



Timco Engineering, Inc., an IIA Company
849 NW State Road 45, Newberry, Florida 32669
(352) 472-5500 / testing@timcoengr.com

Timco Test Report # TR_1403-21_FCC_DTS_4

Revision: 4

Issue Date: September 1, 2021

Final Test Date: May 11, 2021



Test Report- FCC PART 15.247 / DTS

Prepared For: TIDI Products, LLC.

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature

(YYYY-MM-DD): 2021-08-16

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Table of Contents

1 CUSTOMER INFORMATION	3
1.1 TEST RESULT SUMMARY	3
2 LOCATION OF TESTING	5
2.1 TESTING WAS PERFORMED, REVIEWED BY:	5
3 TEST SAMPLE(S) (EUT/DUT)	6
3.1 DESCRIPTION OF THE EUT	6
3.2 CONFIGURATION OF EUT	7
3.3 TEST SETUP OF EUT	7
4 TEST METHODS & APPLICABLE REGULATORY LIMITS	8
5 MEASUREMENT UNCERTAINTY	8
6 ENVIRONMENTAL CONDITIONS	8
7 LIST OF TEST EQUIPMENT AND TEST FACILITY	8
8.1 99% OCCUPIED BANDWIDTH	11
99% OCCUPIED BANDWIDTH TEST DATA / SPECTRUM PLOTS	12
8.2 6DB BANDWIDTH (DTS BW)	15
6DB BW TEST DATA / SPECTRUM PLOTS	16
8.3 DTS CONDUCTED OUTPUT POWER	19
CONDUCTED OUTPUT POWER TEST DATA / SPECTRUM PLOTS	20
8.4 POWER SPECTRAL DENSITY (PSD)	23
POWER SPECTRAL DENSITY (PSD) TEST DATA / SPECTRUM PLOTS	24
8.5 SPURIOUS EMISSIONS (OUT OF BAND)	27
8.6 RESTRICTED BANDS OF OPERATION	29
8.7 BAND-EDGE MEASUREMENTS	31
BAND-EDGE TEST DATA / SPECTRUM PLOTS	32
9 ANNEX-A - PHOTOGRAPHS OF THE EUT	34
10 ANNEX-B – TEST SETUP PHOTOGRAPHS	34
11 HISTORY OF TEST REPORT CHANGES	34



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1 Customer Information

Applicant: TIDI Products, LLC.
Address: 570 Enterprise Drive,
Neenah, Wisconsin, 54956, US

1.1 Test Result Summary

The following test procedure and guidance were used for measuring Digital Transmission System (DTS); FCC KDB 558074 D01 DTS Measurement Guidance and ANSI C63.10-2013. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

The Following is for Test item FCC ID: 2AZB4-8309WL

FCC Clauses	Description of the requirements	Result (Pass, Fail or N/A)
Applicable Clauses from Part 2 or KDB		
KDB 558074 D01	99 % Bandwidth	for reporting only
KDB 558074 D01	Band-edge measurements	Pass
Applicable Clauses from Part 15.247		
15.247 (a) (1)	FHSS (i,ii,iii)	N/A
15.247 (a) (2)	6dB Bandwidth	Pass
15.247 (b) (1)	FHSS conducted output power for 2.400-2483.5 MHz	N/A
15.247 (b) (2)	FHSS conducted output power for 902-928 MHz	N/A
15.247 (b) (3)	DTS conducted output power	Pass
15.247 (b) (4)	Conducted output power >6dBi	Pass
15.247 (d) / 15.215 (b)	Spurious Emissions (Out of Band) Emissions in nonrestricted frequency bands	Pass
15.247 (e)	Power Spectral Density (PSD)	Pass
15.247 (g)	FHSS System requirements	N/A
15.247 (h)	FHSS spectrum sensing	N/A
Applicable Clauses from Part 2 and Part 15 Subpart C		
15.207	AC Power Conducted Emissions	N/A
15.211	Tunnel Radio Systems	N/A
15.213	Cable Locating Equipment	N/A



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2 Location of Testing

Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA").
Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45,
Newberry, Florida 32669

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

2.1 Testing was performed, reviewed by:

Dates of Testing: March 25, 2021 – May 11, 2021

Signature: _____

A handwritten signature in black ink, appearing to read "Tim Royer".

Sr. EMC Engineer
EMC-003838-NE



Name & Title: Tim Royer, EMC Engineer

Date of Signature

(YYYY-MM-DD): 2021-08-16

3 Test Sample(s) (EUT/DUT)

The test sample was received: March 25, 2021

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification

FCC ID:	2AZB4-8309WL
Brief Description	Chair Sensor (SKU 8309WL)
Type of Modular	N/A
Model(s) #	8309WL
Trade name	N/A
Firmware version	N/A
Software version	N/A
Serial Number	N/A

Technical Characteristics

Technology	Low Power Device
Frequency Range	2400-2483.5
RF O/P Power (Max.)	2.84 dBm
Modulation	GFSK
Bandwidth & Emission Class	1.07 MHz
Number of Channels	3
Duty Cycle	14 %
Antenna Type	Integrated Trace antenna
Antenna Gain (for each ant.)	0 dBi
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	Battery

Antenna Characteristics

Frequency Range	Mode / BW	Ant Gain 1	Ant Gain 2
2400-2483.5	1.07 MHz	0 dBi	N/A

3.2 Configuration of EUT

Test Modes

Band	Mode	BW (nominal)	Modulation	Number of Ant.
2400-2480	1	1.07 MHz	GFSK	1

Test Frequencies	Number of Ant.
2402 MHz, 2440 MHz, 2480 MHz	1

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

No peripherals used.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

4 Test methods & Applicable Regulatory Limits

Test methods/Standards/Guidance:

Test procedures and guidance for measuring Digital Transmission System (DTS) are provided in the FCC KDB 558074 D01 DTS Measurement Guidance and in Clause 11 of ANSI C63.10-2013.

- 1) ANSI C63.10-2013;
- 2) FCC KDB 558074 D01

Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 15.247

5 Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	1.42
Radiated Emissions (30 – 200 MHz)	5.49
Radiated Emissions (200 – 1000 MHz)	5.79
Radiated Emissions (1 GHz – 18 GHz)	4.37
The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6 Environmental Conditions

Temperature & Humidity

Measurements performed at the test site did not exceed the following:

TEMPERATURE	23 C +/- 5%
HUMIDITY	55% +/- 5%
BARAMETRIC PRESSURE	30.05 inHg

Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.

7 List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.



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Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

List of Test Equipment

Device	Manufacturer	Model	SN #	Current Cal	Cal Due
Active Loop	ETS-Lindgren	6502	00062529	10/20/20	10/20/2023
Biconical 1057	Eaton	94455-1	1057	10/16/20	10/16/2023
Log-Periodic 1243	Eaton	96005	1243	5/20/18	5/19/2021
Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	10/14/20	10/14/2023
Double-Ridged Horn 18-40 GHz	EMCO	3116	9011-2145	10/19/20	10/19/2023
CHAMBER	Panashield	3M	N/A	3/12/19	3/11/2022
Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	2/27/19	2/26/2022
EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	8/28/18	8/27/2021

8 Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

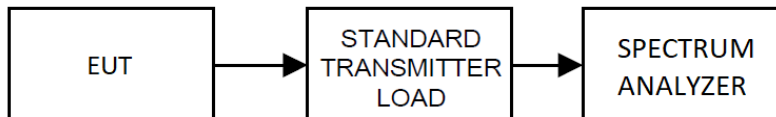
Units of measurement

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

8.1 99% Occupied Bandwidth

Requirement from FCC KDB 558074 D01 and test procedure from ANSI C63.10-2013 section 6.9.3

