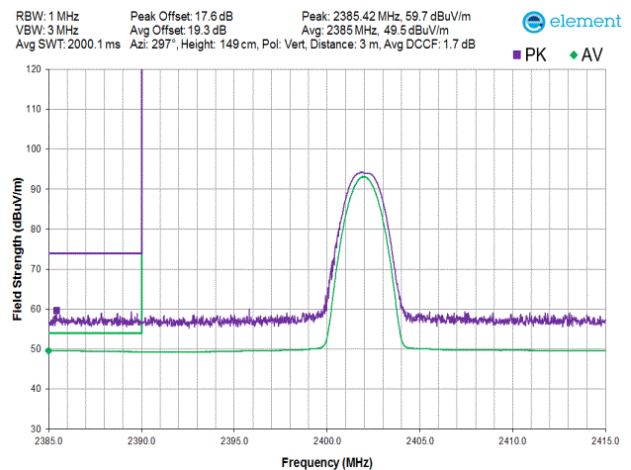
**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**



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

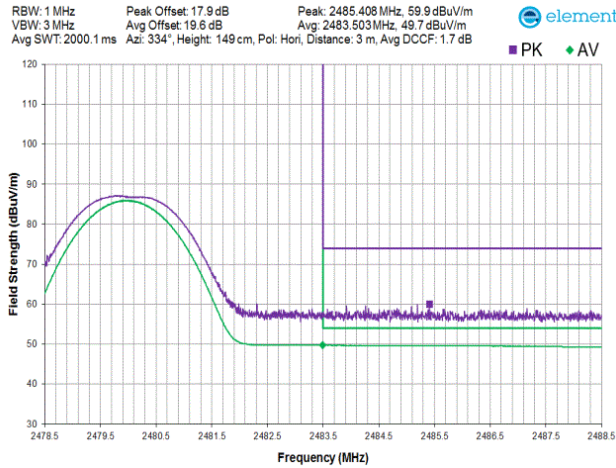


**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**

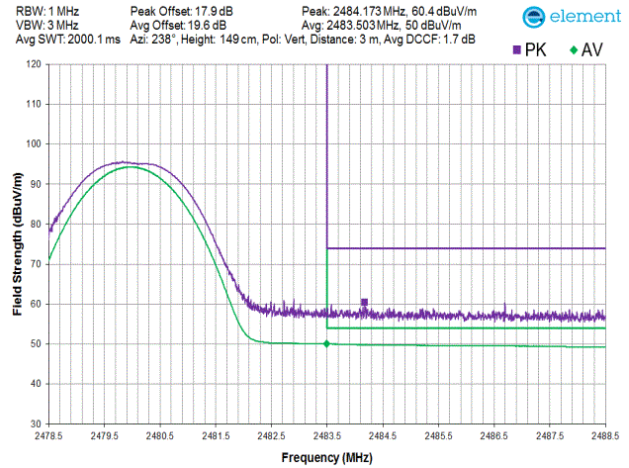


**BLE/GFSK 1 Mbps
Low Channel, 2402 MHz**

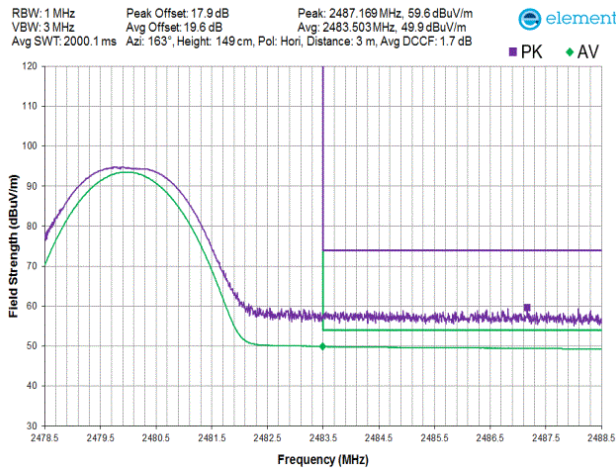
RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



