



RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Frequency hopping systems operating within the 2400 – 2483.5 MHz band	
Report Reference No	G0M-1709-6878-TFC247BT_BT1-V02
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	 <p>A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Test Firm Designation Number: DE0008 IC Testing Laboratory site: 3470A-2</p>
Applicant	peiker CEE GmbH
Address	Gartenstraße 25 61352 Bad Homburg GERMANY
Test Specification	According to FCC/ISED rules
Standard	47 CFR Part 15C RSS-247, Issue 2, 2017-02
Non-Standard Test Method	None
Test Scope	Full compliance test
Equipment under Test (EUT):	
Product Description	CEECOACH
Model(s)	CC2
Additional Model(s)	None
Brand Name(s)	CEECOACH
Hardware Version(s)	2.0
Software Version(s)	2.0
FCC-ID	2ANUYCC2
IC	23265-CEECOACH
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 - 23 °C	
Test Lab Humidity	32 – 38 %	
Date of receipt of test item	2017-09-29	
Report:		
Compiled by	Burkhard Pudell	
Tested by (+ signature) (Responsible for Test)	Burkhard Pudell	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2021-06-14	
Total number of pages	138	
General Remarks:		
<p>The test results presented in this report relate only to the object tested.</p> <p>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		
Additional Comments:		
<p>The customer declared an additional identical model with model name CC21 (Product Type Description: CEECOACH; Brand Name: CEECOACH; Hardware Version: 2.0; Software Version: 2.0; PMN: CEECOACH2; HVIN: CC21). This additional model has not been tested.</p> <p>The power table declared by the customer is shown in clause 3.6.7 (Additional Information in accordance with the declared values of the used power table).</p>		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2017-11-28	Initial Release	
02	2021-06-14	Replaced document: G0M-1709-6878-TFC247BT_BT1-V01 Replaced by: G0M-1709-6878-TFC247BT_BT1-V02 Reason: Applicant's name corrected.	B. Pudell

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BR	Bluetooth Basic Rate mode
EDR	Bluetooth Enhanced Data Rate mode
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

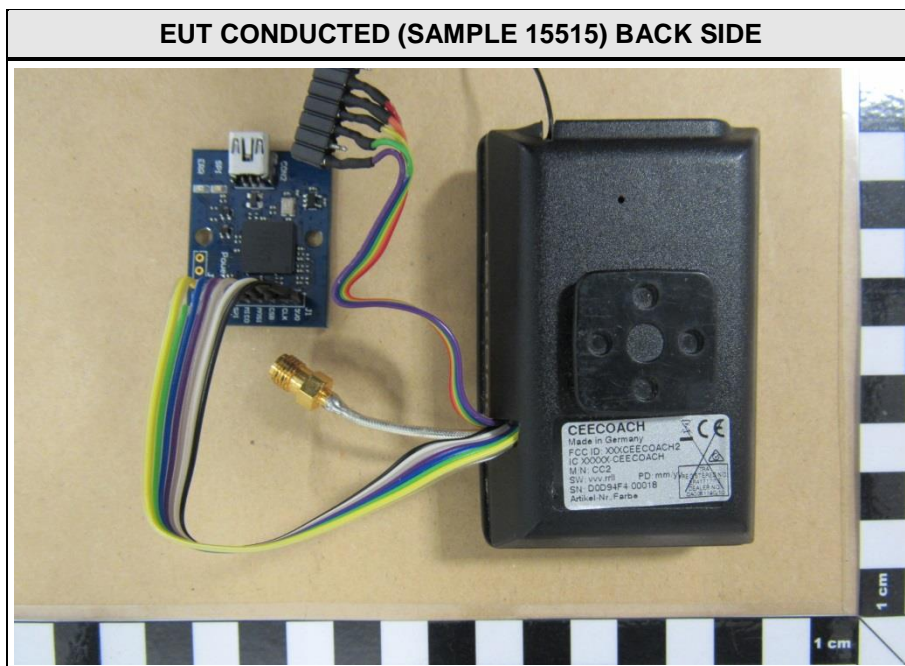
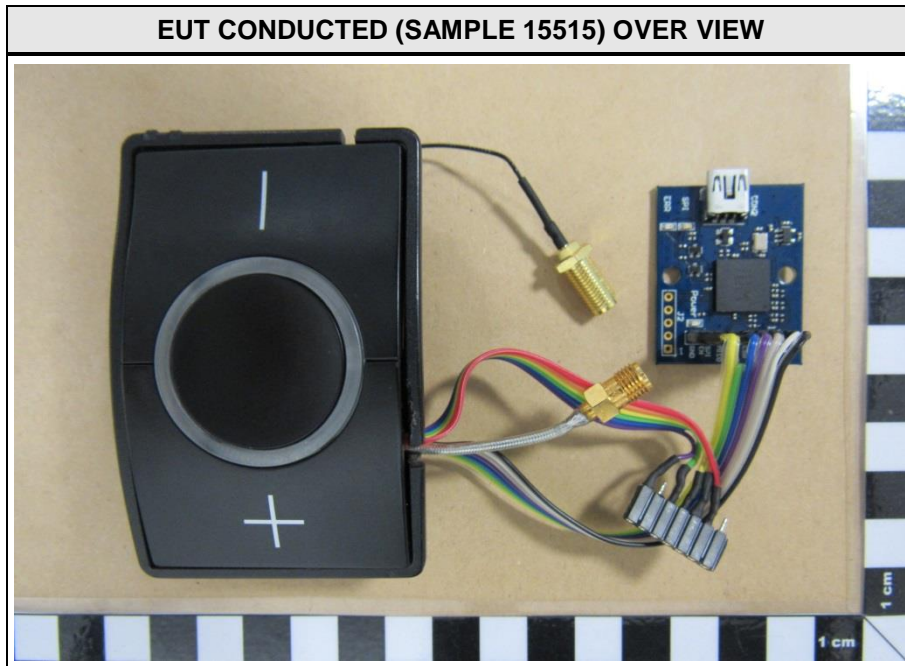
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1 Equipment (Test Item) Under Test

Description	CEECOACH	
Model	CC2	
Additional Model(s)	None	
Brand Name(s)	CEECOACH	
Serial Number(s)	Not specified	
Hardware Version(s)	2.0	
Software Version(s)	2.0	
PMN	CEECOACH2	
HVIN	CC2	
FVIN	None	
HMN	None	
FCC-ID	2ANUYCC2	
IC	23265-CEECOACH	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400 - 2483.5 MHz	
Radio technology	Bluetooth	
Modulation	GFSK, PI/4-DQPSK, 8-DPSK	
Number of antenna ports	1	
Antenna	Type	Integrated antenna
	Model	PCB
	Manufacturer	Not specified
	Gain	2 dBi
Supply Voltage	V_{NOM}	5.0 VDC
Operating Temperature	T_{NOM}	20 °C
AC/DC-Adaptor	Model	KSA01A5210100D5
	Vendor	KUANTECH
	Input	100.0 V – 240.0 VAC
	Output	5.0 VDC
Manufacturer	peiker CEE GmbH Gartenstraße 25 61352 Bad Homburg GERMANY	

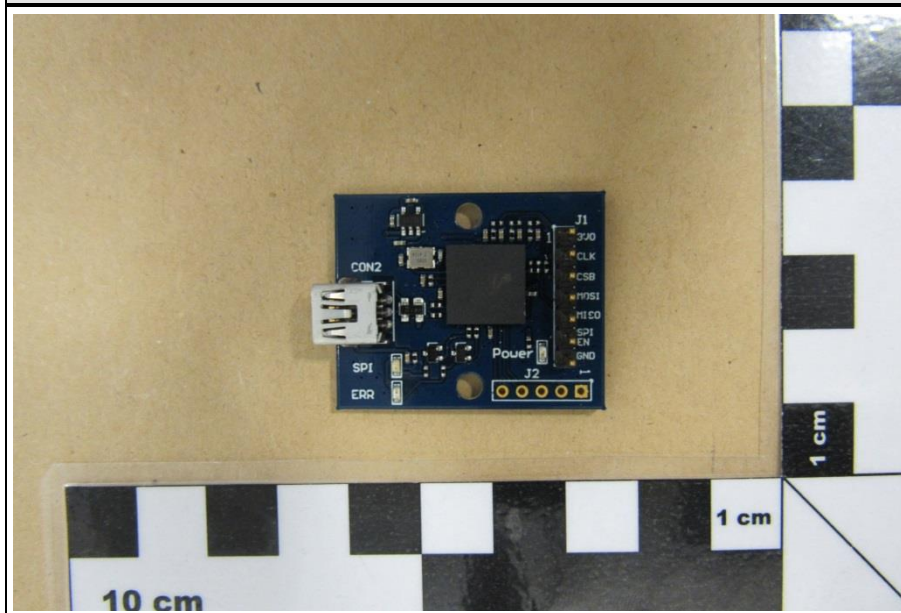
1.1 Photos – Equipment External



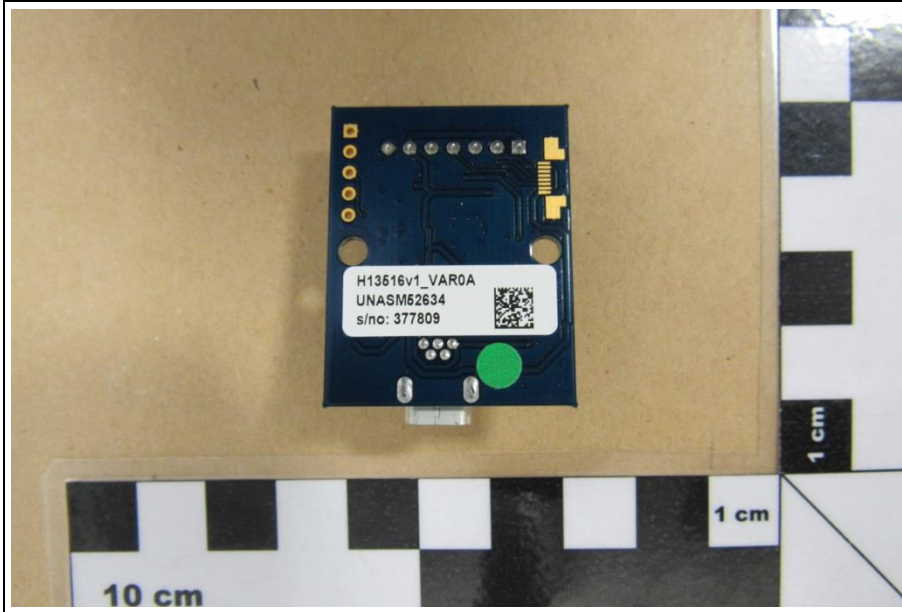
EUT CONDUCTED (SAMPLE 15515) SIDE VIEW



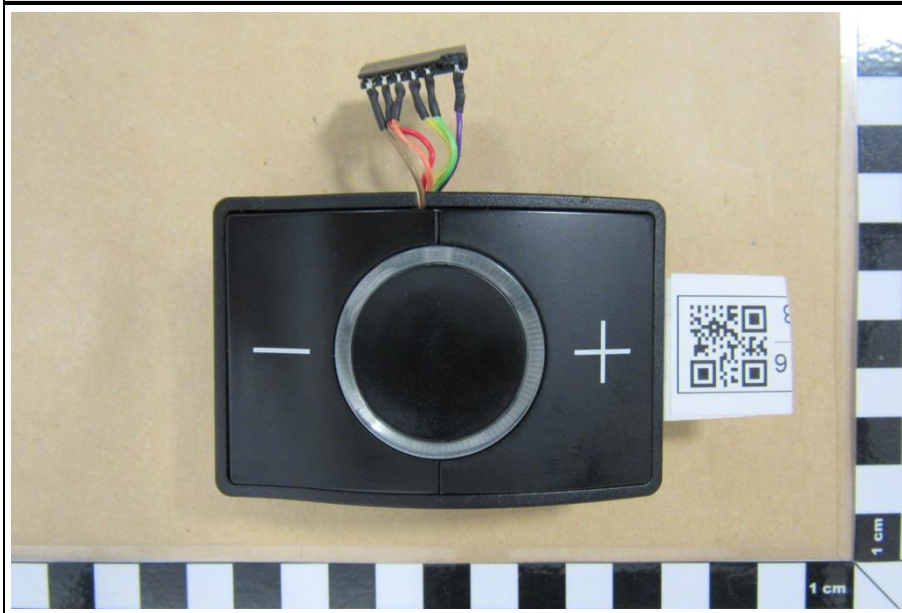
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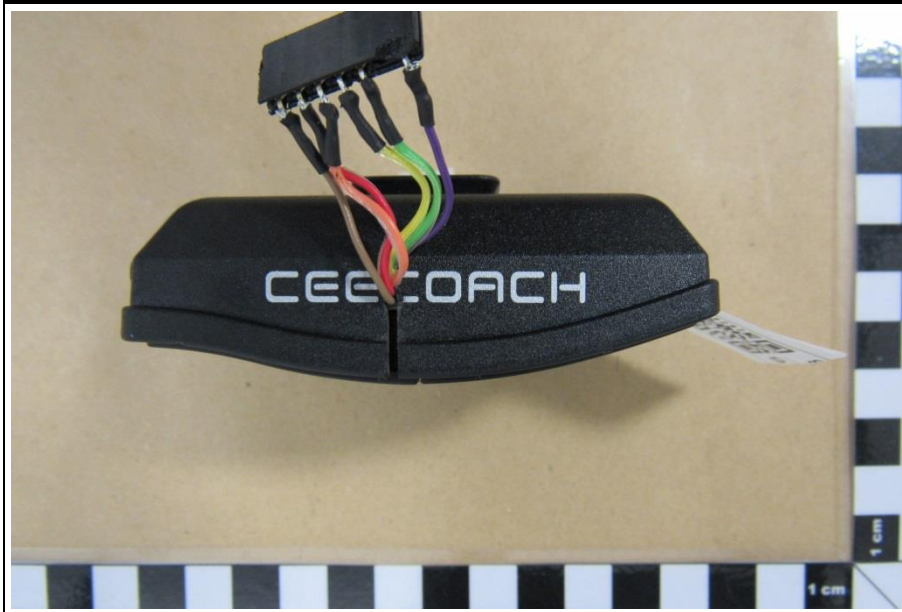
EUT CONDUCTED (SAMPLE 15515) CSR SPI ADAPTER (B)



EUT RADIATED (SAMPLE 15678) OVER VIEW



EUT RADIATED (SAMPLE 15678) SIDE VIEW (A)



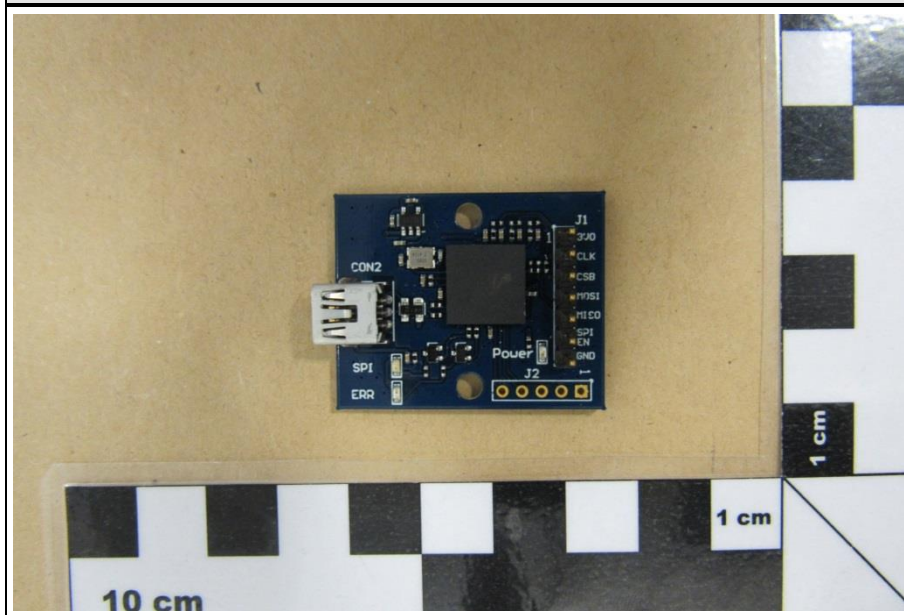
EUT RADIATED (SAMPLE 15678) SIDE VIEW (B)



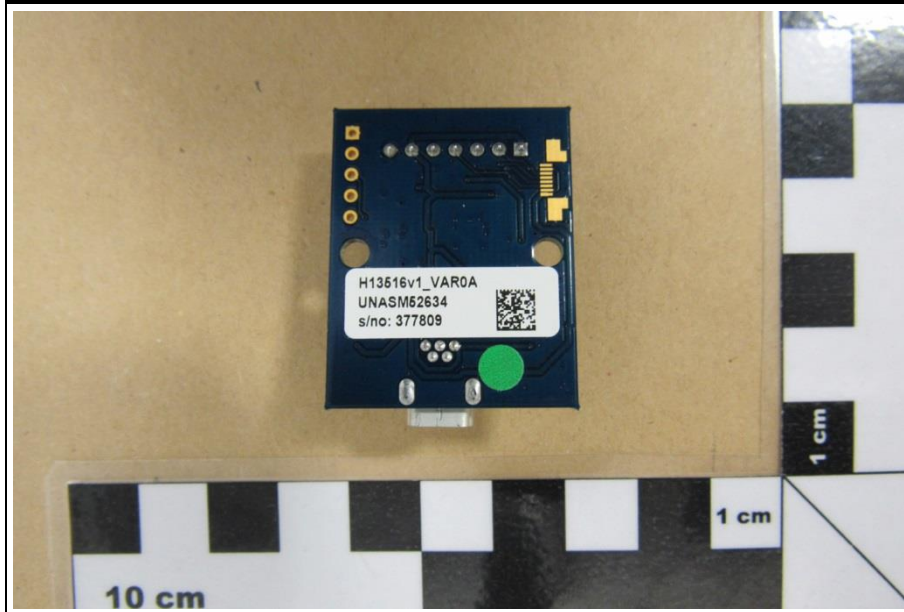
EUT RADIATED (SAMPLE 15678) BACK SIDE



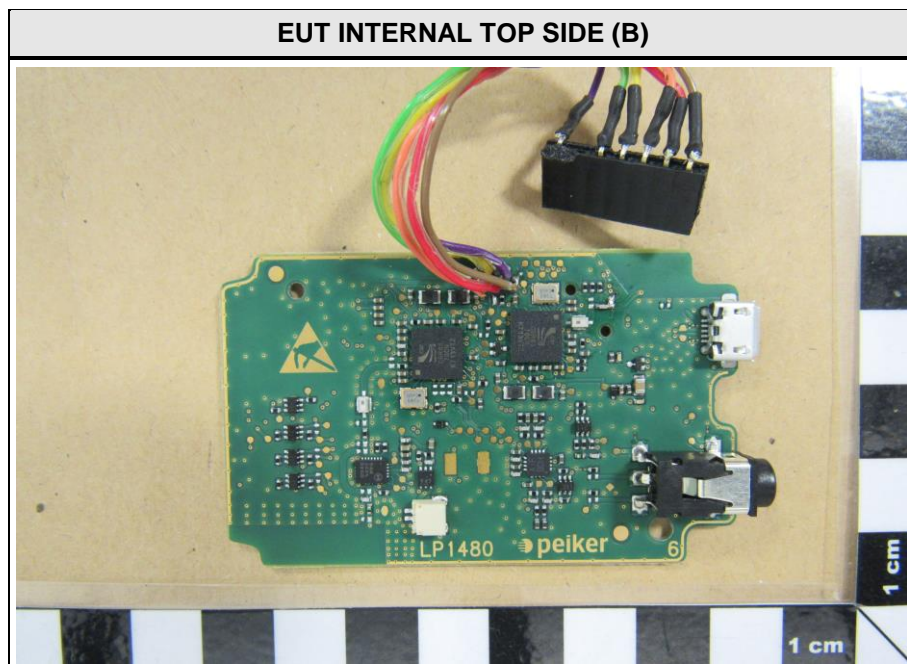
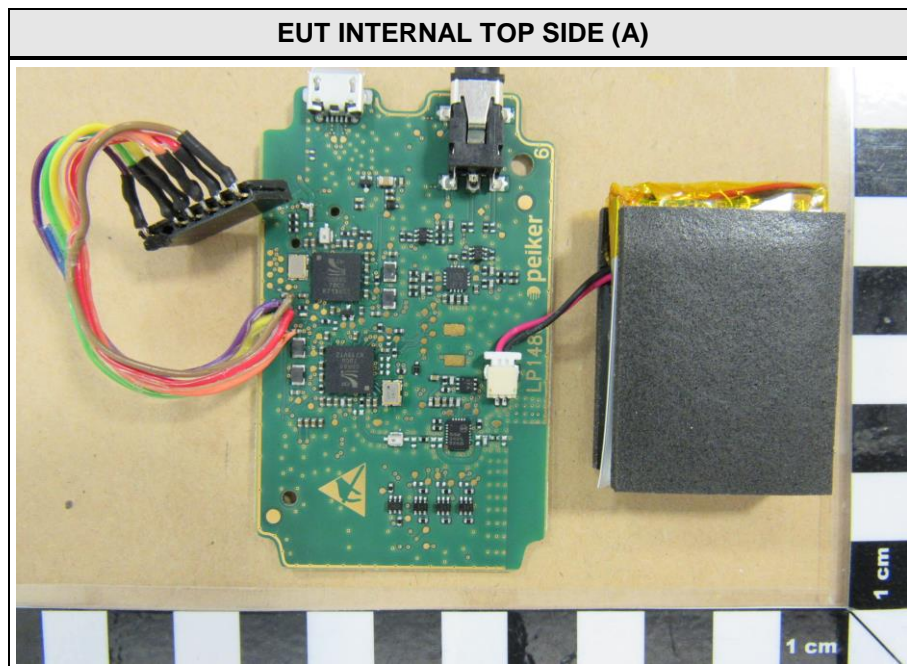
EUT RADIATED (SAMPLE 15678) CSR SPI ADAPTER (A)

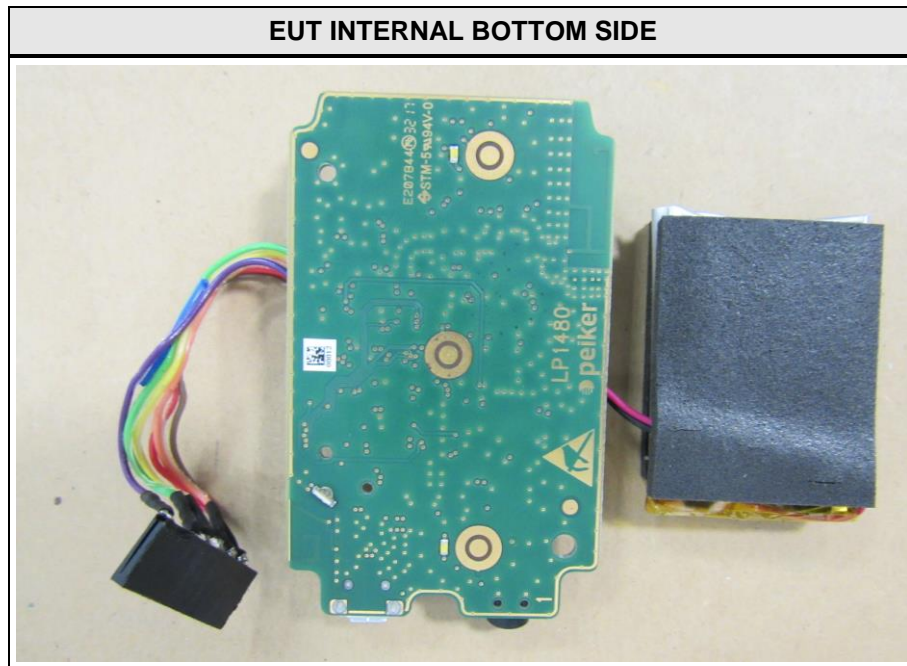


EUT RADIATED (SAMPLE 15678) CSR SPI ADAPTER (B)

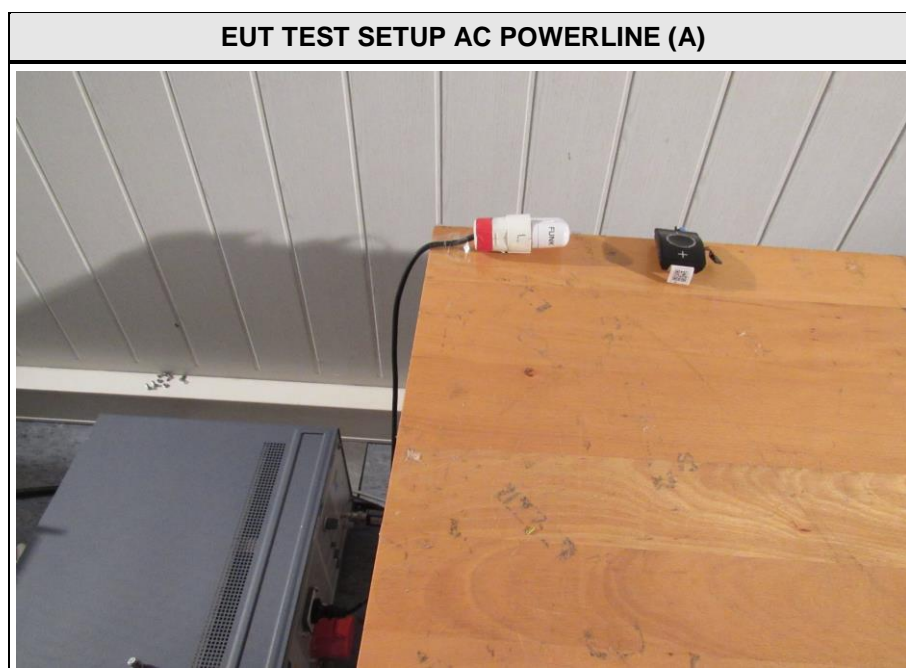
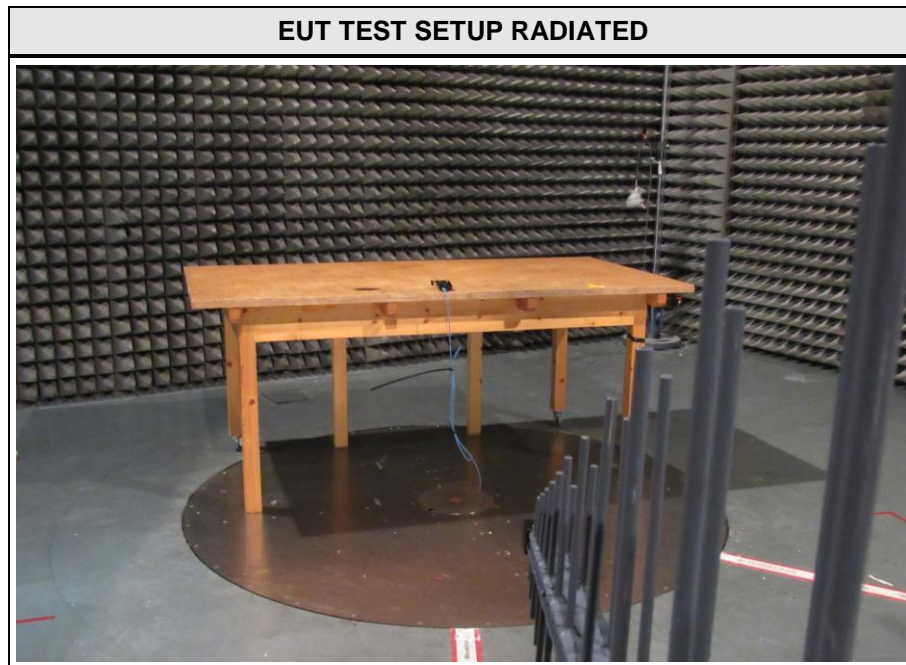


1.2 Photos – Equipment Internal

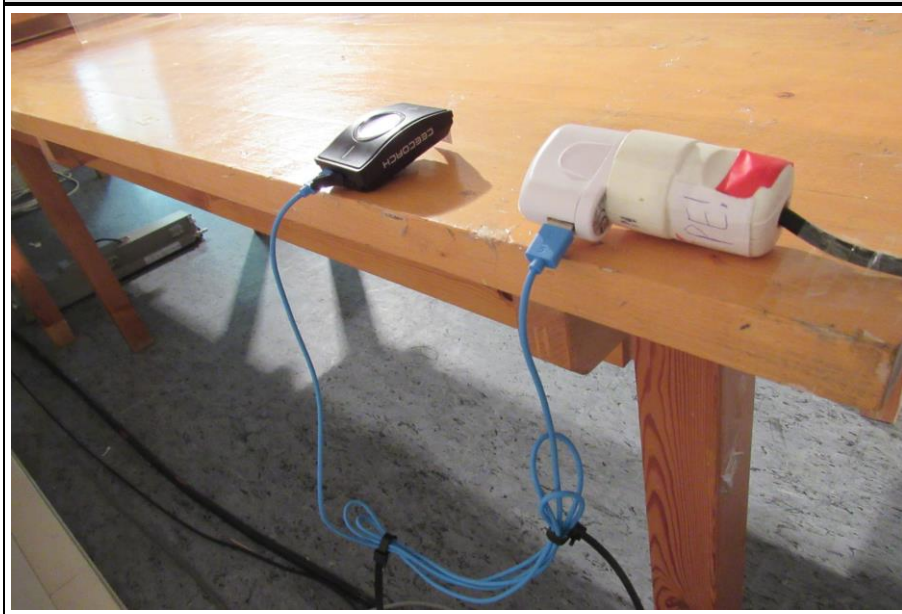




1.3 Photos – Test Setup



EUT TEST SETUP AC POWERLINE (B)



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
SIM	Communication Tester	R&S	CBT	Signalling
AE	CSR SPI Adapter	Not specified	Not specified	Signalling
AE	Laptop	Dell	Latitude E6430	S/N 4MX5TY1
AE	Power Supply	Dell	LA65NS2-01	S/N 6TM1C
Description:				
AE	Auxillary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
Comment: None.				

1.5 Test Modes

Mode	Description
DH5 Single	Mode = Transmit Modulation = GFSK Spreading = None Packet type = DH5 Duty cycle = 78%
2-DH5 Single	Mode = Transmit Modulation = PI/4-DQPSK Spreading = None Packet type = 2-DH5 Duty cycle = 78%
3-DH5 Single	Mode = Transmit Modulation = 8-DPSK Spreading = None Packet type = 3-DH5 Duty cycle = 78%
DH5 Hopping	Mode = Transmit Modulation = GFSK Spreading = FHSS Packet type = DH5 Duty cycle = 78%
2-DH5 Hopping	Mode = Transmit Modulation = PI/4-DQPSK Spreading = FHSS Packet type = 2-DH5 Duty cycle = 78%
3-DH5 Hopping	Mode = Transmit Modulation = 8-DPSK Spreading = FHSS Packet type = 3-DH5 Duty cycle = 78%
Receive	Mode = Receive
Comment: Test mode selection is based on pre-compliance measurement of output power of all operational modes. The operational modes with the highest output power were selected for compliance tests.	

1.6 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	39	2441
F3	Tx / Rx	40	2442
F4	Tx / Rx	78	2480

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBµV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading	:	Net reading	- FCC limit	= Margin
+21.5 dBµV	+ 26 dB = 47.5 dBµV/m	:	47.5 dBµV/m	- 57.0 dBµV/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
RSS-Gen 6.6	Occupied Bandwidth	ANSI C63.10	PASS	Informational only
FCC § 15.247(a)(1) ISED RSS-247 § 5.1	20 dB Bandwidth	ANSI C63.10	PASS	
FCC § 15.247(a)(1)(iii) ISED RSS-247 § 5.1	Number of hopping frequencies	ANSI C63.10	PASS	
FCC § 15.247(a)(1) ISED RSS-247 § 5.1	Frequency hopping channel separation	ANSI C63.10	PASS	
FCC § 15.247(a)(1)(iii) ISED RSS-247 § 5.1	Time of occupancy (Dwell time)	ANSI C63.10	PASS	
FCC § 15.247(b)(1) ISED RSS-247 § 5.4	Maximum peak conducted power	ANSI C63.10	PASS	
FCC § 15.207 ISED RSS-247 § 3.1	AC power line conducted emissions	ANSI C63.10	PASS	
FCC § 15.247(d) ISED RSS-247 § 5.5	Band edge compliance	ANSI C63.10	PASS	
FCC § 15.247(d) ISED RSS-247 § 5.5	Conducted spurious emissions	ANSI C63.10	PASS	
FCC § 15.247(d) FCC § 15.209 ISED RSS-GEN § 8.9	Transmitter radiated spurious emissions	ANSI C63.10	PASS	
ISED RSS-247 § 3.1	Receiver radiated spurious emissions	ANSI C63.10	PASS	
Comment:				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

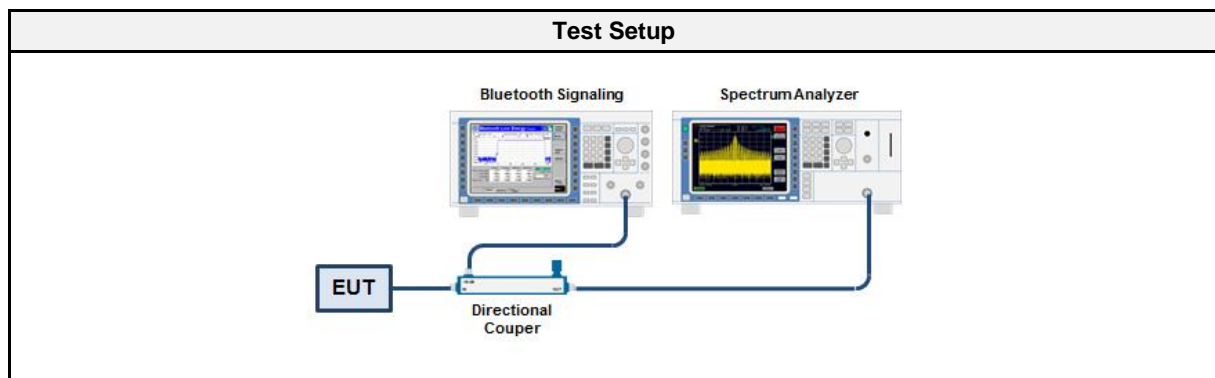
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen 6.6
Measurement Method	ANSI C63.10 6.9.3
Operator	Abdullah Al Jamal
Date	2017-10-18

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.1.5 Procedure

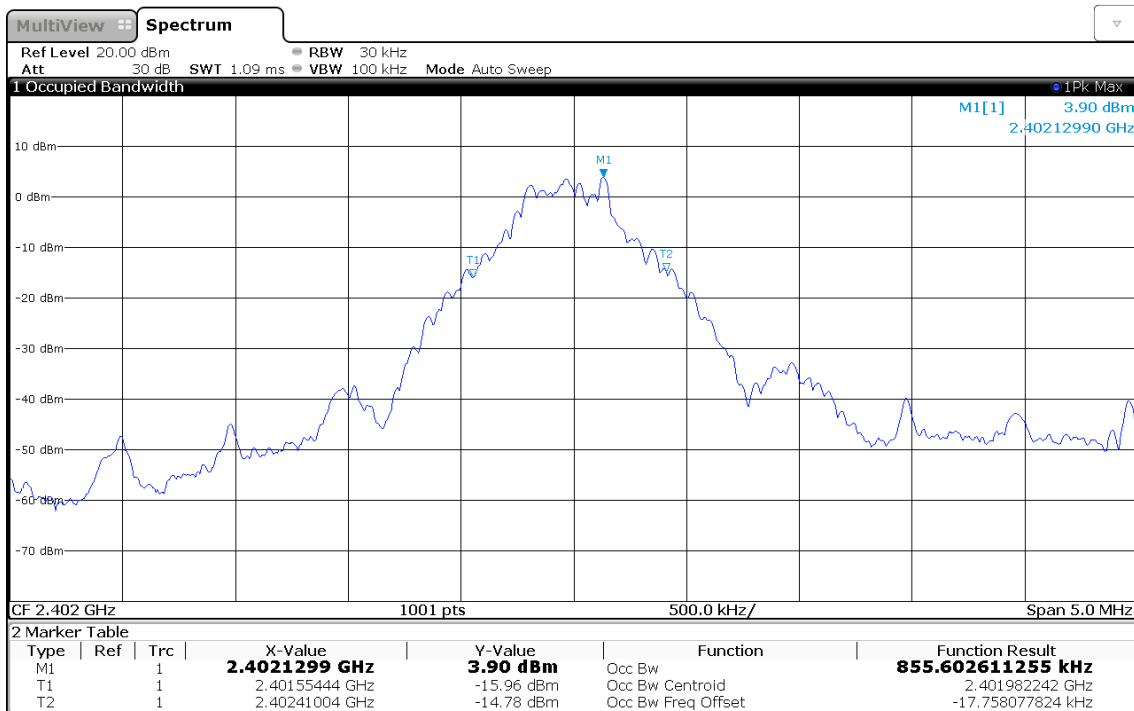
Test Procedure
<ol style="list-style-type: none"> 1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to 1 % of the bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	0.855
DH5	2441	0.858
DH5	2480	0.853
2-DH5	2402	1.159
2-DH5	2441	1.156
2-DH5	2480	1.155
3-DH5	2402	1.150
3-DH5	2441	1.149
3-DH5	2480	1.150

Occupied Bandwidth

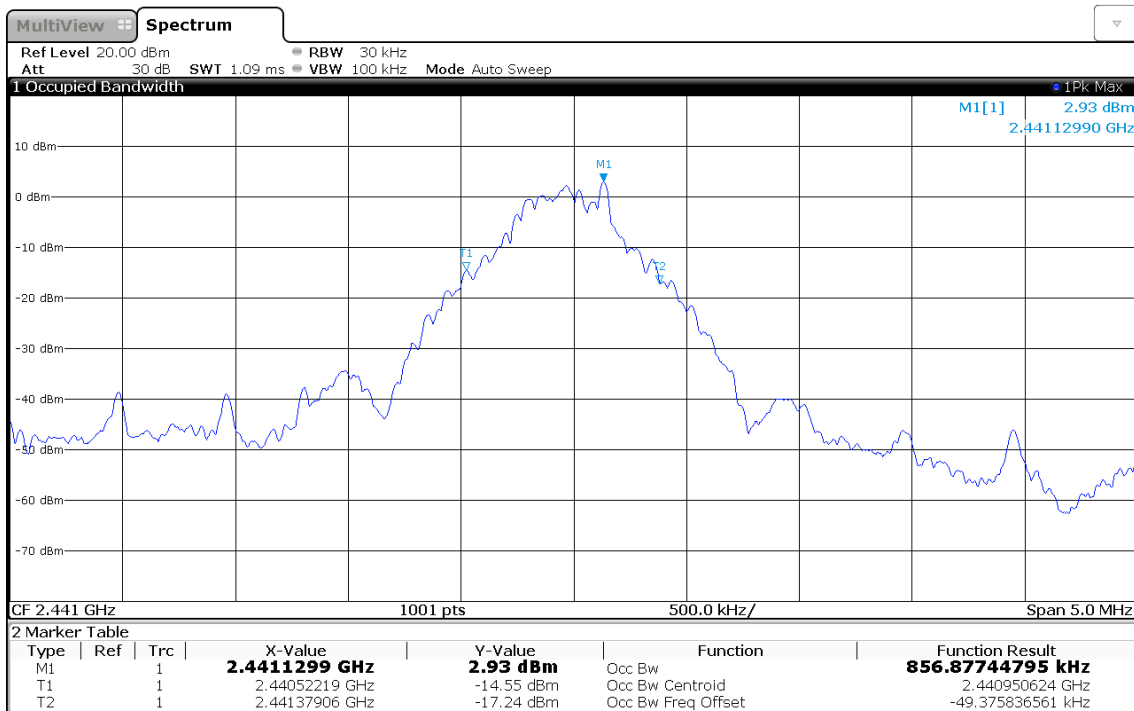
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 0.855



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Occupied Bandwidth

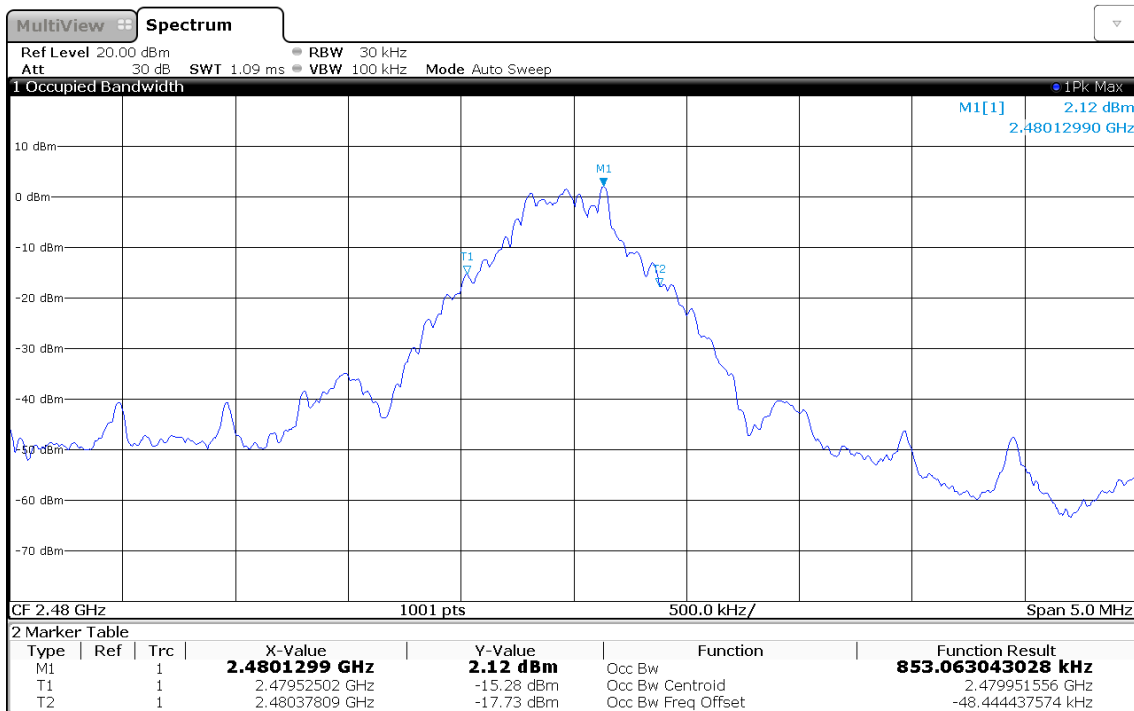
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 0.858



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Occupied Bandwidth

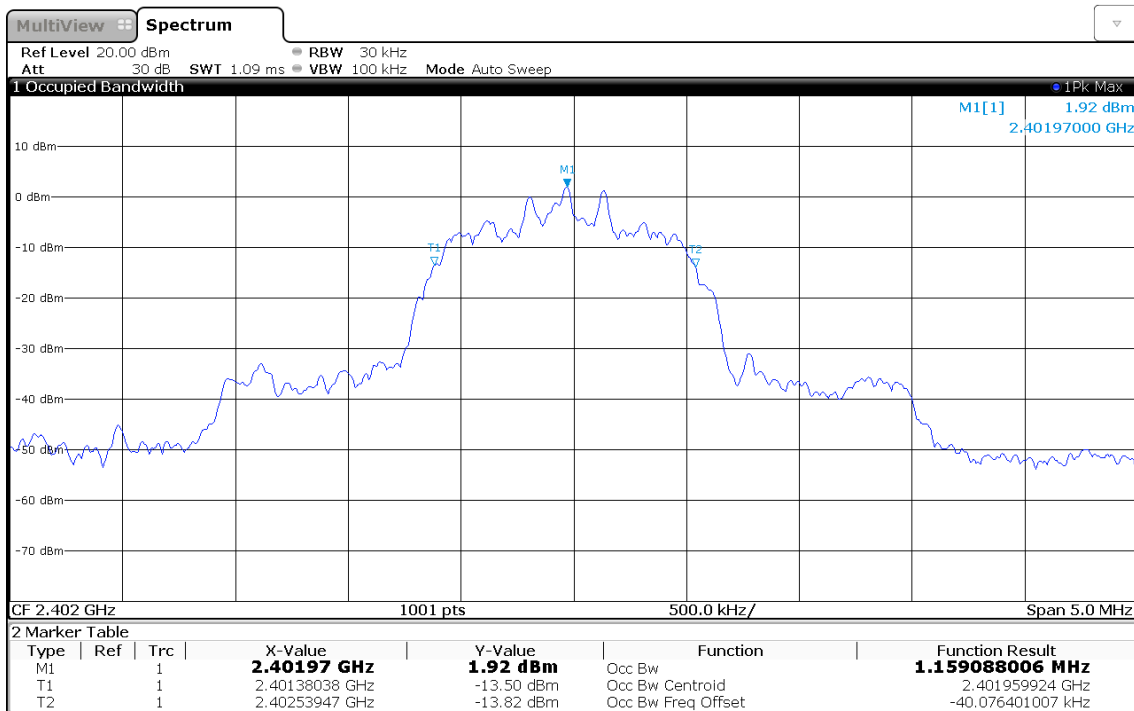
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 0.853