Setup

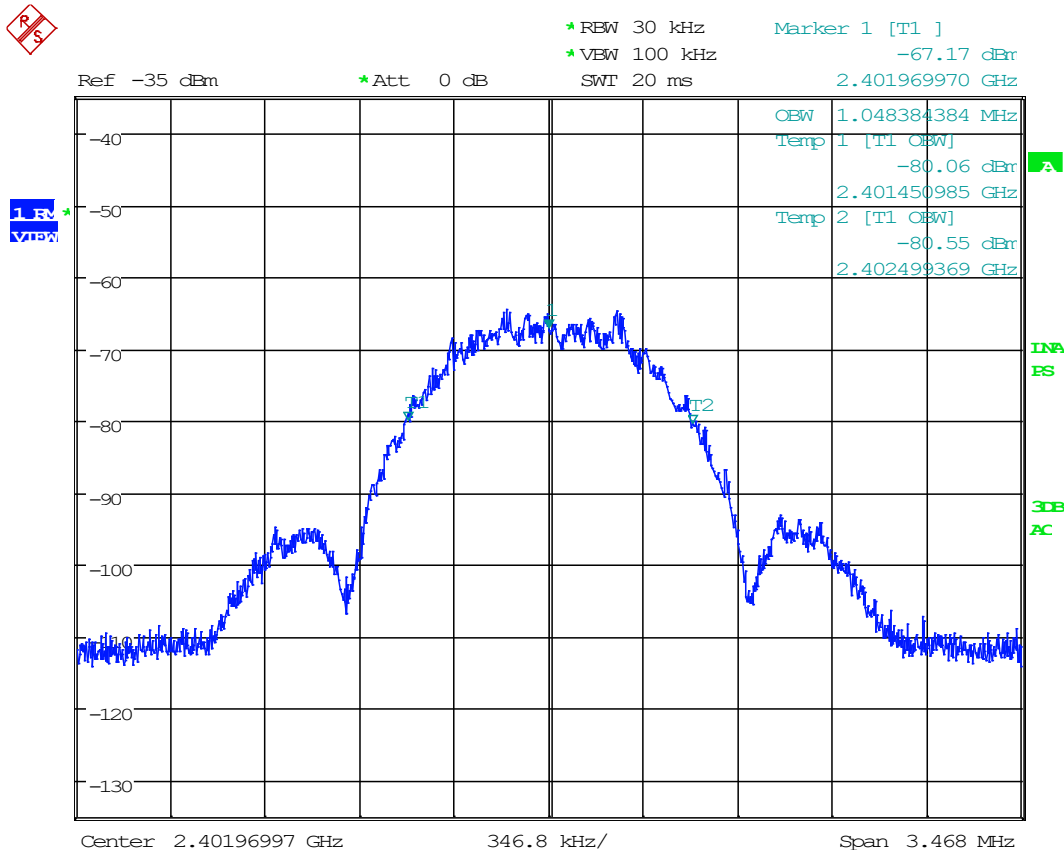


99% BW Test Results

Tuned Frequency (MHz)	99% BW (MHz)
2402	1.04
2440	1.06
2480	1.07

99% Occupied Bandwidth Test Data / Spectrum Plots

99% BW at 2402 MHz

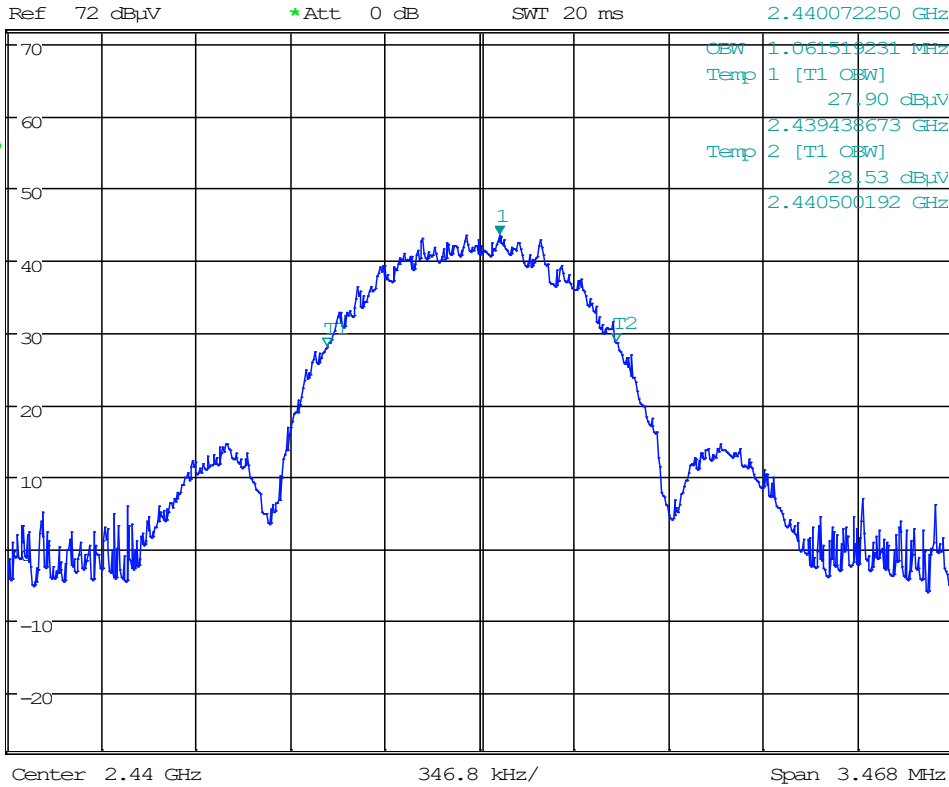


Date: 26.MAR.2021 12:20:49

99% BW at 2440 MHz

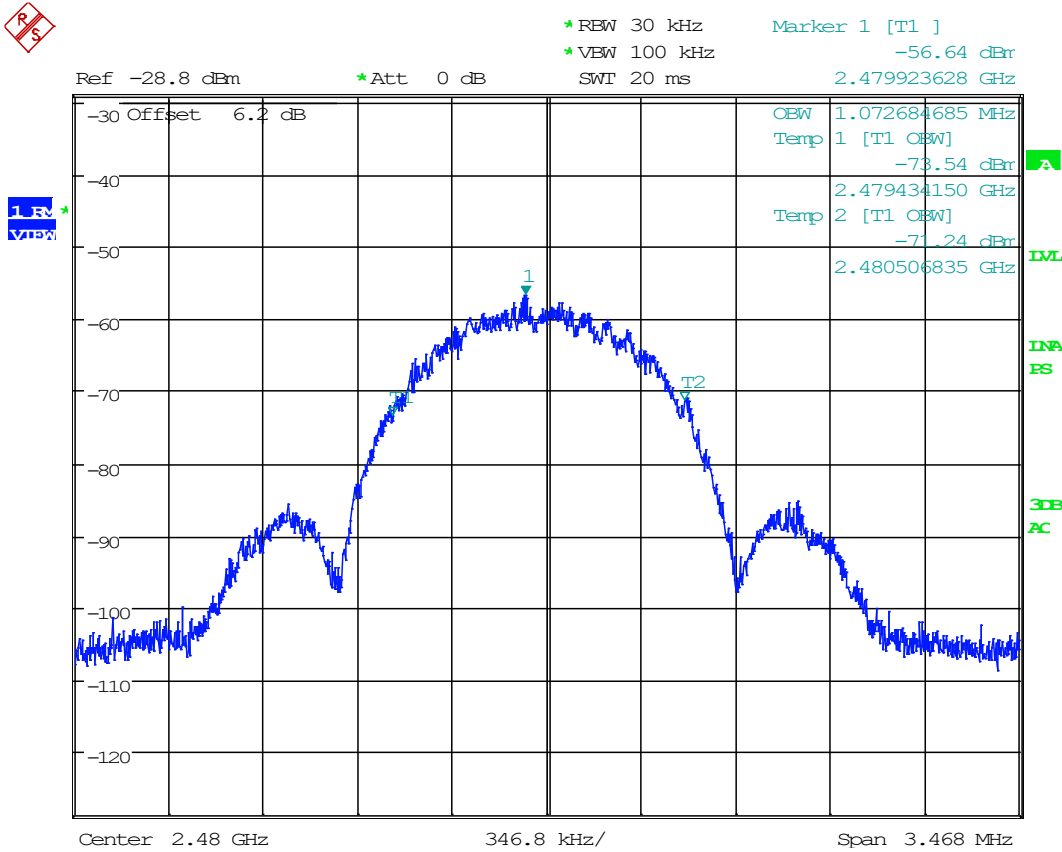


*RBW 30 kHz Marker 1 [T1]
*VBW 100 kHz 43.58 dBμV