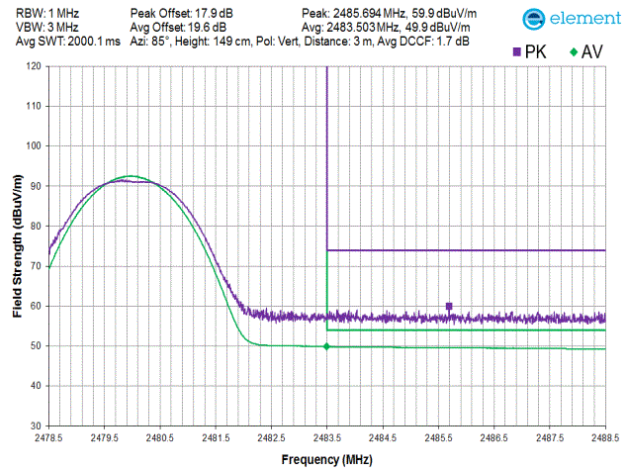
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



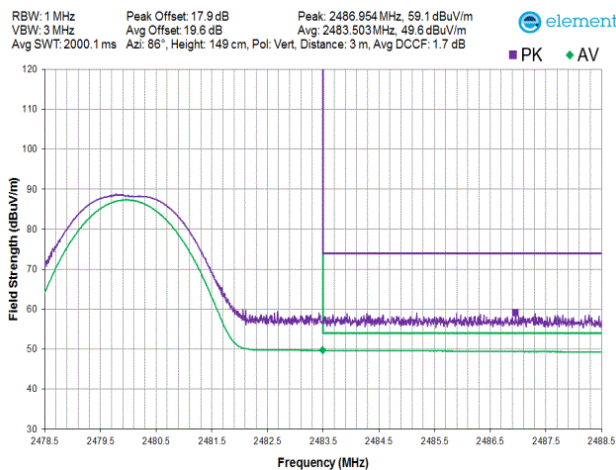
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



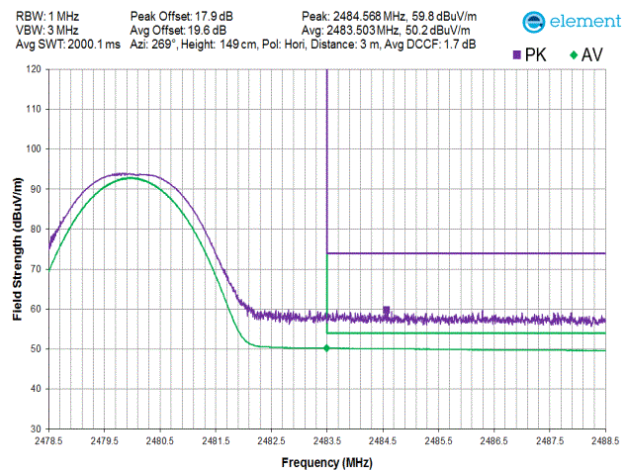
**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



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

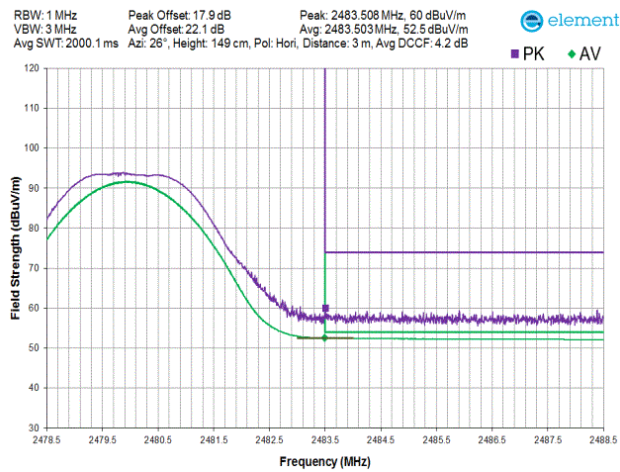


**BLE/GFSK 1 Mbps
High Channel, 2480 MHz**



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

RADIATED SPURIOUS EMISSIONS RESTRICTED BAND EDGE



BLE/GFSK 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 showed 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 axis 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 in order 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.