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Occupied Bandwidth

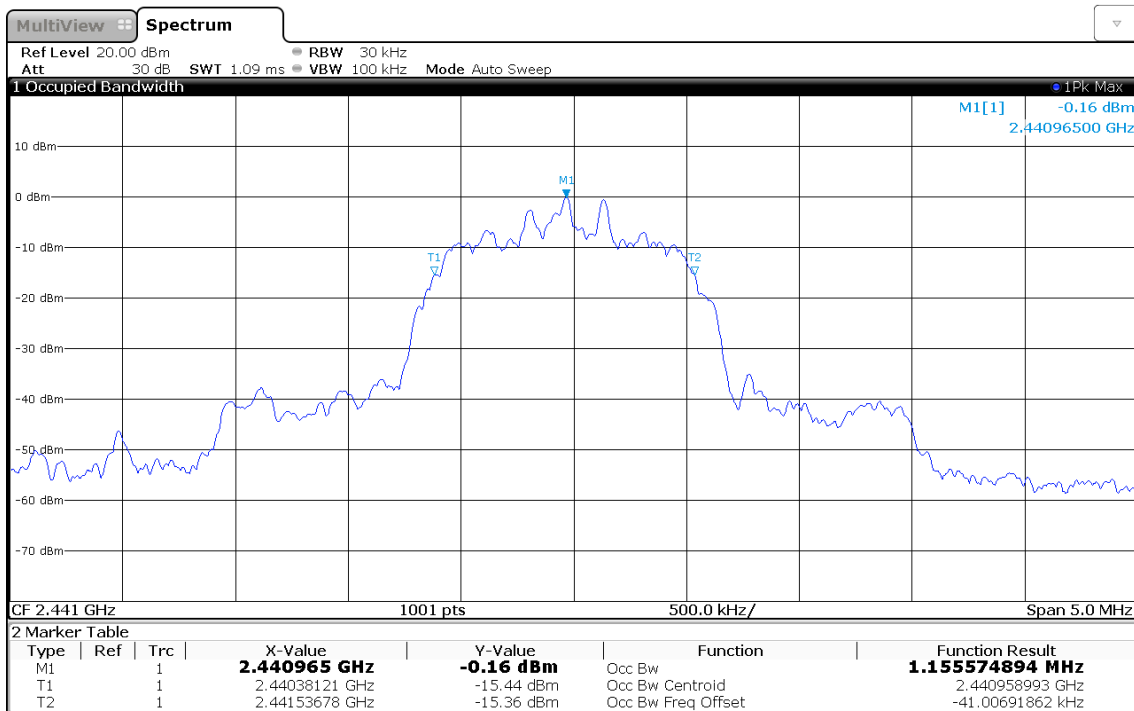
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 1.159



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Occupied Bandwidth

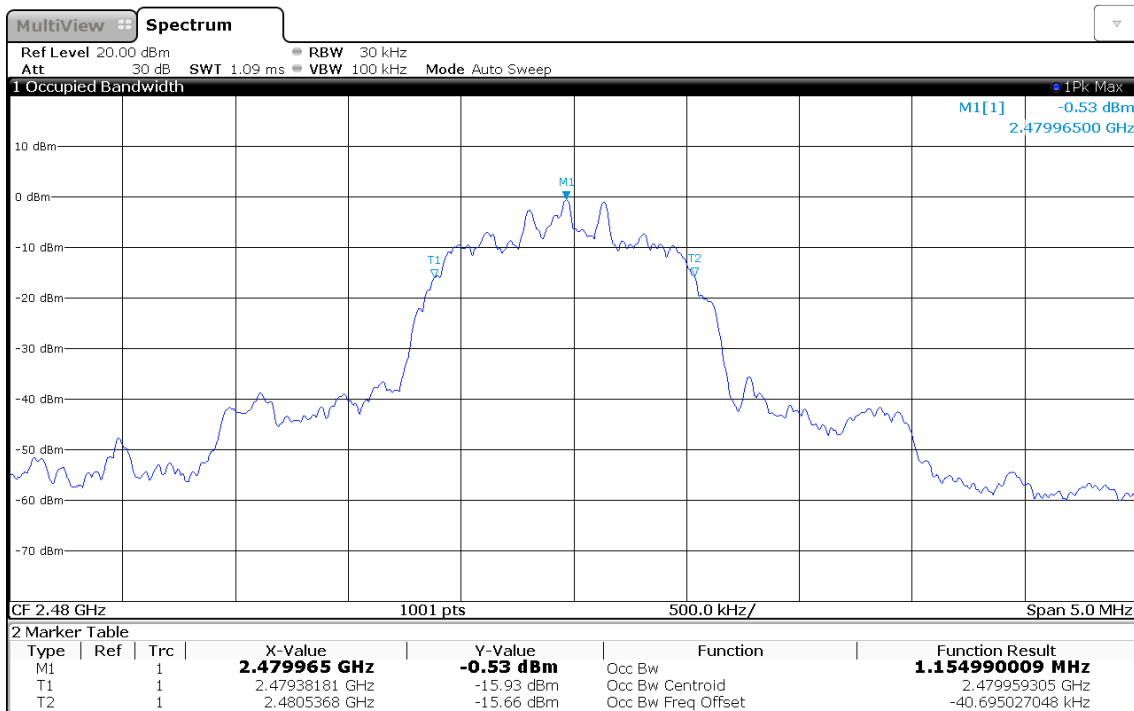
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 1.156



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Occupied Bandwidth

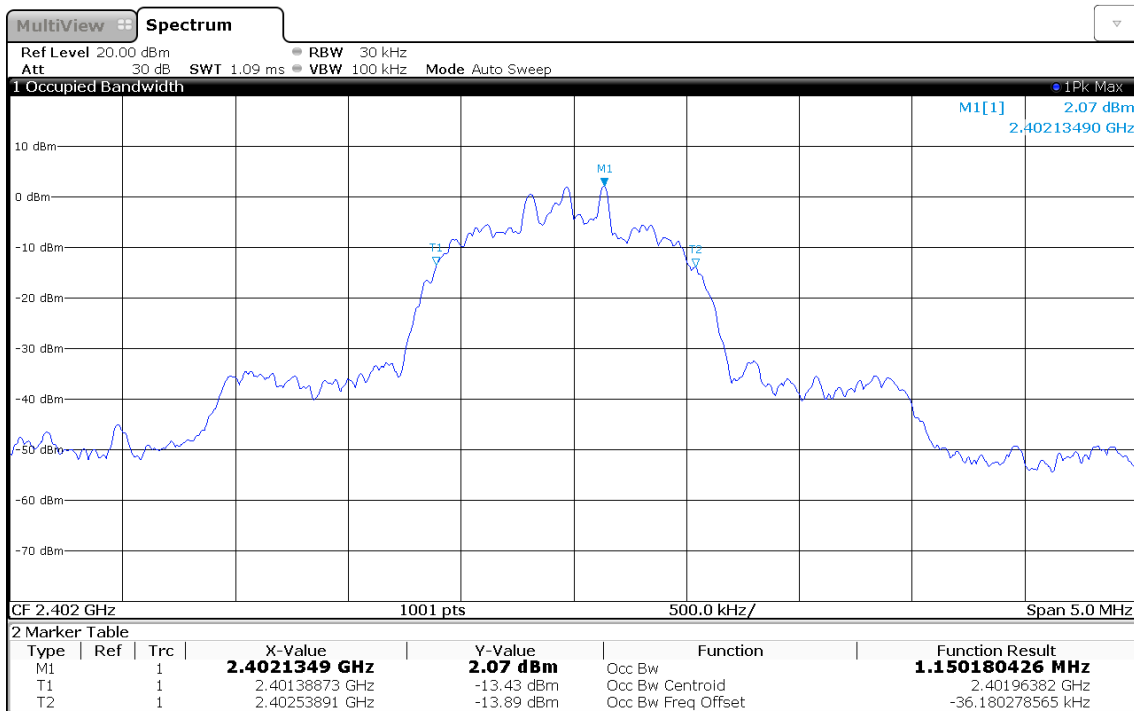
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 1.155



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Occupied Bandwidth

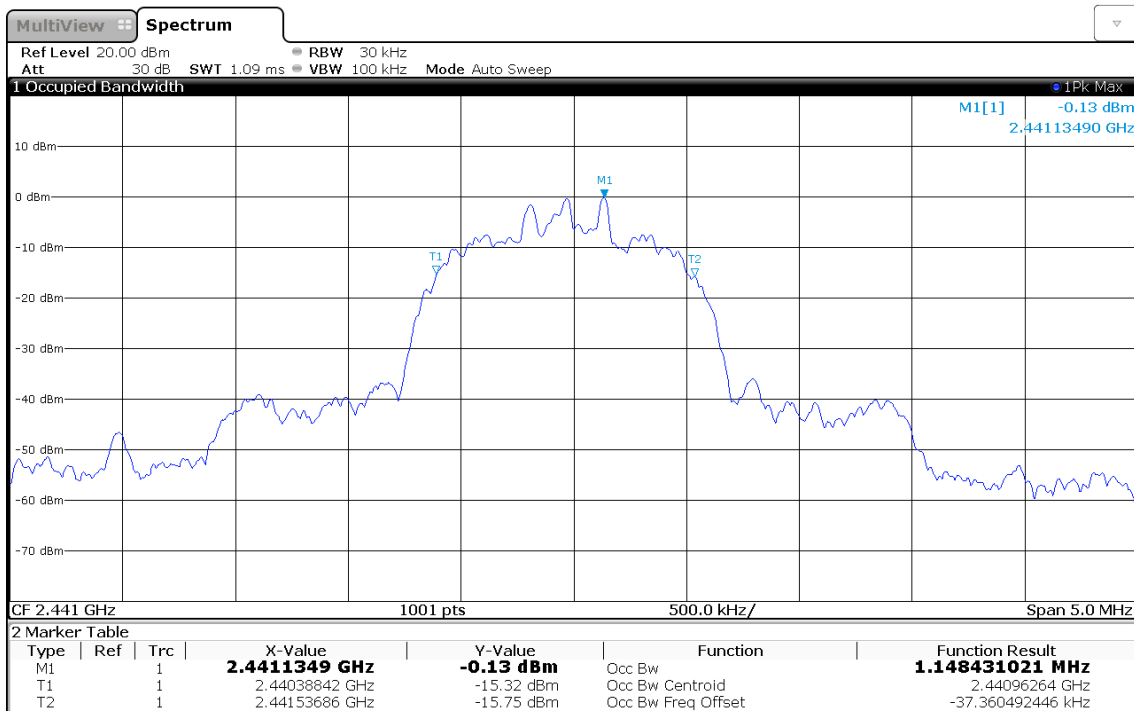
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 1.150



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Occupied Bandwidth

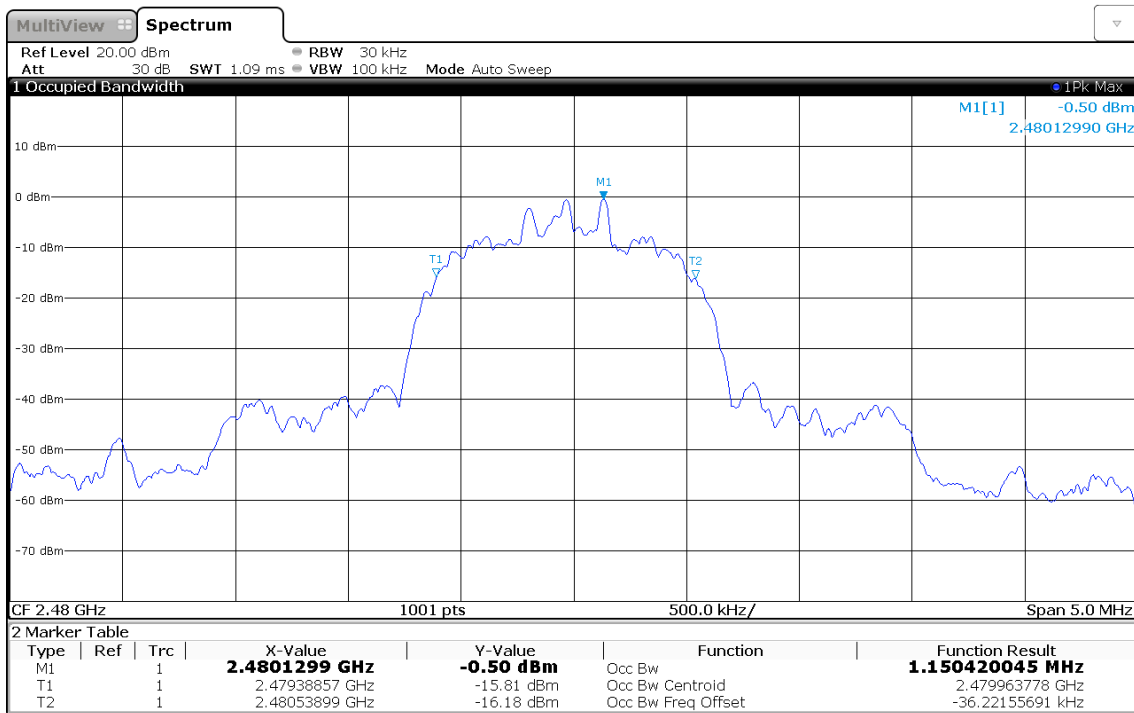
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 1.149



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Occupied Bandwidth

Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Occupied Bandwidth [MHz]: 1.150



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3.2 Test Conditions and Results - 20 dB bandwidth

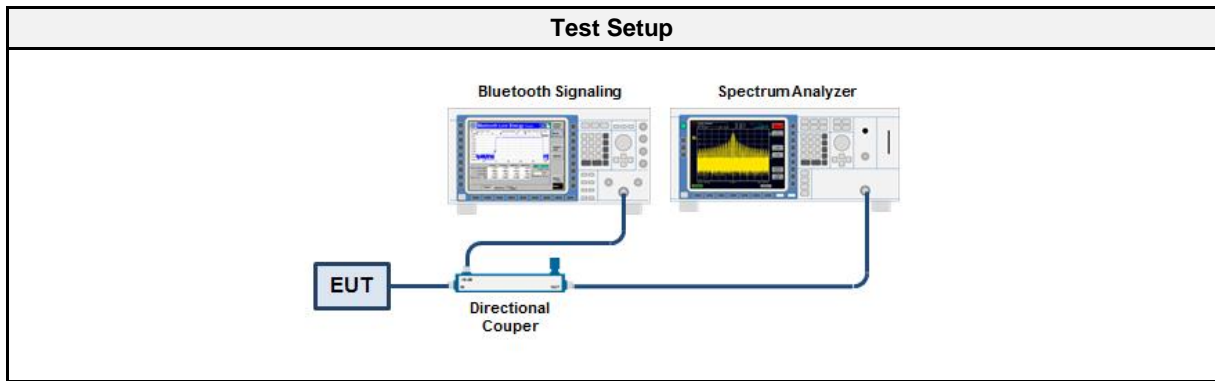
3.2.1 Information

Test Information	
Reference	FCC 15.247(a)(1) / ISED RSS-247 5.1
Measurement Method	ANSI C63.10 6.9.2
Operator	Abdullah Al Jamal
Date	2017-10-18

3.2.2 Limits

Limits	
Condition	Limit
None (Informational only)	

3.2.3 Setup



3.2.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.2.5 Procedure

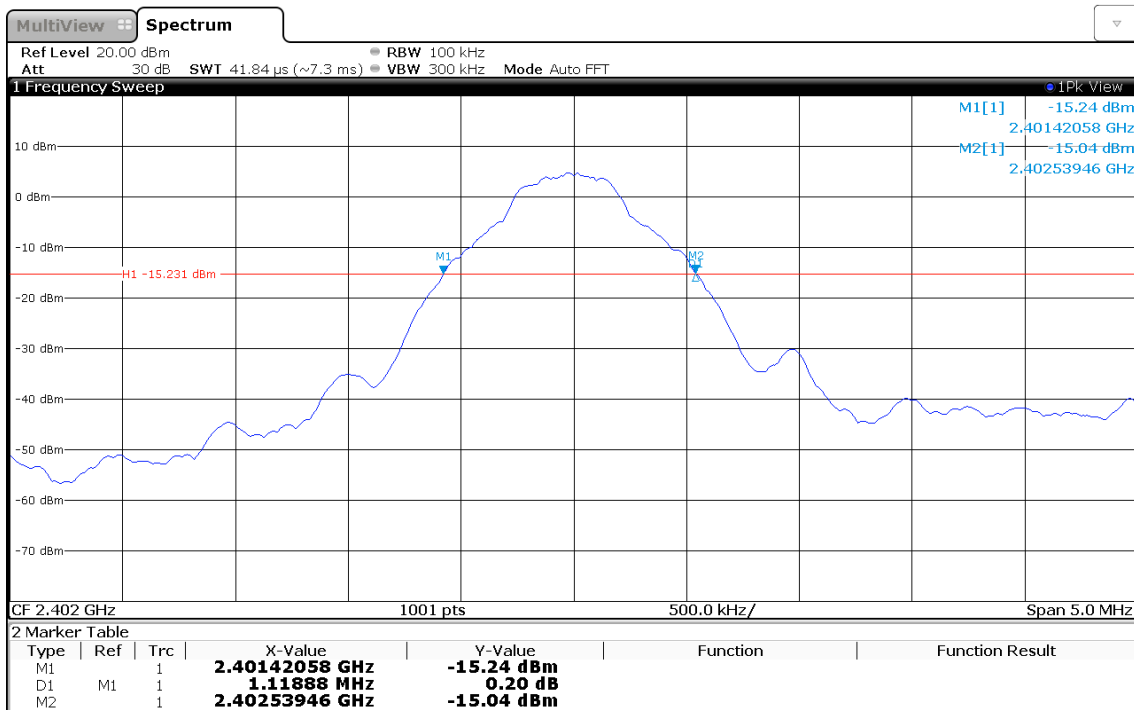
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -20 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -20 dB to the right of the peak 7. 20dB Bandwidth is determined by marker frequency separation

3.2.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
DH5	2402	1.119
DH5	2441	1.114
DH5	2480	1.114
2-DH5	2402	1.394
2-DH5	2441	1.394
2-DH5	2480	1.399
3-DH5	2402	1.389
3-DH5	2441	1.399
3-DH5	2480	1.389

20 dB Bandwidth

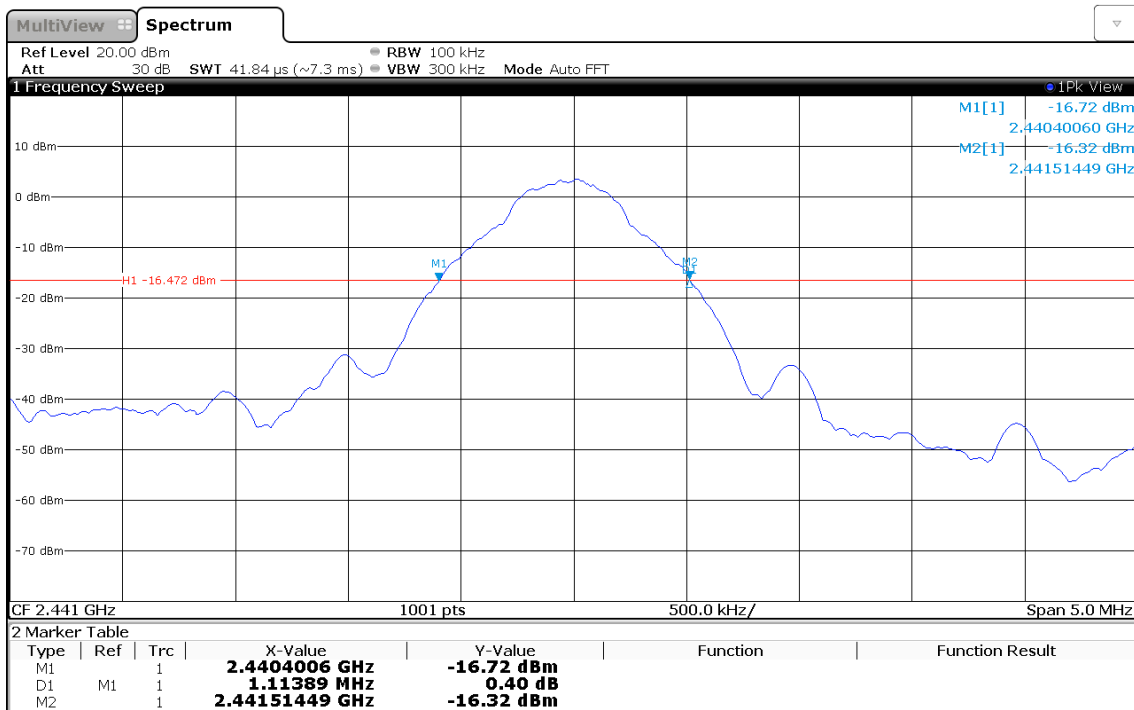
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2401.421
 Upper Frequency [MHz]: 2402.539
 20 dB Bandwidth [kHz]: 1119



19:00:42 18.10.2017

20 dB Bandwidth

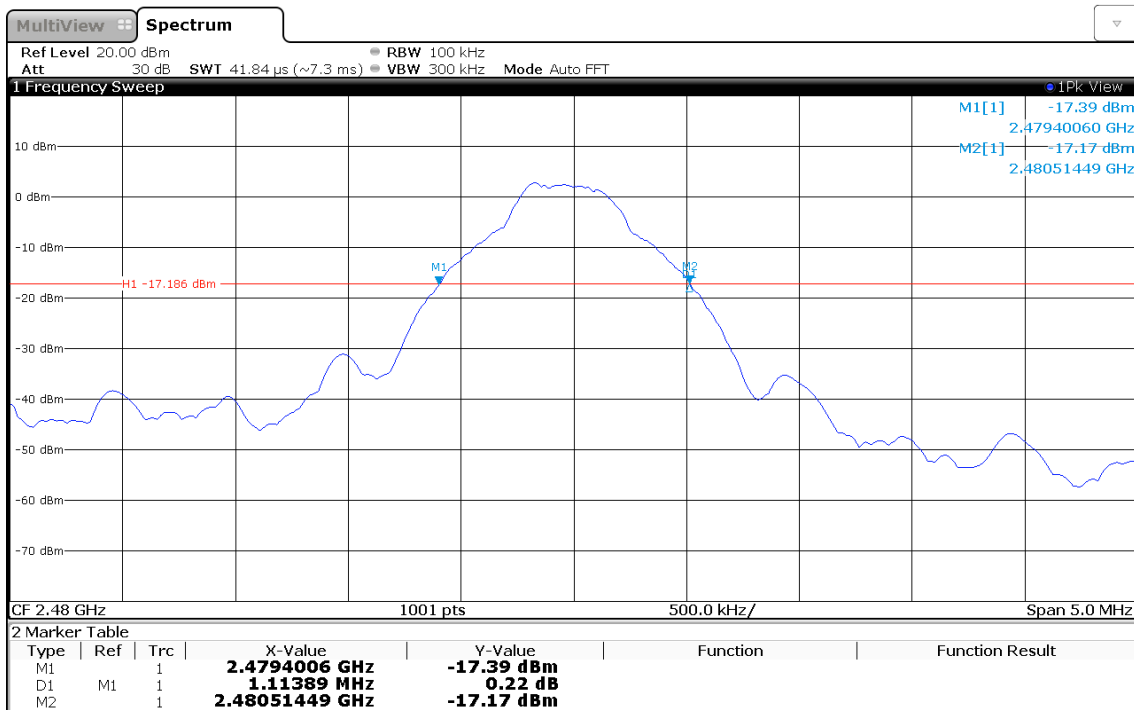
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2440.401
 Upper Frequency [MHz]: 2441.514
 20 dB Bandwidth [kHz]: 1114



19:01:13 18.10.2017

20 dB Bandwidth

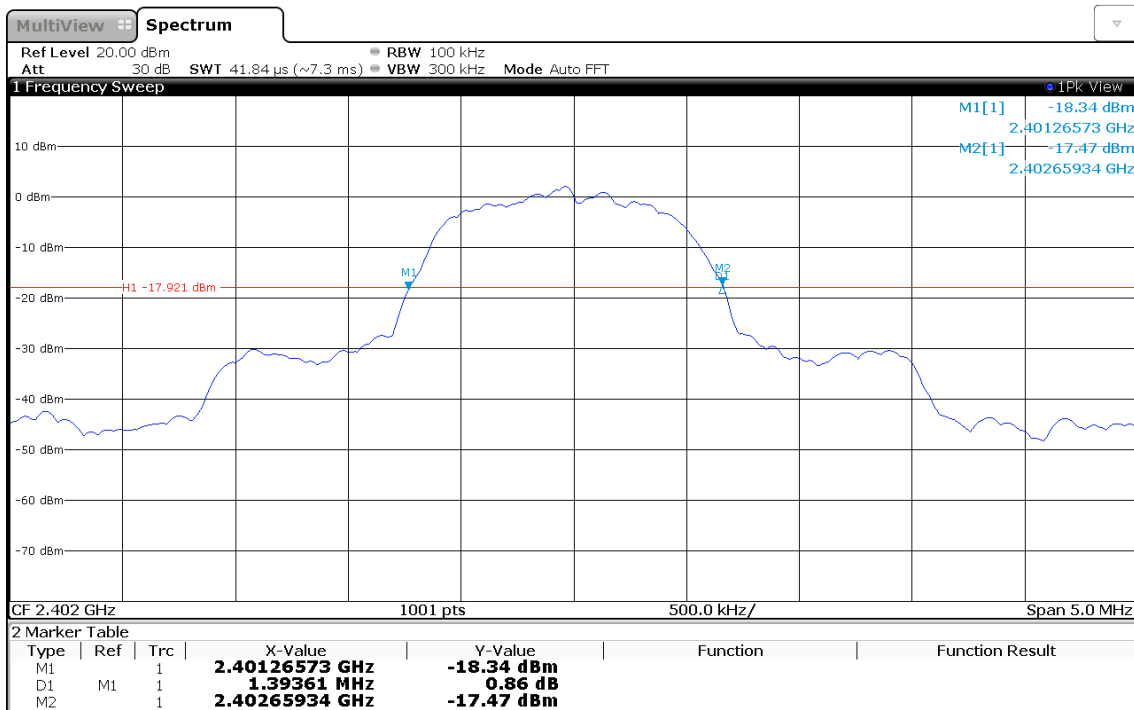
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2479.401
 Upper Frequency [MHz]: 2480.514
 20 dB Bandwidth [kHz]: 1114



19:01:39 18.10.2017

20 dB Bandwidth

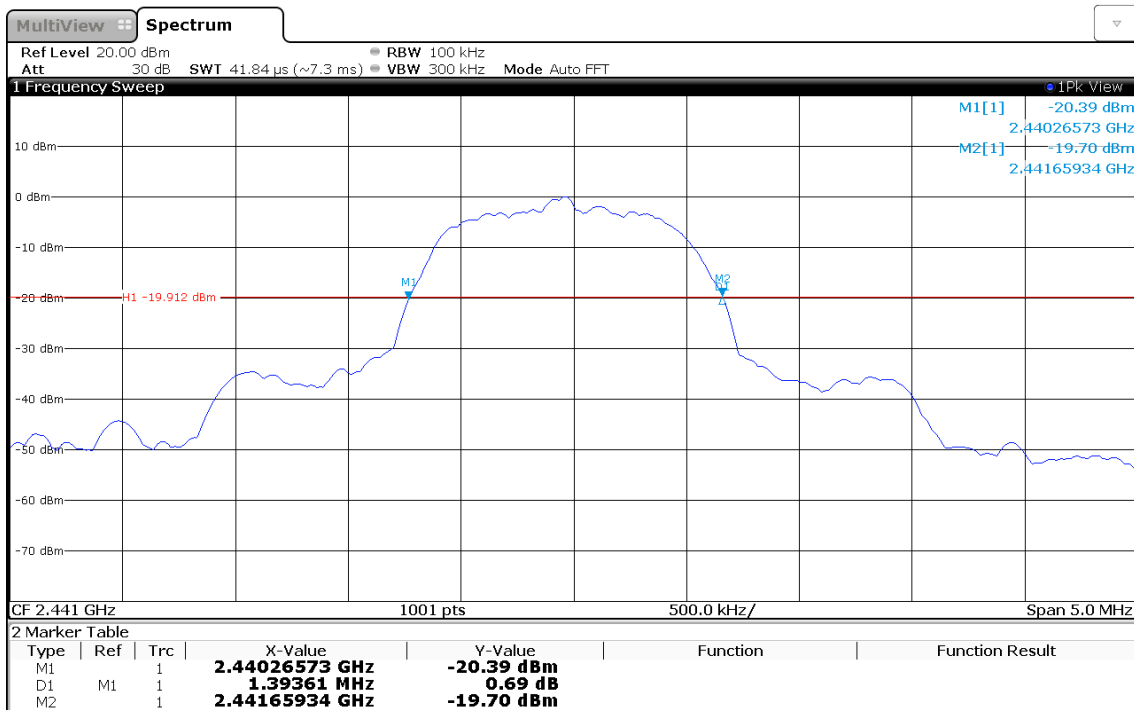
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2401.266
 Upper Frequency [MHz]: 2402.659
 20 dB Bandwidth [kHz]: 1394



19:02:39 18.10.2017

20 dB Bandwidth

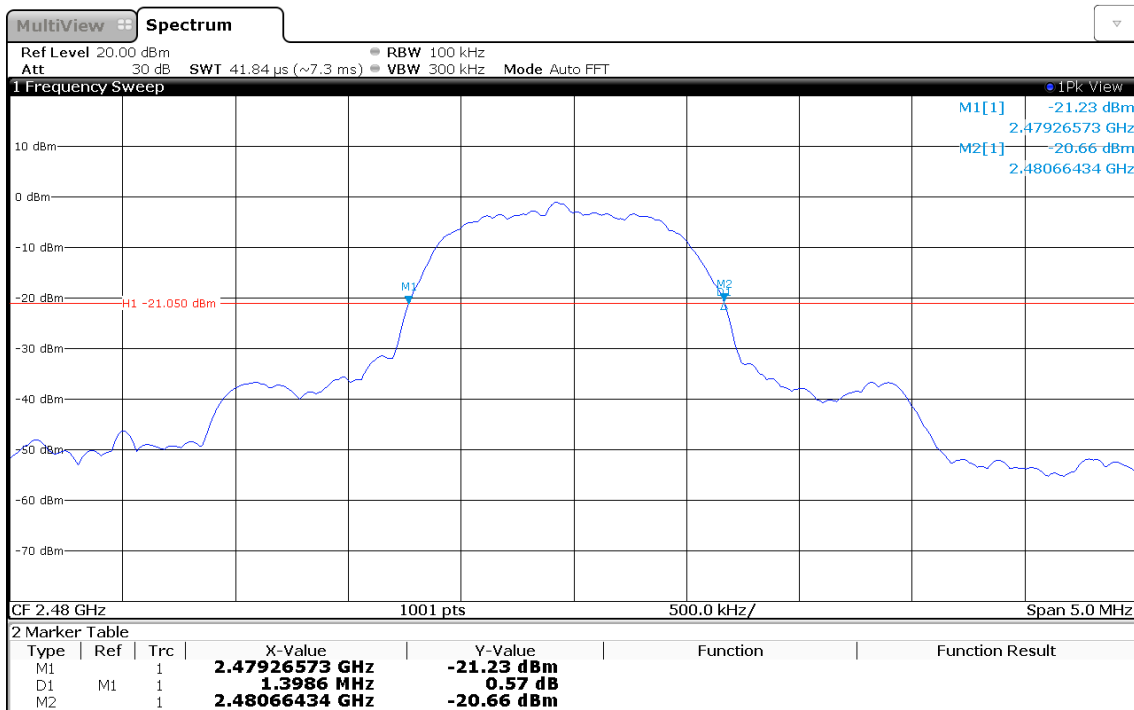
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2440.266
 Upper Frequency [MHz]: 2441.659
 20 dB Bandwidth [kHz]: 1394



19:03:06 18.10.2017

20 dB Bandwidth

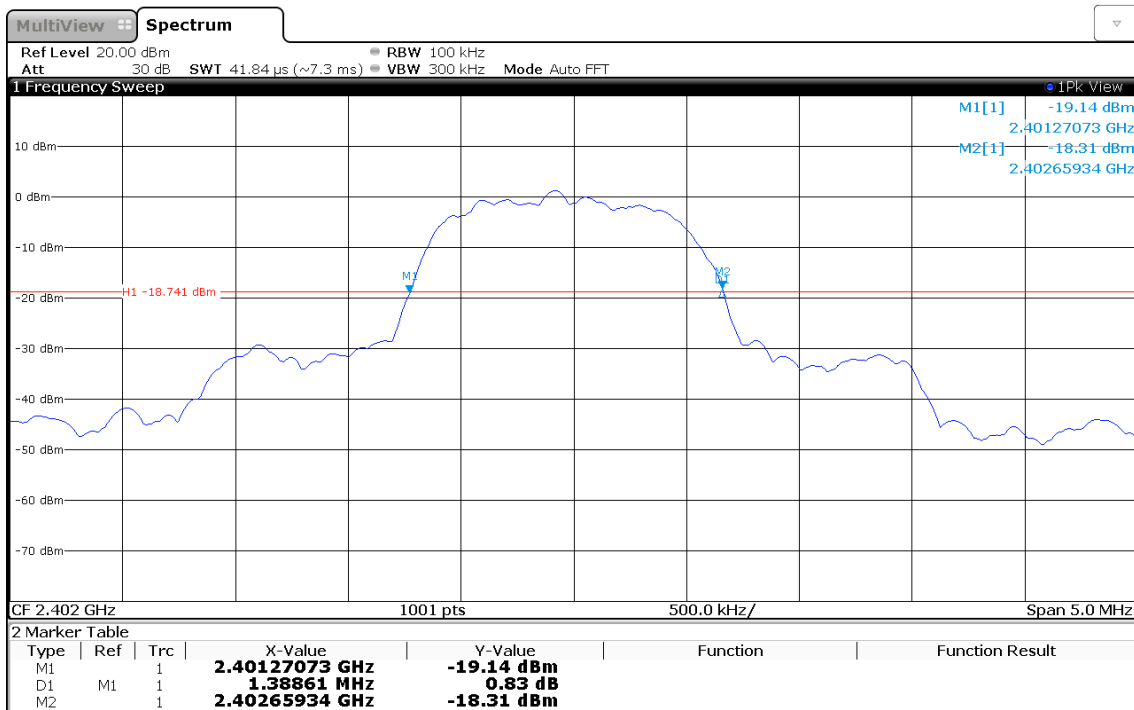
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2479.266
 Upper Frequency [MHz]: 2480.664
 20 dB Bandwidth [kHz]: 1399



19:03:27 18.10.2017

20 dB Bandwidth

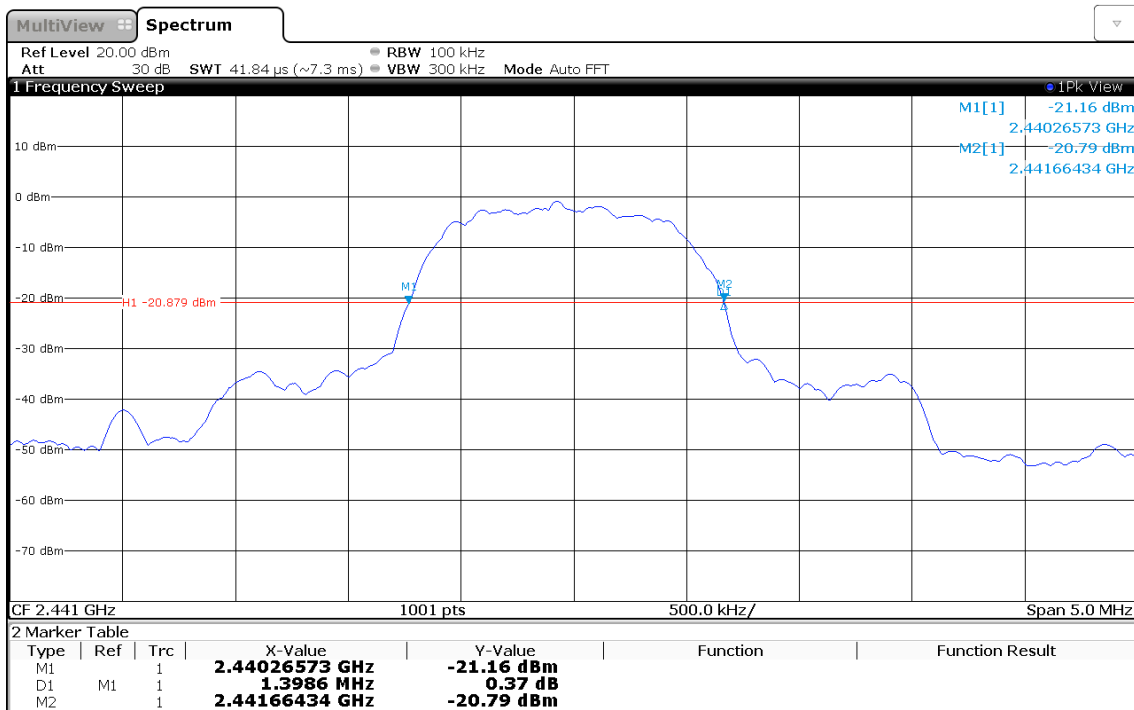
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2401.271
 Upper Frequency [MHz]: 2402.659
 20 dB Bandwidth [kHz]: 1389



19:04:27 18.10.2017

20 dB Bandwidth

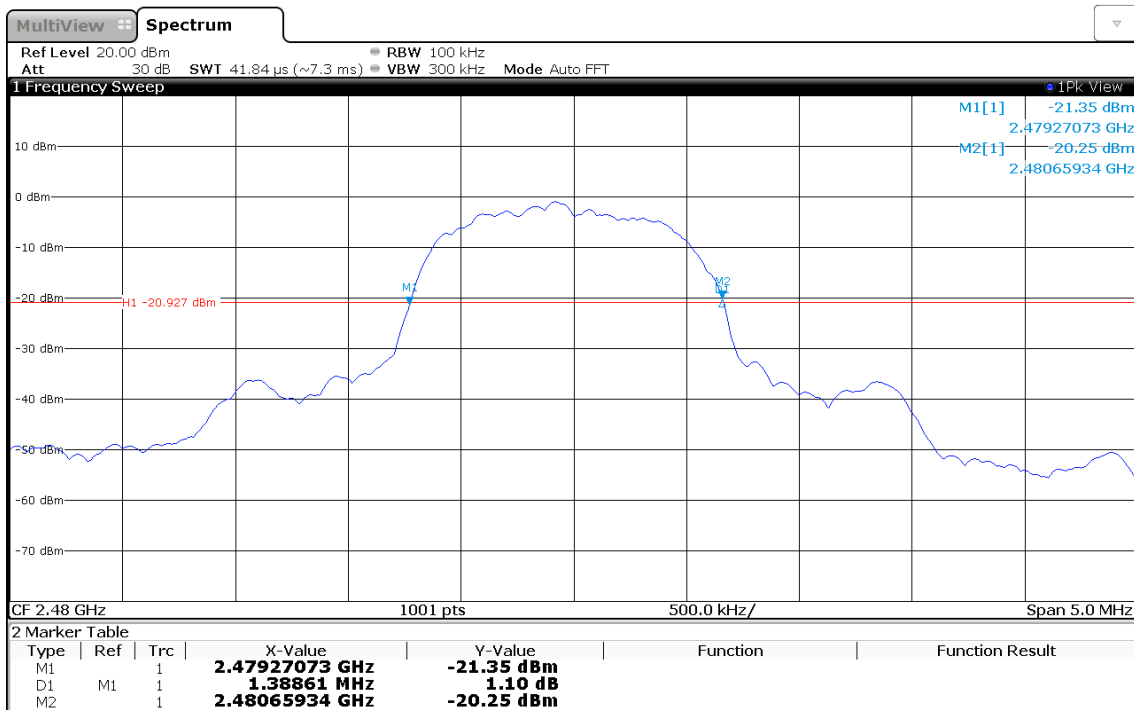
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2440.266
 Upper Frequency [MHz]: 2441.664
 20 dB Bandwidth [kHz]: 1399



19:04:51 18.10.2017

20 dB Bandwidth

Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.2
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Lower Frequency [MHz]: 2479.271
 Upper Frequency [MHz]: 2480.659
 20 dB Bandwidth [kHz]: 1389



19:05:10 18.10.2017

3.3 Test Conditions and Results - Number of hopping frequencies

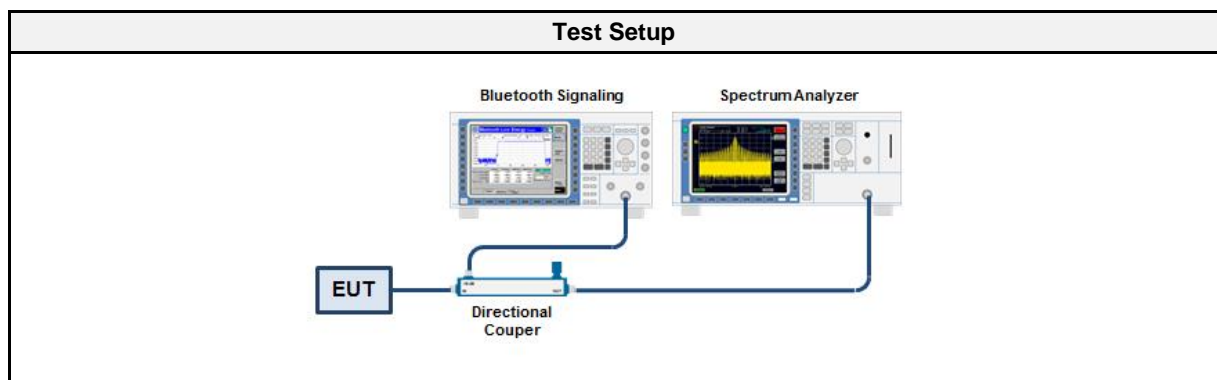
3.3.1 Information

Test Information	
Reference	FCC 15.247(a)(1)(iii) / ISED RSS-247 5.1
Measurement Method	ANSI C63.10 7.8.3
Operator	Abdullah Al Jamal
Date	2017-10-18

3.3.2 Limits

Limits	
Condition	Number of hopping channels
	≥ 15

3.3.3 Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.3.5 Procedure

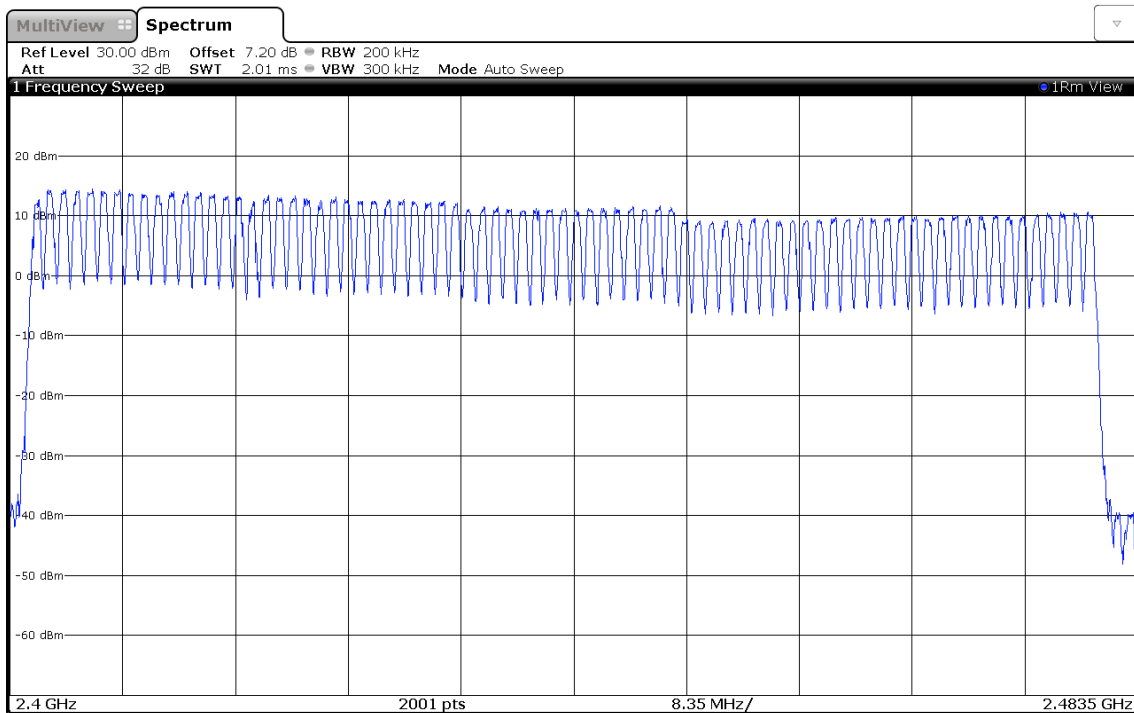
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The number of peaks is counted to determine number of hopping frequencies