SWT 20 ms 2.440072250 GHz



Date: 26.MAR.2021 12:54:23

99% BW at 2480 MHz

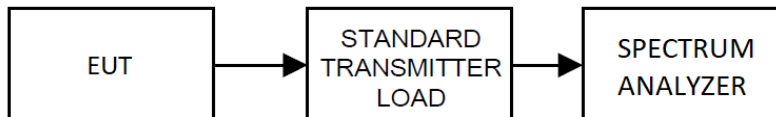


Date: 26.MAR.2021 12:58:24

8.2 6dB Bandwidth (DTS BW)

Limits from FCC Part 15.247 (a) (2) and test procedure from ANSI C63.10-2013 section 11.8

Setup

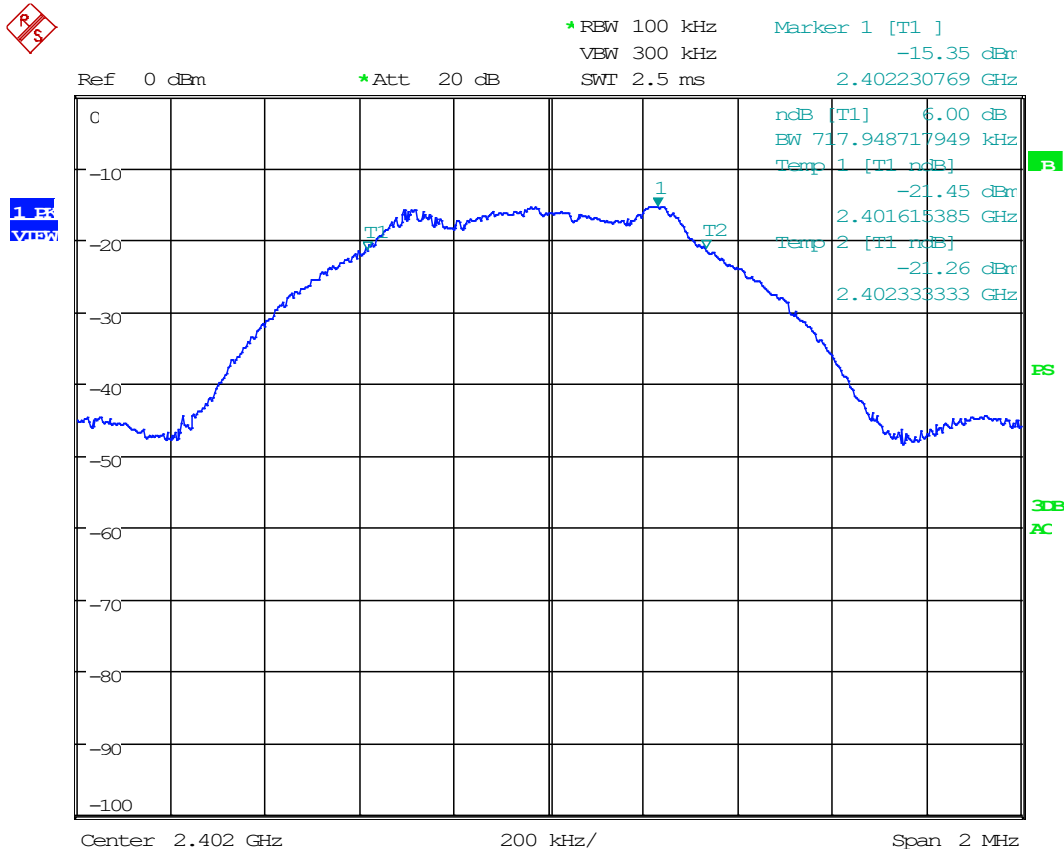


6dB BW Results

Tuned Frequency (MHz)	6dB Bandwidth (DTS BW) (MHz)
2402	0.717
2440	0.641
2480	0.641