Measurements within 2 MHz of the allowable band may have been taken using the integration method from ANSI C63.10 clause 11.13.3. 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
Antenna - Double Ridge	ETS Lindgren	3115	AIP	2024-08-02	2026-08-02
Cable	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	2025-09-05	2026-09-05
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVT	2026-01-07	2027-01-07
Attenuator	Fairview Microwave	SA18H-20	VAF	2025-09-03	2026-09-03
Antenna - Biconilog	ETS Lindgren	3142D	AXO	2025-09-29	2027-09-29
Cable	ESM Cable Corp.	Bilog Cables	MNH	2025-09-05	2026-09-05
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AVO	2025-10-07	2026-10-07
Filter - Low Pass	Micro-Tronics	LPM50004	LFK	2025-09-03	2026-09-03
Antenna - Loop	ETS Lindgren	6502	AOB	2025-06-17	2027-06-17
Filter - High Pass	Micro-Tronics	HPM50111	LFN	2025-09-03	2026-09-03
Antenna - Standard Gain	ETS Lindgren	3160-07	AXP	2026-02-04	2027-02-04
Cable	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	2025-09-05	2026-09-05
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	2026-01-07	2027-01-07
Antenna - Standard Gain	ETS Lindgren	3160-08	AIQ	2026-02-04	2027-02-04
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	2026-01-07	2027-01-07
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
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	2026-04-20	2027-04-20

SPURIOUS RADIATED EMISSIONS

FREQUENCY RANGE INVESTIGATED

9 kHz TO 26500 MHz

POWER INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

CHRM0012-4

MODES INVESTIGATED

Power setting -4. Transmitting BLE Low, Mid and High Ch (2402, 2442 and 2480 MHz) 1 and 2 Mbps

SPURIOUS RADIATED EMISSIONS

EUT:	Fortell AI Hearing Aid	Work Order:	CHRM0012
Serial Number:	7DK53X0	Date:	2026-07-15
Customer:	Fortell Research Inc.	Temperature:	24.4°C
Attendees:	John Becker	Relative Humidity:	55.2%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mb
Tested By:	Marcelo Aguayo	Job Site:	MN05
Power:	Battery	Configuration:	CHRM0012-4