3.3.6 Results

Test Results		
Number of hopping frequencies	Limit	Margin
79	15	64.00

Number of hopping frequencies

Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.27 (a)(1)(iii)
 Reference Method: ANSI C63.10:2013 7.8.3
 Operational Mode: Bluetooth, DH5, Hopping Mode
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Number of Hopping Channels: 79



19:10:50 18.10.2017

3.4 Test Conditions and Results - Frequency hopping channel separation

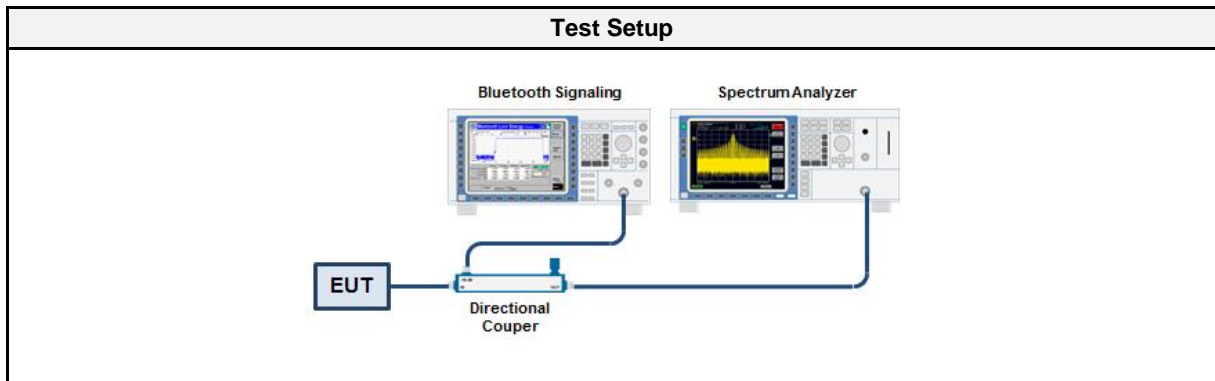
3.4.1 Information

Test Information	
Reference	FCC 15.247(a)(1) / ISED RSS-247 5.1
Measurement Method	ANSI C63.10 7.8.4
Operator	Abdullah Al Jamal
Date	2017-10-18

3.4.2 Limits

Limit
≥ 25 kHz or 1/3 of 20 dB bandwidth

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.4.5 Procedure

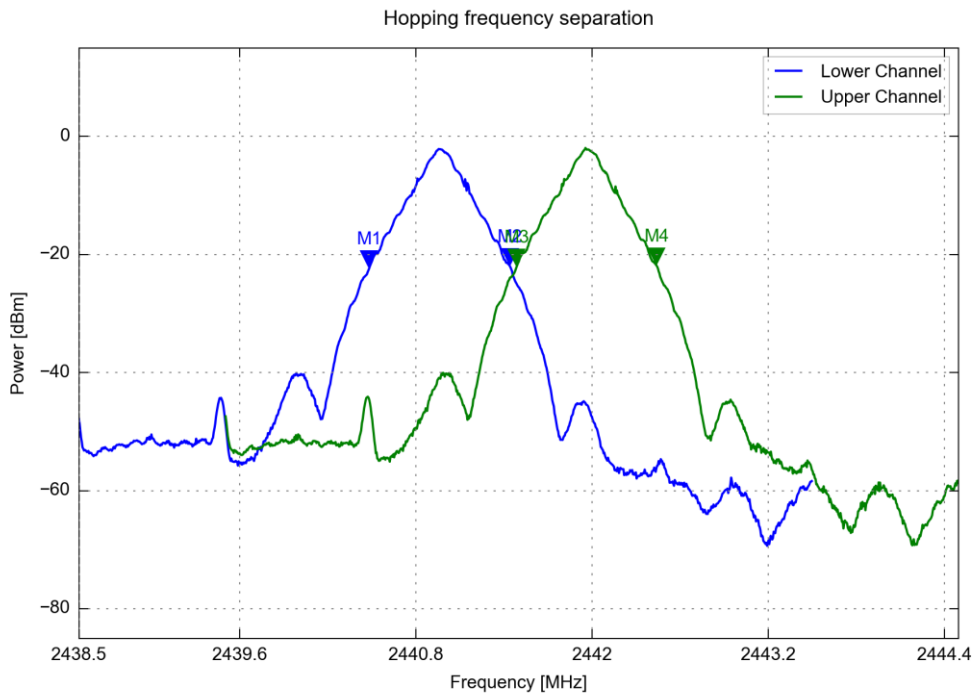
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The two adjacent channel peaks are marked 6. Channel separation is determined from frequency separation of markers

3.4.6 Results

Test Results		
Channel separation [kHz]	Limit [kHz]	Margin [kHz]
1002	742.67	387.47

Hopping frequency separation

Project Number:	G0M-1709-6878
Applicant	peiker CEE GmbH
Model Description	CEECOACH
Model:	CC2
Test Sample ID:	15515 (BT1)
Reference Standards:	FCC 15.247(a)(1)
Reference Method:	ANSI C63.10:2013 7.8.2
Operational Mode:	Bluetooth, DH5, Channels: 2441 + 2442 MHz
Operating Conditions:	Tnom/Vnom
Operator:	A. Al Jamal
Test Site:	Eurofins Product Service GmbH
Test Date:	2017-10-18
Lower Frequency (M1) [MHz]:	2440.481
Upper Frequency (M2) [MHz]:	2441.440
Lower Frequency (M3) [MHz]:	2441.486
Upper Frequency (M4) [MHz]:	2442.440
Lower center Frequency [MHz]:	2440.960
Upper center Frequency [MHz]:	2441.963
Hopping Frequency Separation [MHz]:	1.002



3.5 Test Conditions and Results - Time of occupancy (Dwell time)

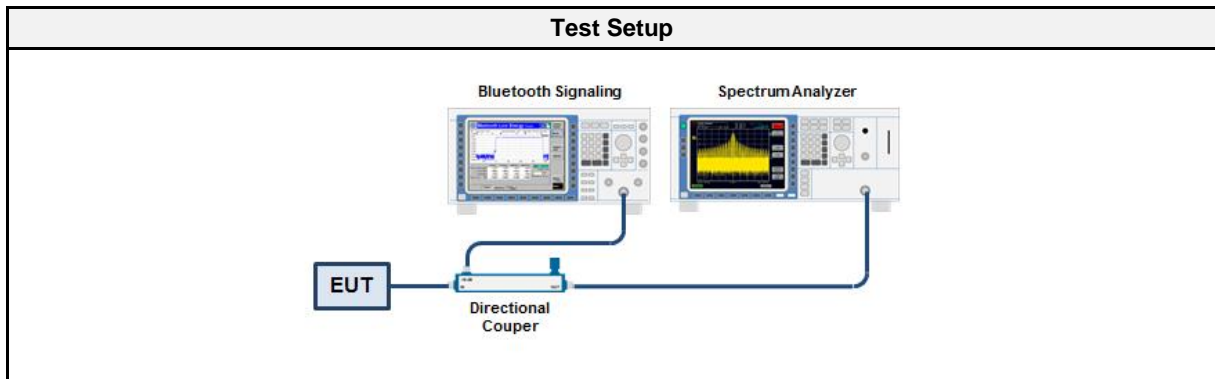
3.5.1 Information

Test Information	
Reference	FCC 15.247(a)(1)(iii) / ISED RSS-247 5.1
Measurement Method	ANSI C63.10 7.8.2
Operator	Abdullah Al Jamal
Date	2017-10-18

3.5.2 Limits

Limits	
Condition	Number of hopping channels
$\leq 0.4 \text{ s within } 0.4 \text{ s} \cdot \text{Number of hopping channels}$	

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.5.5 Procedure

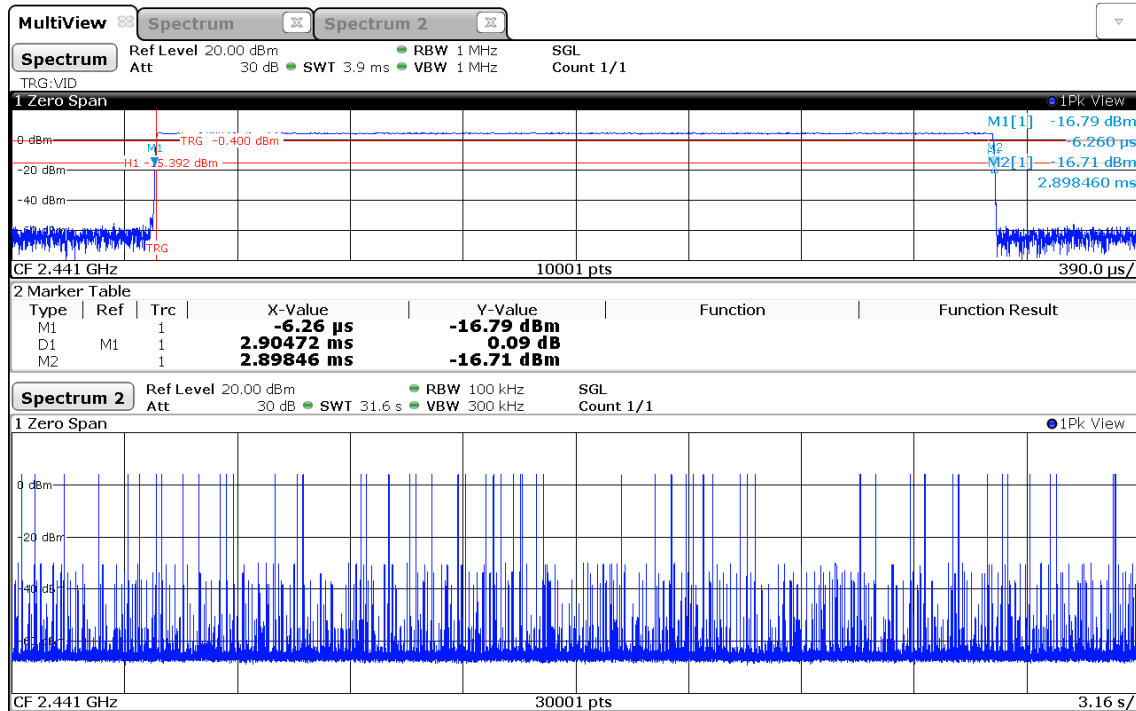
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test hopping mode (Communication tester is used if needed) 2. Analyzer span is set to zero span 3. Detector set to peak and max hold 4. RBW is set to 100 kHz and VBW to 300 kHz 5. The sweep time is set to capture one single dwell time 6. Trigger is set to video trigger 7. A marker is set to the start and end positions of the burst 8. The dwell time is determined from the marker difference 9. Another sweep is initiated without trigger and sweep time set to the observation time 10. The number of hops is counted 11. The total time of occupancy is calculated from the dwell time per hop multiplied by the number of hops

3.5.6 Results

Test Results					
Observation Period [s]	Number of Hops	Dwell time per Hop [s]	Time of occupancy [s]	Limit [s]	Margin [s]
31.6	56	0.002905	0.163	0.4	-00.24

Time of occupancy

Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Method: ANSI C63.10:2013 7.8.4
 Operational Mode: DH5, Hopping mode
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-18
 Dwell Time per Hop [ms]: 2.905
 Number of Hops: 56
 Time of occupancy [s]: 0.163



19:19:30 18.10.2017

3.6 Test Conditions and Results - Maximum peak conducted output power

3.6.1 Information

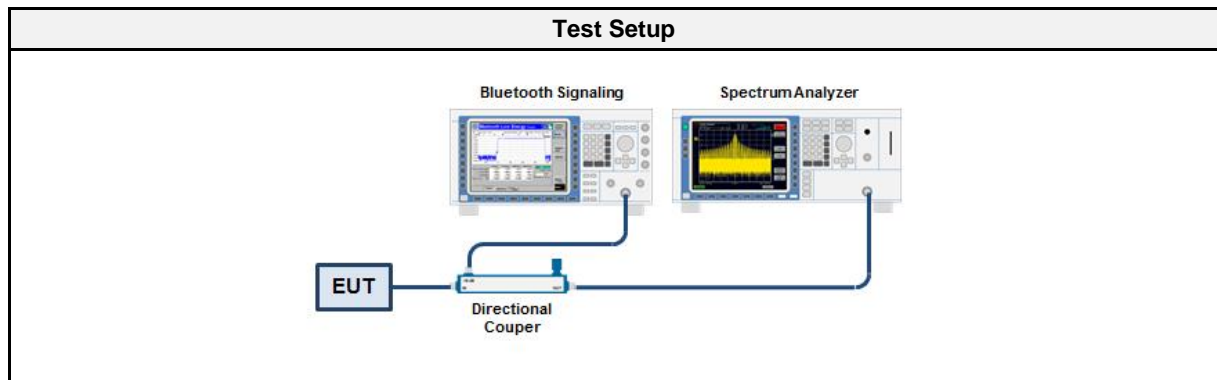
Test Information	
Reference	FCC 15.247(b)(1) / ISED RSS-247 5.4
Measurement Method	ANSI C63.10 7.8.5
Operator	Abdullah Al Jamal
Date	2017-10-19

3.6.2 Limits

Limits	
Condition	Power
Number of hopping channels ≥ 75	1 W (30 dBm)
$75 >$ Number of hopping channels ≥ 15	0.125 W (21 dBm)

The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.3 Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.6.5 Procedure

Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test hopping mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set \geq DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

3.6.6 Results

Test Results - DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	12.998	0.0199	1.0	PASS
2441	11.645	0.0146	1.0	PASS
2480	10.760	0.0119	1.0	PASS

Test Results - 2-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	12.268	0.0169	1.0	PASS
2441	10.144	0.0103	1.0	PASS
2480	9.630	0.0092	1.0	PASS

Test Results - 3-DH5				
Channel [MHz]	Power [dBm]	Power [W]	Limit [W]	Verdict
2402	12.847	0.0193	1.0	PASS
2441	10.782	0.0120	1.0	PASS
2480	10.231	0.0105	1.0	PASS

3.6.7 Additional Information in accordance with the declared values of the used power table

Settings Power Table										
Basic Int PA	Basic Tx Mix Level	Basic Tx Mix Offset	Basic TX PA Attn	Enh Int PA	Enh Tx Mix level	Enh TX Mix Level	Enh Class	Enh TX PA Attn	O/p dBm	No BER
31	1	7	6	43	2	8	0	6	-24	0
51	1	7	6	59	2	8	0	6	-20	0
41	1	7	5	55	2	8	0	5	-16	0
44	1	7	4	55	2	8	0	4	-12	0
43	1	7	3	55	2	8	1	3	-8	0
32	1	7	3	34	2	8	1	1	-4	0
44	1	7	1	36	2	8	1	0	4	0
47	1	8	0	50	2	9	1	0	4	0
60	6	13	0	59	6	13	1	0	8	0

3.7 Test Conditions and Results - AC powerline conducted emissions

3.7.1 Information

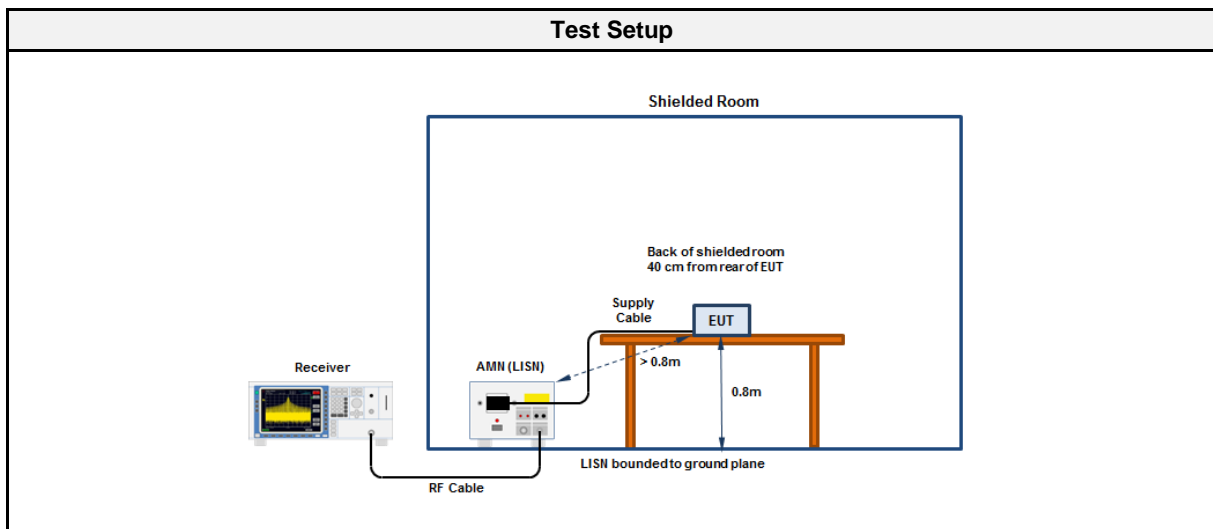
Test Information	
Reference	FCC 15.207
Measurement Method	ANSI C63.10 6.2
Operator	Abdullah Al Jamal
Date	2017-10-24

3.7.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dB μ V]	Average [dB μ V]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.7.3 Setup



3.7.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	R&S	ESR 7	EF00943	2017-07	2018-07
LISN	R&S	ESH2-Z5	EF00182	2017-01	2019-01

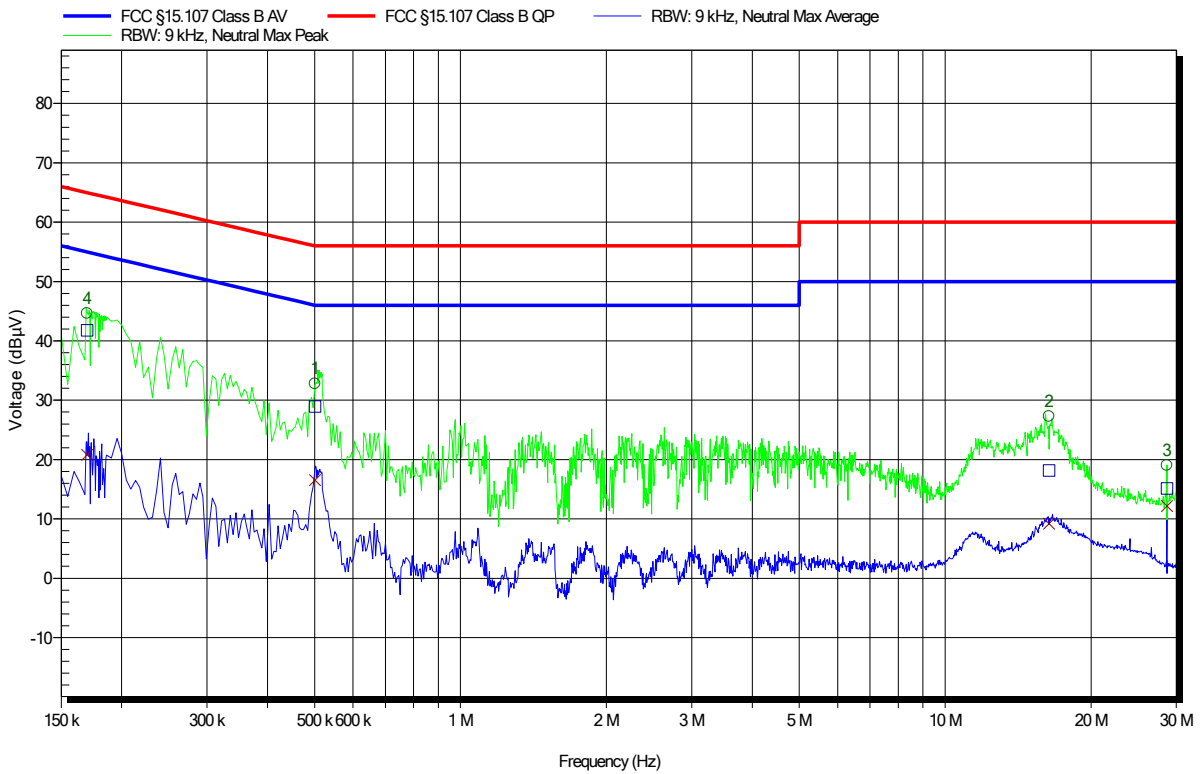
EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. A. Al Jamal
 Test Conditions: Tnom: 23.6°C, Unom: 5.0 VDC supplied via AC/DC-Adaptor connected to 120 VAC/60 Hz

LISN: ESH2-Z5 N
 Mode: BT1 (2402 MHz) und BT2 (2441 MHz); AC/DC-Adapter
 Test Date: 2017-10-24
 Note:

Index 3



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	501 kHz	28.94 dBµV	56 dBµV	-27.06 dB	Pass
2	16.377 MHz	18.17 dBµV	60 dBµV	-41.83 dB	Pass
3	28.671 MHz	15.15 dBµV	60 dBµV	-44.85 dB	Pass
4	169.8 kHz	41.77 dBµV	64.97 dBµV	-23.2 dB	Pass

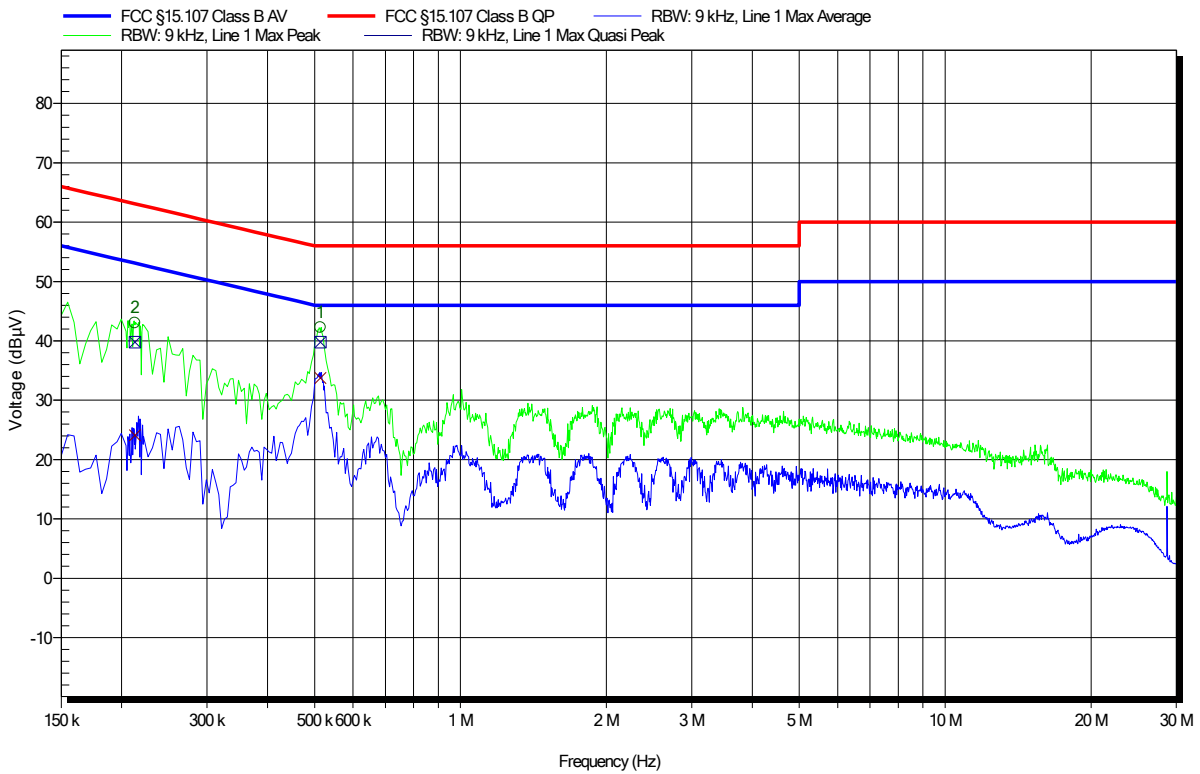
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	501 kHz	16.53 dBµV	46 dBµV	-29.47 dB	Pass
2	16.377 MHz	9.22 dBµV	50 dBµV	-40.78 dB	Pass
3	28.671 MHz	12.15 dBµV	50 dBµV	-37.85 dB	Pass
4	169.8 kHz	20.81 dBµV	54.97 dBµV	-34.16 dB	Pass

EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. A. Al Jamal
 Test Conditions: Tnom: 23.6°C, Unom: 5.0 VDC supplied via AC/DC-Adaptor connected to 120 VAC/60 Hz
 LISN: ESH2-Z5 L
 Mode: BT1 (2402 MHz) und BT2 (2441 MHz); AC/DC-Adapter
 Test Date: 2017-10-24
 Note:

Index 4



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	514.5 kHz	39.78 dBµV	56 dBµV	-16.22 dB	Pass
2	213 kHz	39.79 dBµV	63.09 dBµV	-23.3 dB	Pass

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	514.5 kHz	33.72 dBµV	46 dBµV	-12.28 dB	Pass
2	213 kHz	24.06 dBµV	53.09 dBµV	-29.03 dB	Pass

3.8 Test Conditions and Results - Band-edge compliance

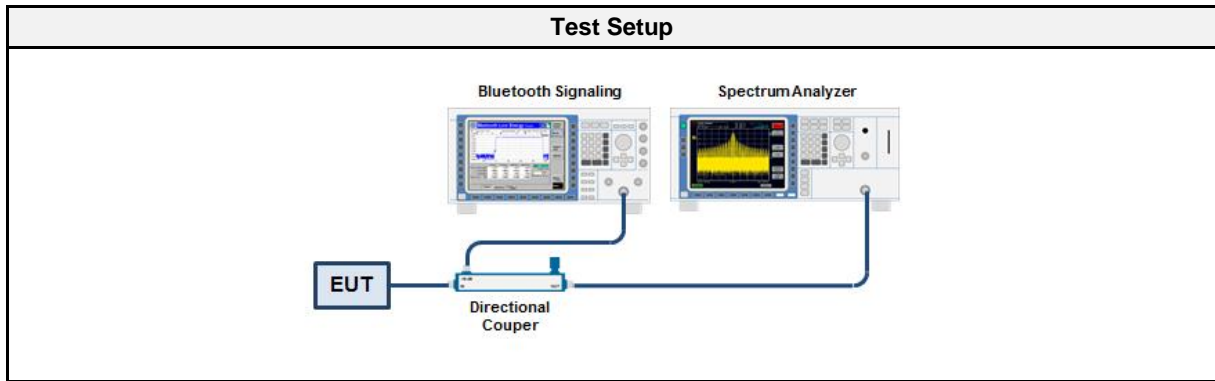
3.8.1 Information

Test Information	
Reference	FCC 15.247(d) / ISED RSS-247 5.5
Measurement Method	ANSI C63.10 6.10
Operator	Abdullah Al Jamal
Date	2017-10-18

3.8.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.8.3 Setup



3.8.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.8.5 Procedure

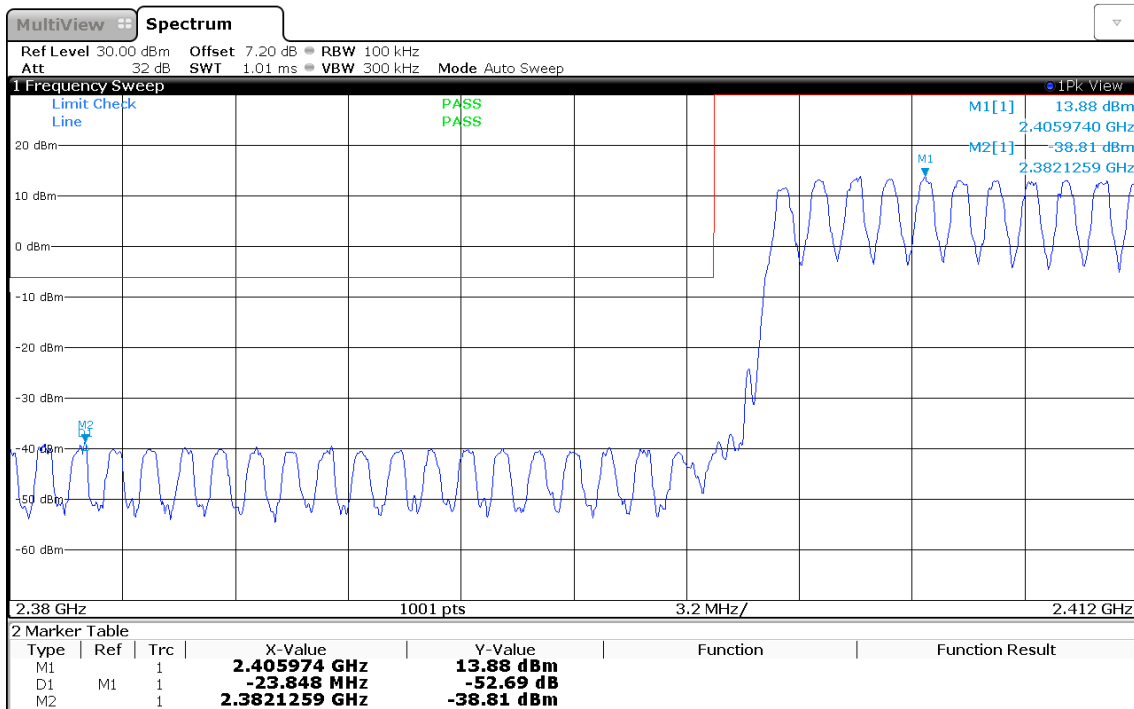
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference

3.8.6 Results

Test Results				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
DH5 single	2402	-48.48	-20	PASS
DH5 single	2480	-60.36	-20	PASS
DH5 hopping	2402	-52.69	-20	PASS
DH5 hopping	2480	-48.33	-20	PASS
2-DH5 single	2402	-43.08	-20	PASS
2-DH5 single	2480	-61.89	-20	PASS
2-DH5 hopping	2402	-47.84	-20	PASS
2-DH5 hopping	2480	-50.13	-20	PASS
3-DH5 single	2402	-42.79	-20	PASS
3-DH5 single	2480	-60.05	-20	PASS
3-DH5 hopping	2402	-48.32	-20	PASS
3-DH5 hopping	2480	-50.61	-20	PASS

Band-edge Compliance

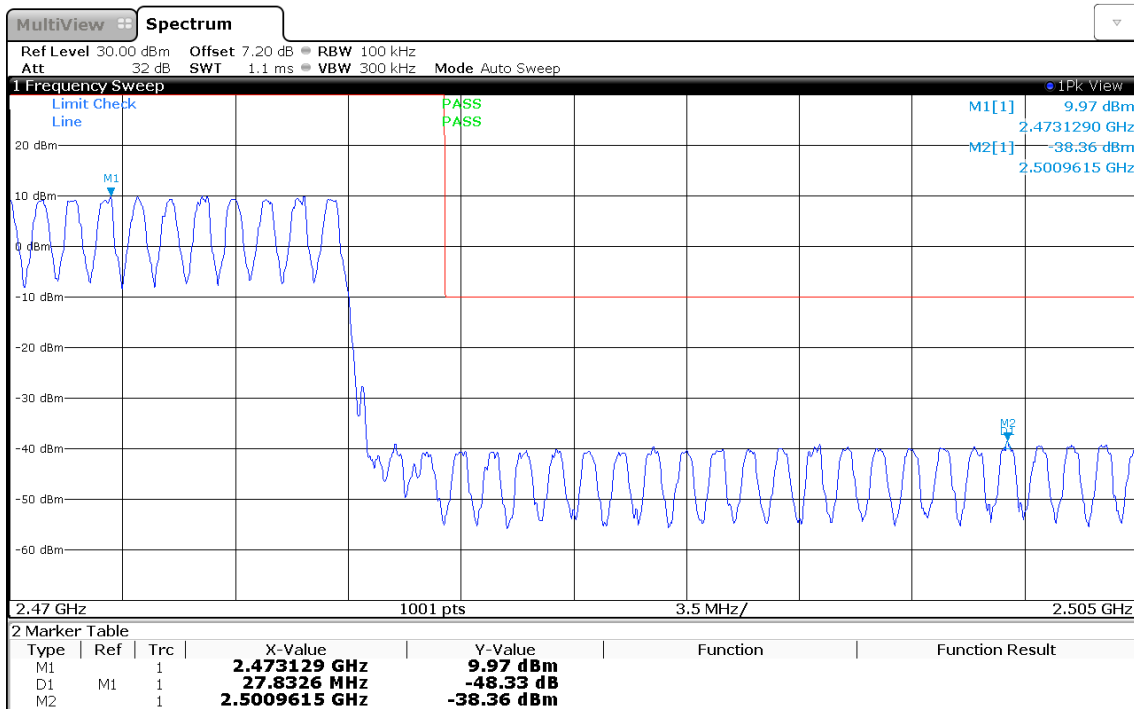
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Lower
 In-band Frequency [MHz]: 2405.974
 Max. in-band Level [dBm/100 kHz]: 13.88
 Out-of-band Frequency [MHz]: 2382.126
 Max. out-of-band Level [dBm/100 kHz]: -38.811
 Attenuation [dB]: -52.69



13:11:42 19.10.2017

Band-edge Compliance

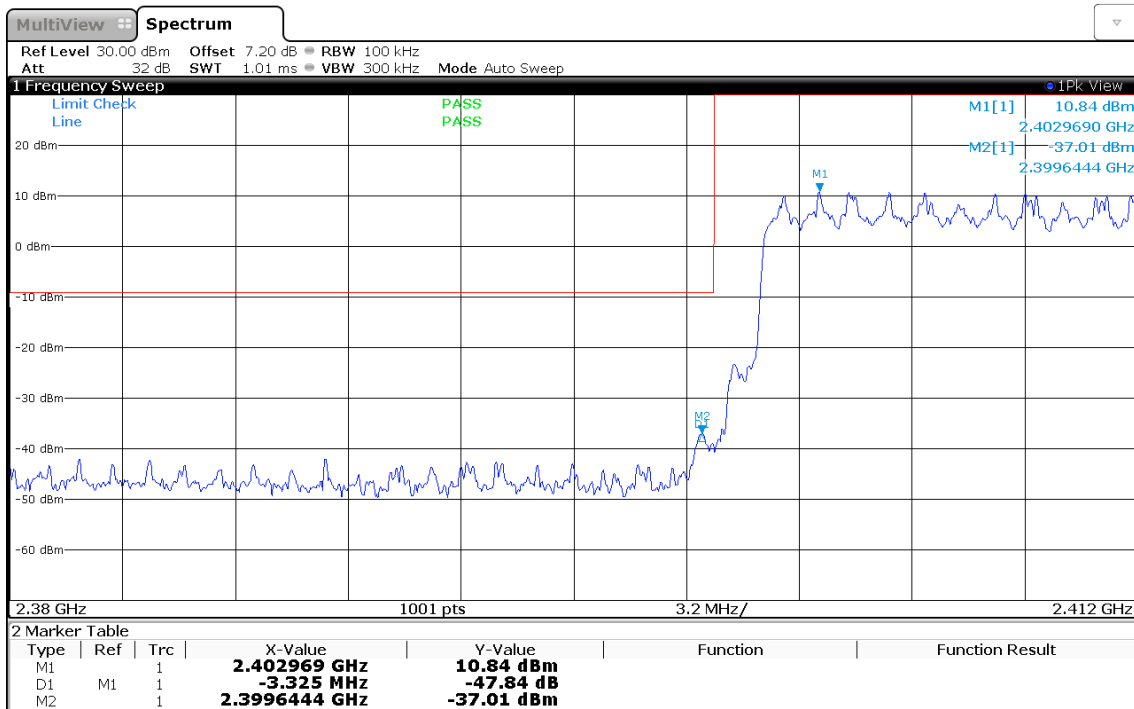
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Upper
 In-band Frequency [MHz]: 2473.129
 Max. in-band Level [dBm/100 kHz]: 9.97
 Out-of-band Frequency [MHz]: 2500.962
 Max. out-of-band Level [dBm/100 kHz]: -38.363
 Attenuation [dB]: -48.33



13:17:53 19.10.2017

Band-edge Compliance

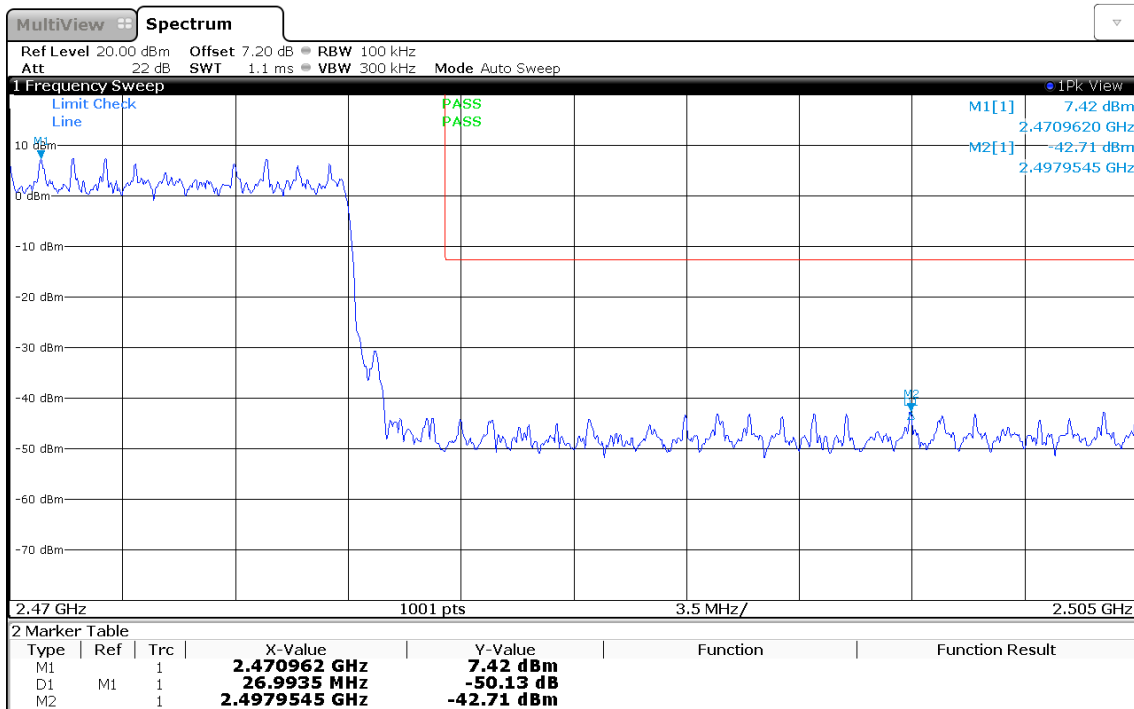
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 2-DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.969
 Max. in-band Level [dBm/100 kHz]: 10.838
 Out-of-band Frequency [MHz]: 2399.644
 Max. out-of-band Level [dBm/100 kHz]: -37.006
 Attenuation [dB]: -47.84



13:12:26 19.10.2017

Band-edge Compliance

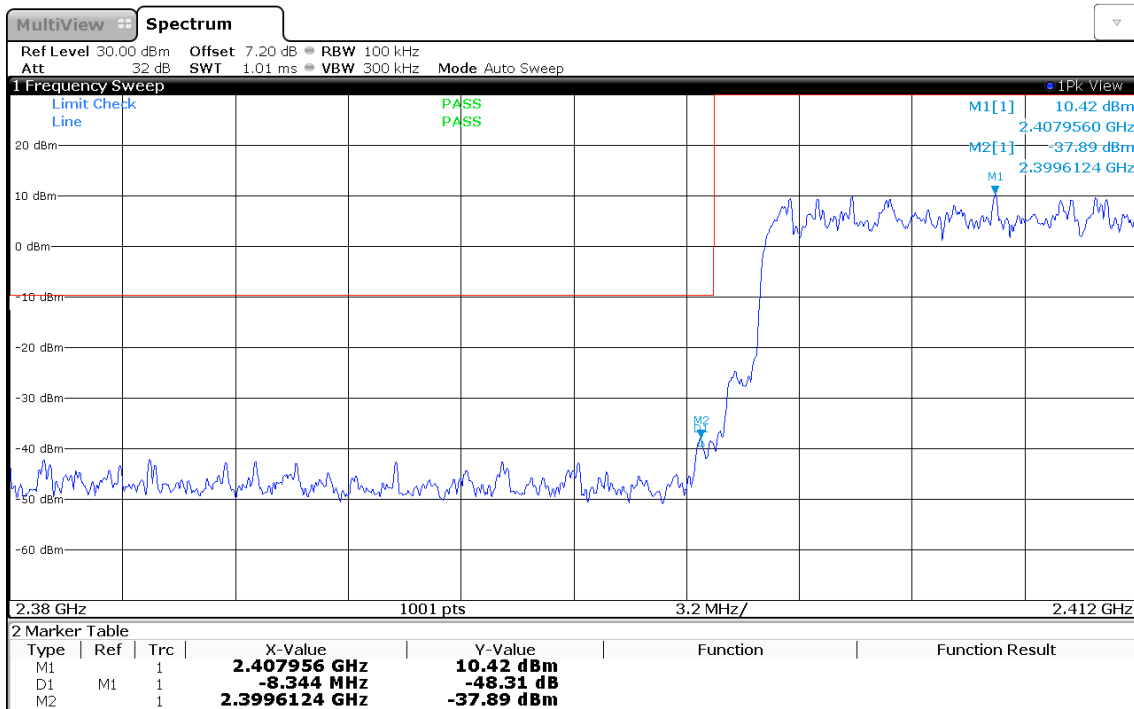
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 2-DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Upper
 In-band Frequency [MHz]: 2470.962
 Max. in-band Level [dBm/100 kHz]: 7.418
 Out-of-band Frequency [MHz]: 2497.955
 Max. out-of-band Level [dBm/100 kHz]: -42.714
 Attenuation [dB]: -50.13