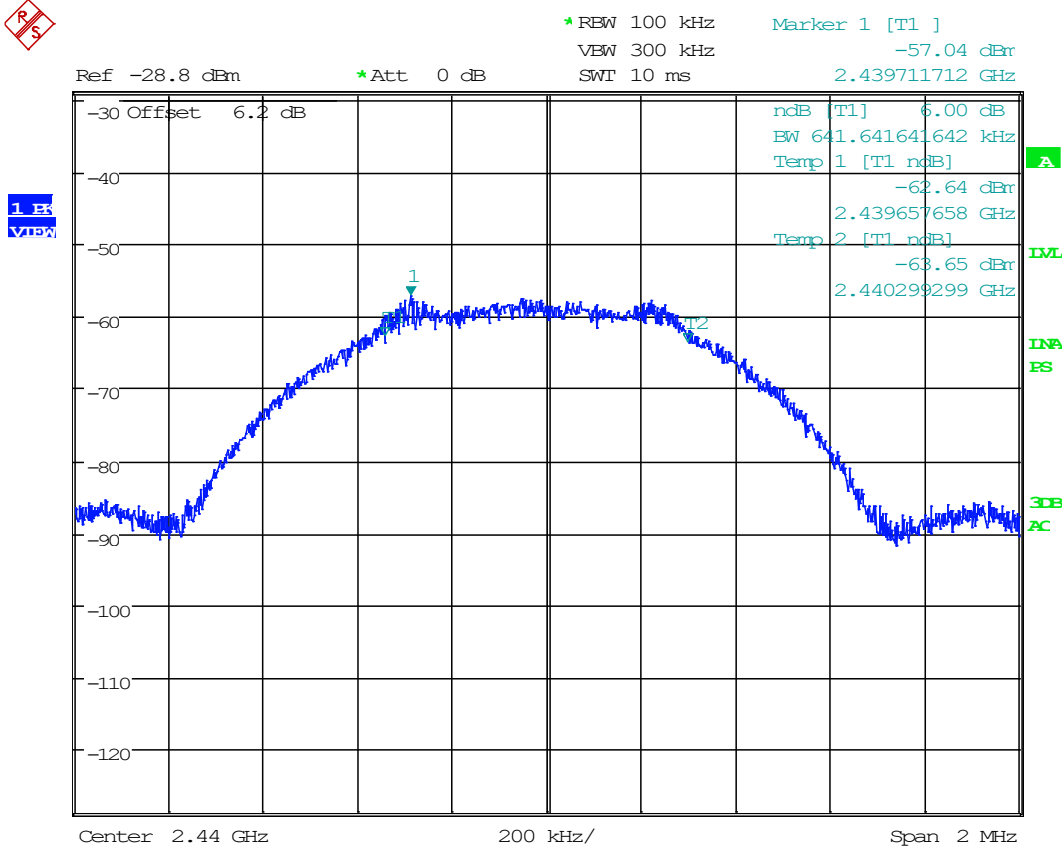
6dB BW Test Data / Spectrum Plots

6dB Bandwidth (DTS BW) at 2402 MHz



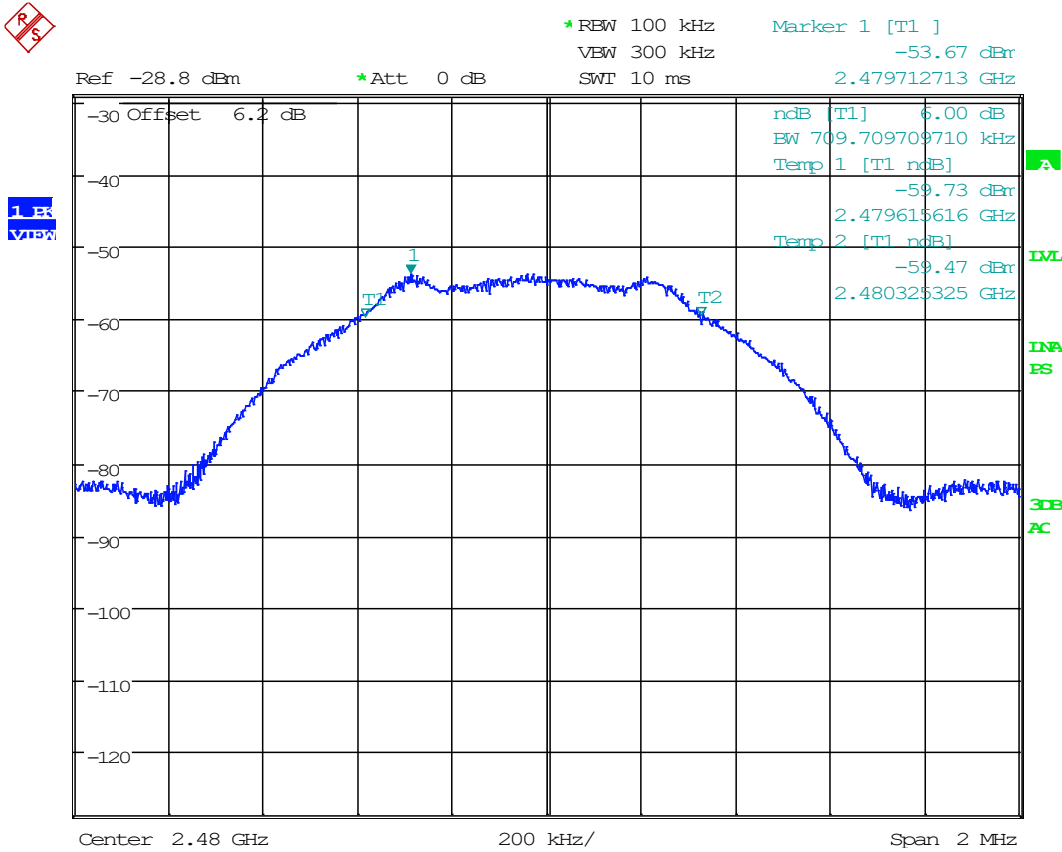
Date: 26.MAR.2021 14:39:54

6dB Bandwidth (DTS BW) at 2440 MHz



Date: 26.MAR.2021 12:55:30

6dB Bandwidth (DTS BW) at 2480 MHz

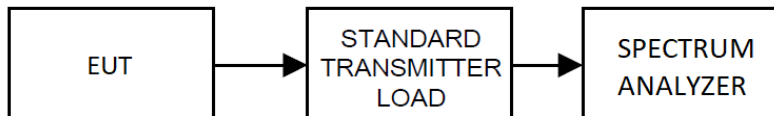


Date: 26.MAR.2021 12:58:00

8.3 DTS conducted output power

Limits from FCC Part 15.247 (b) (3) and test procedure from ANSI C63.10-2013 section 11.9