TEST PARAMETERS

Run #:	41	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

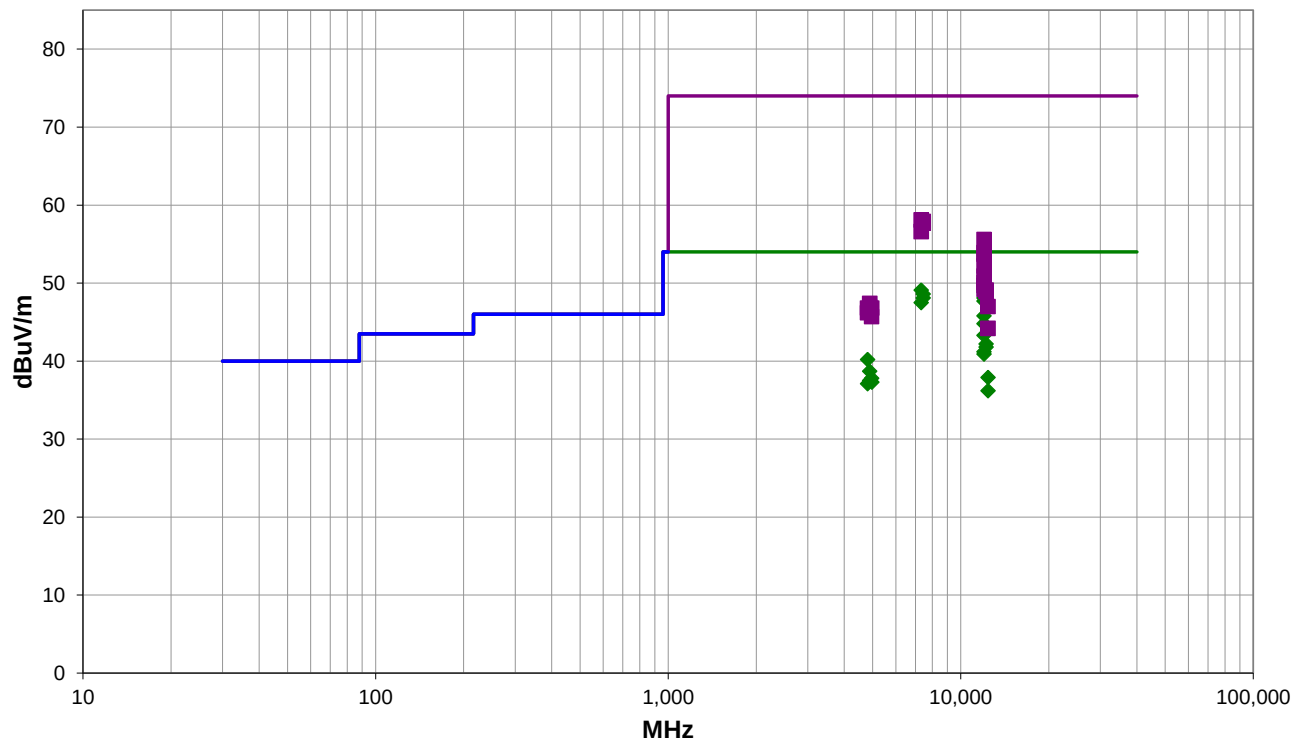
Test mode operates at 67% (1 Mbps) and 39% (2 Mbps) duty cycle, upward DCCF correction applied based on $10 \cdot \log(1/\text{Duty cycle}) = 1 \text{ Mbps: } 1.7\text{dB}, 2 \text{ Mbps: } 4.0\text{dB}$

EUT OPERATING MODES

Power setting -4. Transmitting BLE Low, Mid and High Ch (2402, 2442 and 2480 MHz) 1 and 2 Mbps