13:18:23 19.10.2017

Band-edge Compliance

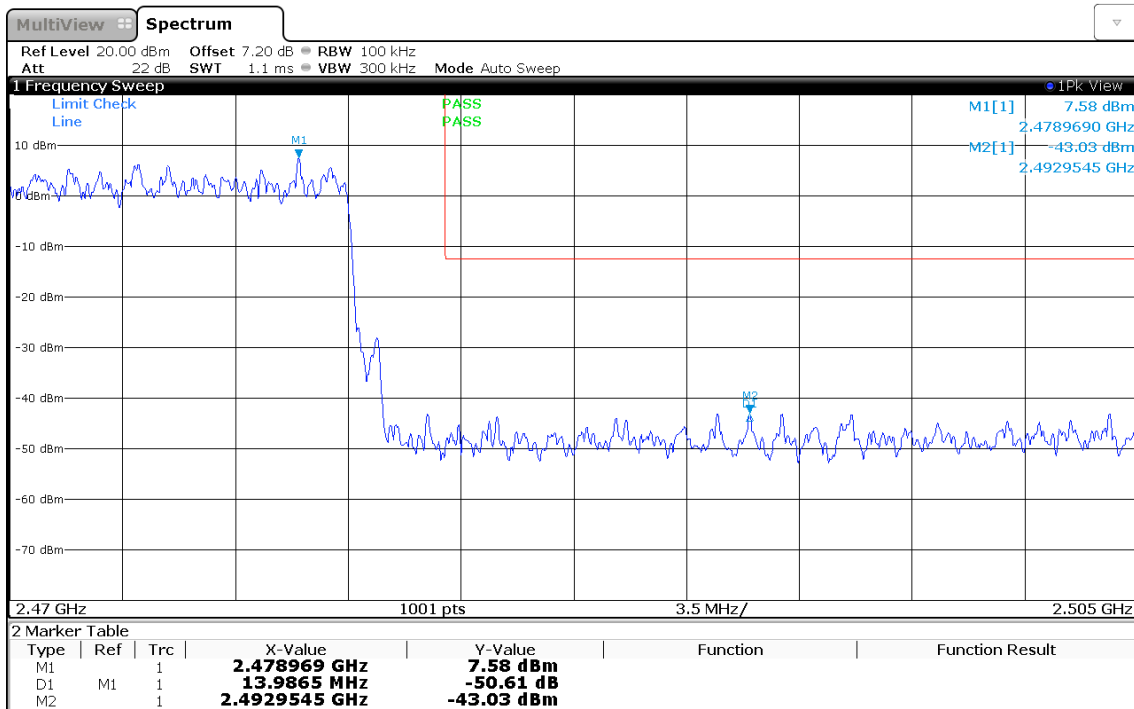
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEEOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 3-DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Lower
 In-band Frequency [MHz]: 2407.956
 Max. in-band Level [dBm/100 kHz]: 10.42
 Out-of-band Frequency [MHz]: 2399.612
 Max. out-of-band Level [dBm/100 kHz]: -37.895
 Attenuation [dB]: -48.32



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Band-edge Compliance

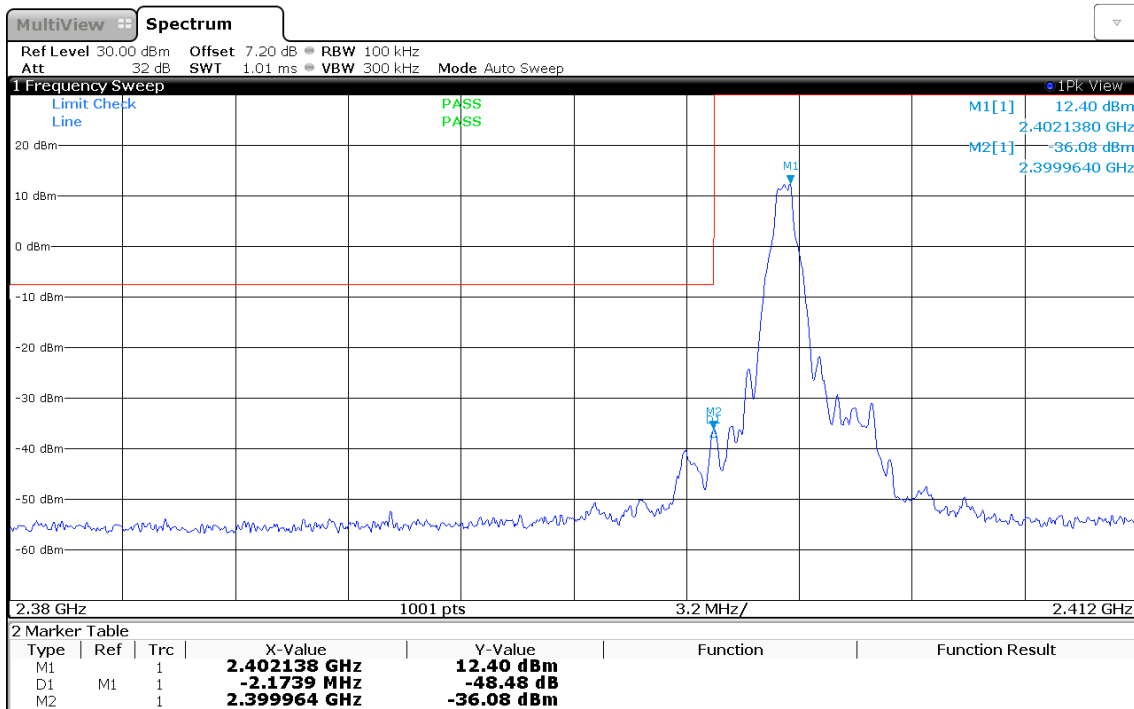
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 3-DH5, Hopping
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Upper
 In-band Frequency [MHz]: 2478.969
 Max. in-band Level [dBm/100 kHz]: 7.576
 Out-of-band Frequency [MHz]: 2492.955
 Max. out-of-band Level [dBm/100 kHz]: -43.03
 Attenuation [dB]: -50.61



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Band-edge Compliance

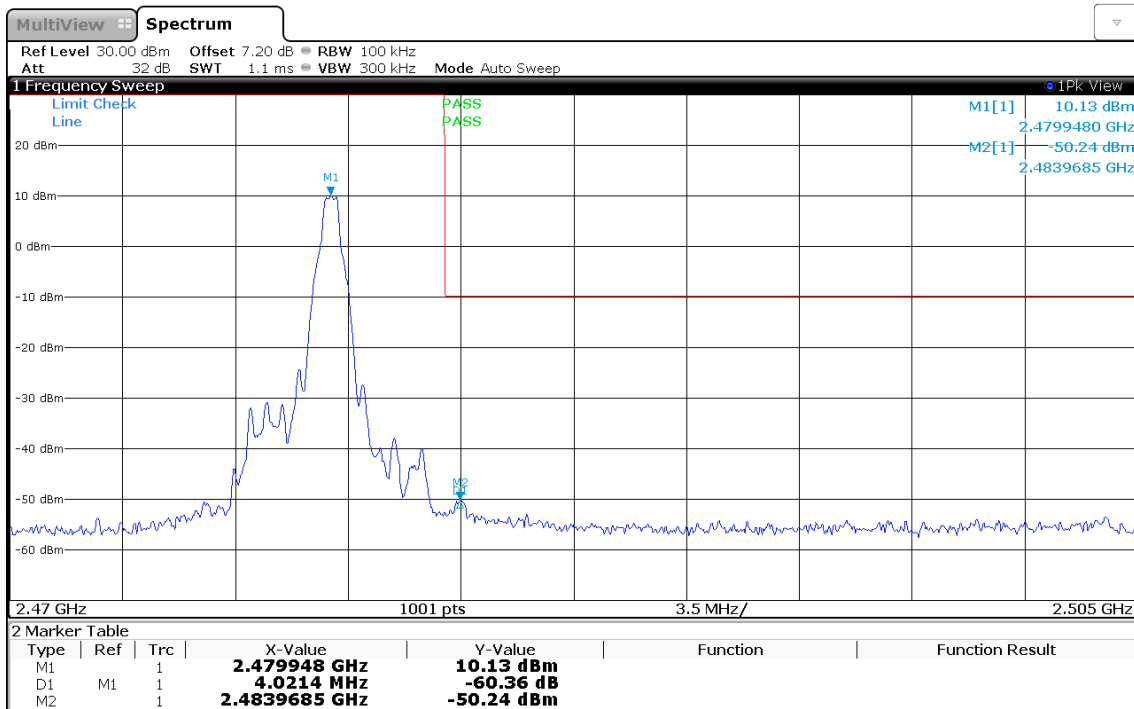
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.138
 Max. in-band Level [dBm/100 kHz]: 12.4
 Out-of-band Frequency [MHz]: 2399.964
 Max. out-of-band Level [dBm/100 kHz]: -36.078
 Attenuation [dB]: -48.48



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Band-edge Compliance

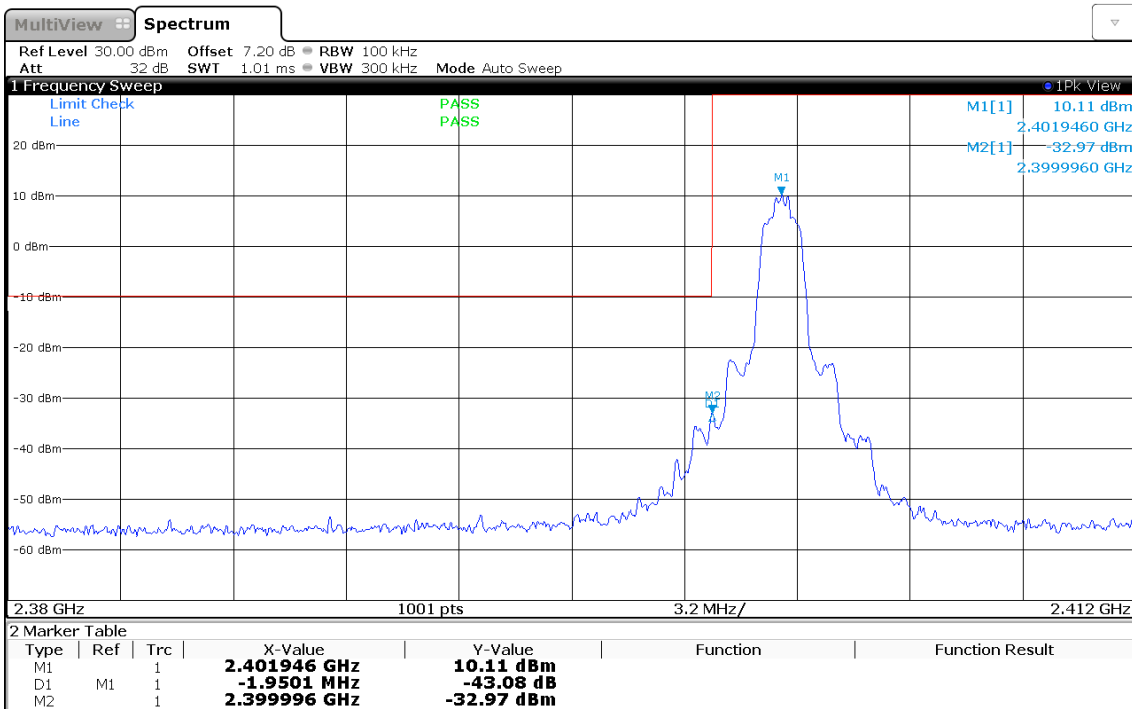
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Upper
 In-band Frequency [MHz]: 2479.948
 Max. in-band Level [dBm/100 kHz]: 10.127
 Out-of-band Frequency [MHz]: 2483.969
 Max. out-of-band Level [dBm/100 kHz]: -50.237
 Attenuation [dB]: -60.36



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Band-edge Compliance

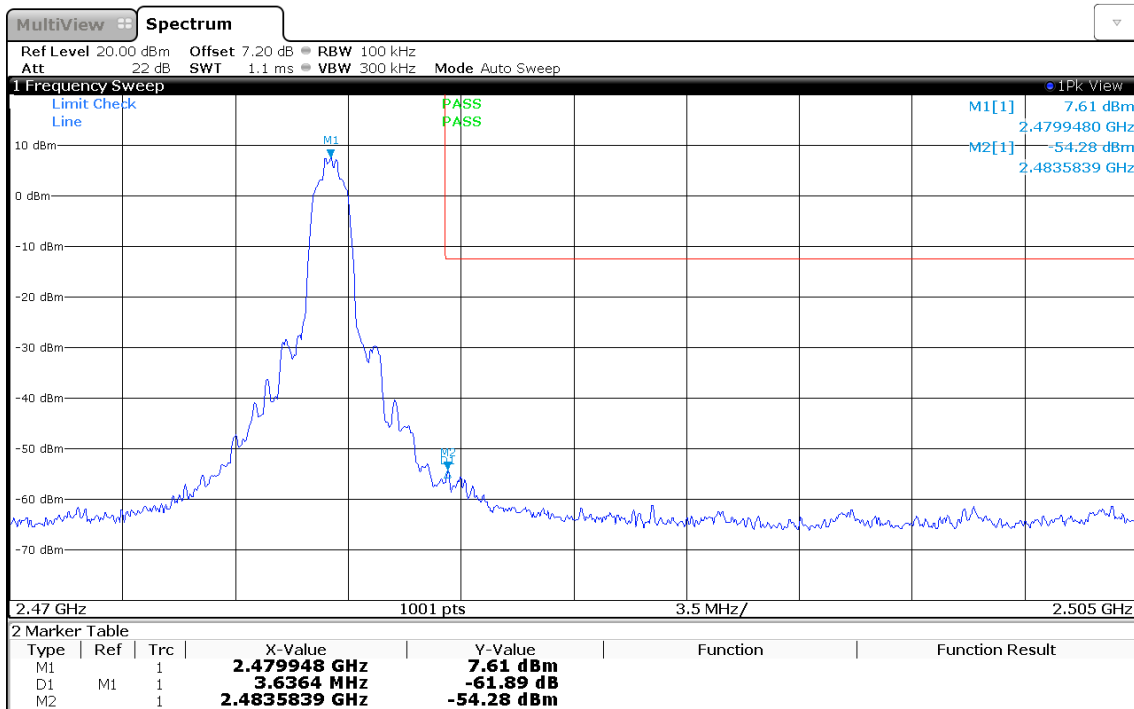
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Lower
 In-band Frequency [MHz]: 2401.946
 Max. in-band Level [dBm/100 kHz]: 10.11
 Out-of-band Frequency [MHz]: 2399.996
 Max. out-of-band Level [dBm/100 kHz]: -32.973
 Attenuation [dB]: -43.08



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Band-edge Compliance

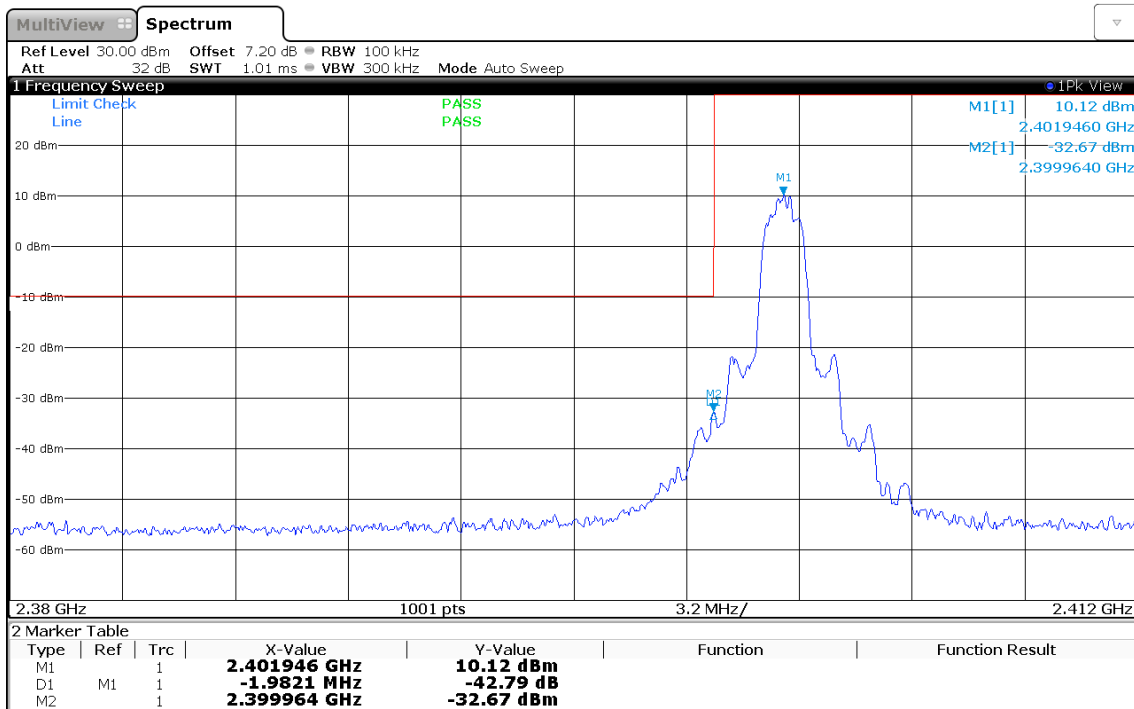
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Upper
 In-band Frequency [MHz]: 2479.948
 Max. in-band Level [dBm/100 kHz]: 7.611
 Out-of-band Frequency [MHz]: 2483.584
 Max. out-of-band Level [dBm/100 kHz]: -54.278
 Attenuation [dB]: -61.89



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Band-edge Compliance

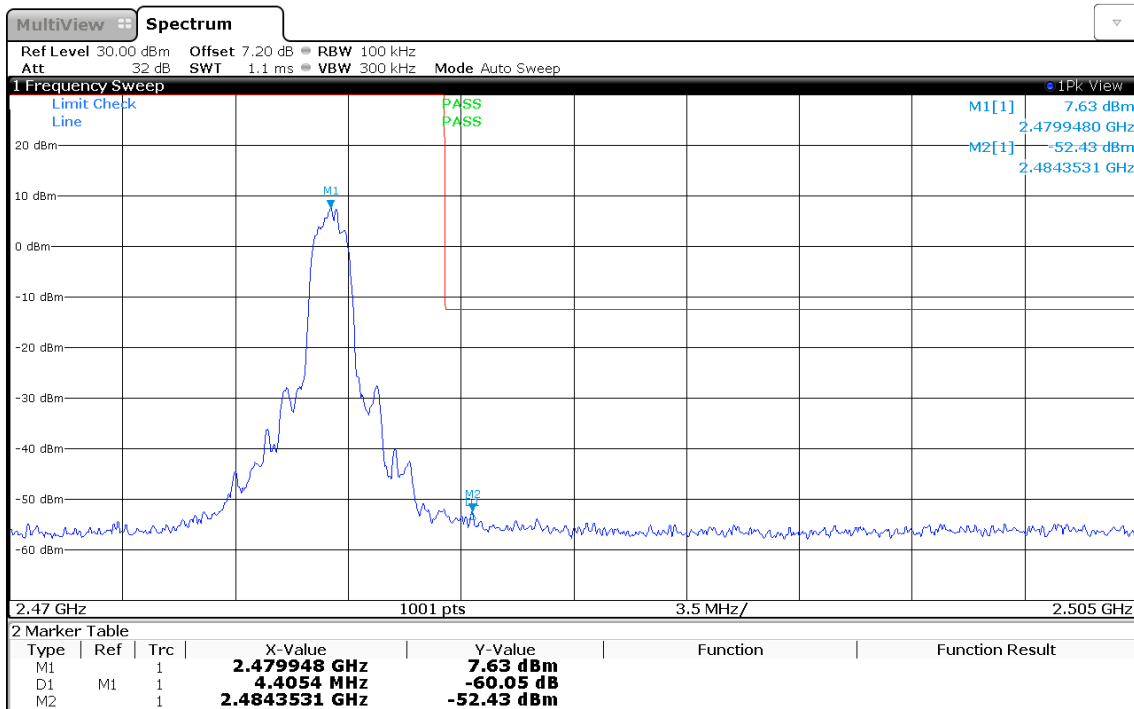
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Lower
 In-band Frequency [MHz]: 2401.946
 Max. in-band Level [dBm/100 kHz]: 10.115
 Out-of-band Frequency [MHz]: 2399.964
 Max. out-of-band Level [dBm/100 kHz]: -32.673
 Attenuation [dB]: -42.79



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Band-edge Compliance

Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Band-edge: Upper
 In-band Frequency [MHz]: 2479.948
 Max. in-band Level [dBm/100 kHz]: 7.627
 Out-of-band Frequency [MHz]: 2484.353
 Max. out-of-band Level [dBm/100 kHz]: -52.427
 Attenuation [dB]: -60.05



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3.9 Test Conditions and Results - Conducted spurious emissions

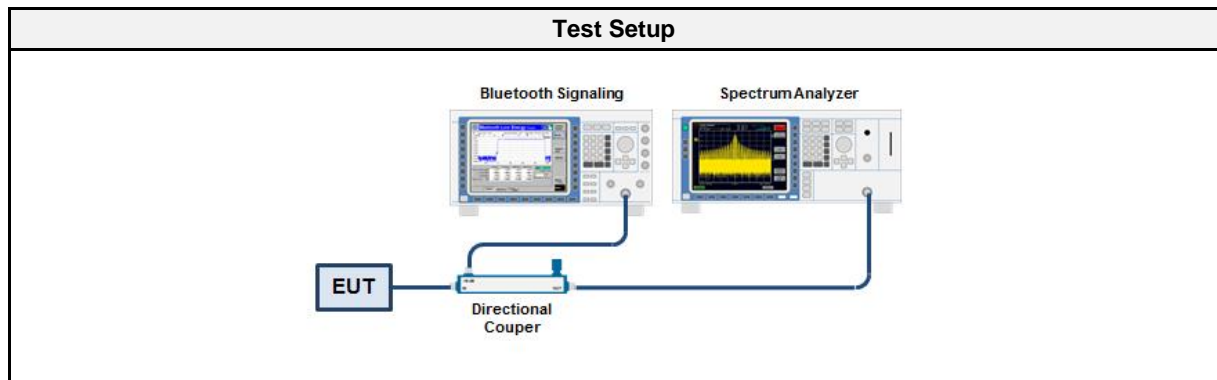
3.9.1 Information

Test Information	
Reference	FCC 15.247(d) / ISED RSS-247 5.5
Measurement Method	ANSI C63.10 6.10
Operator	Abdullah Al Jamal
Date	2017-10-19

3.9.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.9.3 Setup



3.9.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Spectrum Analyzer	R&S	FSW 43	EF00896	2017-08	2018-08

3.9.5 Procedure

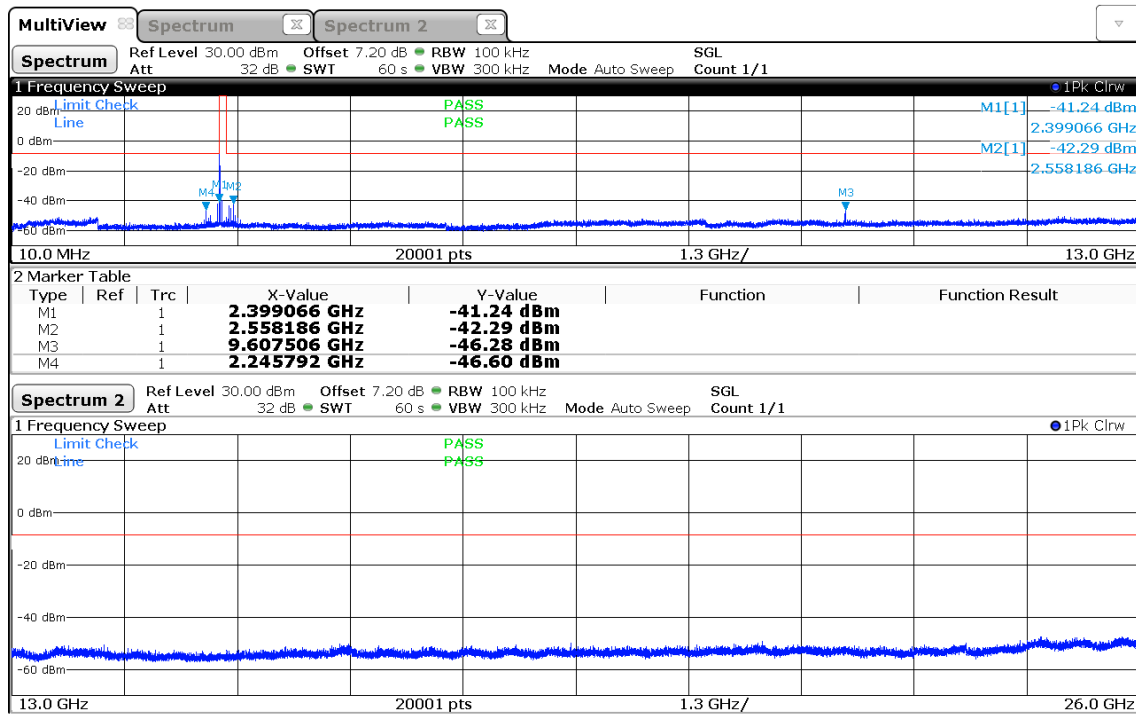
Test Procedure
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference

3.9.6 Results

Test Results		
Mode	Channel [MHz]	Verdict
DH5	2402	PASS
DH5	2441	PASS
DH5	2480	PASS
2-DH5	2402	PASS
2-DH5	2441	PASS
2-DH5	2480	PASS
3-DH5	2402	PASS
3-DH5	2441	PASS
3-DH5	2480	PASS

Conducted Spurious Emissions

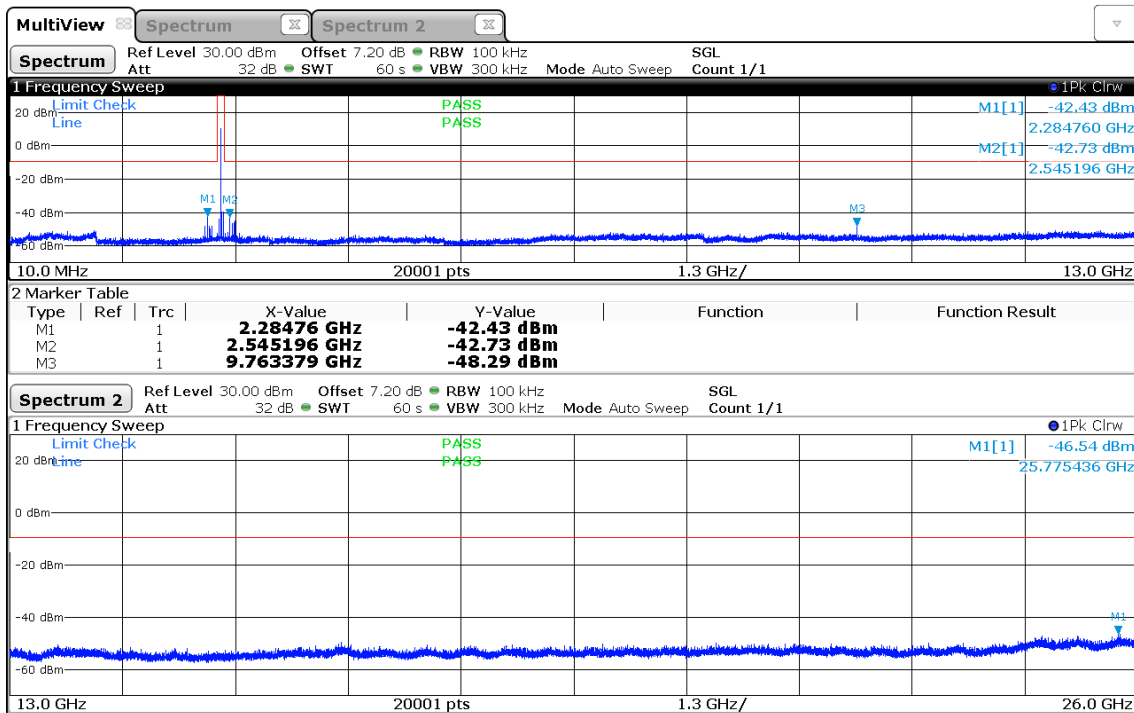
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: 11.4
 Out-of-band Limit [dBm/100 kHz]: -8.6



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Conducted Spurious Emissions

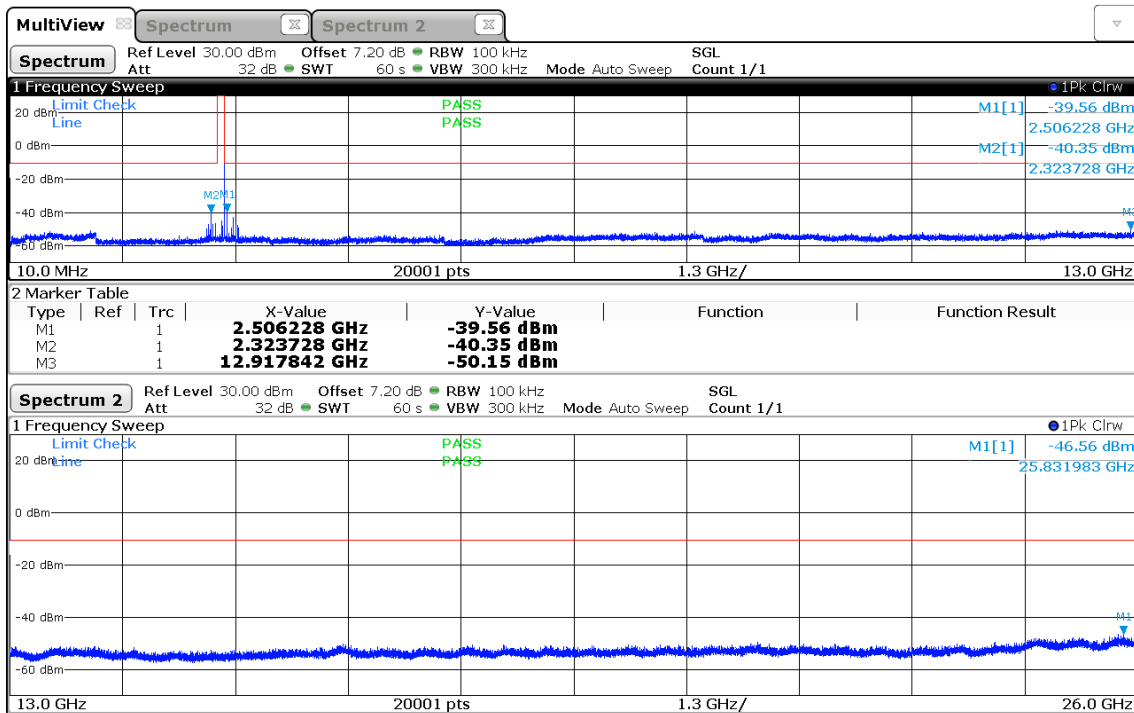
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2440.9
 Max. in-band Level [dBm/100 kHz]: 10.4
 Out-of-band Limit [dBm/100 kHz]: -9.6



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Conducted Spurious Emissions

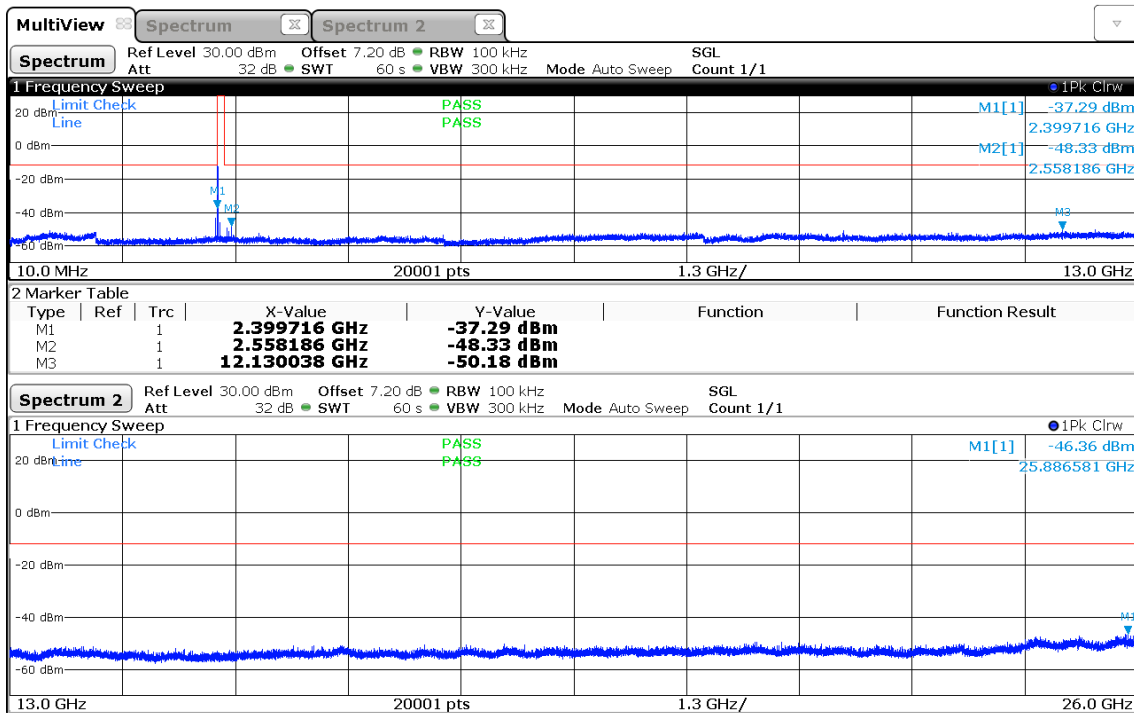
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2479.9
 Max. in-band Level [dBm/100 kHz]: 9.4
 Out-of-band Limit [dBm/100 kHz]: -10.6



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Conducted Spurious Emissions

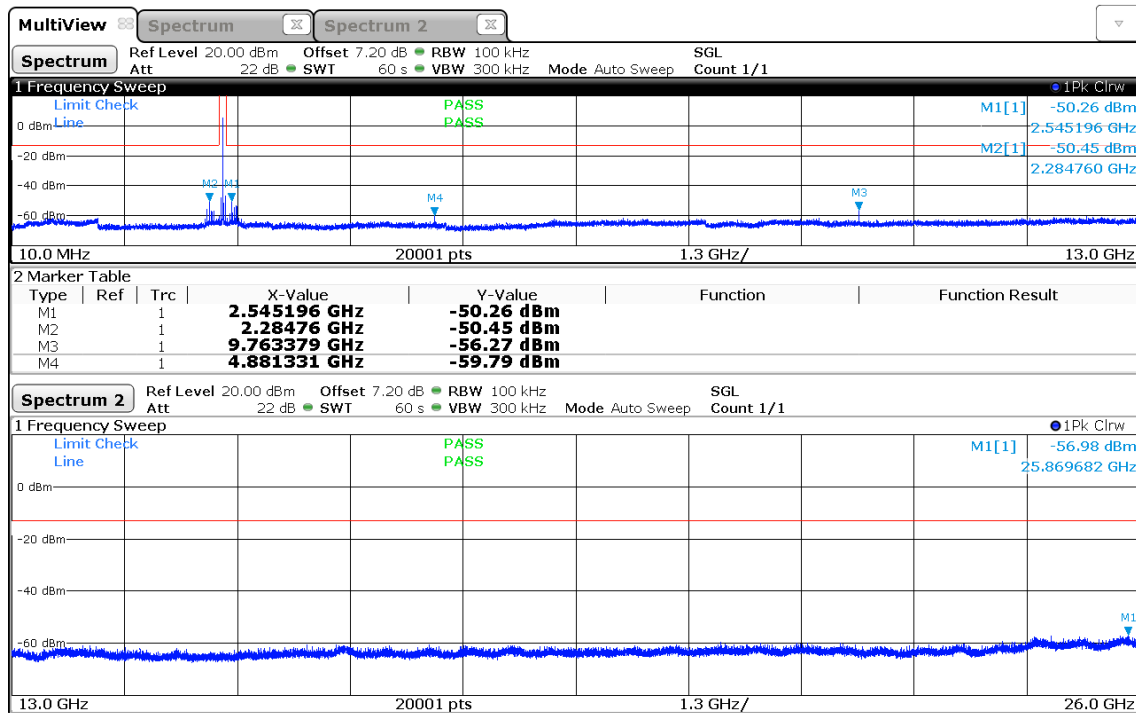
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2401.9
 Max. in-band Level [dBm/100 kHz]: 8.3
 Out-of-band Limit [dBm/100 kHz]: -11.7



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Conducted Spurious Emissions

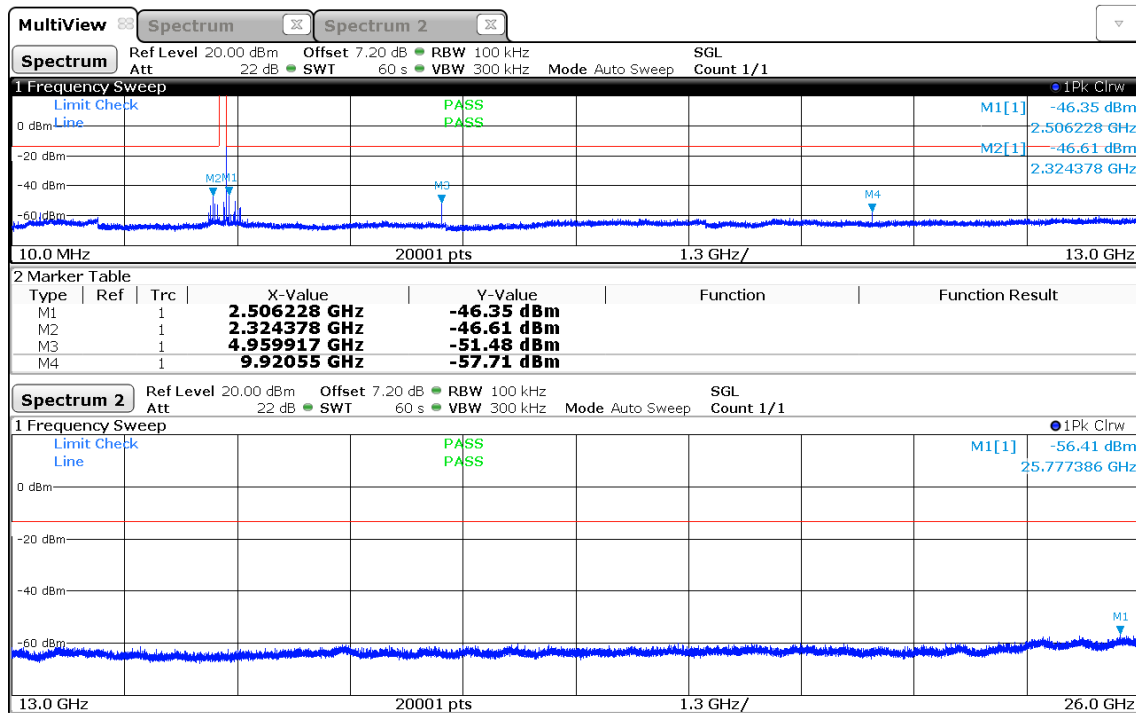
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: 6.9
 Out-of-band Limit [dBm/100 kHz]: -13.1



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Conducted Spurious Emissions

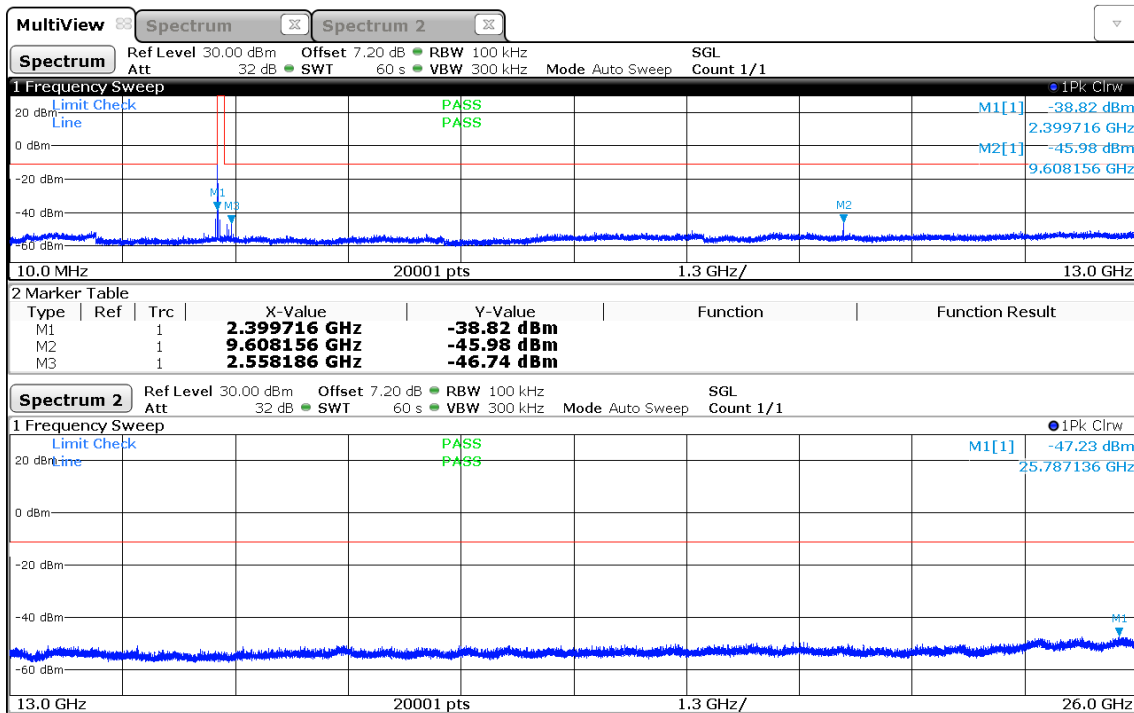
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 2-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: 6.5
 Out-of-band Limit [dBm/100 kHz]: -13.5



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Conducted Spurious Emissions

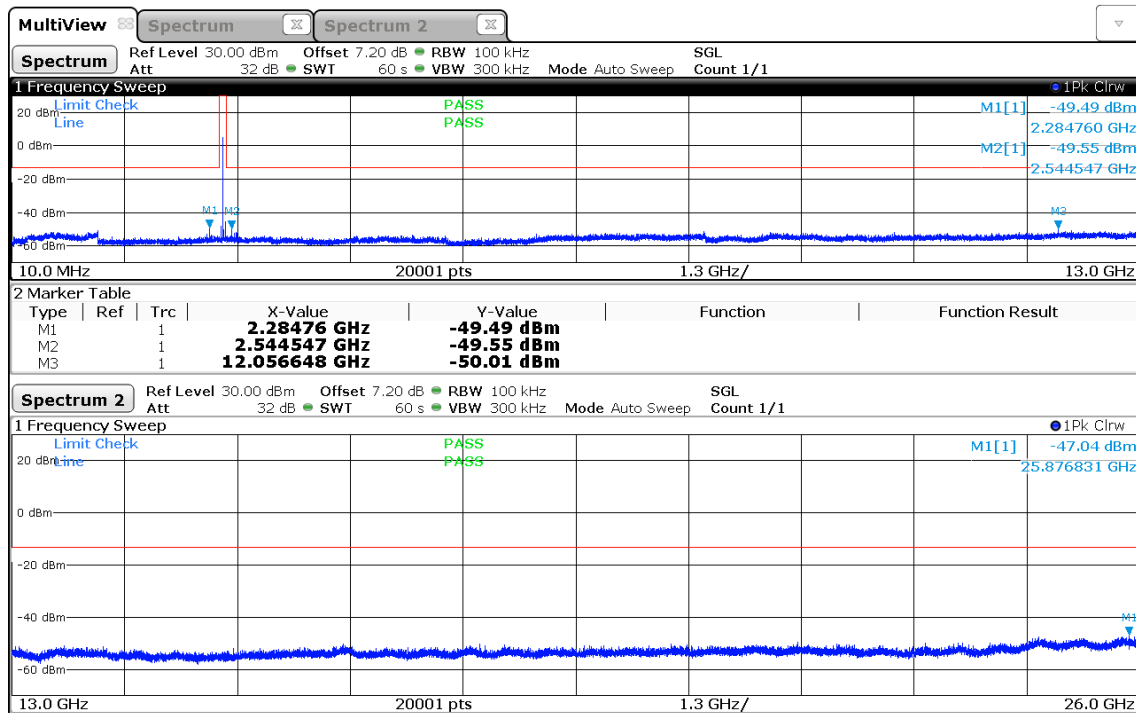
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: 8.9
 Out-of-band Limit [dBm/100 kHz]: -11.1



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Conducted Spurious Emissions