Setup



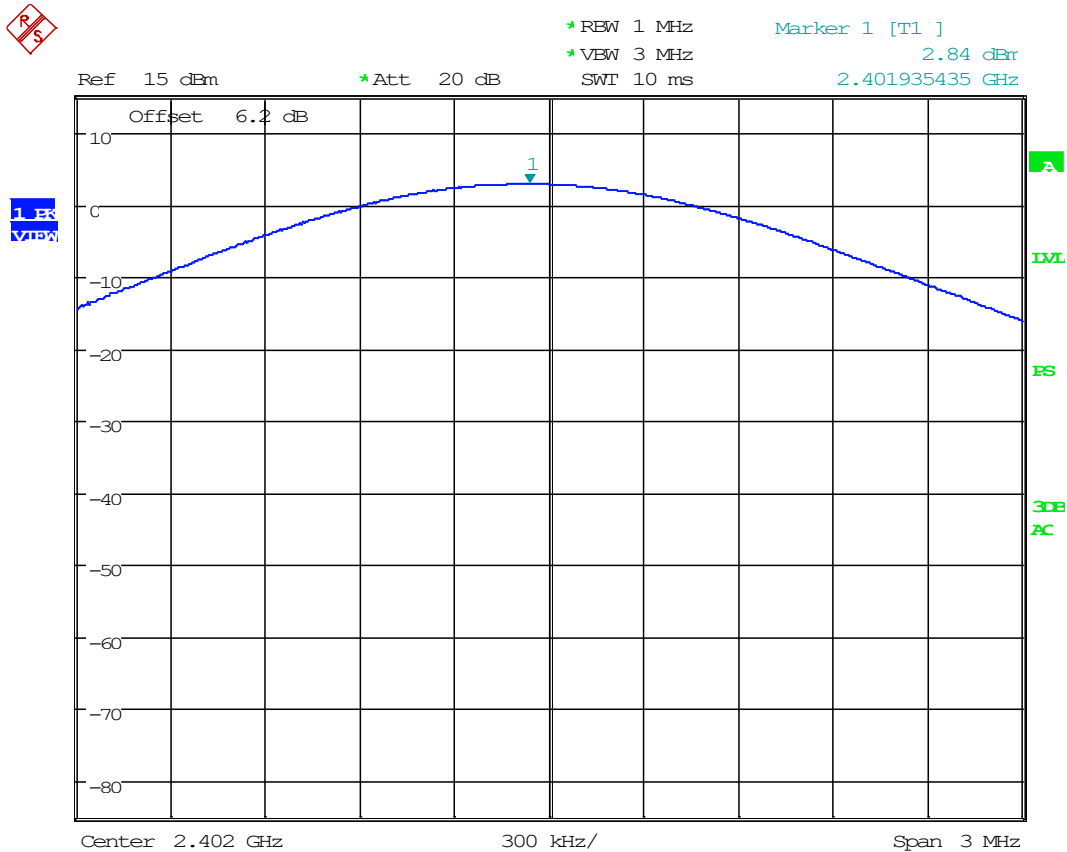
Conducted Output Power Test Results

Tuned Frequency (MHz)	Power Output (dBm)
2402	2.84
2440	2.56
2480	2.42

- **MAXIMUM Conducted Output Power = 2.84 dBm**

Conducted Output Power Test Data / Spectrum Plots

Conducted Output Power at 2402 MHz

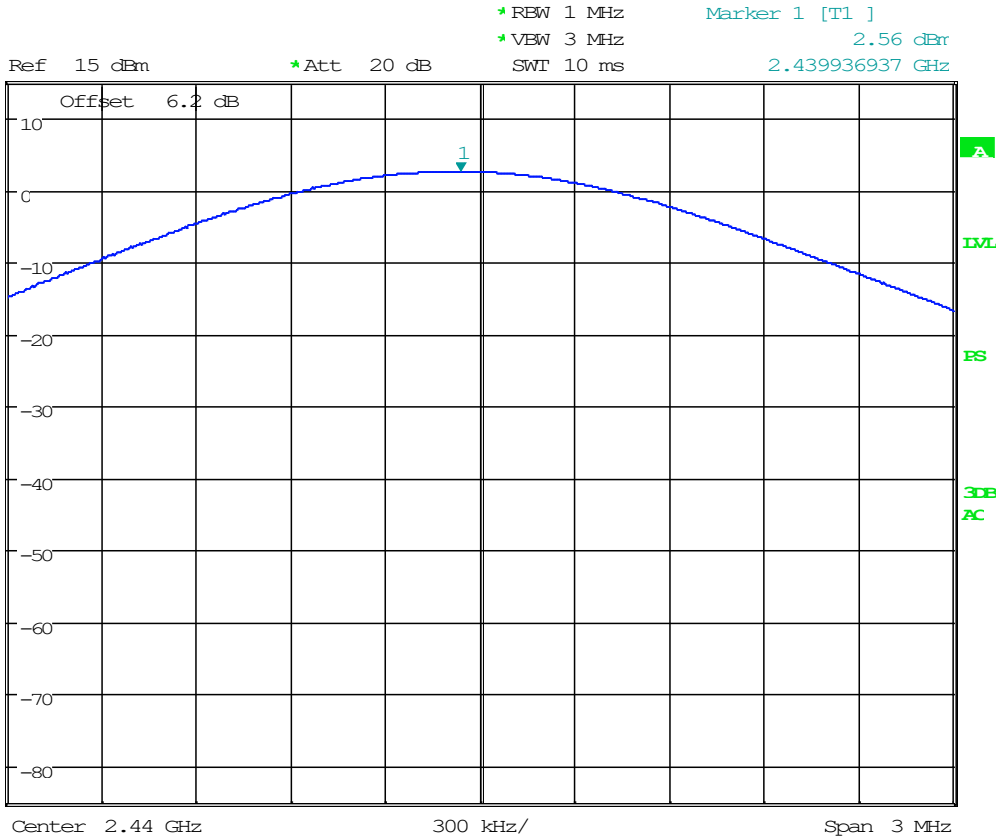


Date: 13.JAN.2003 05:29:02

Conducted Output Power at 2440 MHz

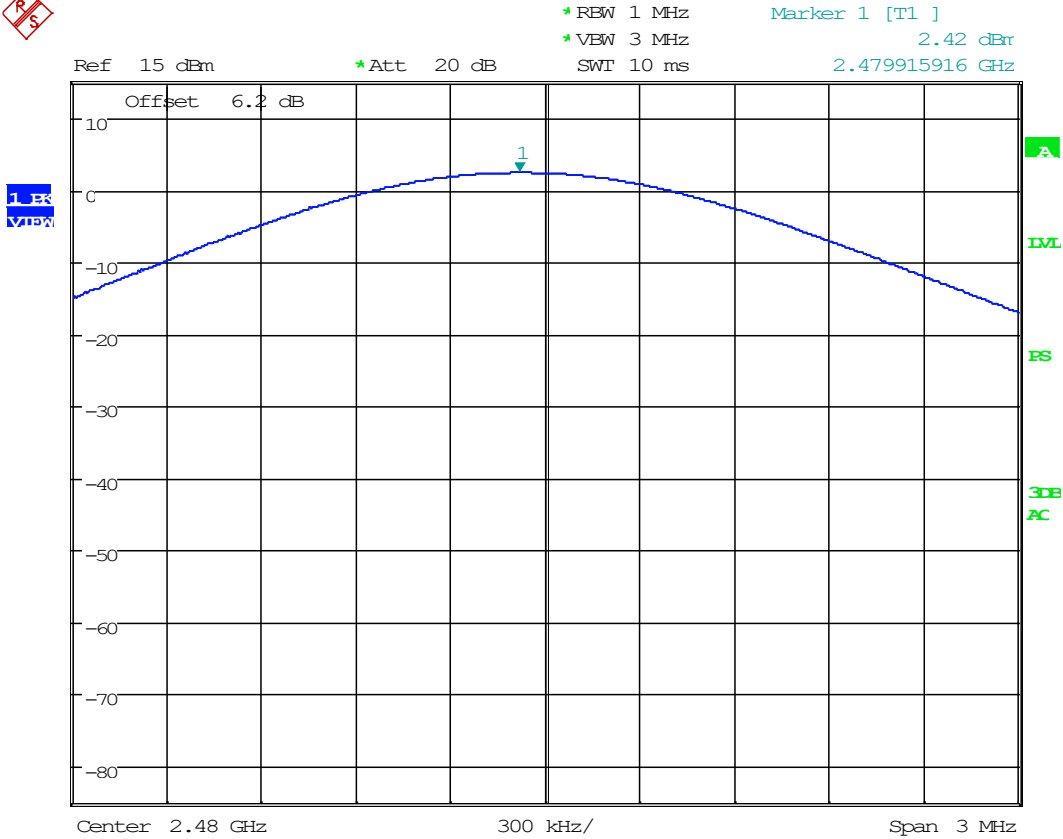


1.33
V192



Date: 13.JAN.2003 05:30:59

Conducted Output Power at 2480 MHz

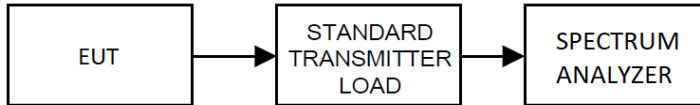


Date: 13.JAN.2003 05:31:59

8.4 Power Spectral Density (PSD)

Limits from FCC Part 15.247 (e) and test procedure from ANSI C63.10-2013 section 11.10