DEVIATIONS FROM TEST STANDARD

None



Run #: 41

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #41

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
12008.860	45.7	2.2	1.5	254.0	1.7	0.0	Horz	AV	0.0	49.6	54.0	-4.4	EUT Horz, Low Ch 1Mbps
7325.600	32.1	15.3	1.5	216.0	1.7	0.0	Horz	AV	0.0	49.1	54.0	-4.9	EUT Horz, Mid Ch 1Mbps
7439.380	30.5	16.4	1.5	60.0	1.7	0.0	Vert	AV	0.0	48.6	54.0	-5.4	EUT Horz, High Ch 1Mbps
12008.850	44.2	2.2	1.5	161.0	1.7	0.0	Vert	AV	0.0	48.1	54.0	-5.9	EUT Horz, Low Ch 1Mbps
7439.580	30.0	16.4	1.5	252.0	1.7	0.0	Horz	AV	0.0	48.1	54.0	-5.9	EUT Horz, High Ch 1Mbps
12008.930	43.8	2.2	1.5	294.0	1.7	0.0	Vert	AV	0.0	47.7	54.0	-6.3	EUT On Side, Low Ch 1Mbps
7325.300	30.5	15.3	1.5	152.0	1.7	0.0	Vert	AV	0.0	47.5	54.0	-6.5	EUT Horz, Mid Ch 1Mbps
12008.870	41.9	2.2	1.5	95.0	1.7	0.0	Horz	AV	0.0	45.8	54.0	-8.2	EUT Vert, Low Ch 1Mbps
12008.840	40.9	2.2	1.5	293.0	1.7	0.0	Horz	AV	0.0	44.8	54.0	-9.2	EUT On Side, Low Ch 1Mbps
12008.890	39.4	2.2	1.5	304.0	1.7	0.0	Vert	AV	0.0	43.3	54.0	-10.7	EUT Vert, Low Ch 1Mbps
12208.790	36.7	3.8	1.5	66.0	1.7	0.0	Horz	AV	0.0	42.2	54.0	-11.8	EUT Horz, Mid Ch 1Mbps
12208.830	36.3	3.8	1.5	183.0	1.7	0.0	Vert	AV	0.0	41.8	54.0	-12.2	EUT Horz, Mid Ch 1Mbps
12007.540	35.1	2.1	1.5	294.0	4.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	EUT Horz, High Ch 2Mbps
12012.290	34.7	2.2	1.5	67.0	4.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	EUT Horz, High Ch 2Mbps
4803.808	31.8	6.7	1.5	143.0	1.7	0.0	Vert	AV	0.0	40.2	54.0	-13.8	EUT Horz, Low Ch 1Mbps
4883.933	29.6	7.4	1.5	143.0	1.7	0.0	Vert	AV	0.0	38.7	54.0	-15.3	EUT Horz, Mid Ch 1Mbps
7326.658	42.8	15.3	1.5	33.0	0.0	0.0	Vert	PK	0.0	58.1	74.0	-15.9	EUT Horz, Mid Ch 1Mbps
12398.770	31.9	4.3	1.5	352.0	1.7	0.0	Horz	AV	0.0	37.9	54.0	-16.1	EUT Horz, High Ch 1Mbps
7439.790	41.5	16.4	1.5	232.0	0.0	0.0	Vert	PK	0.0	57.9	74.0	-16.1	EUT Horz, High Ch 1Mbps
4960.120	28.4	7.7	1.5	330.0	1.7	0.0	Vert	AV	0.0	37.8	54.0	-16.2	EUT Horz, High Ch 1Mbps
7440.380	41.3	16.4	1.5	252.0	0.0	0.0	Horz	PK	0.0	57.7	74.0	-16.3	EUT Horz, High Ch 1Mbps
4882.283	28.5	7.3	1.5	309.0	1.7	0.0	Horz	AV	0.0	37.5	54.0	-16.5	EUT Horz, Mid Ch 1Mbps
4968.710	27.9	7.7	1.5	67.0	1.7	0.0	Horz	AV	0.0	37.3	54.0	-16.7	EUT Horz, High Ch 1Mbps
4803.850	28.7	6.7	1.5	32.0	1.7	0.0	Horz	AV	0.0	37.1	54.0	-16.9	EUT Horz, Low Ch 1Mbps
7325.433	41.3	15.3	1.5	216.0	0.0	0.0	Horz	PK	0.0	56.6	74.0	-17.4	EUT Horz, Mid Ch 1Mbps
12399.040	30.2	4.3	1.5	179.0	1.7	0.0	Vert	AV	0.0	36.2	54.0	-17.8	EUT Horz, High Ch 1Mbps
12009.280	53.4	2.2	1.5	254.0	0.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	EUT Horz, Low Ch 1Mbps
12009.400	51.7	2.2	1.5	161.0	0.0	0.0	Vert	PK	0.0	53.9	74.0	-20.1	EUT Horz, Low Ch 1Mbps
12009.200	51.5	2.2	1.5	294.0	0.0	0.0	Vert	PK	0.0	53.7	74.0	-20.3	EUT On Side, Low Ch 1Mbps
12009.300	50.0	2.2	1.5	95.0	0.0	0.0	Horz	PK	0.0	52.2	74.0	-21.8	EUT Vert, Low Ch 1Mbps
12011.090	48.7	2.2	1.5	293.0	0.0	0.0	Horz	PK	0.0	50.9	74.0	-23.1	EUT On Side, Low Ch 1Mbps
12009.170	47.9	2.2	1.5	294.0	0.0	0.0	Vert	PK	0.0	50.1	74.0	-23.9	EUT Horz, High Ch 2Mbps
12011.230	47.5	2.2	1.5	304.0	0.0	0.0	Vert	PK	0.0	49.7	74.0	-24.3	EUT Vert, Low Ch 1Mbps
12009.250	47.0	2.2	1.5	67.0	0.0	0.0	Horz	PK	0.0	49.2	74.0	-24.8	EUT Horz, High Ch 2Mbps
12209.500	45.3	3.8	1.5	183.0	0.0	0.0	Vert	PK	0.0	49.1	74.0	-24.9	EUT Horz, Mid Ch 1Mbps
12211.210	45.1	3.8	1.5	66.0	0.0	0.0	Horz	PK	0.0	48.9	74.0	-25.1	EUT Horz, Mid Ch 1Mbps
4884.292	40.0	7.4	1.5	143.0	0.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	EUT Horz, Mid Ch 1Mbps
12399.520	42.7	4.3	1.5	352.0	0.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0	EUT Horz, High Ch 1Mbps
4885.883	39.5	7.4	1.5	309.0	0.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	EUT Horz, Mid Ch 1Mbps
4804.050	40.1	6.7	1.5	143.0	0.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	EUT Horz, Low Ch 1Mbps