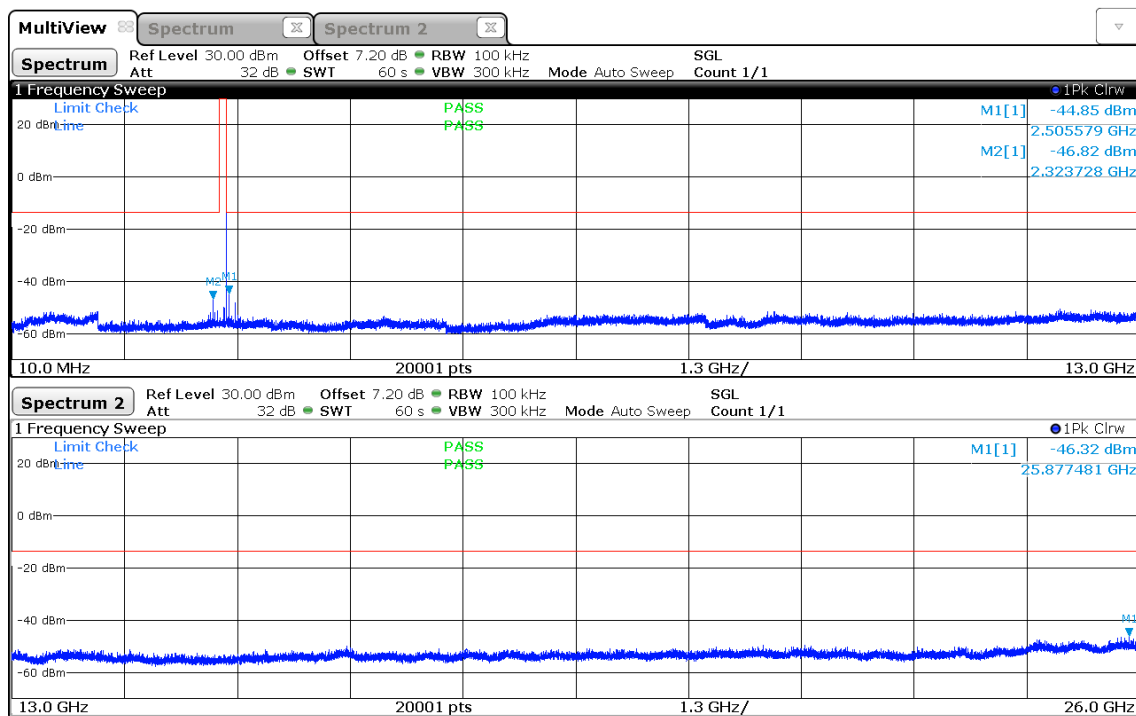
Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 39, 2441 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2441.0
 Max. in-band Level [dBm/100 kHz]: 6.9
 Out-of-band Limit [dBm/100 kHz]: -13.1



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Conducted Spurious Emissions

Project Number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 Model Description: CEECOACH
 Model: CC2
 Test Sample ID: 15515 (BT1)
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.8
 Operational Mode: 3-DH5, Channel: 78, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: A. Al Jamal
 Test Site: Eurofins Product Service GmbH
 Test Date: 2017-10-19
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: 6.5
 Out-of-band Limit [dBm/100 kHz]: -13.5



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3.10 Test Conditions and Results - Transmitter radiated emissions

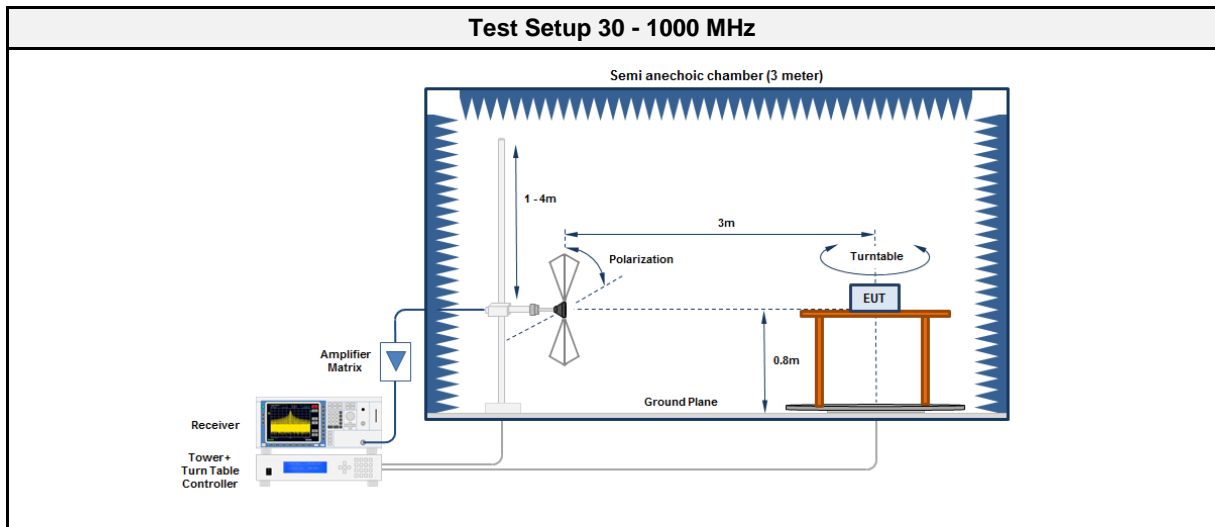
3.10.1 Information

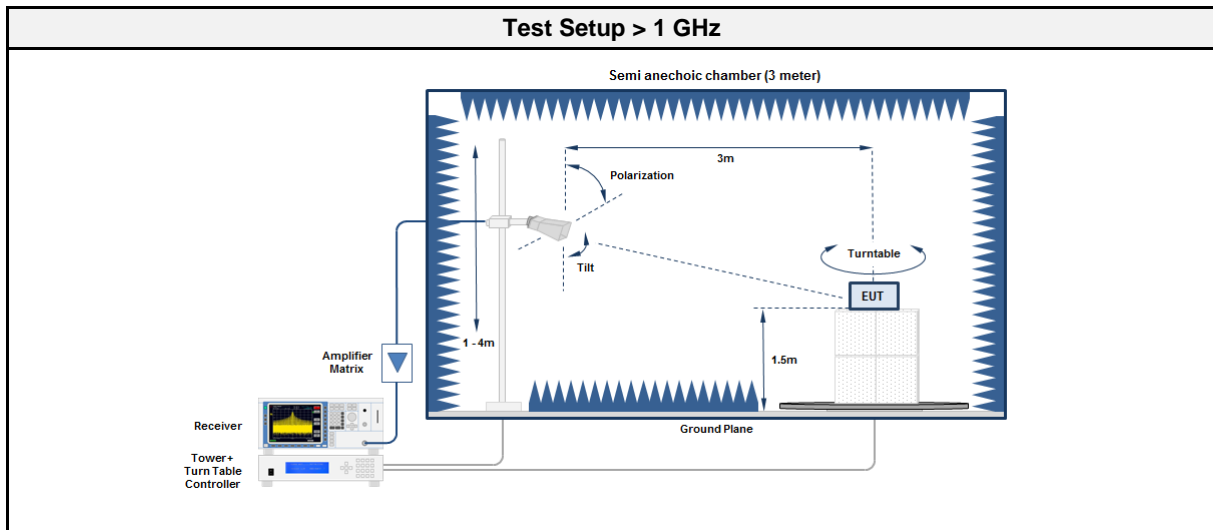
Test Information	
Reference	FCC 15.247(d) / ISED RSS-GEN 8.9
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6
Operator	Abdullah Al Jamal
Date	2017-10-20

3.10.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [dB μ V/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.10.3 Setup





3.10.4 Equipment

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Anechoic Chamber	Frankonia	AC1	EF00062	2017-02	2020-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2017-08	2018-08
Antenna	R&S	HK 116	EF00030	2016-04	2019-04
Antenna	R&S	HL 223	EF00187	2016-05	2019-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Anechoic Chamber	Frankonia	AC1	EF00062	2017-02	2020-02
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2017-08	2018-08
Antenna	R&S	BBHA 9120D	EF00018	2016-09	2019-09
Antenna	Amplifier Research	AT4560	EF00302	2017-03	2018-03

3.10.5 Procedure

Test Procedure 30 - 1000 MHz	
1.	EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz	
1.	EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

3.10.6 Results

Test Results - DH5						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
2402	125.2	30.75	pk	hor	43.52	-12.77
2402	246.4	21.27	pk	hor	46.00	-24.73
2402	2245.4	52.32	pk	ver	74.00	-21.68
2441	2282.4	53.87	pk	ver	74.00	-20.13
2480	2485.4	53.30	pk	ver	74.00	-20.70
2480	2485.4	39.32	RMS	ver	54.00	-14.68
2480	2495.1	53.25	pk	hor	74.00	-20.75
2480	2495.1	39.41	RMS	hor	54.00	-14.59

3.11 Test Conditions and Results - Receiver radiated emissions

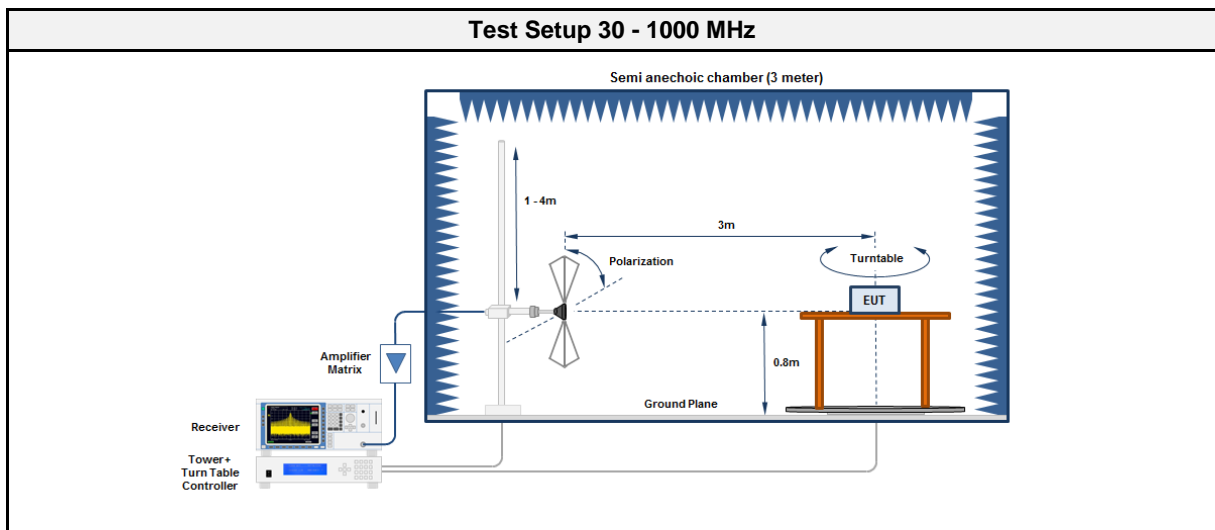
3.11.1 Information

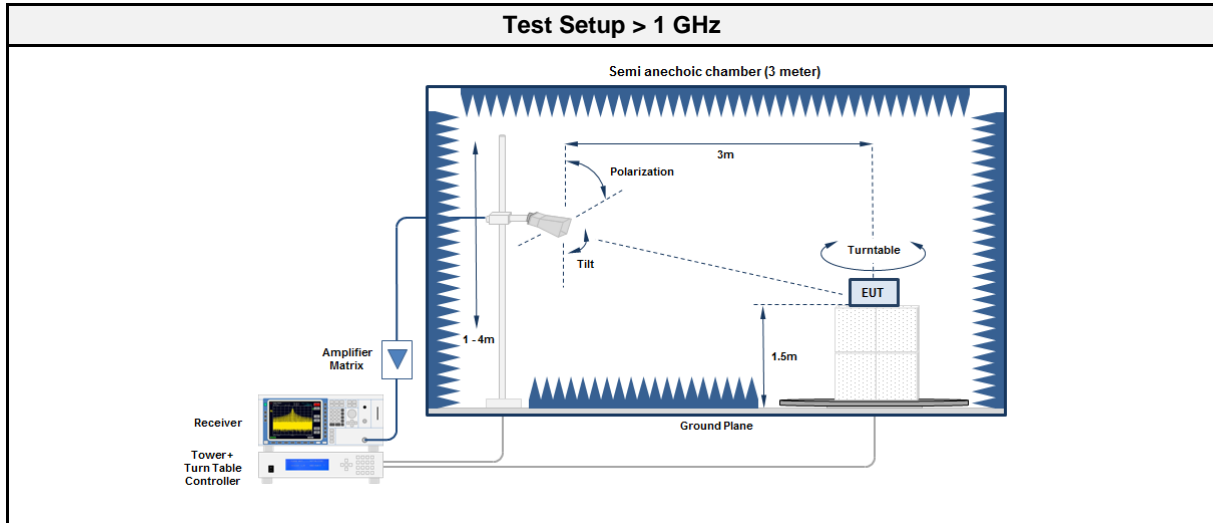
Test Information	
Reference	ISED RSS-247 3.1
Measurement Method	ANSI C63.10 6.5, 6.6
Operator	Abdullah Al Jamal
Date	2017-10-23

3.11.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [dB μ V/m]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.11.3 Setup





3.11.4 Equipment

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Anechoic Chamber	Frankonia	AC1	EF00062	-	-
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2017-08	2018-08
Antenna	R&S	VULB 9162	EF00978	2016-11	2017-11
Antenna	R&S	HK 116	EF00012	2016-05	2019-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
CBT Bluetooth Tester	R&S	CBT	EF00358	2017-03	2019-03
Anechoic Chamber	Frankonia	AC1	EF00062	-	-
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2017-08	2018-08
Antenna	R&S	BBHA 9120D	EF01153	2017-08	2018-08
Antenna	Amplifier Research	AT4560	EF00302	2017-03	2018-03

3.11.5 Procedure

Test Procedure 30 - 1000 MHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
<ol style="list-style-type: none"> EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground EUT set to test mode The receiver is set to peak detection with max hold The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m All significant emissions are measured again using the corresponding final detector

3.11.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
2441	30.197	39.60	pk	ver	40.00	-00.40
2441	30.197	30.16	qpk	ver	40.00	-09.84
2441	32.26	39.77	pk	ver	40.00	-00.23
2441	32.26	29.83	qpk	ver	40.00	-10.17
2441	33.785	37.10	pk	ver	40.00	-02.90
2441	33.785	25.65	qpk	ver	40.00	-14.35
2441	34.072	36.65	pk	hor	40.00	-03.35
2441	41.284	39.54	pk	ver	40.00	-00.46
2441	41.284	32.04	qpk	ver	40.00	-07.96
2441	53.289	36.61	pk	ver	40.00	-03.39
2441	53.289	28.12	qpk	ver	40.00	-11.88
2441	56.329	35.22	pk	ver	40.00	-04.78
2441	56.329	25.57	qpk	ver	40.00	-14.43
2441	59.928	38.53	pk	ver	40.00	-01.47
2441	59.928	26.79	qpk	ver	40.00	-13.21
2441	85.649	33.45	pk	hor	40.00	-06.55
2441	107.81	36.84	pk	ver	43.50	-06.66
2441	107.81	27.40	qpk	ver	43.50	-16.10
2441	122.295	36.51	pk	hor	43.50	-06.99
2441	185.07	38.68	pk	hor	43.50	-04.82
2441	209.581	27.46	pk	hor	43.50	-16.04
2441	233.533	28.77	pk	hor	46.00	-17.23
2441	354.89	28.94	pk	ver	46.00	-17.06
2441	891.417	33.87	pk	ver	46.00	-12.13
2441	896.208	35.55	pk	hor	46.00	-10.45
2441	902.595	39.19	pk	hor	46.00	-06.81
2441	1575	39.04	pk	ver	53.98	-14.94
2441	3269	41.81	pk	hor	53.98	-12.17
2441	7194	50.37	pk	ver	53.98	-03.61
2441	7377	51.23	pk	hor	53.98	-02.75
2441	10641	45.80	pk	ver	53.98	-08.18
2441	12284	46.23	pk	hor	53.98	-07.75
2441	13722	48.64	pk	hor	53.98	-05.34
2441	16668	48.62	pk	ver	53.98	-05.36

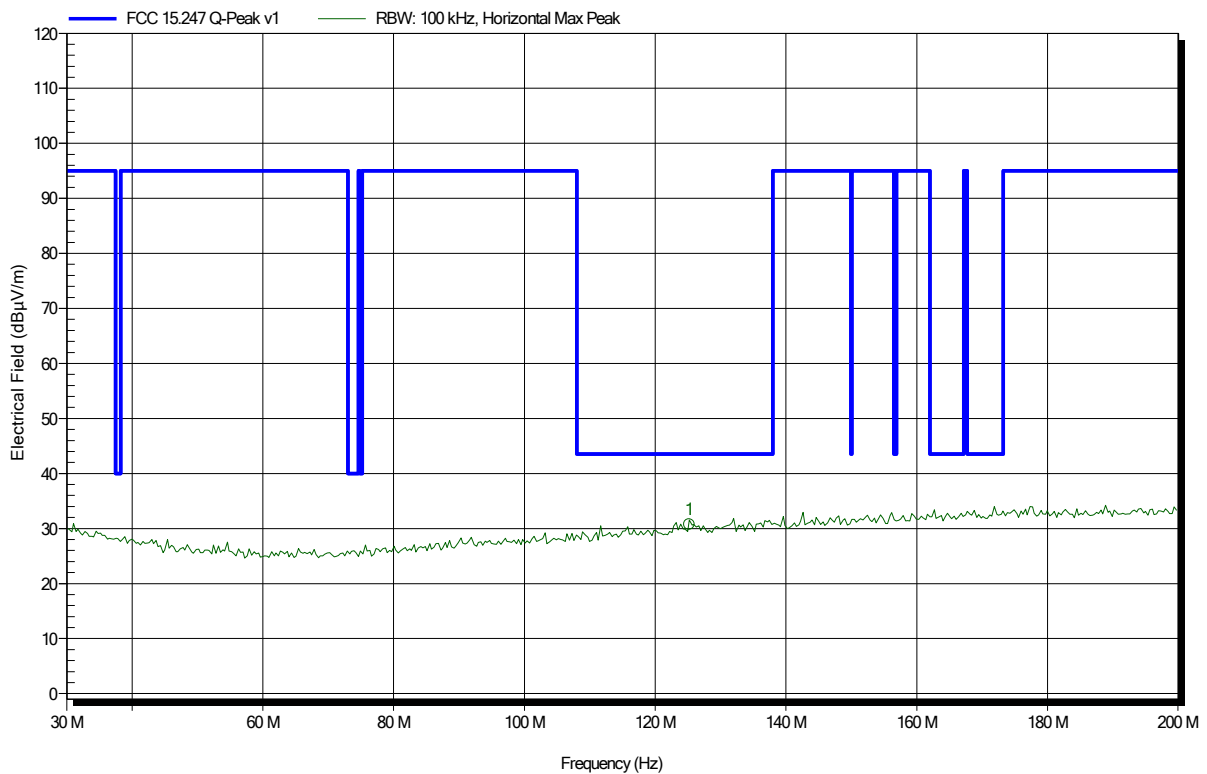
ANNEX A Transmitter spurious emissions

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5 ; 2402 MHz
 Test Date: 2017-10-20
 Note:

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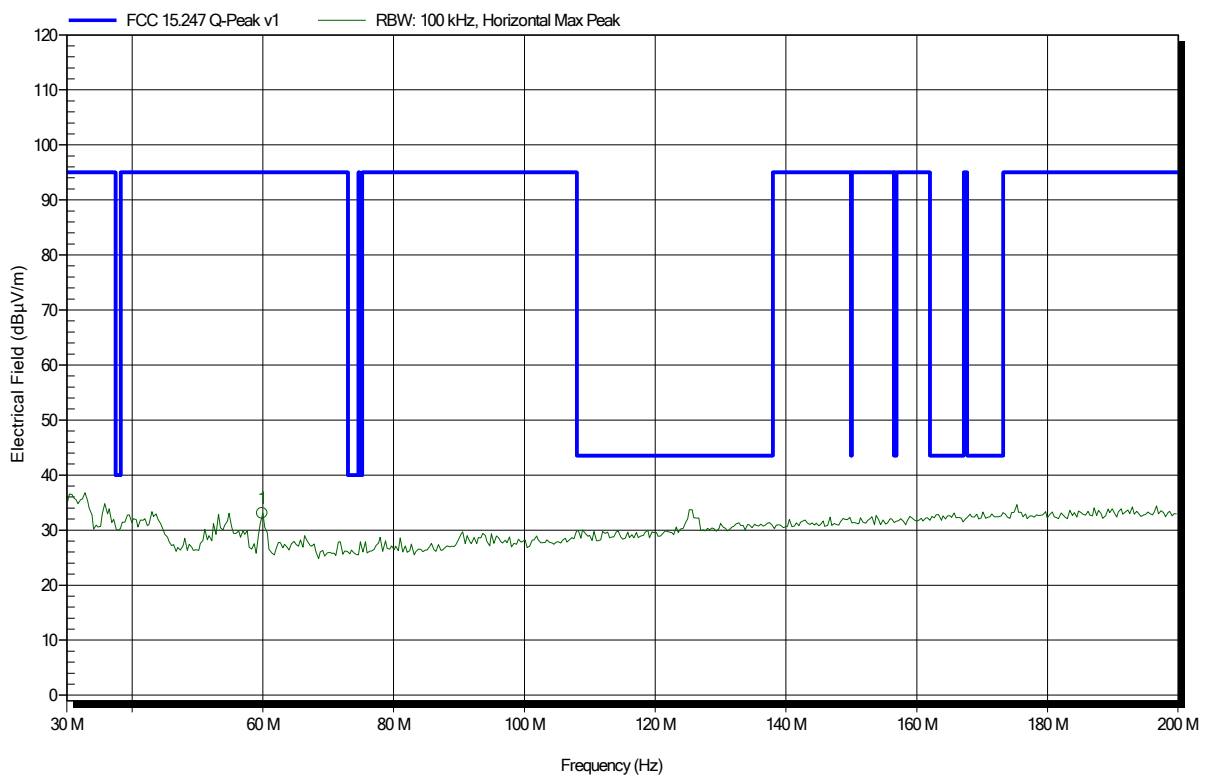
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
125.2 MHz	30.75 dBµV/m	43.52 dBµV/m	-12.77 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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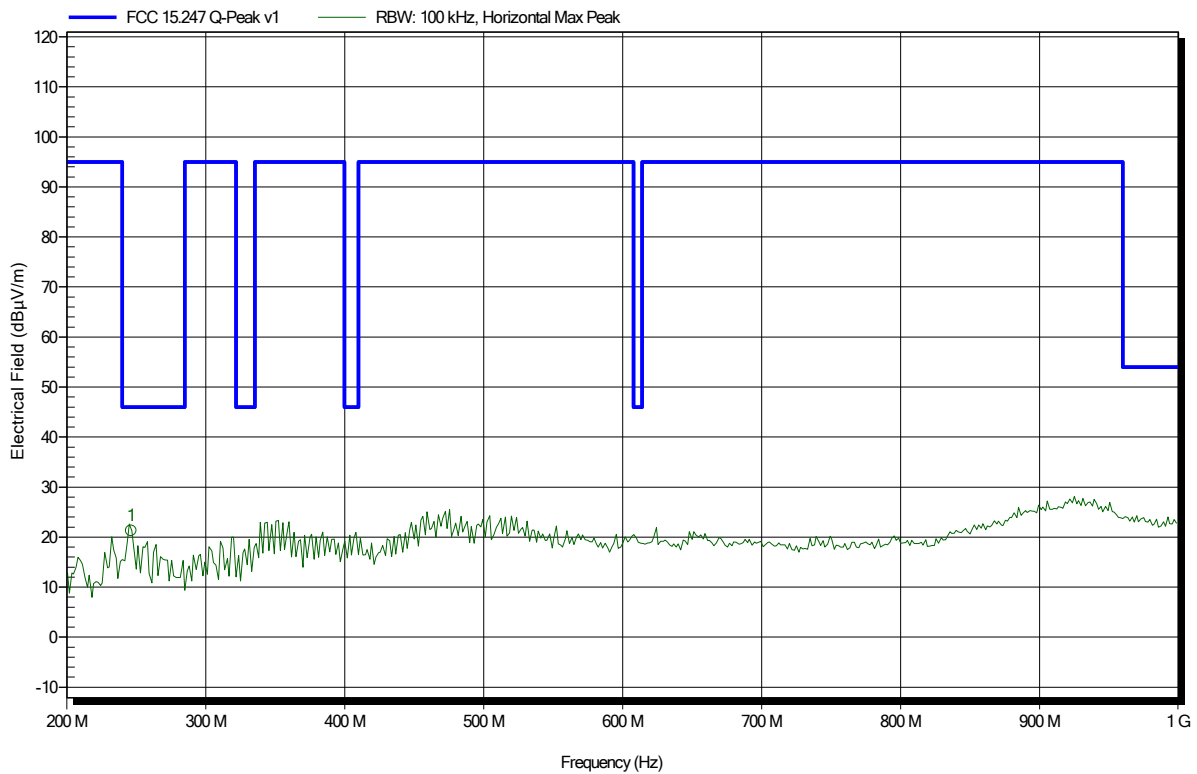
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
59.92 MHz	33.07 dBµV/m	95 dBµV/m	-61.93 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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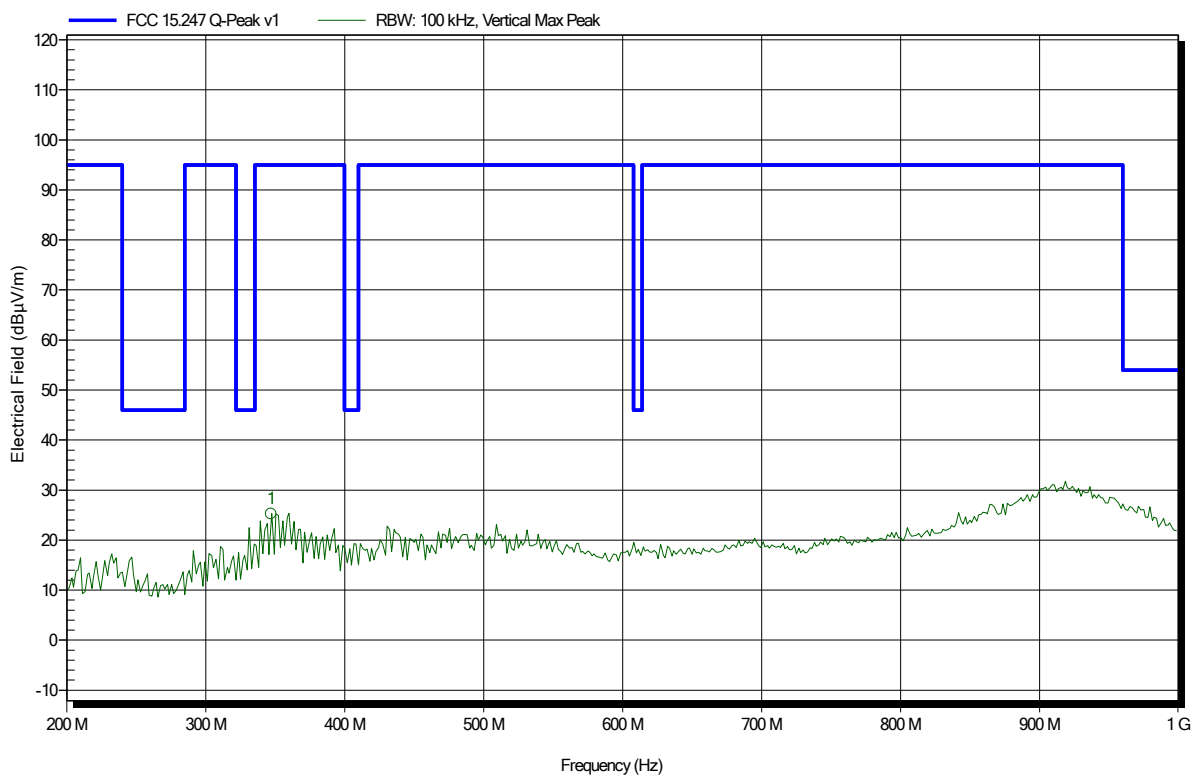
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
246.4 MHz	21.27 dBµV/m	46 dBµV/m	-24.73 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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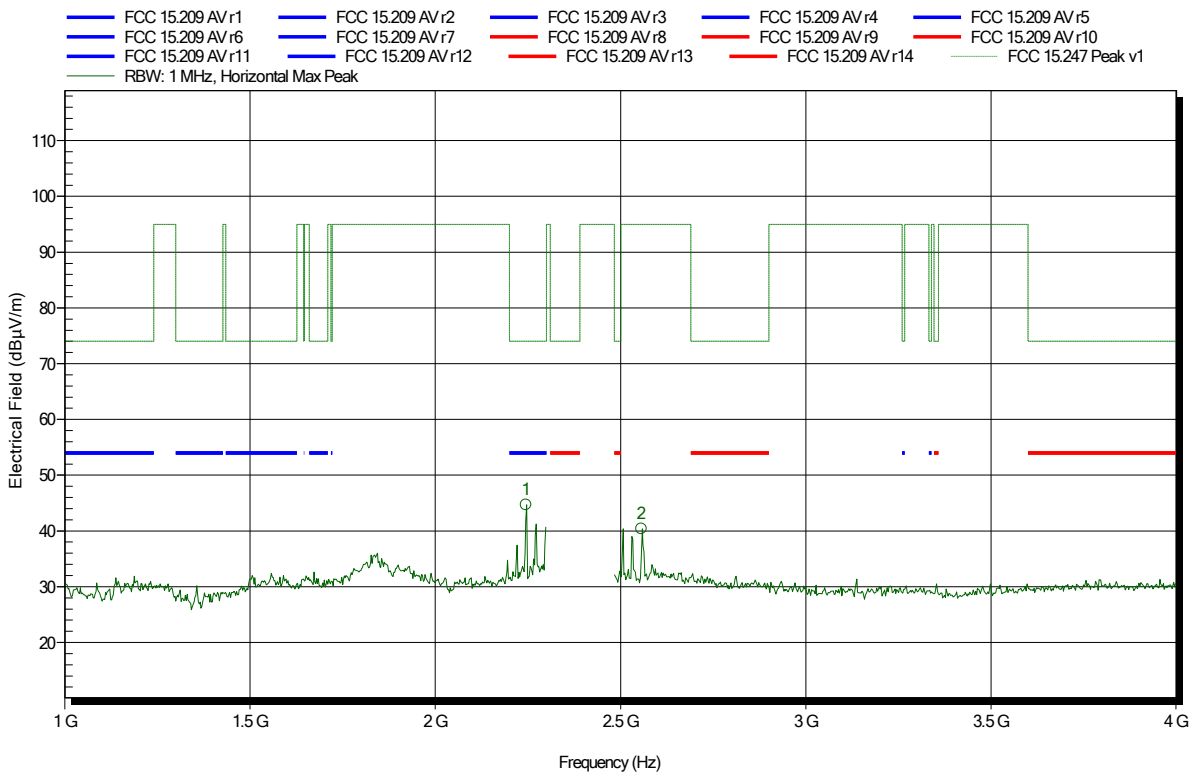
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
347.2 MHz	25.27 dBµV/m	95 dBµV/m	-69.73 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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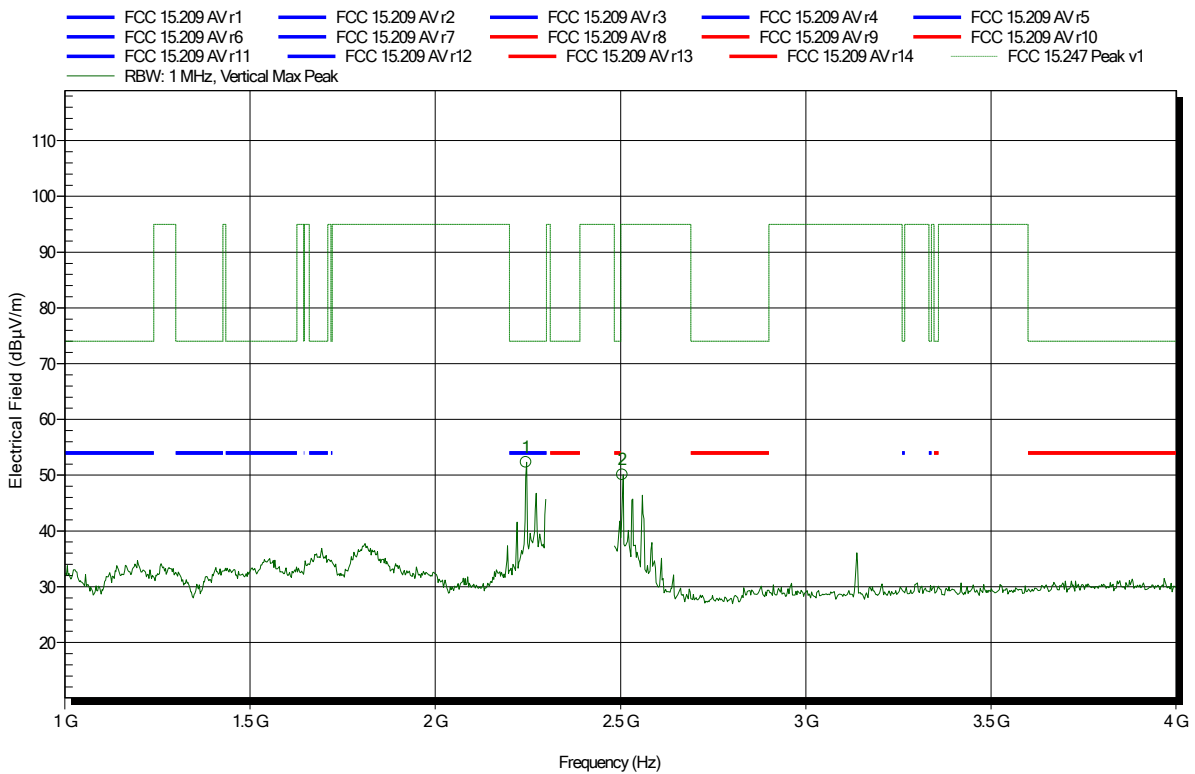
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.2454 GHz	44.66 dBµV/m	74 dBµV/m	-29.34 dB	Pass
2.5563 GHz	40.37 dBµV/m	95 dBµV/m	-54.63 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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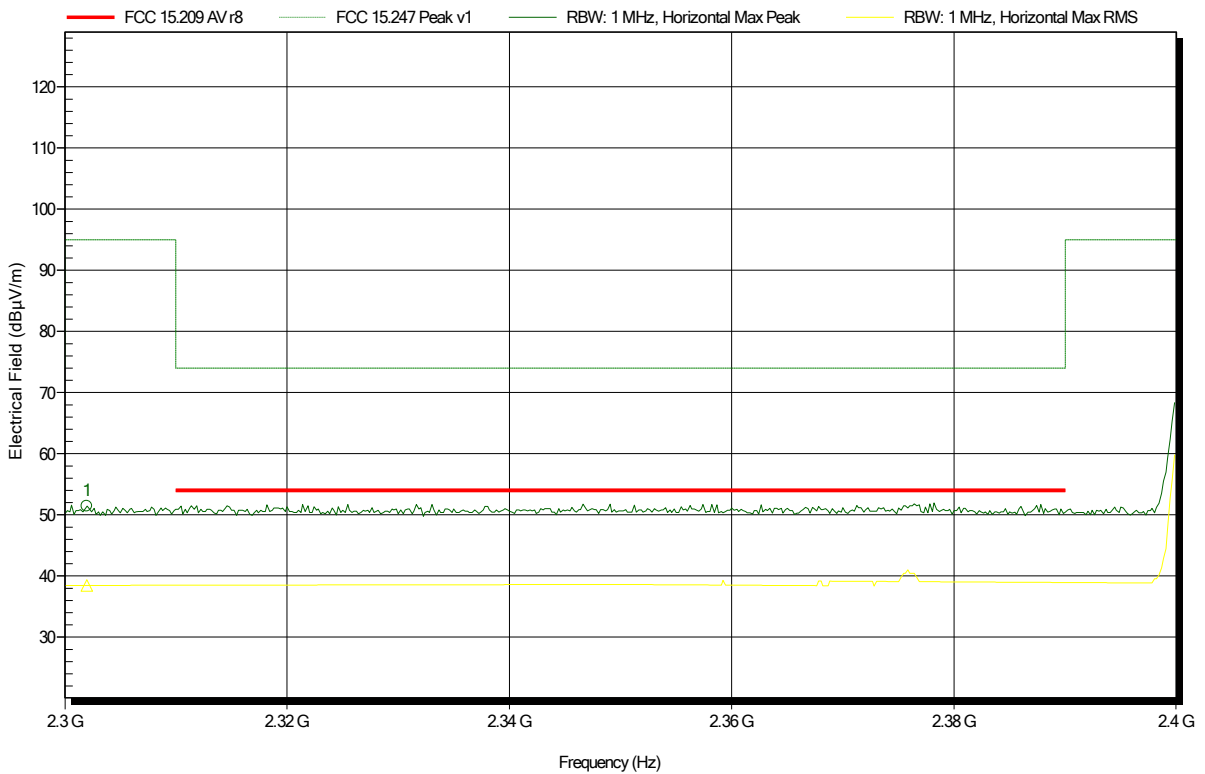
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.2454 GHz	52.32 dBµV/m	74 dBµV/m	-21.68 dB	Pass
2.5047 GHz	50.06 dBµV/m	95 dBµV/m	-44.94 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note: lower bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.302 GHz	51.43 dBµV/m	95 dBµV/m	-43.57 dB	Pass