Setup



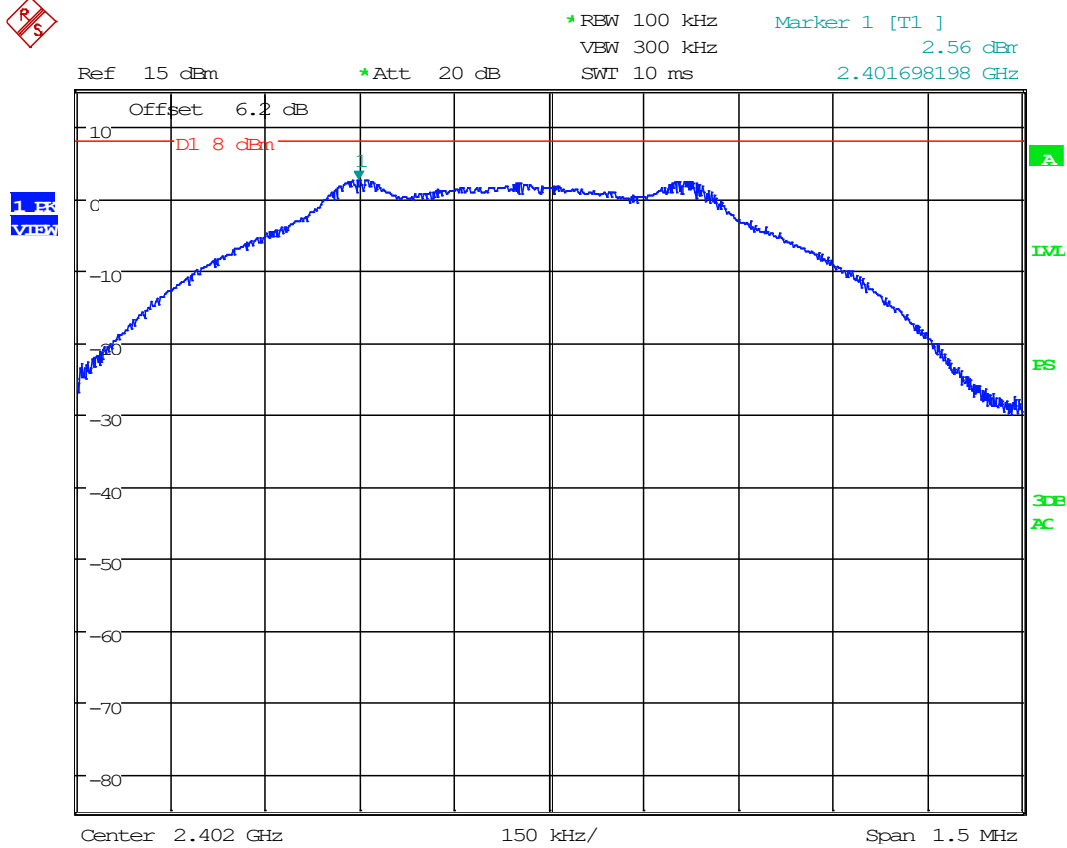
PSD Test Results

Tuned Frequency (MHz)	PSD Level (dBm)
2402	2.56
2440	2.29
2480	2.20



Power Spectral Density (PSD) Test Data / Spectrum Plots

PSD at 2402 MHz

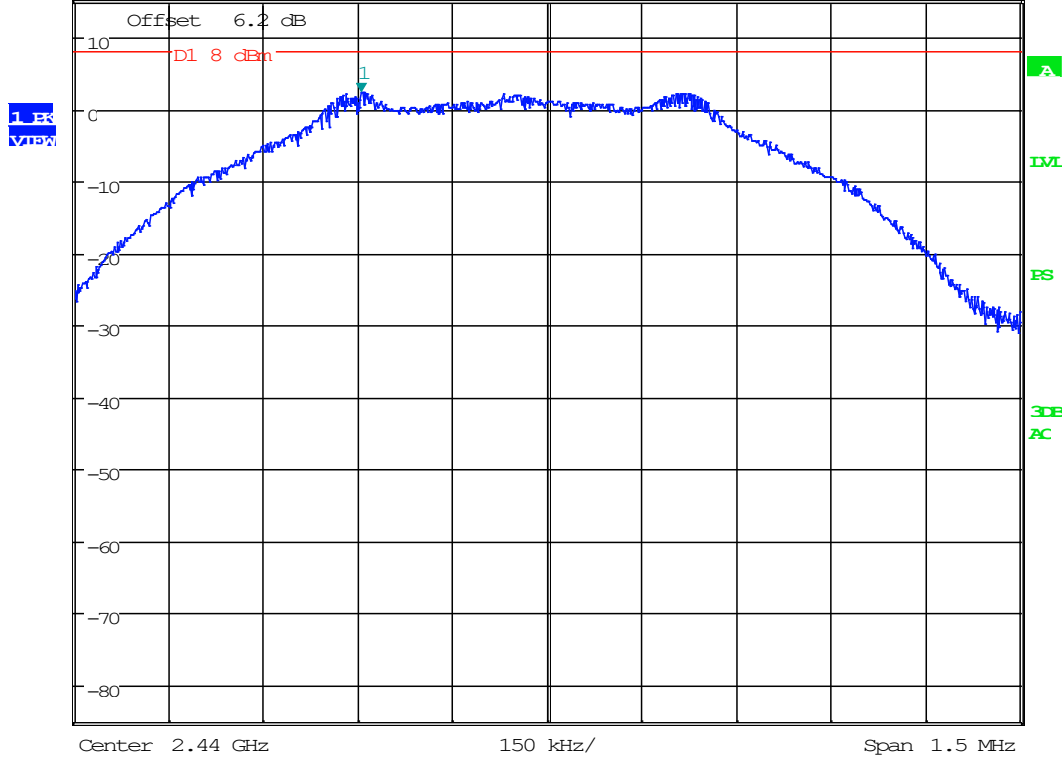


Date: 13.JAN.2003 06:36:30

PSD at 2440 MHz



*RBW 100 kHz Marker 1 [T1]
 *Att 20 dB 2.29 dBm
 SWI 10 ms 2.439704955 GHz



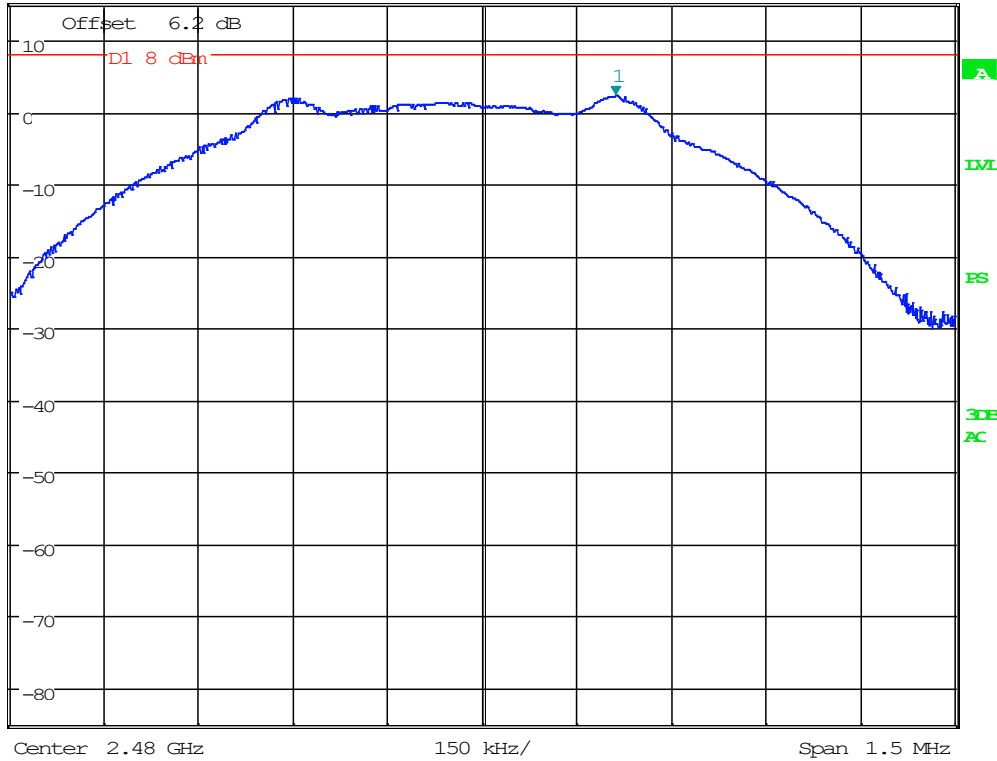
Date: 13.JAN.2003 06:35:14

PSD at 2480 MHz



*RBW 100 kHz Marker 1 [T1]
 *Att 20 dB 2.20 dBm
 Ref 15 dBm 2.480211712 GHz
 Offset 6.2 dB
 DI 8 dBm
 3dB AC