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Duty Cycle Correction Factor (dB)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4964.420	39.1	7.7	1.5	67.0	0.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	EUT Horz, High Ch 1Mbps
4803.050	39.5	6.7	1.5	32.0	0.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	EUT Horz, Low Ch 1Mbps
4957.210	38.0	7.7	1.5	330.0	0.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	EUT Horz, High Ch 1Mbps
12399.560	39.9	4.3	1.5	179.0	0.0	0.0	Vert	PK	0.0	44.2	74.0	-29.8	EUT Horz, High Ch 1Mbps

CONCLUSION

Pass

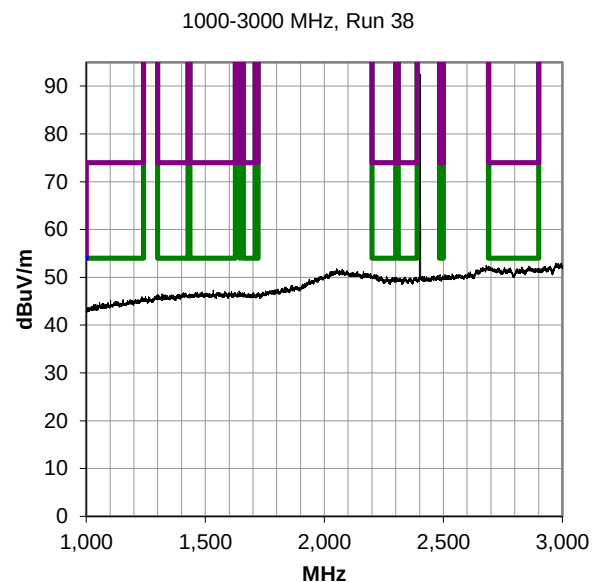
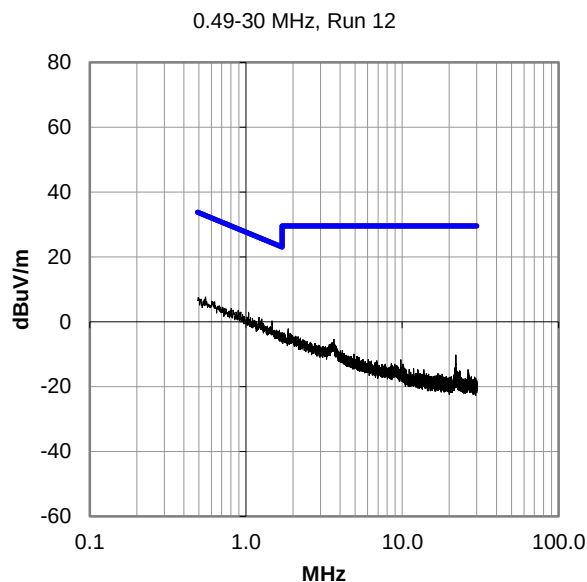
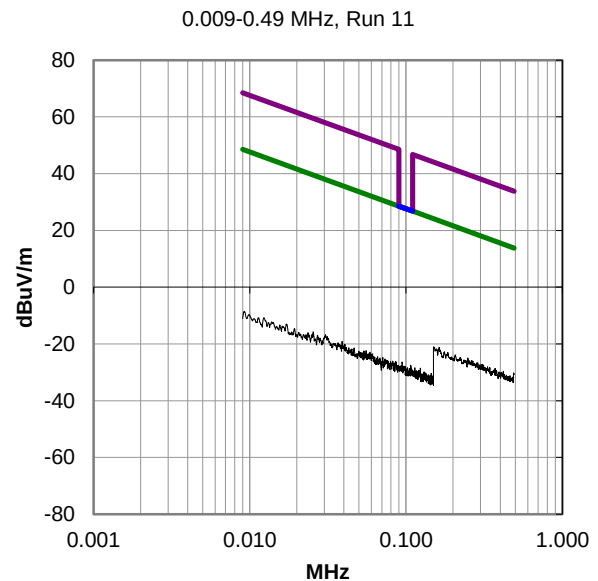
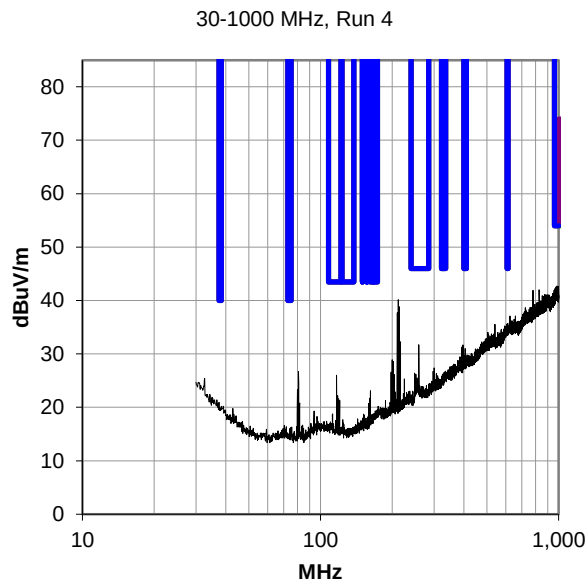


Tested By

SPURIOUS RADIATED EMISSIONS

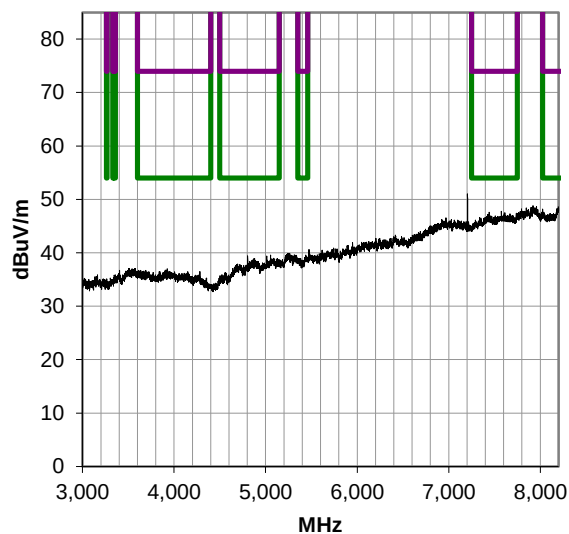
PRESCAN DATA

Radiated spurious emissions from the EUT are initially investigated with Pre-scans (Preview scans). Pre-scans are typically performed with the EUT transmitting on the lowest applicable data rate. The Pre-scan plots below are shown with a peak detector and RBW according to the "Measurement Bandwidths" table in the "Test Setup Block Diagram" section of this report. Above 1 GHz, a reduced video bandwidth is used during prescans to better approximate an average measurement. Final measurements using all appropriate settings according to the standard are further investigated by maximizing the emission with a narrow span and high number of points to ensure emissions are captured accurately. In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off will be shown for comparison.