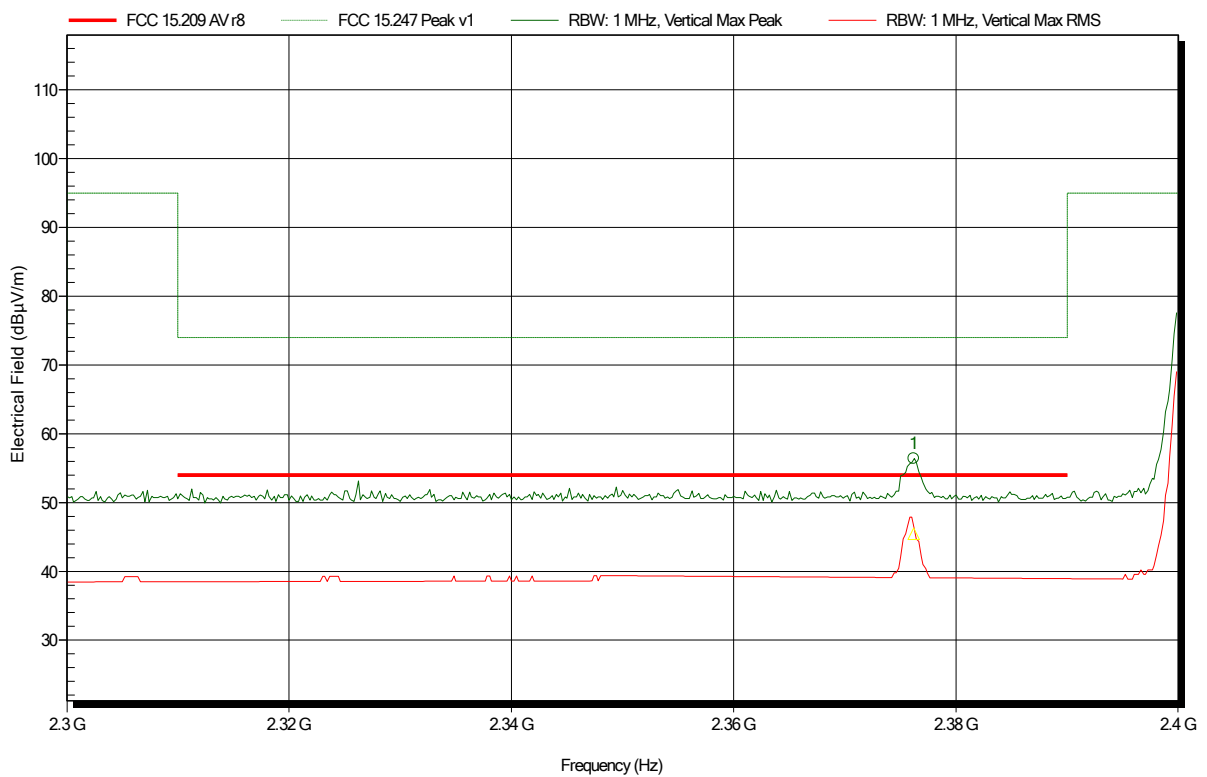
Frequency	RMS
2.302 GHz	38.46 dBµV/m

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note: lower bandedge

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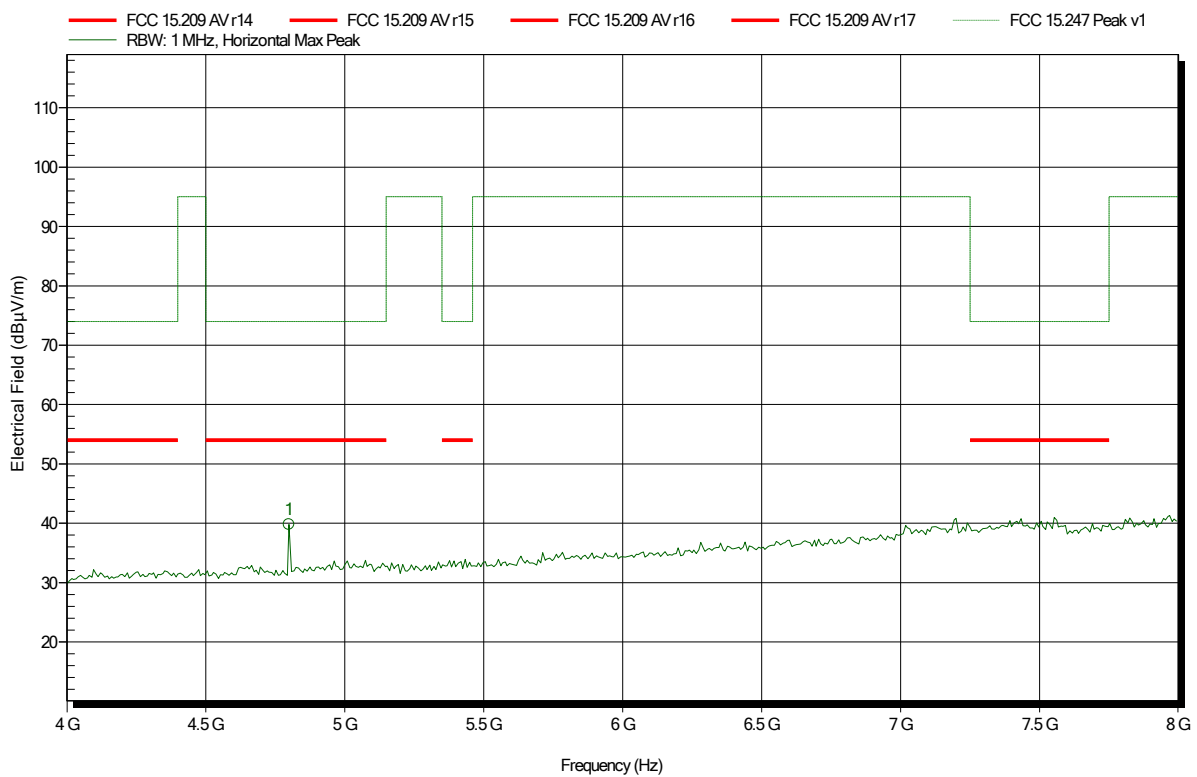
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.3762 GHz	56.39 dBµV/m	74 dBµV/m	-17.61 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.3762 GHz	45.46 dBµV/m	54 dBµV/m	-8.54 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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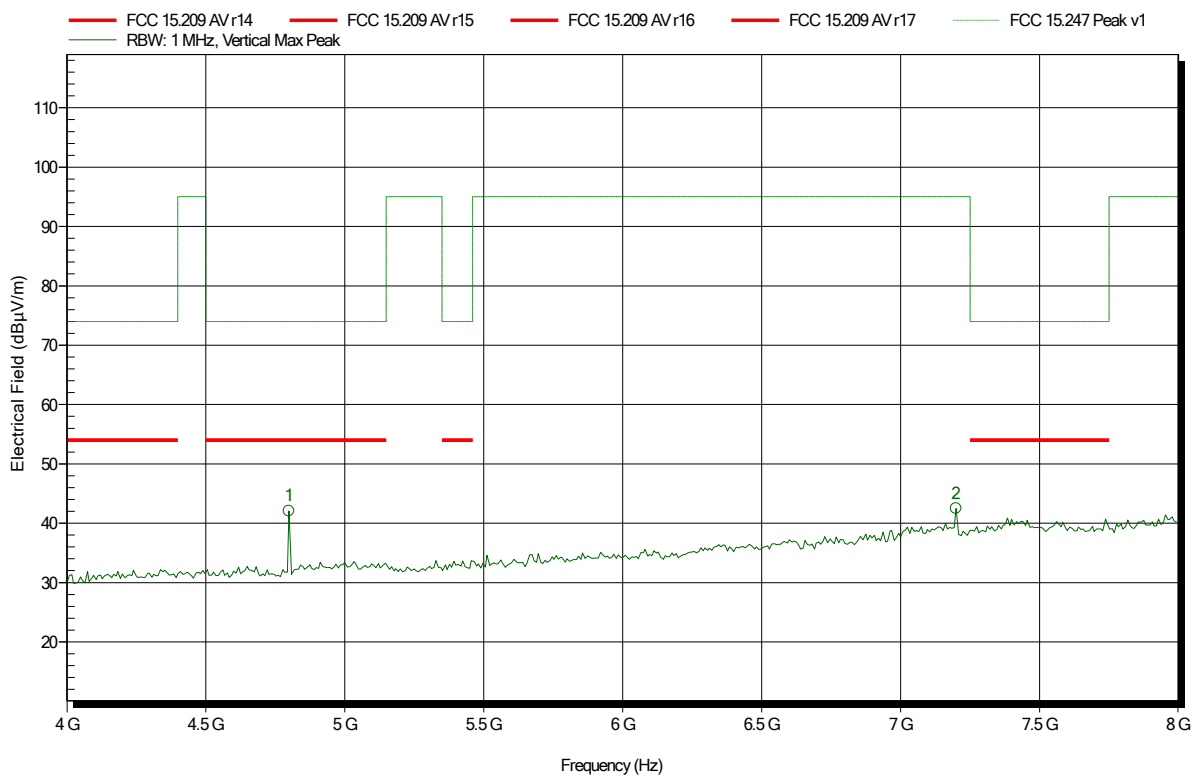
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.8 GHz	39.8 dBµV/m	74 dBµV/m	-34.2 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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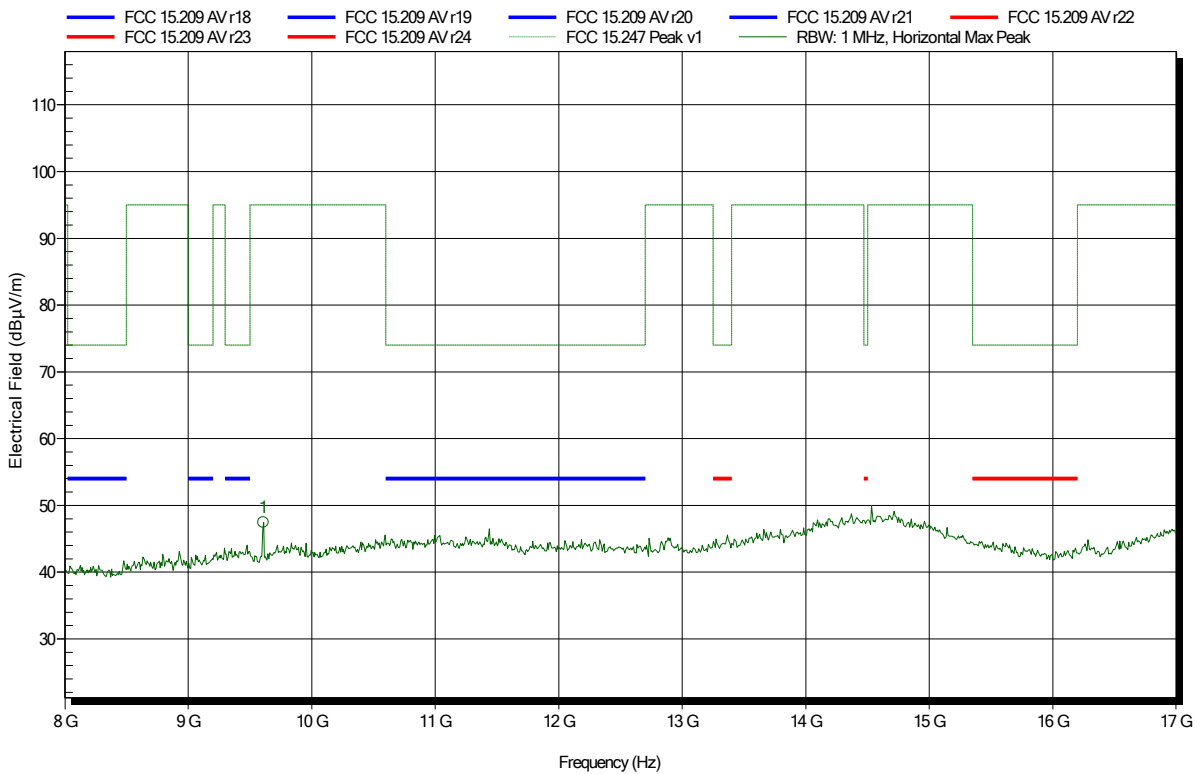
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.8 GHz	42.03 dBµV/m	74 dBµV/m	-31.97 dB	Pass
7.2 GHz	42.48 dBµV/m	95 dBµV/m	-52.52 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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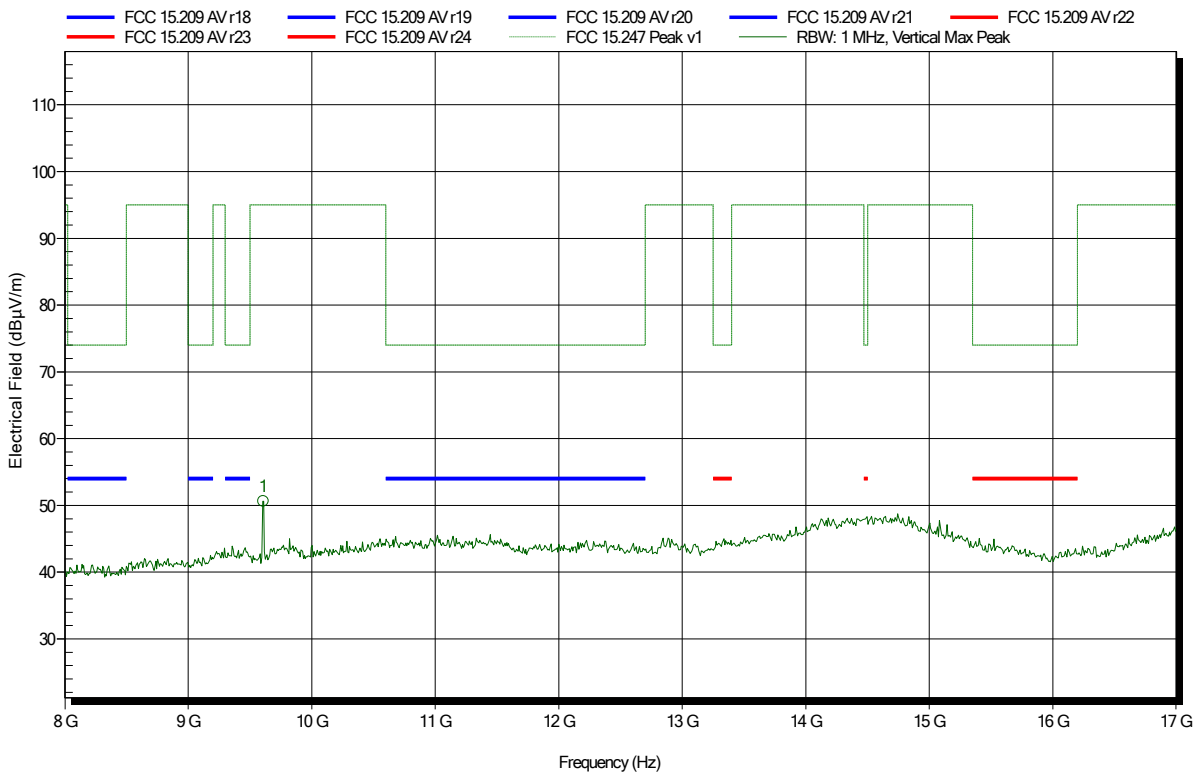
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
9.608 GHz	47.43 dBµV/m	95 dBµV/m	-47.57 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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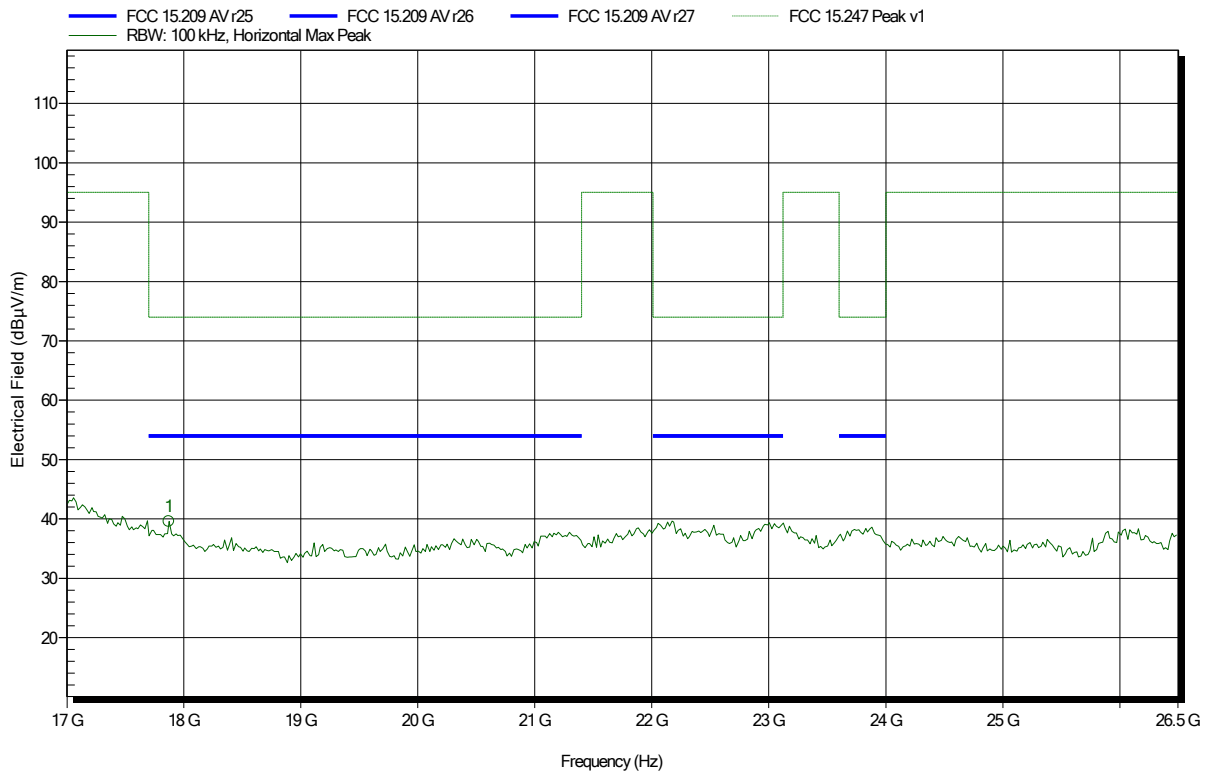
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
9.608 GHz	50.6 dBµV/m	95 dBµV/m	-44.4 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Amplifier Research AT 4560 (old name) / ATH18G40 (new name),
 Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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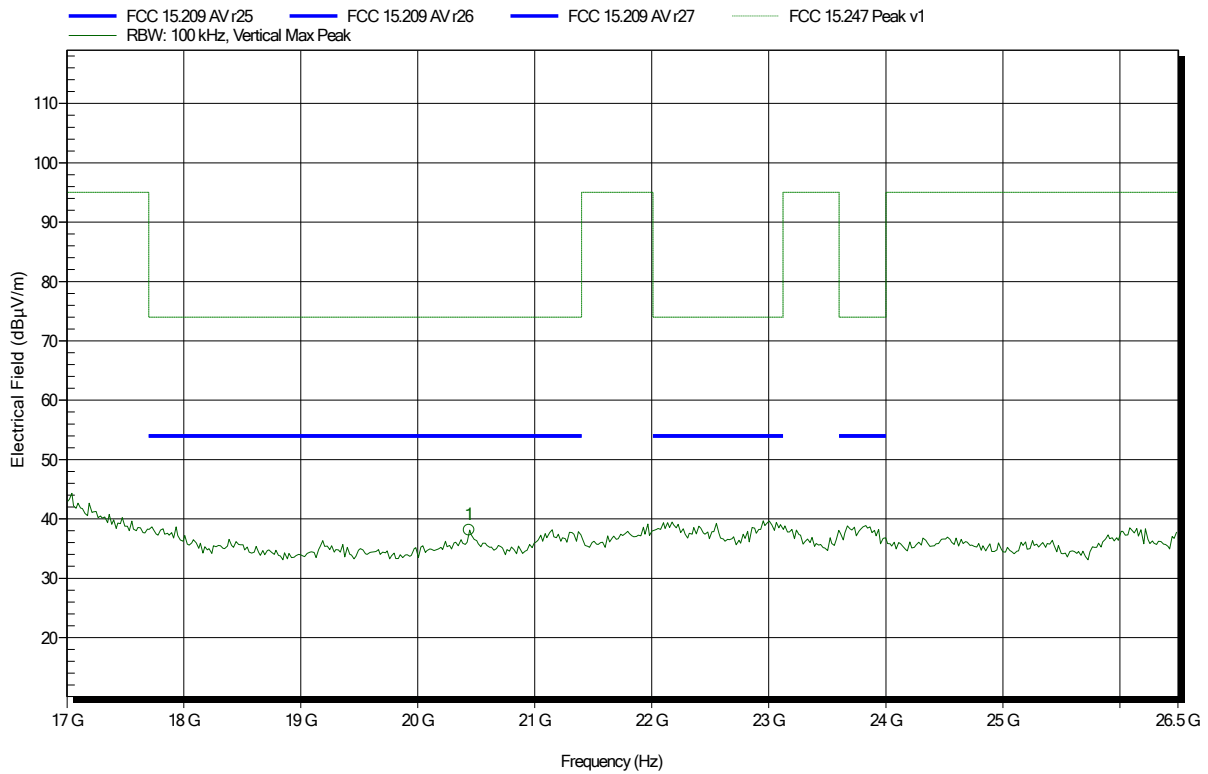
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
17.874 GHz	39.59 dBµV/m	74 dBµV/m	-34.41 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Amplifier Research AT 4560 (old name) / ATH18G40 (new name),
 Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2402 MHz
 Test Date: 2017-10-20
 Note:

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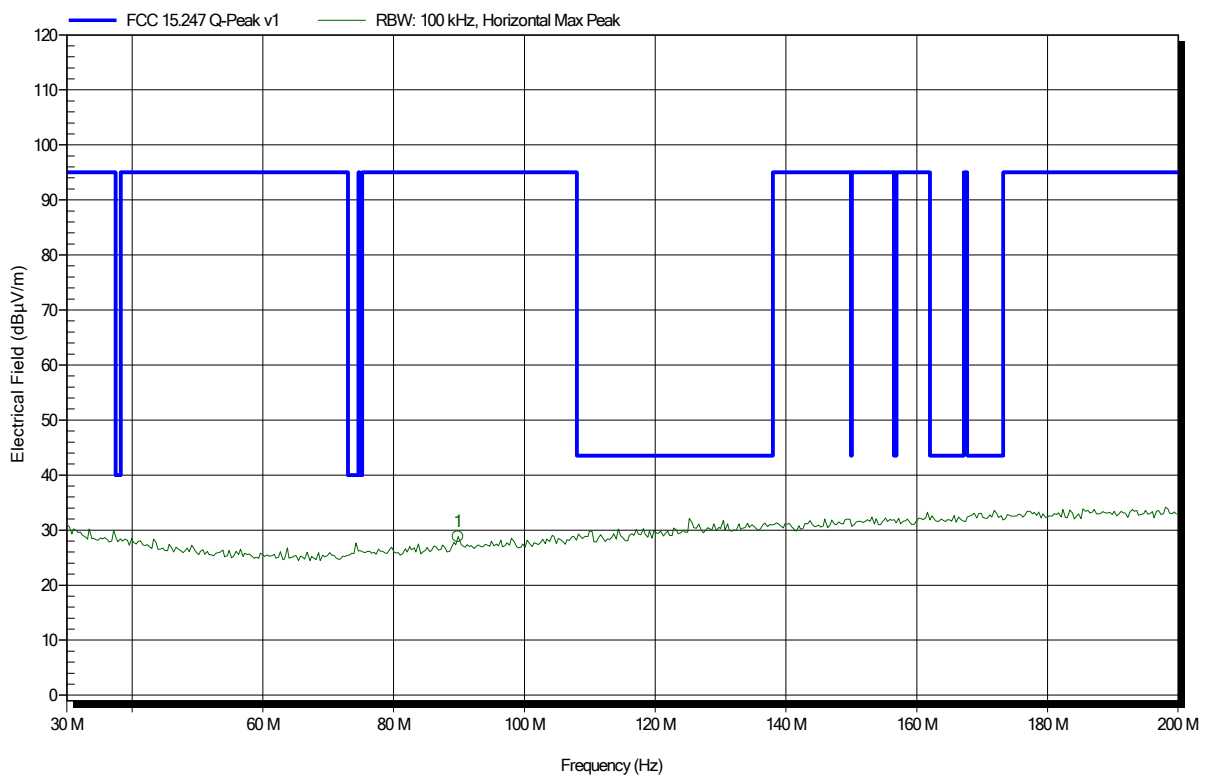
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
20.439 GHz	38.14 dBµV/m	74 dBµV/m	-35.86 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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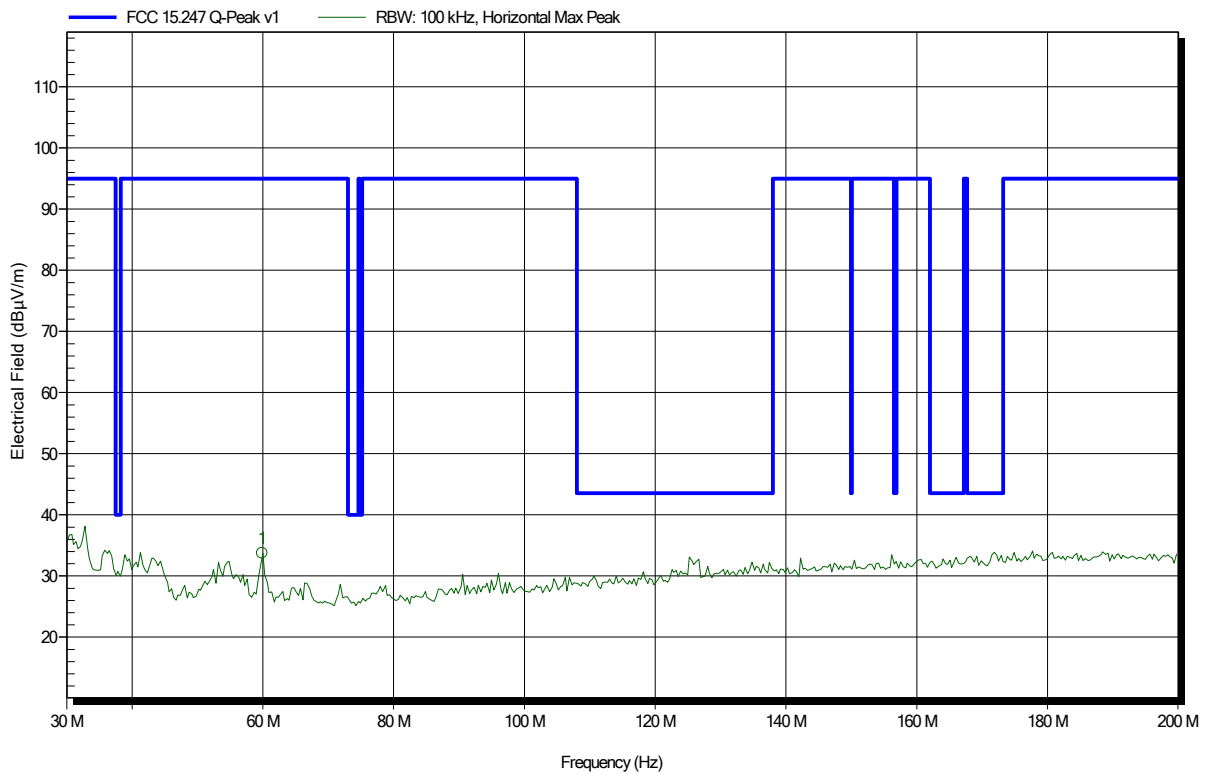
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
89.84 MHz	28.79 dBµV/m	95 dBµV/m	-66.21 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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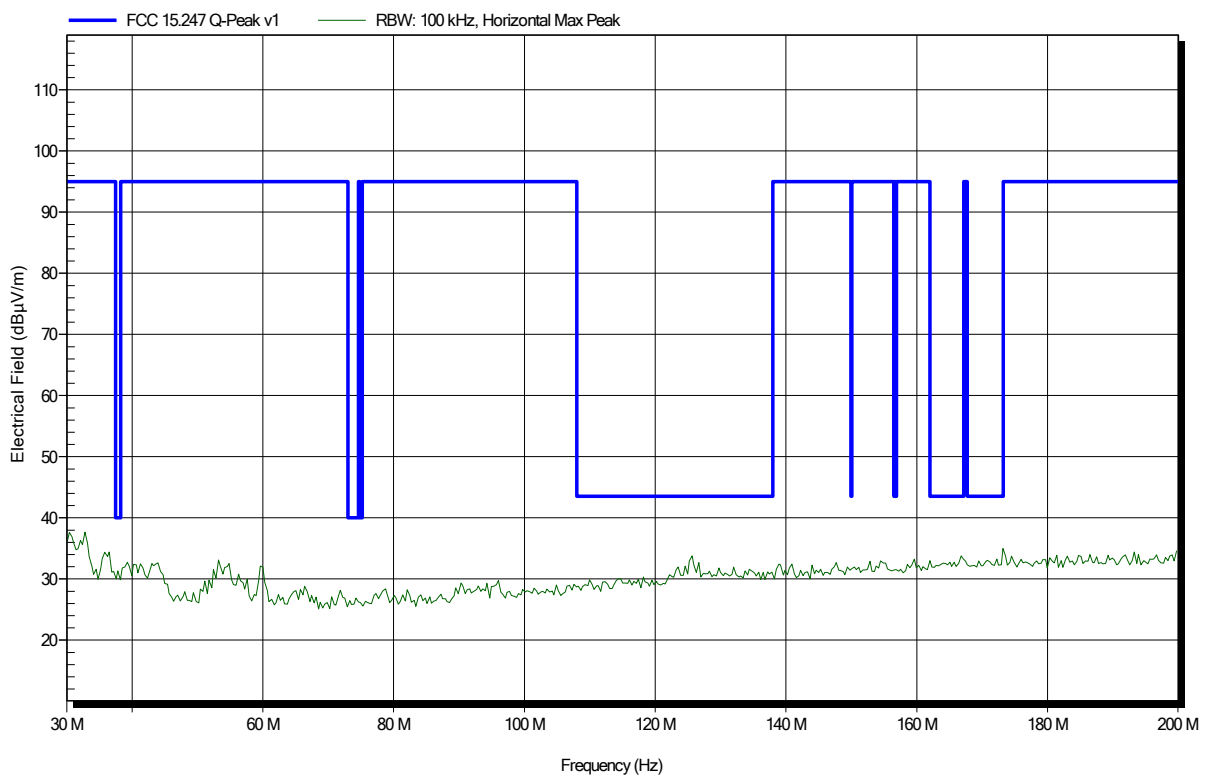
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
59.92 MHz	33.72 dBµV/m	95 dBµV/m	-61.28 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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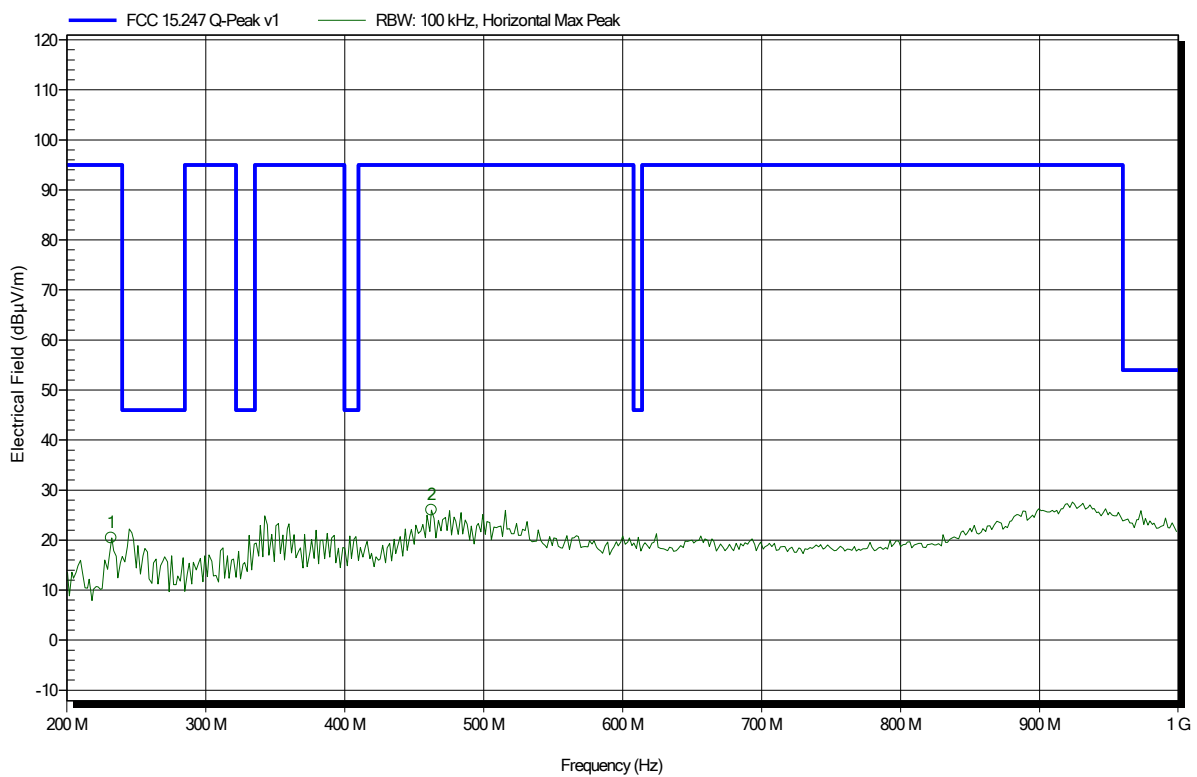


Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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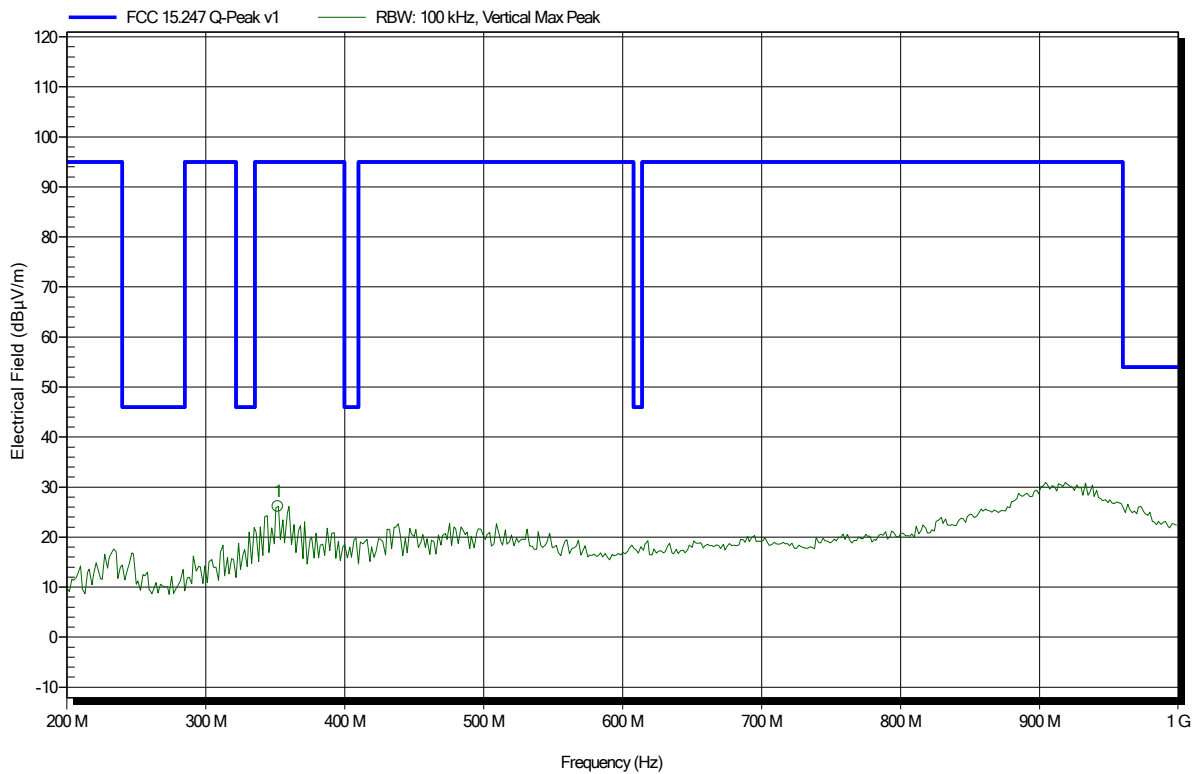
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
232 MHz	20.43 dBµV/m	95 dBµV/m	-74.57 dB	Pass
462.4 MHz	25.97 dBµV/m	95 dBµV/m	-69.03 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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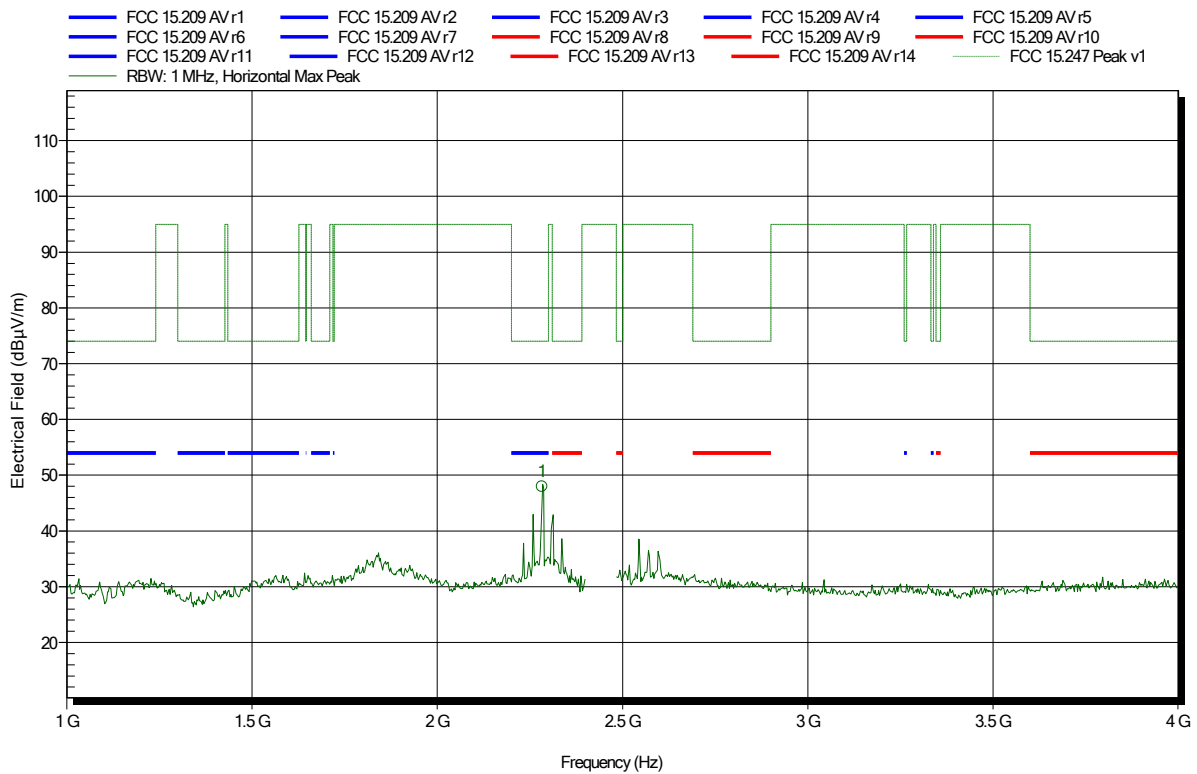
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
352 MHz	26.12 dBµV/m	95 dBµV/m	-68.88 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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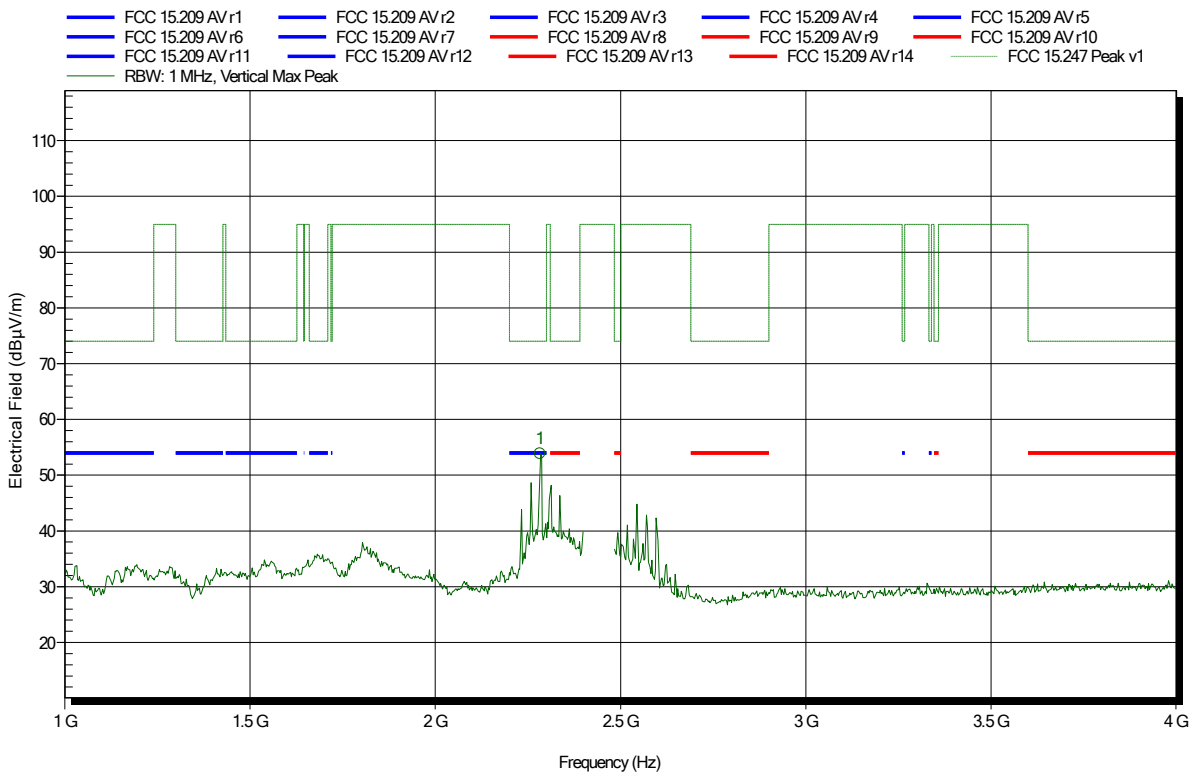
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.2824 GHz	47.97 dBµV/m	74 dBµV/m	-26.03 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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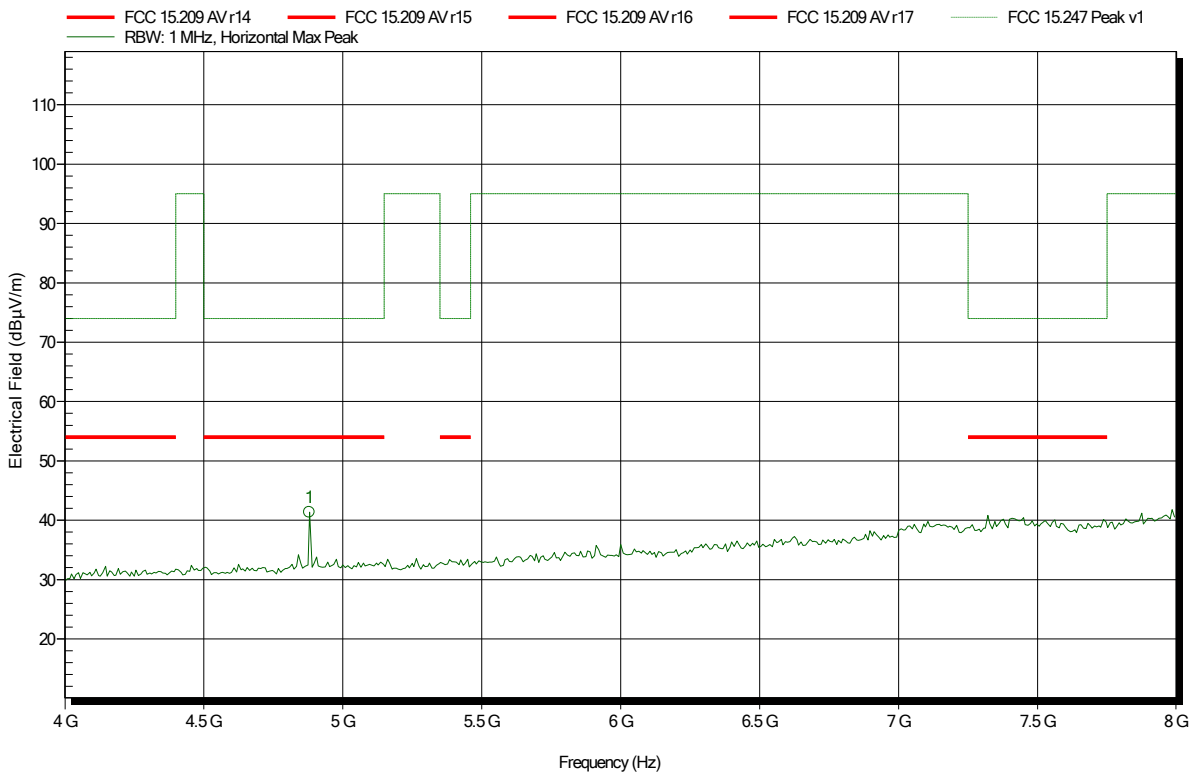
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.2824 GHz	53.87 dBµV/m	74 dBµV/m	-20.13 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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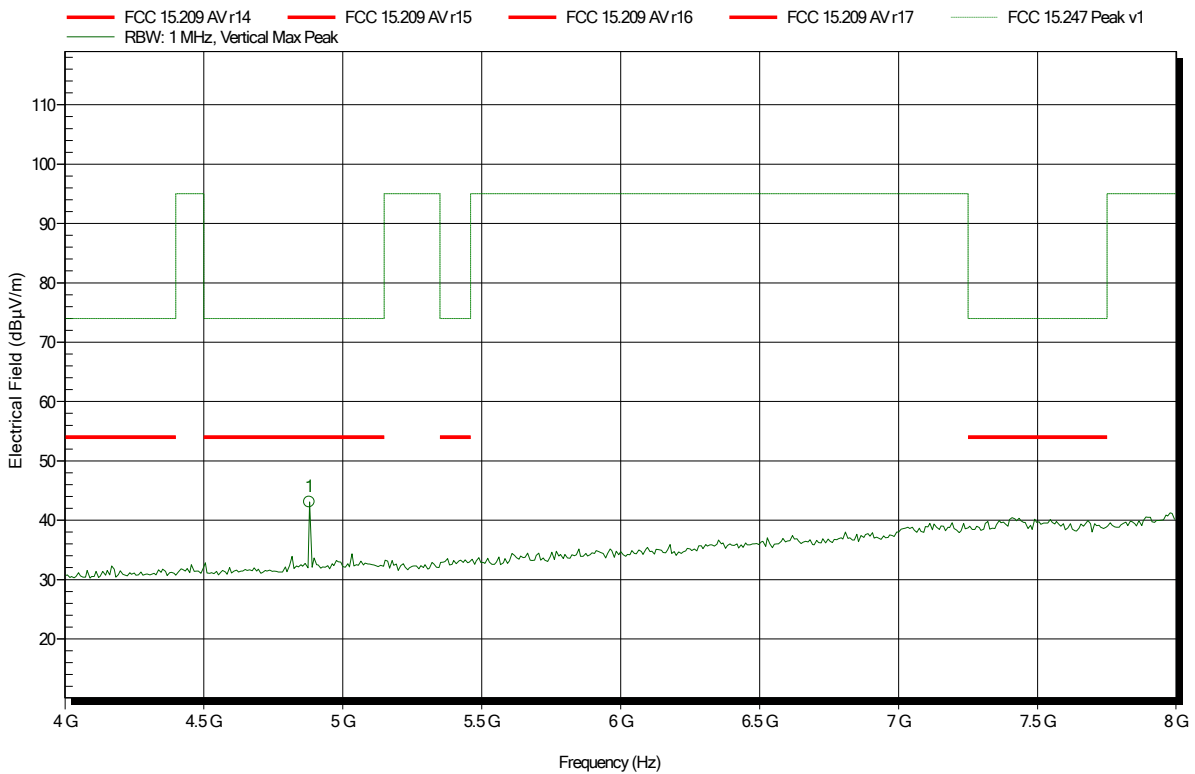
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.88 GHz	41.38 dBµV/m	74 dBµV/m	-32.62 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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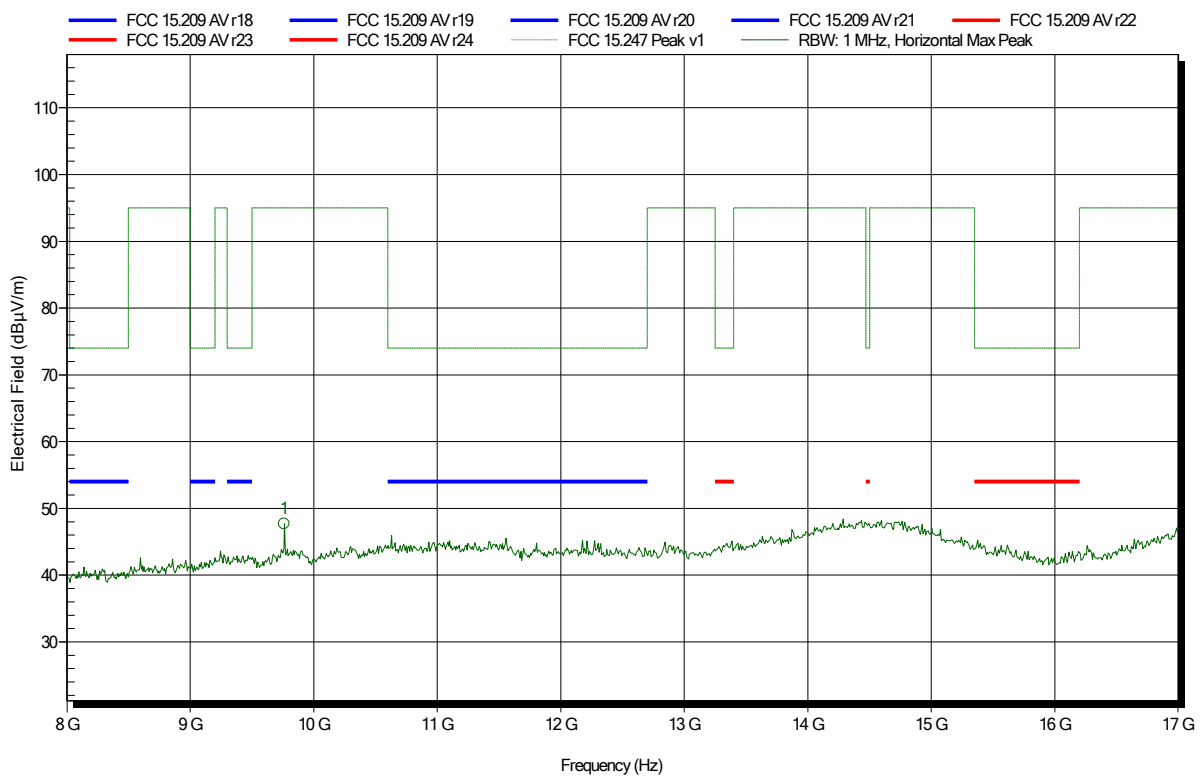
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.88 GHz	43.07 dBµV/m	74 dBµV/m	-30.93 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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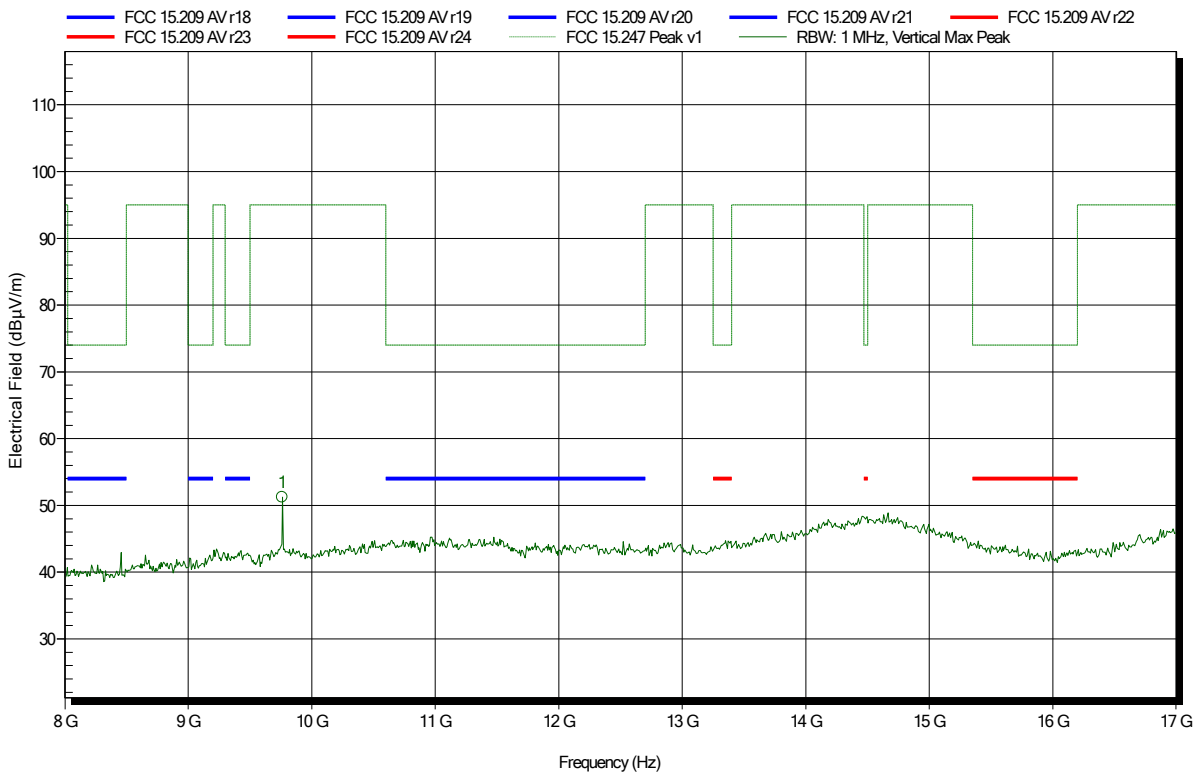
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
9.76 GHz	47.69 dBµV/m	95 dBµV/m	-47.31 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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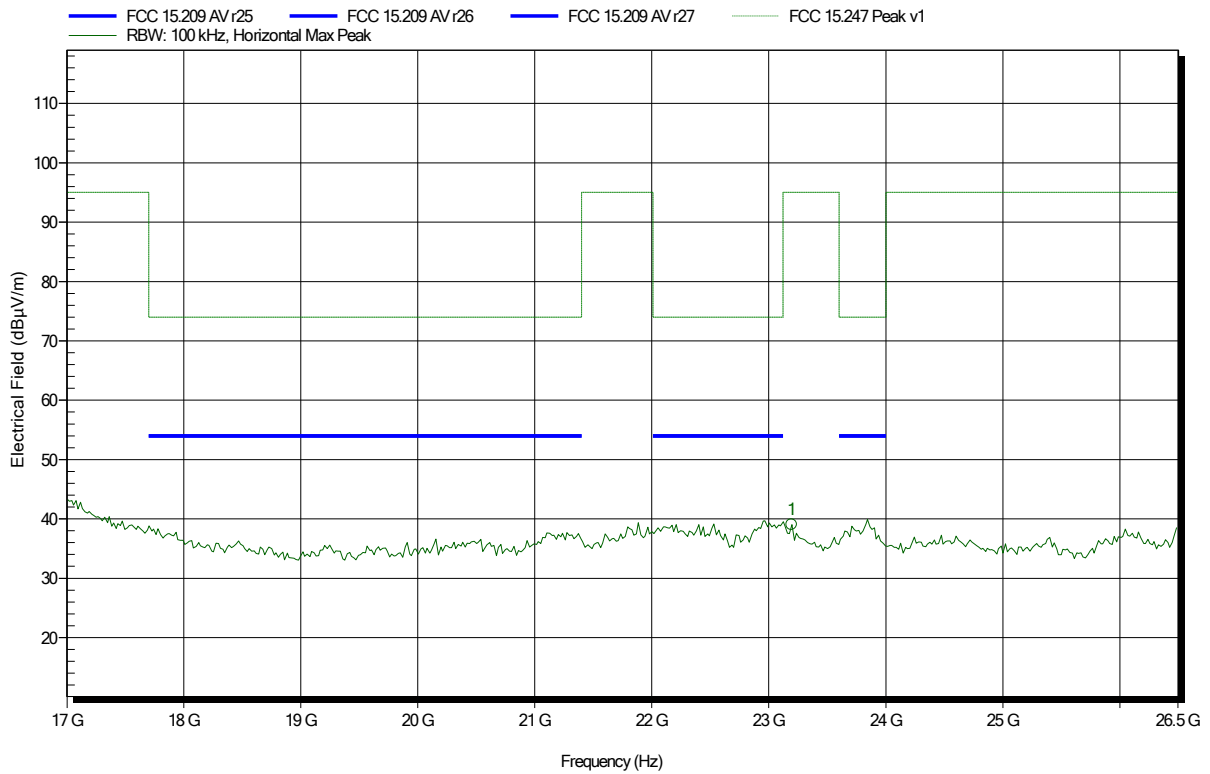
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
9.76 GHz	51.22 dBµV/m	95 dBµV/m	-43.78 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Amplifier Research AT 4560 (old name) / ATH18G40 (new name),
 Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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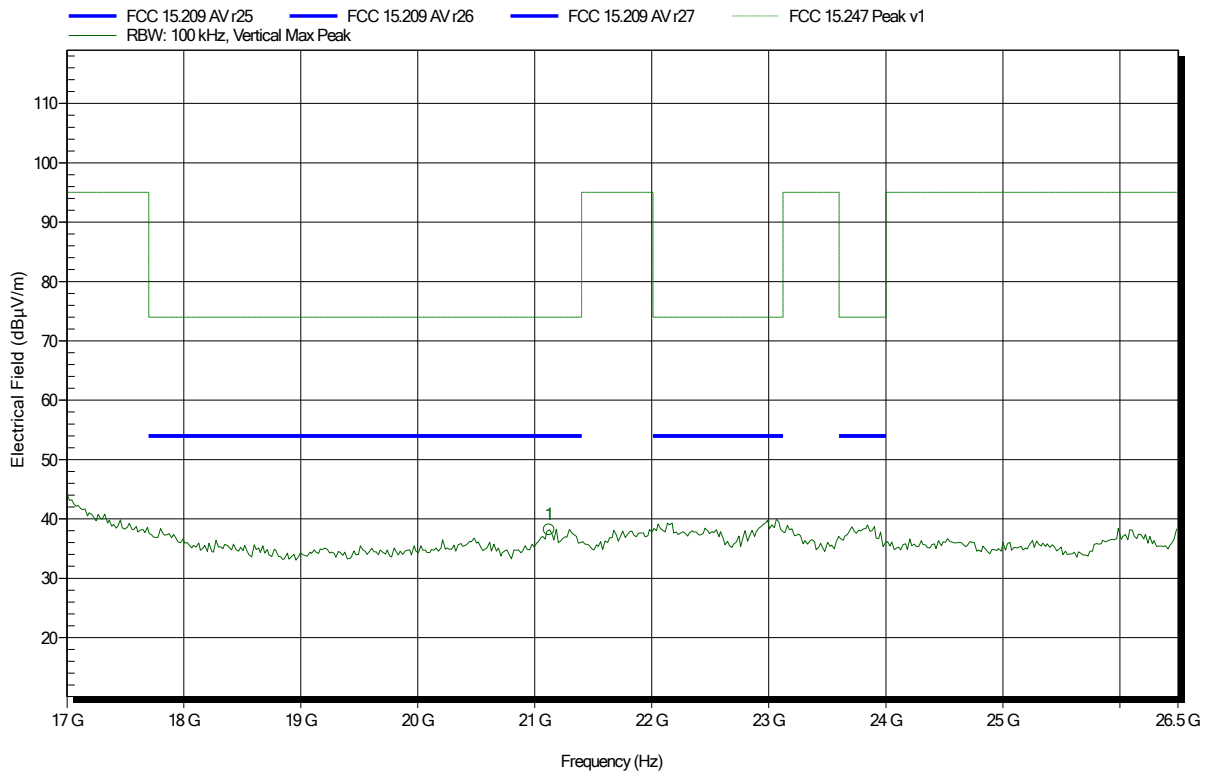
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
23.194 GHz	39.05 dBµV/m	95 dBµV/m	-55.95 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Amplifier Research AT 4560 (old name) / ATH18G40 (new name),
 Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2441 MHz
 Test Date: 2017-10-20
 Note:

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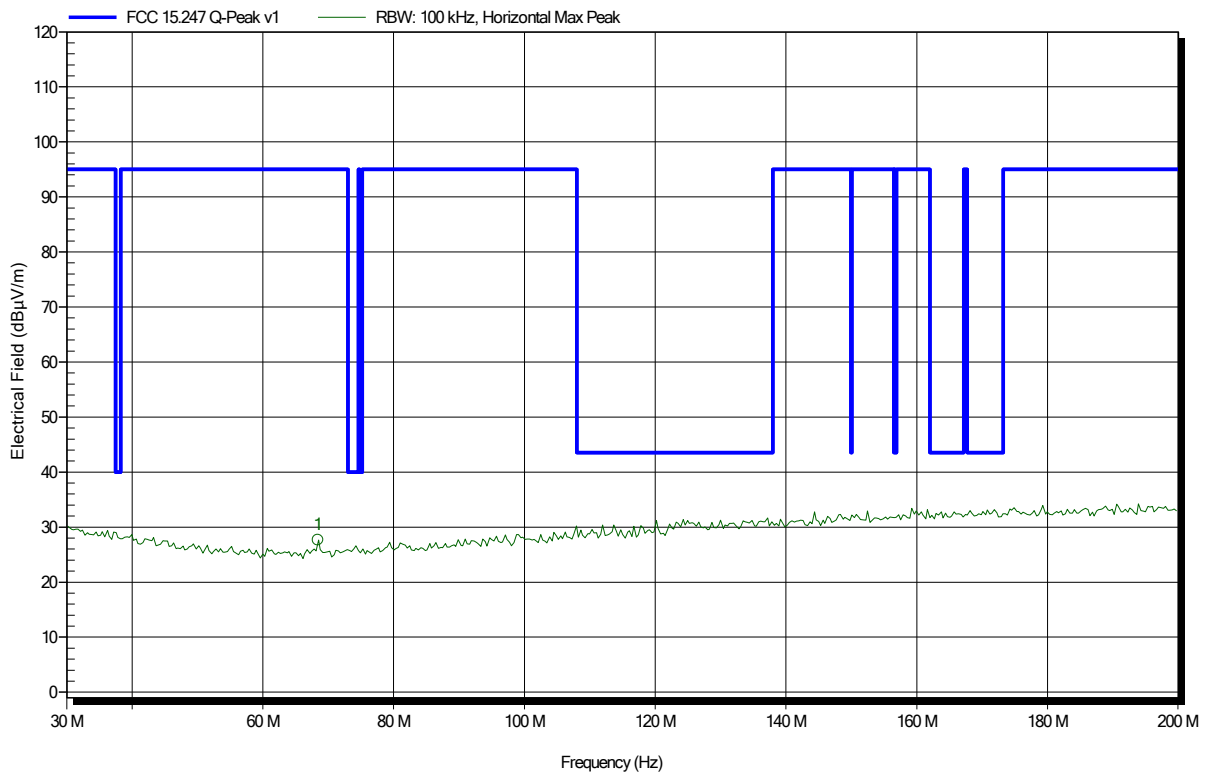


Frequency	Peak	Peak Limit	Peak Difference	Peak Status
21.123 GHz	38.2 dBµV/m	74 dBµV/m	-35.8 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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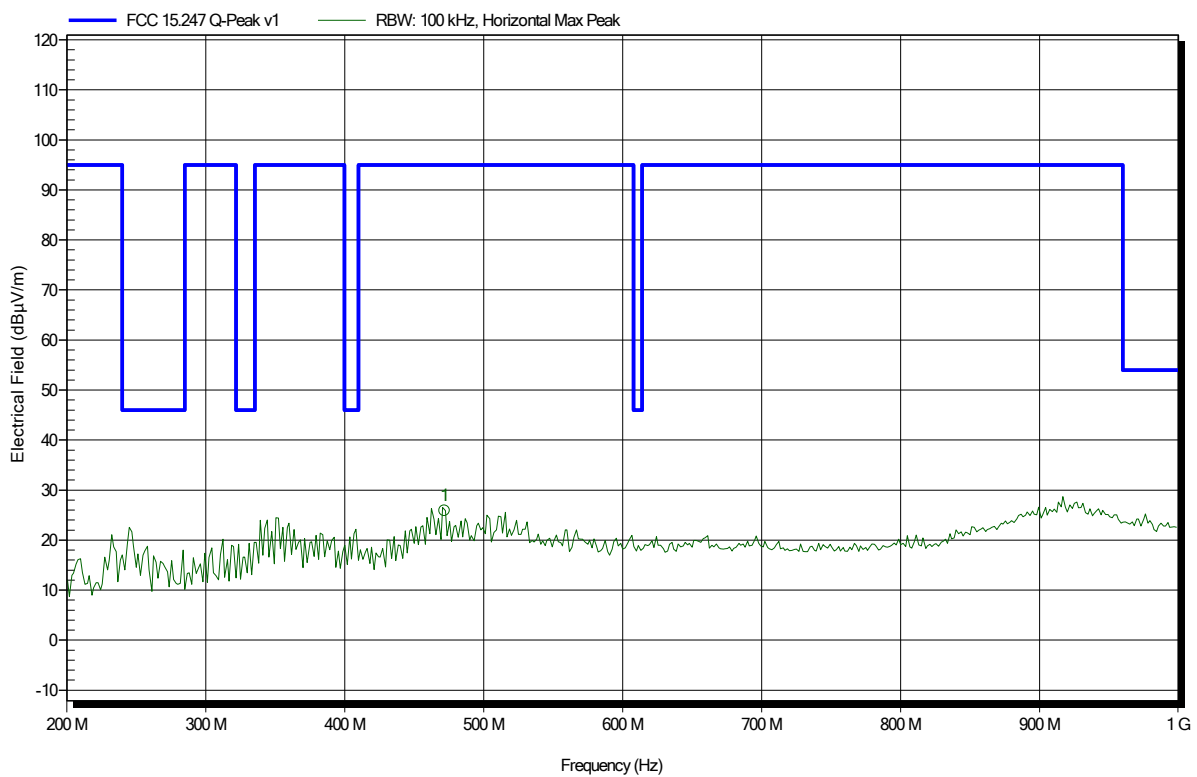
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
68.42 MHz	27.66 dBµV/m	95 dBµV/m	-67.34 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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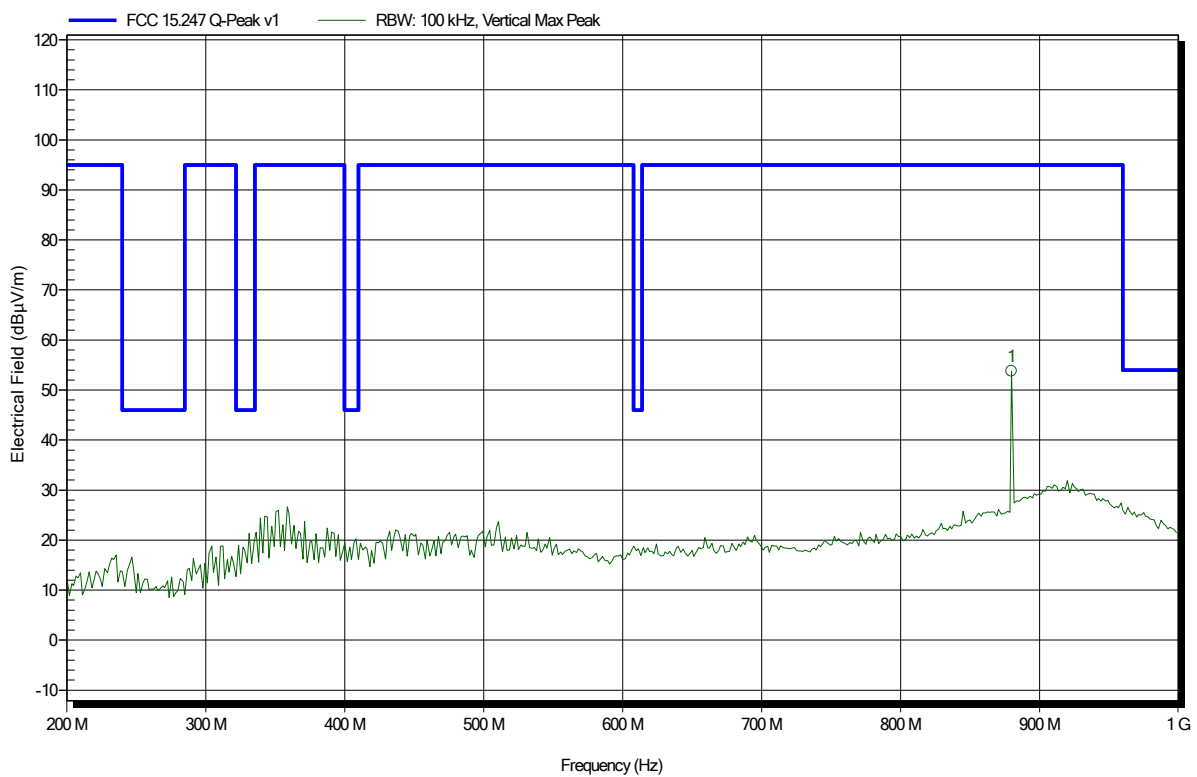
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
472 MHz	25.89 dBµV/m	95 dBµV/m	-69.11 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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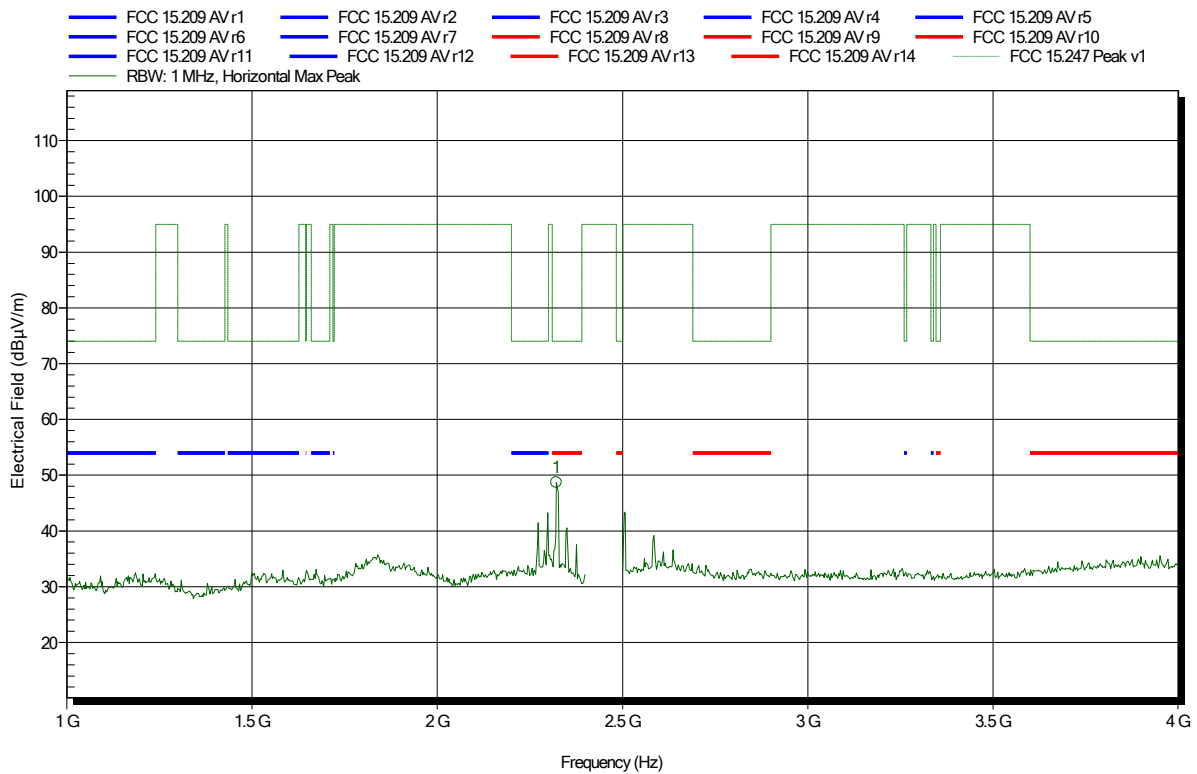
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
880 MHz	53.76 dBµV/m	95 dBµV/m	-41.24 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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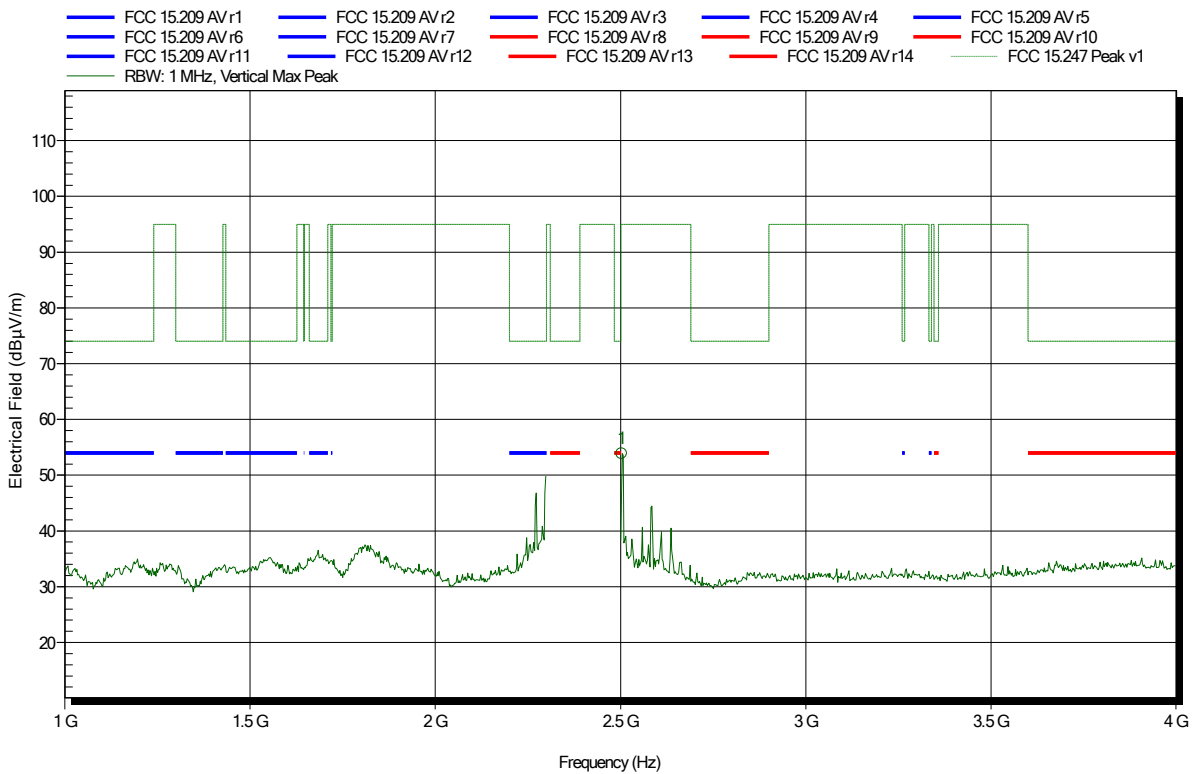
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.322 GHz	48.72 dBµV/m	74 dBµV/m	-25.28 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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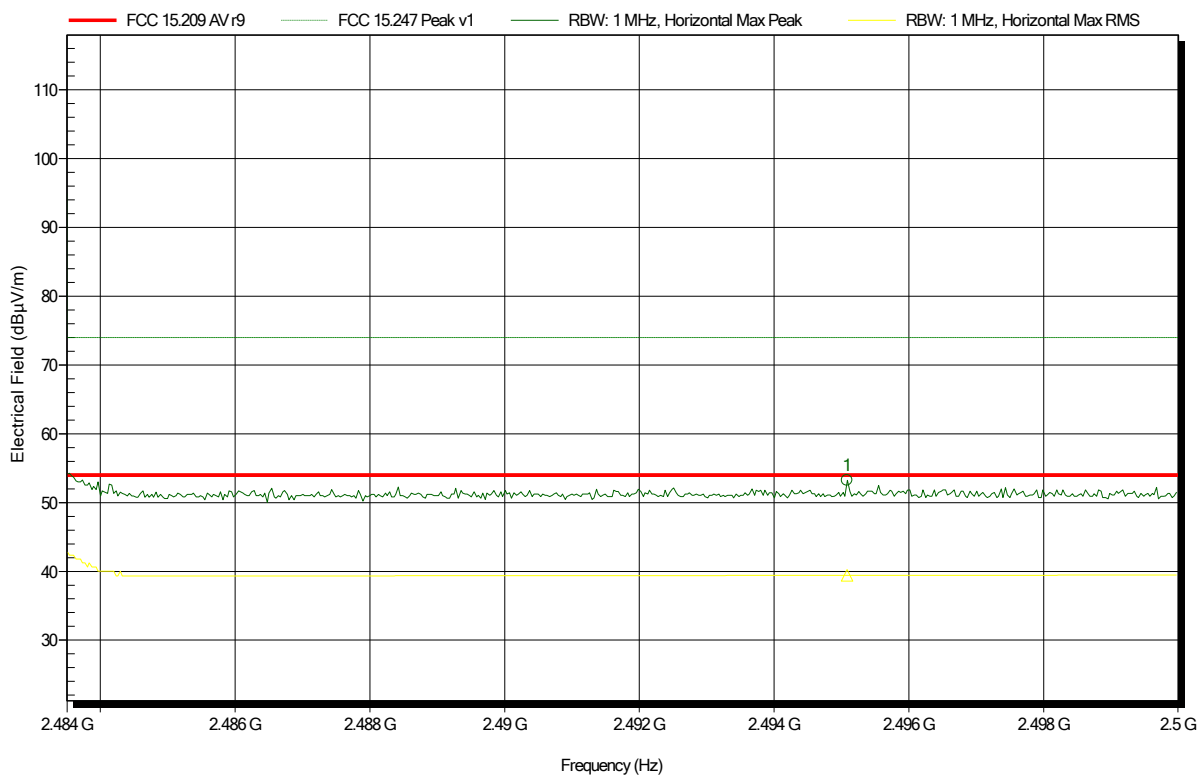
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.503 GHz	53.85 dBµV/m	95 dBµV/m	-41.15 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note: upper bandedge

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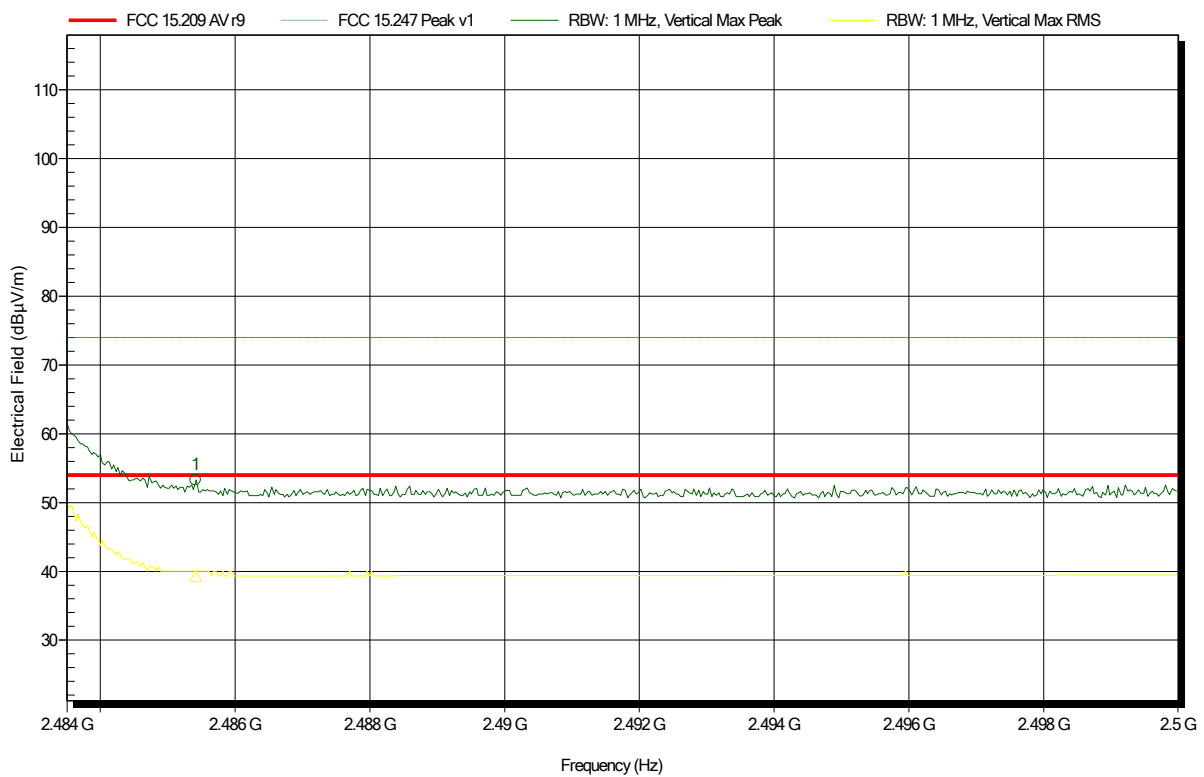
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4951 GHz	53.25 dBµV/m	74 dBµV/m	-20.75 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4951 GHz	39.41 dBµV/m	54 dBµV/m	-14.59 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note: upper bandedge

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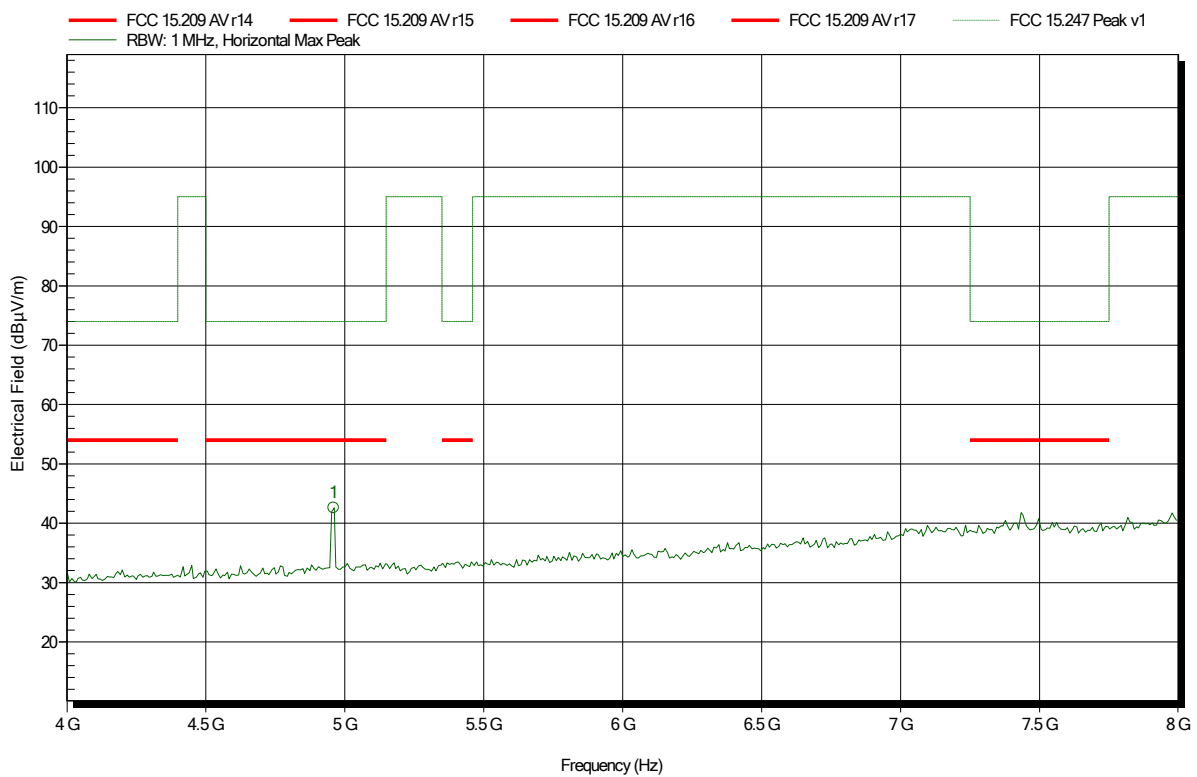
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4854 GHz	53.3 dBµV/m	74 dBµV/m	-20.7 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4854 GHz	39.32 dBµV/m	54 dBµV/m	-14.68 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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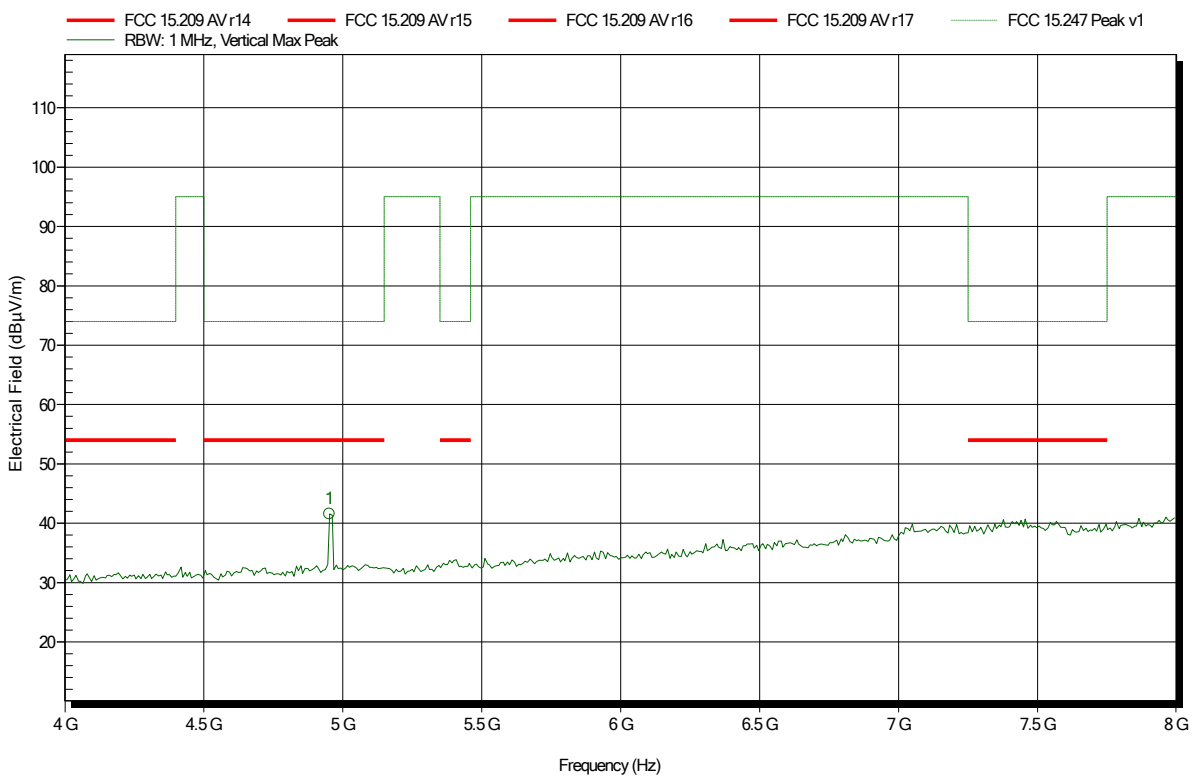
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.96 GHz	42.57 dBµV/m	74 dBµV/m	-31.43 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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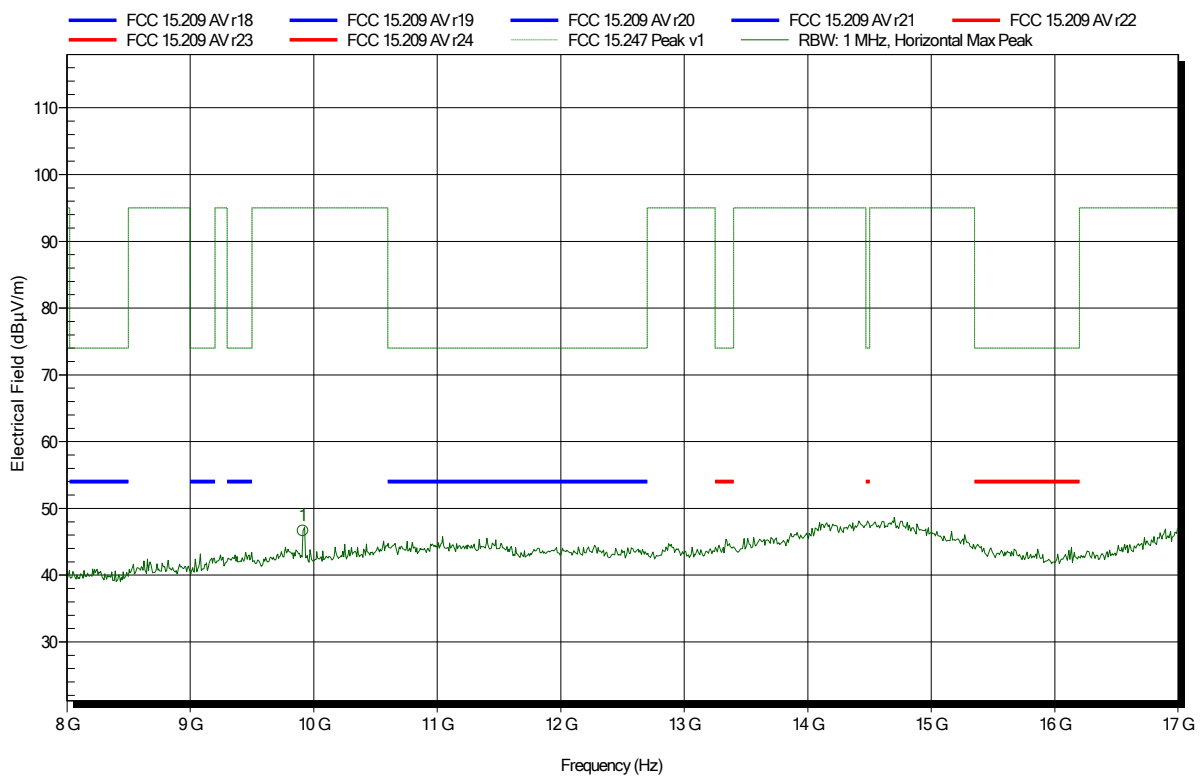


Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.952 GHz	41.58 dBµV/m	74 dBµV/m	-32.42 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878
 Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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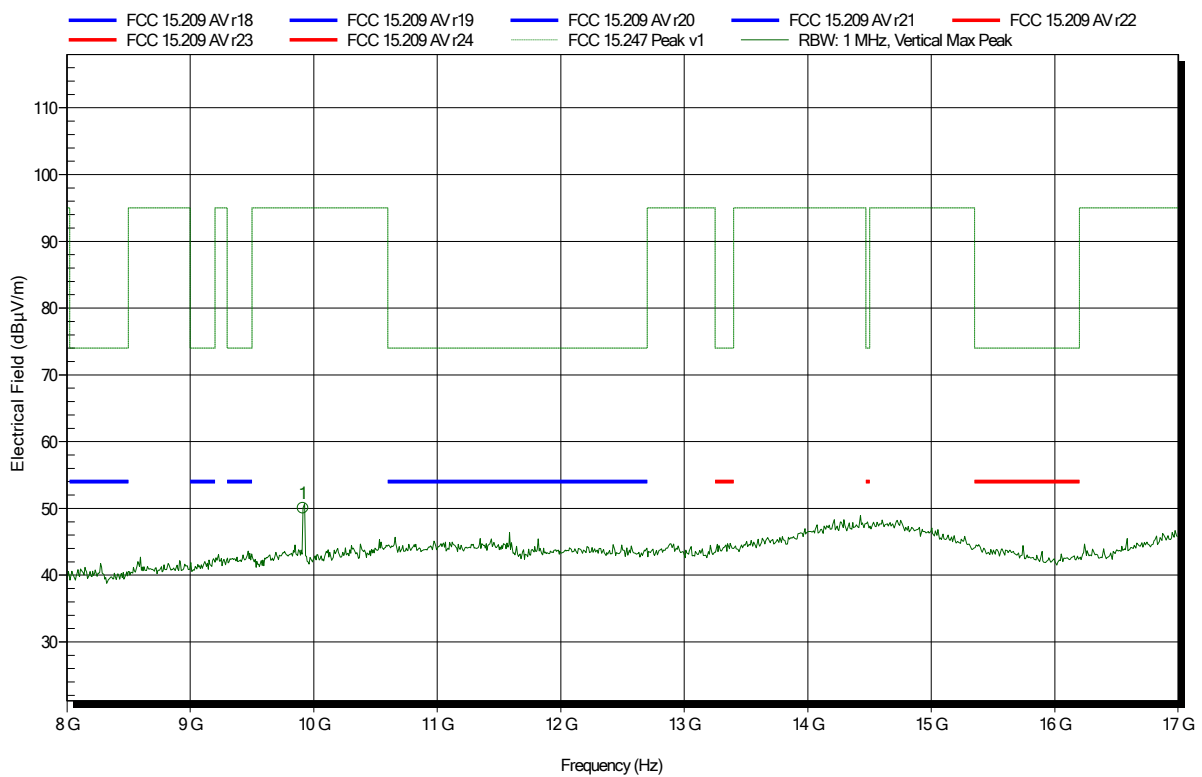
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
9.912 GHz	46.64 dBµV/m	95 dBµV/m	-48.36 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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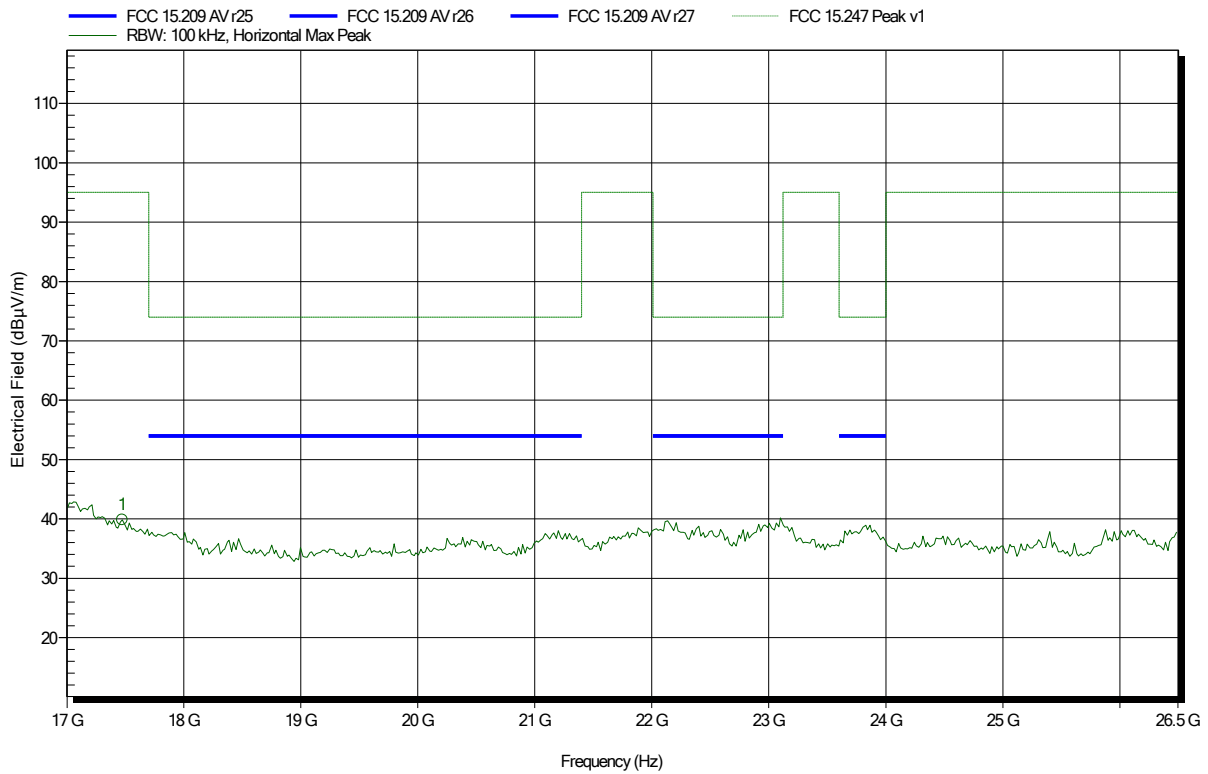
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
9.912 GHz	50.06 dBµV/m	95 dBµV/m	-44.94 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Amplifier Research AT 4560 (old name) / ATH18G40 (new name),
 Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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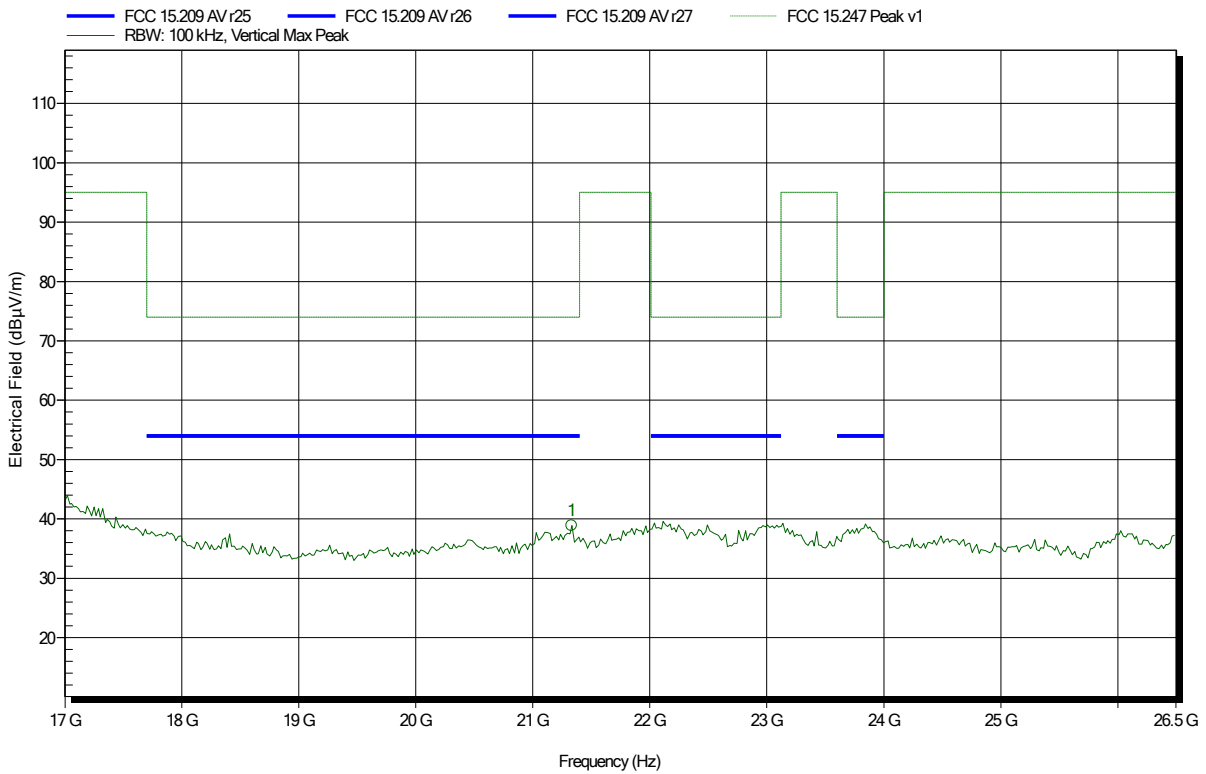
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
17.475 GHz	39.86 dBµV/m	95 dBµV/m	-55.14 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.8°C, Vnom: 5.0 VDC
 Antenna: Amplifier Research AT 4560 (old name) / ATH18G40 (new name), Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT (customer label BT1); DH5; 2480 MHz
 Test Date: 2017-10-20
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
21.332 GHz	38.86 dBµV/m	74 dBµV/m	-35.14 dB	Pass