1.33
 V192



Date: 13.JAN.2003 06:33:59

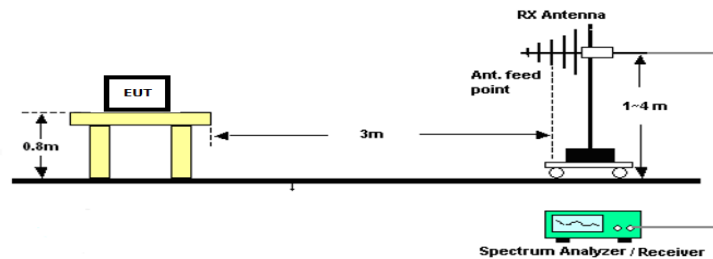
8.5 Spurious Emissions (Out of Band)

Emissions in nonrestricted frequency bands

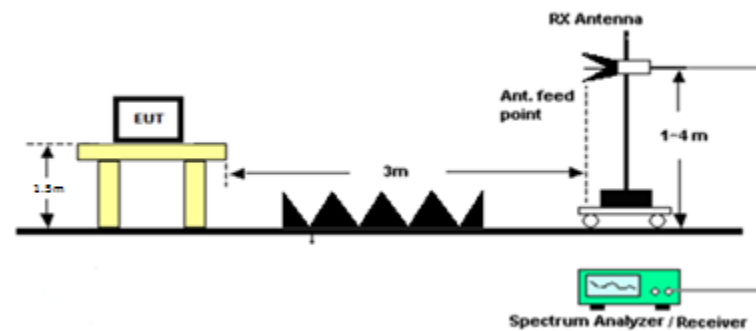
Limits from FCC Part 15.247 (d) and 15.215 (b) and test procedure from ANSI C63.10-2013 section 11.11

Setup

Emissions 30 – 1000 MHz



Emissions above 1 GHz





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Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit	Margin (dB)
2402.00	7206.00		PK	13.78	H	9.54	23.11	36.39	3.00	36.61	75.35	38.75
2402.00	7206.00		PK	10.99	V	9.54	23.11	36.39	3.00	33.82	75.35	41.54
2402.00	9608.00		PK	-0.43	H	10.70	23.11	36.62	3.00	23.78	75.35	51.57
2402.00	9608.00		PK	-1.29	V	10.70	23.11	36.62	3.00	22.92	75.35	52.43
2402.00	14412.00		PK	-4.16	H	13.35	23.11	39.75	3.00	25.83	75.35	49.52
2402.00	14412.00		PK	-3.61	V	13.35	23.11	39.75	3.00	26.38	75.35	48.97
2402.00	16814.00		PK	-1.54	H	14.60	23.11	42.34	3.00	32.30	75.35	43.06
2402.00	16814.00		PK	-1.34	V	14.60	23.11	42.34	3.00	32.50	75.35	42.86

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit	Margin (dB)
2440.00	9760.00		PK	-3.42	H	10.98	23.11	36.83	3.00	21.28	75.35	54.08
2440.00	9760.00		PK	-2.18	V	10.98	23.11	36.83	3.00	22.52	75.35	52.84
2440.00	14640.00		PK	-3.38	H	13.68	23.11	40.27	3.00	27.46	75.35	47.89
2440.00	14640.00		PK	-3.02	V	13.68	23.11	40.27	3.00	27.82	75.35	47.53
2440.00	17080.00		PK	-0.88	H	14.72	23.11	42.43	3.00	33.17	75.35	42.19
2440.00	17080.00		PK	-1.37	V	14.72	23.11	42.43	3.00	32.68	75.35	42.68

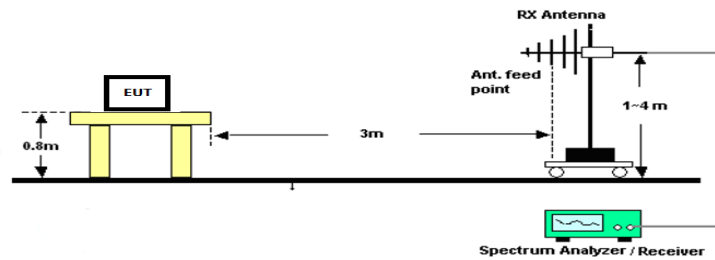
Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit	Margin (dB)
2480.00	9920.00		PK	-2.00	H	11.15	23.11	37.08	3.00	23.12	75.35	52.23
2480.00	9920.00		PK	-2.53	V	11.15	23.11	37.08	3.00	22.59	75.35	52.76
2480.00	14880.00		PK	-3.37	H	13.44	23.11	40.29	3.00	27.26	75.35	48.09
2480.00	14880.00		PK	-3.52	V	13.44	23.11	40.29	3.00	27.11	75.35	48.24
2480.00	17360.00		PK	-2.14	H	15.01	23.11	42.52	3.00	32.28	75.35	43.08
2480.00	17360.00		PK	-1.37	V	15.01	23.11	42.52	3.00	33.05	75.35	42.31

8.6 Restricted Bands of Operation

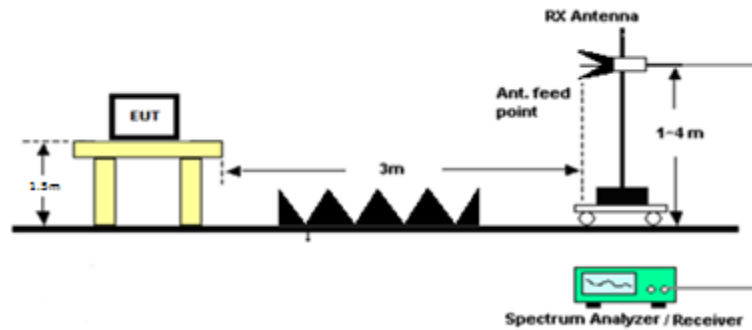
Limits from FCC Part 15.209

Setup

Emissions 30 – 1000 MHz



Emissions above 1 GHz





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Plots

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit	Margin (dB)
2402.00	4804.00	X	PK	13.08	H	7.10	23.11	33.93	3.00	31.00	73.98	42.98
2402.00	4804.00	X	PK	11.24	V	7.10	23.11	33.93	3.00	29.16	73.98	44.82
2402.00	4804.00	X	AVG	-7.60	H	7.10	23.11	33.93	3.00	10.32	53.98	43.66
2402.00	4804.00	X	AVG	-4.50	V	7.10	23.11	33.93	3.00	13.42	53.98	40.56
2402.00	12010.00	X	PK	-1.81	H	12.40	23.11	39.08	3.00	26.56	73.98	47.42
2402.00	12010.00	X	PK	-0.35	V	12.40	23.11	39.08	3.00	28.02	73.98	45.96
2402.00	12010.00	X	AVG	-23.90	H	12.40	23.11	39.08	3.00	4.47	53.98	49.51
2402.00	12010.00	X	AVG	-24.00	V	12.40	23.11	39.08	3.00	4.37	53.98	49.61

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit	Margin (dB)
2440.00	4880.00	X	PK	2.24	H	7.33	23.11	33.93	3.00	20.39	73.98	53.59
2440.00	4880.00	X	PK	2.05	V	7.33	23.11	33.93	3.00	20.20	73.98	53.78
2440.00	4880.00	X	AVG	-21.40	H	7.33	23.11	33.93	3.00	-3.25	53.98	57.23
2440.00	4880.00	X	AVG	-21.03	V	7.33	23.11	33.93	3.00	-2.88	53.98	56.86
2440.00	7320.00	X	PK	-0.42	H	9.61	23.11	36.24	3.00	22.32	73.98	51.66
2440.00	7320.00	X	PK	-0.18	V	9.61	23.11	36.24	3.00	22.56	73.98	51.42
2440.00	7320.00	X	AVG	-22.00	H	9.61	23.11	36.24	3.00	0.74	53.98	53.24
2440.00	7320.00	X	AVG	-22.00	V	9.61	23.11	36.24	3.00	0.74	53.98	53.24
2440.00	12200.00	X	PK	-2.34	H	12.52	23.11	39.23	3.00	26.30	73.98	47.67
2440.00	12200.00	X	PK	-2.42	V	12.52	23.11	39.23	3.00	26.22	73.98	47.75
2440.00	12200.00	X	AVG	-24.20	H	12.52	23.11	39.23	3.00	4.44	53.98	49.53
2440.00	12200.00	X	AVG	-24.10	V	12.52	23.11	39.23	3.00	4.54	53.98	49.43