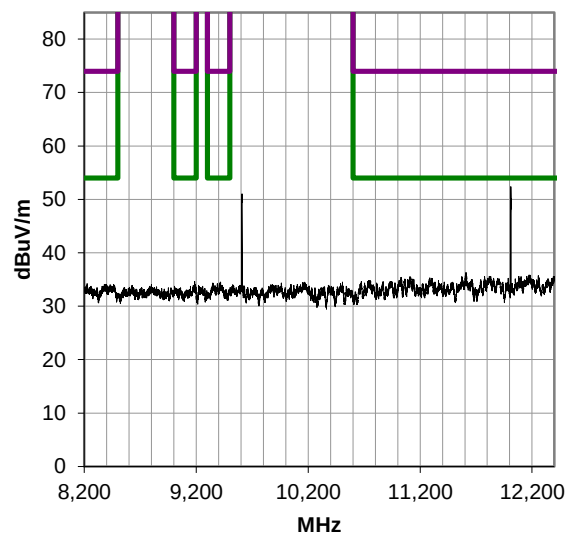


SPURIOUS RADIATED EMISSIONS

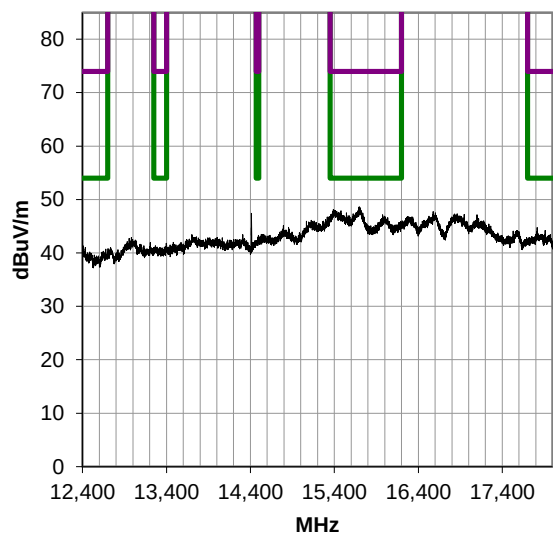
3000-8200 MHz, Run 39



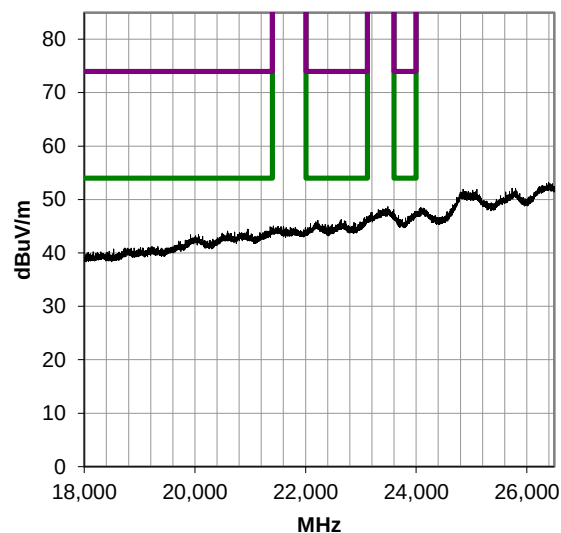
8200-12400 MHz, Run 40



12400-18000 MHz, Run 41



18000-26500 MHz, Run 61



End of Test Report