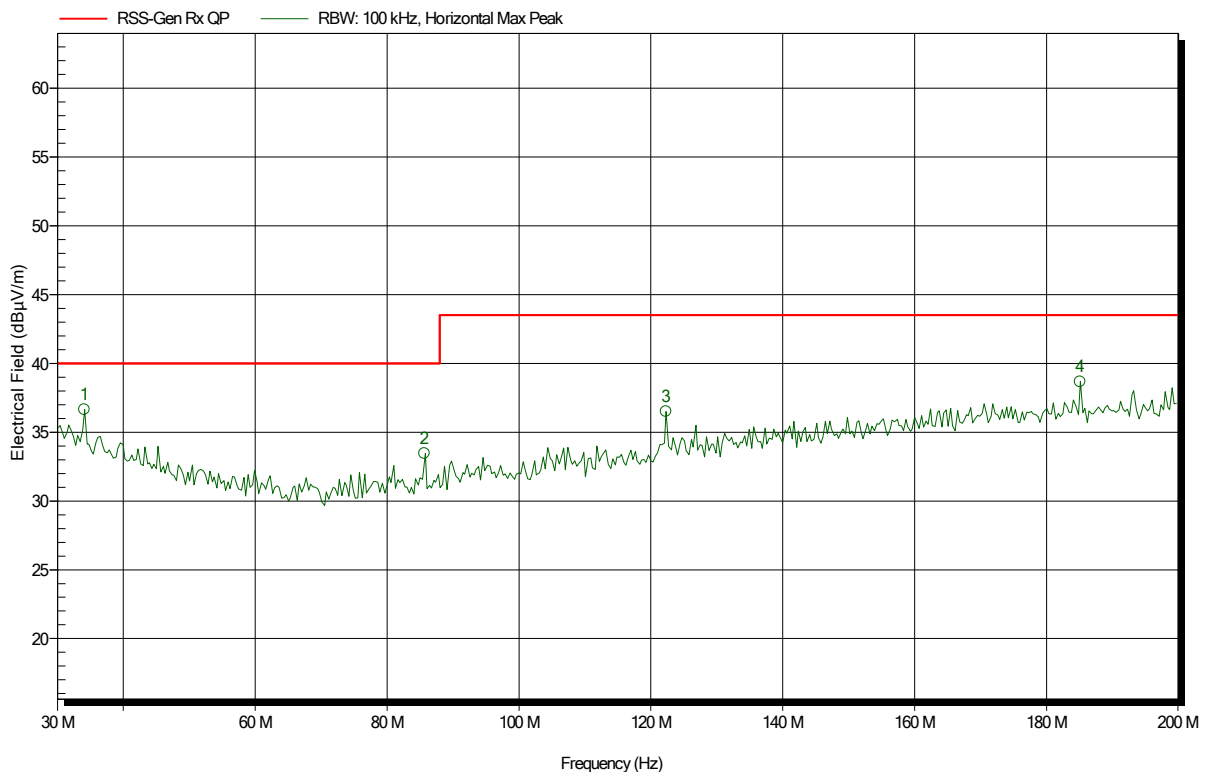
ANNEX B Receiver spurious emissions

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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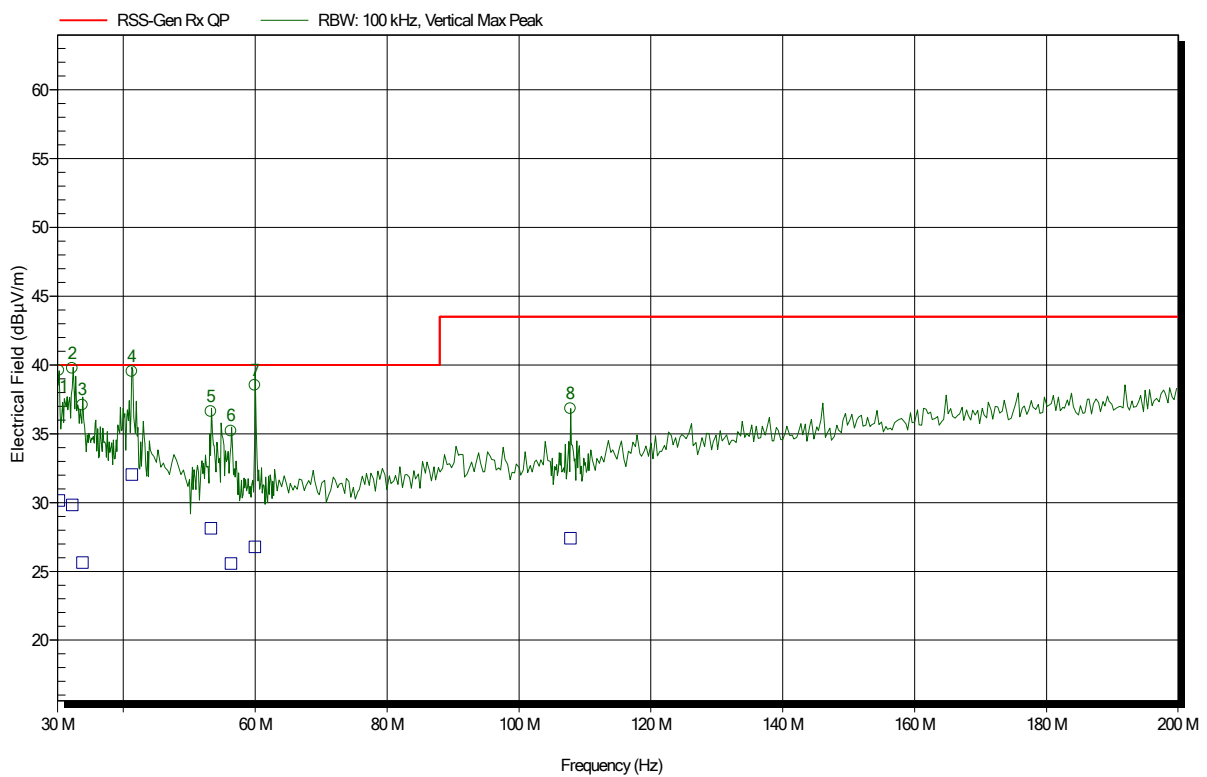
Frequency	Peak	Peak Limit	Peak Difference	Status
122.295 MHz	36.51 dBµV/m	43.5 dBµV/m	-6.99 dB	Pass
185.07 MHz	38.68 dBµV/m	43.5 dBµV/m	-4.82 dB	Pass
34.072 MHz	36.65 dBµV/m	40 dBµV/m	-3.35 dB	Pass
85.649 MHz	33.45 dBµV/m	40 dBµV/m	-6.55 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Status
107.81 MHz	36.84 dBµV/m	43.5 dBµV/m	-6.66 dB	Pass
30.197 MHz	39.6 dBµV/m	40 dBµV/m	-0.4 dB	Pass
32.26 MHz	39.77 dBµV/m	40 dBµV/m	-0.23 dB	Pass
33.785 MHz	37.1 dBµV/m	40 dBµV/m	-2.9 dB	Pass
41.284 MHz	39.54 dBµV/m	40 dBµV/m	-0.46 dB	Pass
53.289 MHz	36.61 dBµV/m	40 dBµV/m	-3.39 dB	Pass
56.329 MHz	35.22 dBµV/m	40 dBµV/m	-4.78 dB	Pass
59.928 MHz	38.53 dBµV/m	40 dBµV/m	-1.47 dB	Pass

Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
107.81 MHz	27.4 dBµV/m	43.5 dBµV/m	-16.1 dB	Pass
30.197 MHz	30.16 dBµV/m	40 dBµV/m	-9.84 dB	Pass
32.26 MHz	29.83 dBµV/m	40 dBµV/m	-10.17 dB	Pass
33.785 MHz	25.65 dBµV/m	40 dBµV/m	-14.35 dB	Pass
41.284 MHz	32.04 dBµV/m	40 dBµV/m	-7.96 dB	Pass
53.289 MHz	28.12 dBµV/m	40 dBµV/m	-11.88 dB	Pass
56.329 MHz	25.57 dBµV/m	40 dBµV/m	-14.43 dB	Pass
59.928 MHz	26.79 dBµV/m	40 dBµV/m	-13.21 dB	Pass

Test Report No.: G0M-1709-6878-TFC247BT_BT1-V02

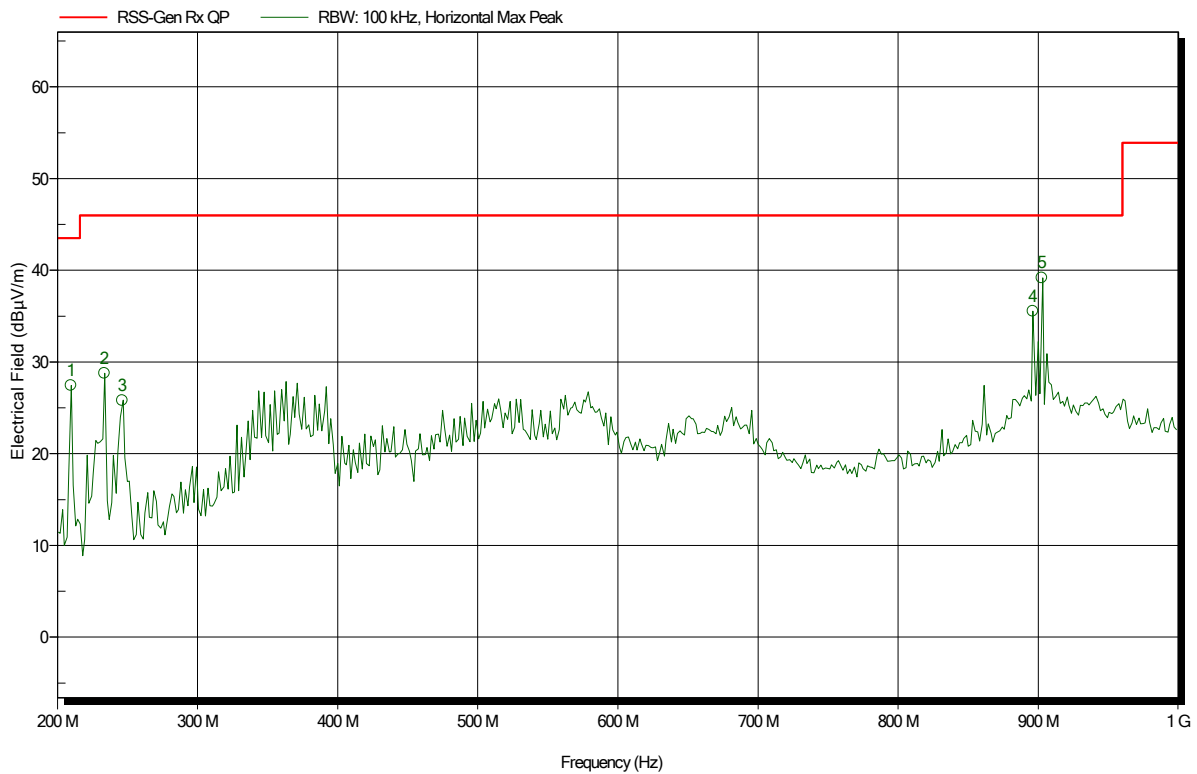
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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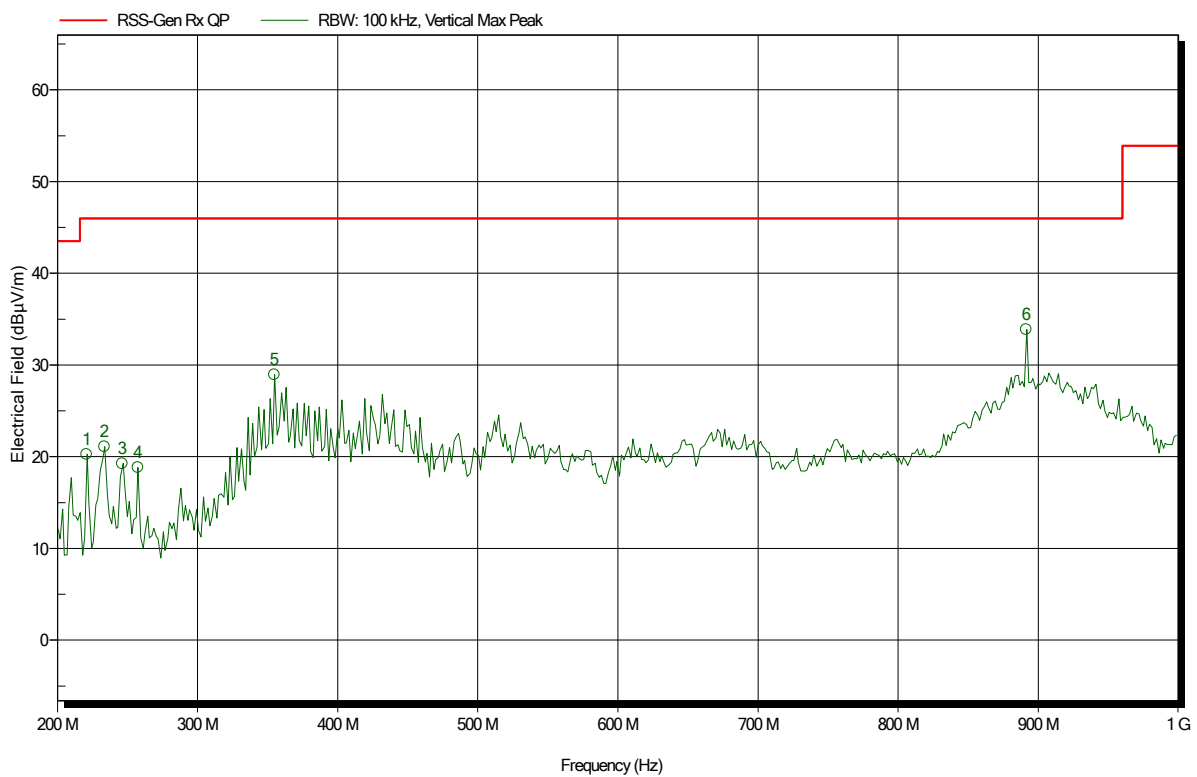
Frequency	Peak	Peak Limit	Peak Difference	Status
209.581 MHz	27.46 dBµV/m	43.5 dBµV/m	-16.04 dB	Pass
233.533 MHz	28.77 dBµV/m	46 dBµV/m	-17.23 dB	Pass
246.307 MHz	25.82 dBµV/m	46 dBµV/m	-20.18 dB	Pass
896.208 MHz	35.55 dBµV/m	46 dBµV/m	-10.45 dB	Pass
902.595 MHz	39.19 dBµV/m	46 dBµV/m	-6.81 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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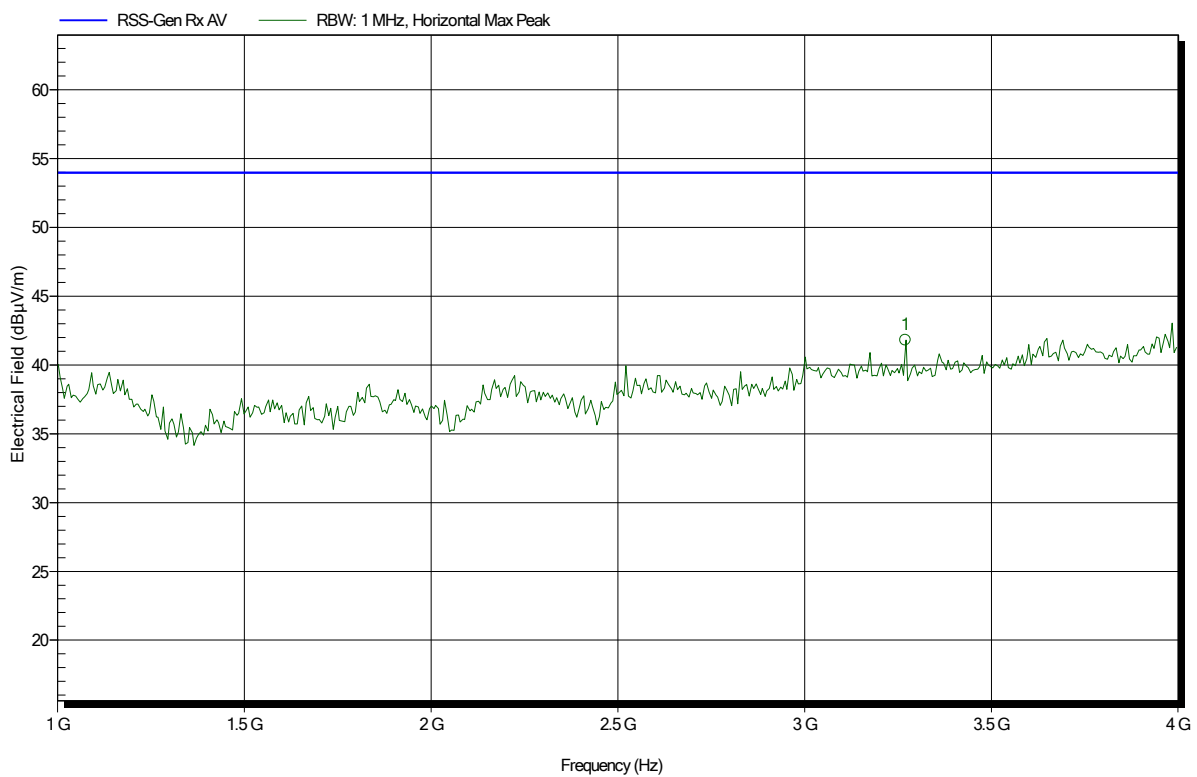
Frequency	Peak	Peak Limit	Peak Difference	Status
220.758 MHz	20.27 dBµV/m	46 dBµV/m	-25.73 dB	Pass
233.533 MHz	21.1 dBµV/m	46 dBµV/m	-24.9 dB	Pass
246.307 MHz	19.26 dBµV/m	46 dBµV/m	-26.74 dB	Pass
257.485 MHz	18.82 dBµV/m	46 dBµV/m	-27.18 dB	Pass
354.89 MHz	28.94 dBµV/m	46 dBµV/m	-17.06 dB	Pass
891.417 MHz	33.87 dBµV/m	46 dBµV/m	-12.13 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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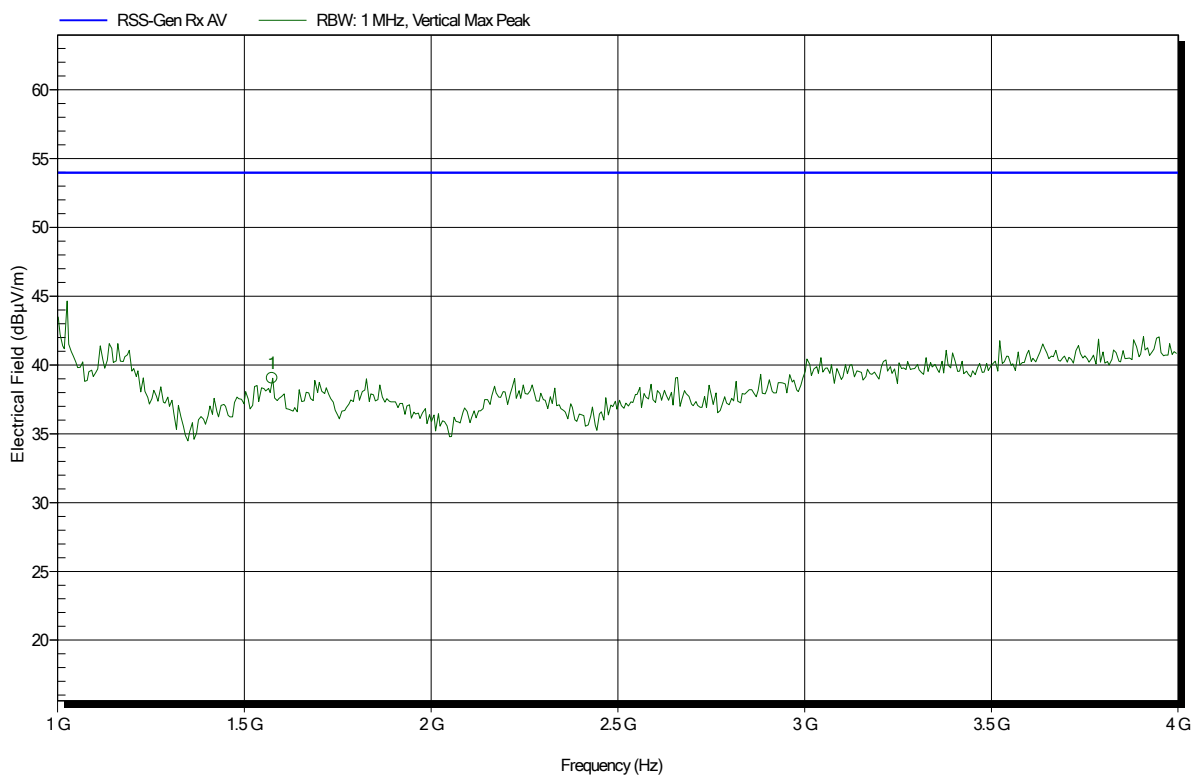
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
3.269 GHz	41.81 dBµV/m	53.98 dBµV/m	-12.17 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.3°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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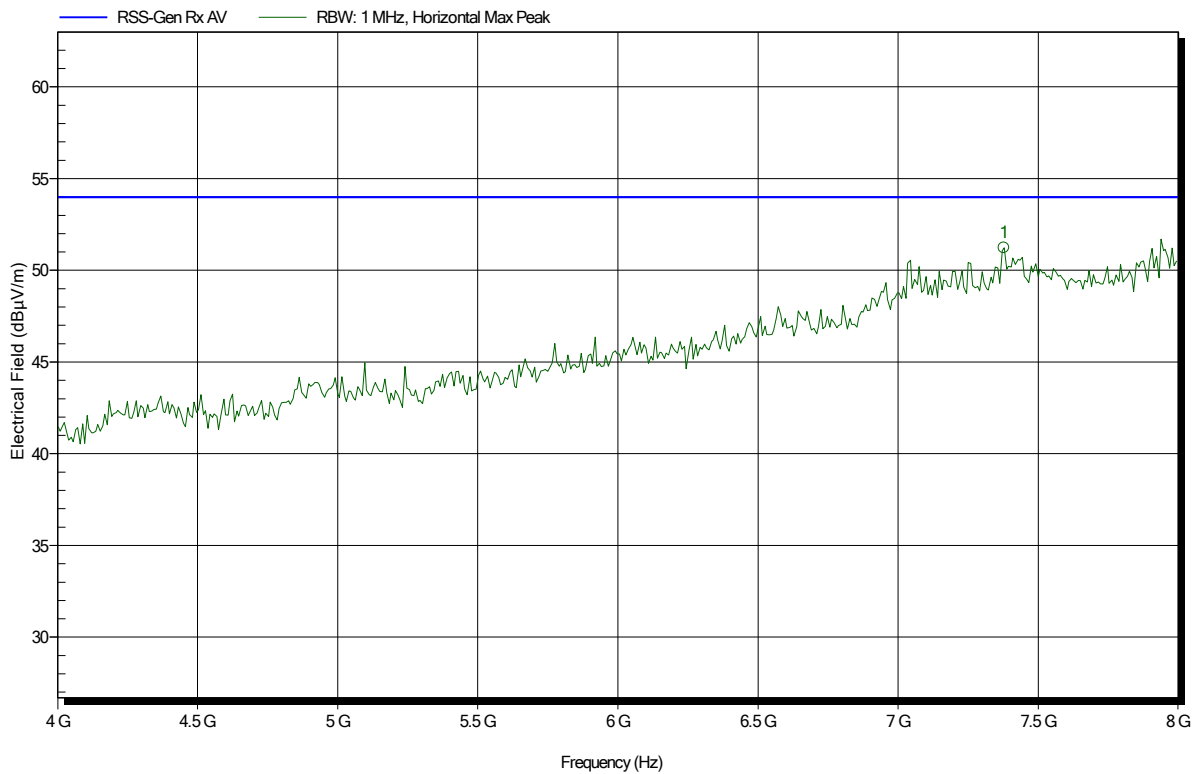
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.575 GHz	39.04 dBµV/m	53.98 dBµV/m	-14.94 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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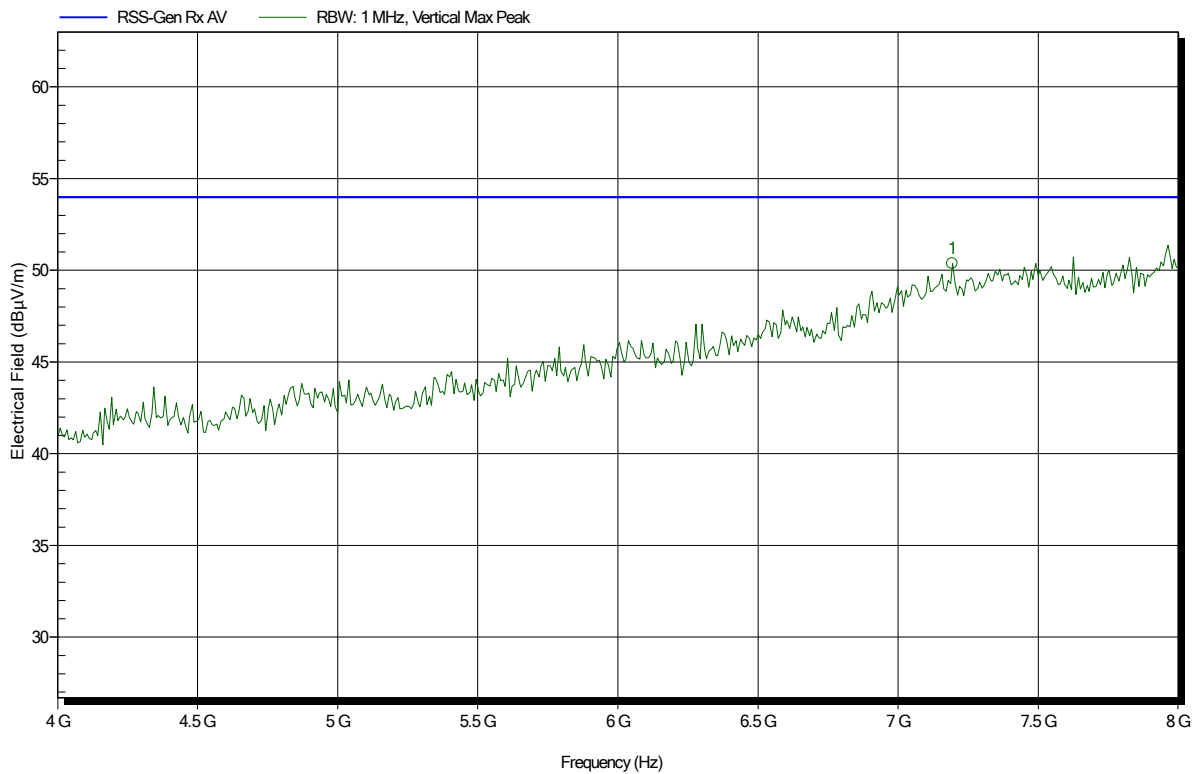
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.377 GHz	51.23 dBµV/m	53.98 dBµV/m	-2.75 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.3°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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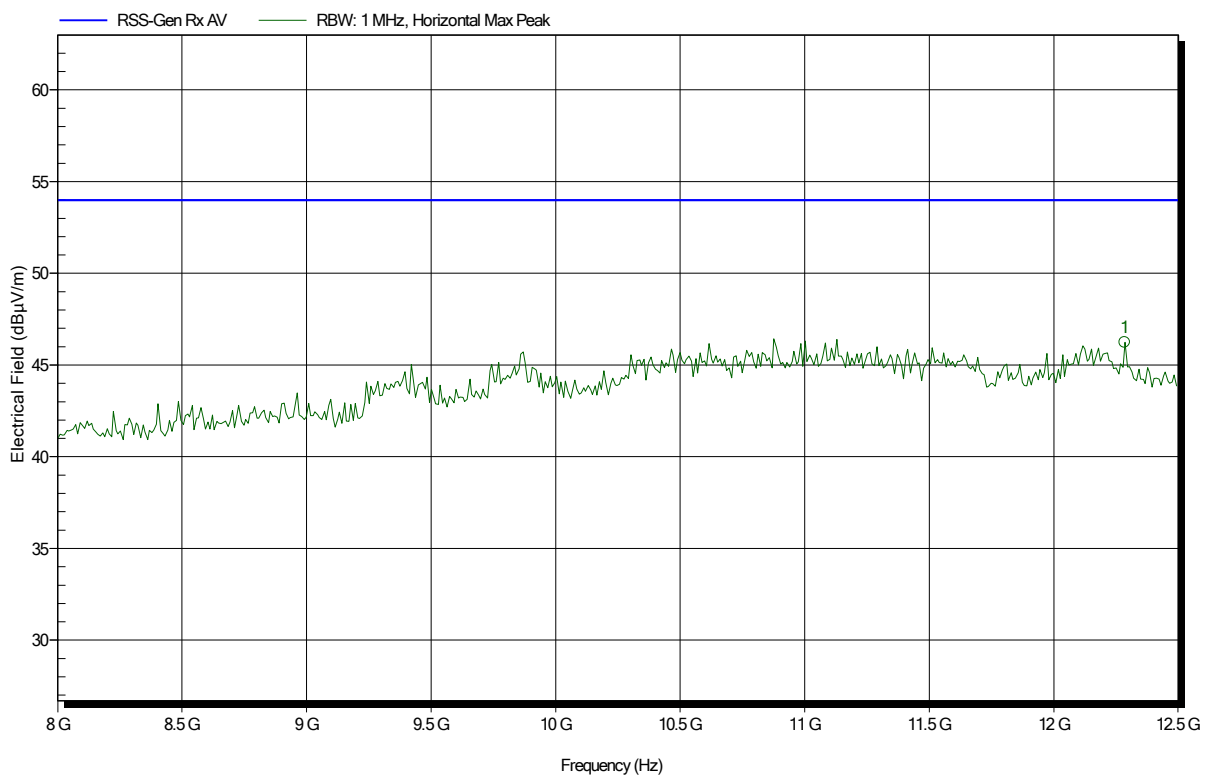
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.194 GHz	50.37 dBµV/m	53.98 dBµV/m	-3.61 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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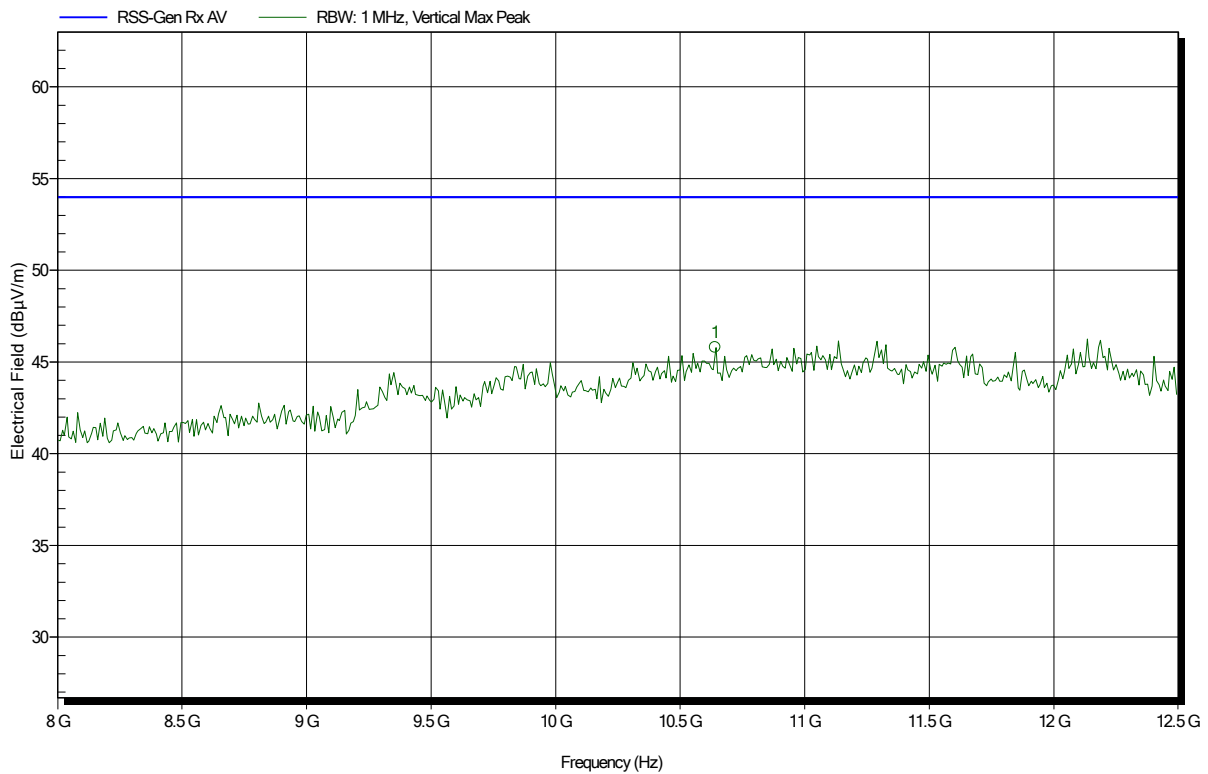
Frequency	Peak	Peak Limit	Peak Difference	Status
12.284 GHz	46.23 dBµV/m	53.98 dBµV/m	-7.75 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.3°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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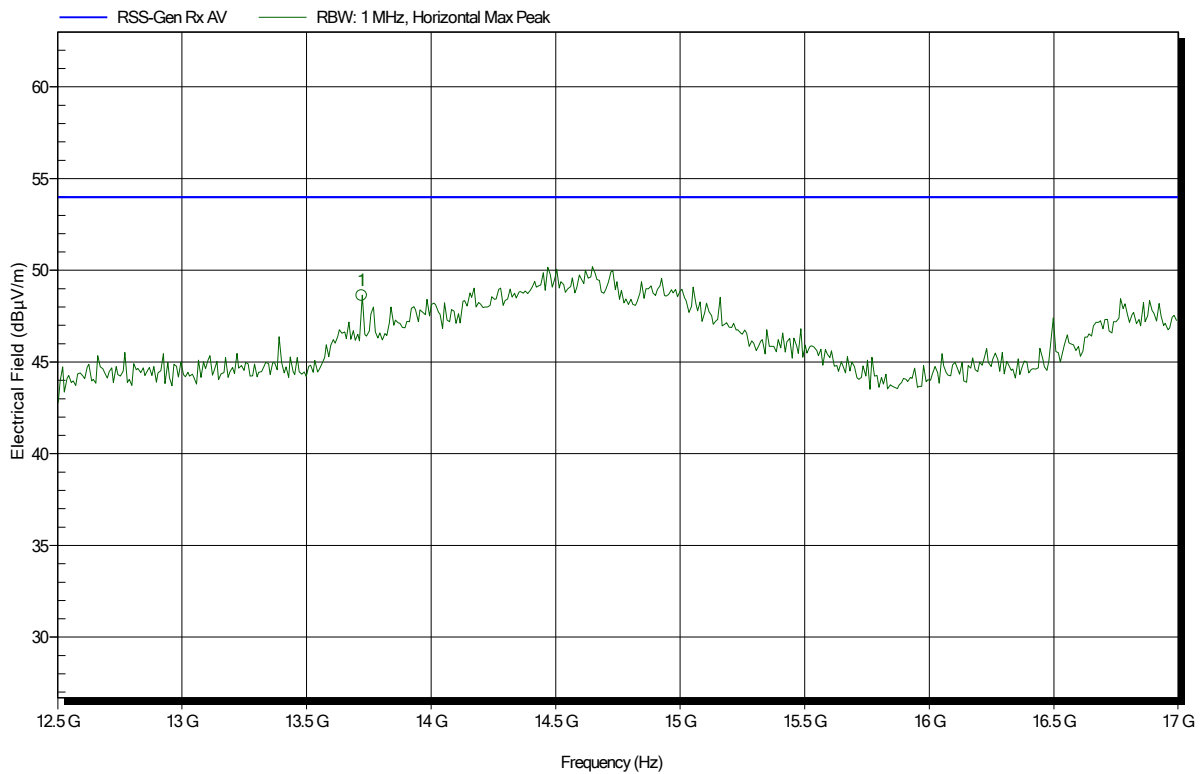
Frequency	Peak	Peak Limit	Peak Difference	Status
10.641 GHz	45.8 dBµV/m	53.98 dBµV/m	-8.18 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 22.1°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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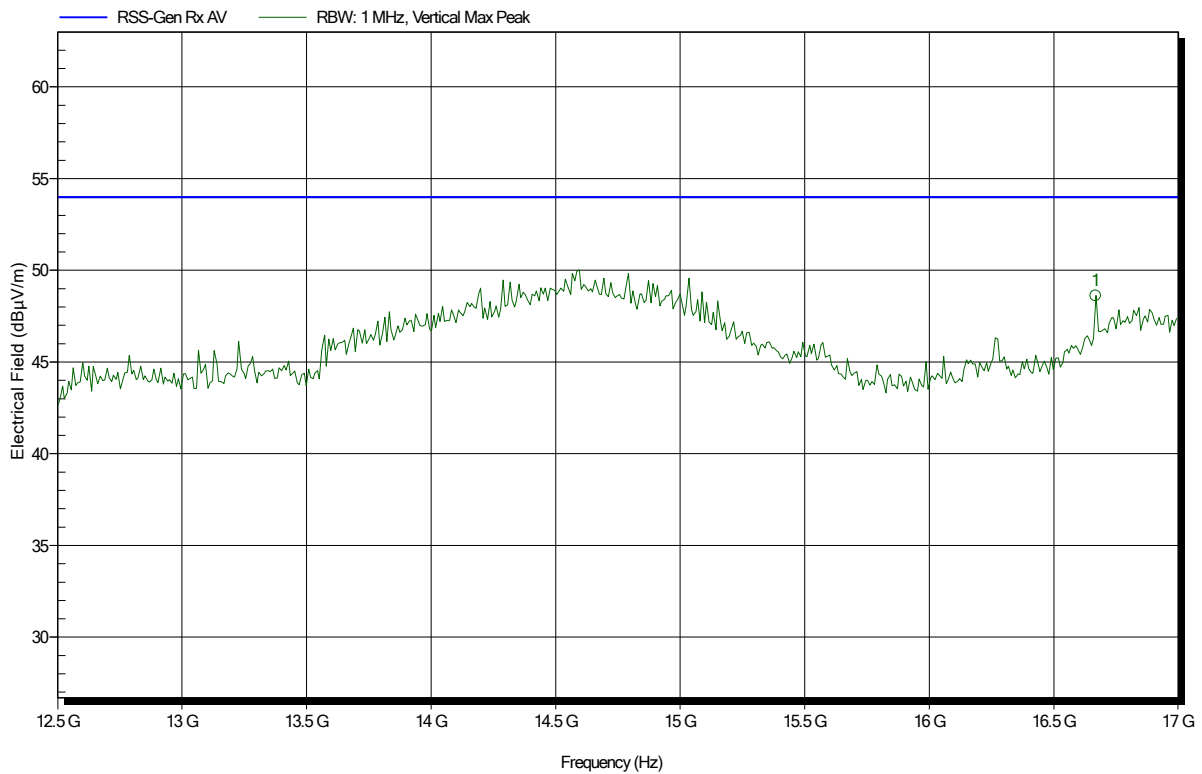
Frequency	Peak	Peak Limit	Peak Difference	Status
13.722 GHz	48.64 dBµV/m	53.98 dBµV/m	-5.34 dB	Pass

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1709-6878

Applicant: peiker CEE GmbH
 EUT Name: CEECOACH
 Model: CC2
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Al Jamal
 Test Conditions: Tnom: 23.3°C, Vnom: 5.0 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: RX; BT (customer label BT1); 2441 MHz
 Test Date: 2017-10-23
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Status
16.668 GHz	48.62 dBµV/m	53.98 dBµV/m	-5.36 dB	Pass