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205 Restricted Band	15.205, 15.35, 15.247(d) Detector	Meter Reading (dBμV)	Antenna Polarity	Coax Loss (dB)	Duty Cycle Correction (dB)	Antenna Correction Factor (dB/m)	Distance (m)	Field Strength (dBμV/m)	Limit	Margin (dB)
2480.00	4960.00	X	PK	15.20	H	7.72	23.11	33.96	3.00	33.77	73.98	40.21
2480.00	4960.00	X	PK	14.91	V	7.72	23.11	33.96	3.00	33.48	73.98	40.50
2480.00	4960.00	X	AVG	-9.27	H	7.72	23.11	33.96	3.00	9.30	53.98	44.68
2480.00	4960.00	X	AVG	-2.90	V	7.72	23.11	33.96	3.00	15.67	53.98	38.31
2480.00	7440.00	X	PK	12.12	H	9.56	23.11	36.01	3.00	34.59	73.98	39.39
2480.00	7440.00	X	PK	10.09	V	9.56	23.11	36.01	3.00	32.56	73.98	41.42
2480.00	7440.00	X	AVG	-0.20	H	9.56	23.11	36.01	3.00	22.27	53.98	31.71
2480.00	7440.00	X	AVG	-15.27	V	9.56	23.11	36.01	3.00	7.20	53.98	46.78
2480.00	12400.00	X	PK	-2.83	H	12.54	23.11	39.23	3.00	25.84	73.98	48.14
2480.00	12400.00	X	PK	-2.46	V	12.54	23.11	39.23	3.00	26.21	73.98	47.77
2480.00	12400.00	X	AVG	-21.00	H	12.54	23.11	39.23	3.00	7.67	53.98	46.31
2480.00	12400.00	X	AVG	-22.60	V	12.54	23.11	39.23	3.00	6.07	53.98	47.91



8.7 Band-edge measurements

Requirement from FCC KDB 558074 D01 and test procedure from ANSI C63.10-2013 section 11.13

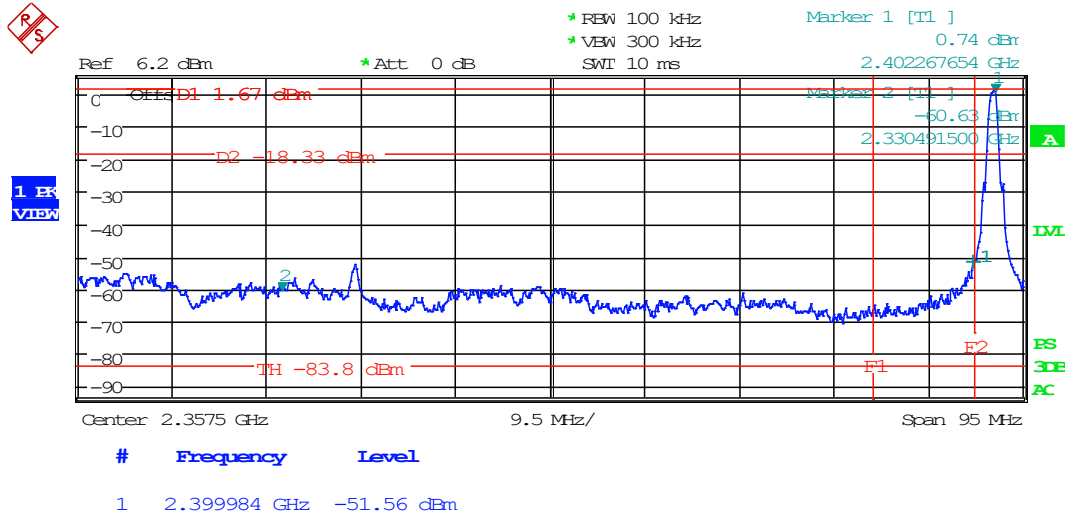
General

Emissions within a restricted band and within 2 MHz of an authorized band edge may be measured using either the marker-delta method or the integration method, which is described in 11.13.3, provided that the DTS bandwidth (or EBW) edge falls within 2 MHz of the band edge. Otherwise, all unwanted emissions measurements shall be performed using the standard methods.



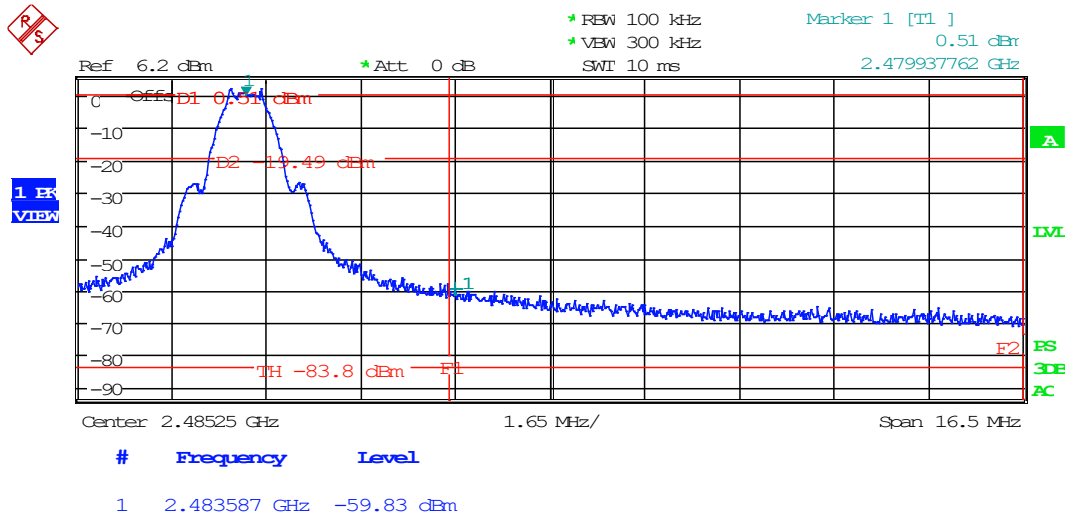
Band-edge Test Data / Spectrum Plots

Lower Band-edge spectrum plot



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Upper Band-edge spectrum plot



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Upper Band-edge spectrum Table

Tuned Frequency (MHz)	Emission Frequency (MHz)	15.205, 15.35, 15.247(d) Detector	Field Strength (dBμV/m)	Antenna Polarity	Delta (dB)	Corrected Field Strength (dBμV/m)	Distance (m)	Limit	Margin (dB)
2480.00	2483.58	PK	93.22	H	59.83	32.14	3.00	54.00	21.86
2480.00	2483.58	AVG	92.92	H	59.83	32.14	3.00	54.00	21.86



9 ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT
Are in a separate supplementary ANNEX-A document.

10 ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate supplementary ANNEX-B document.

11 History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_1403-21_FCC_DTS_1	1	Initial release	5/12/2021
TR_1403-21_FCC_DTS_2	2	Updated with new power output	5/26/2021
TR_1403-21_FCC_DTS_3	3	Updated power output typo	08/16/2021
TR_1403-21_FCC_DTS_4	4	Clerical updates on test results table per customer request	09/01/2021



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END of Test Report
