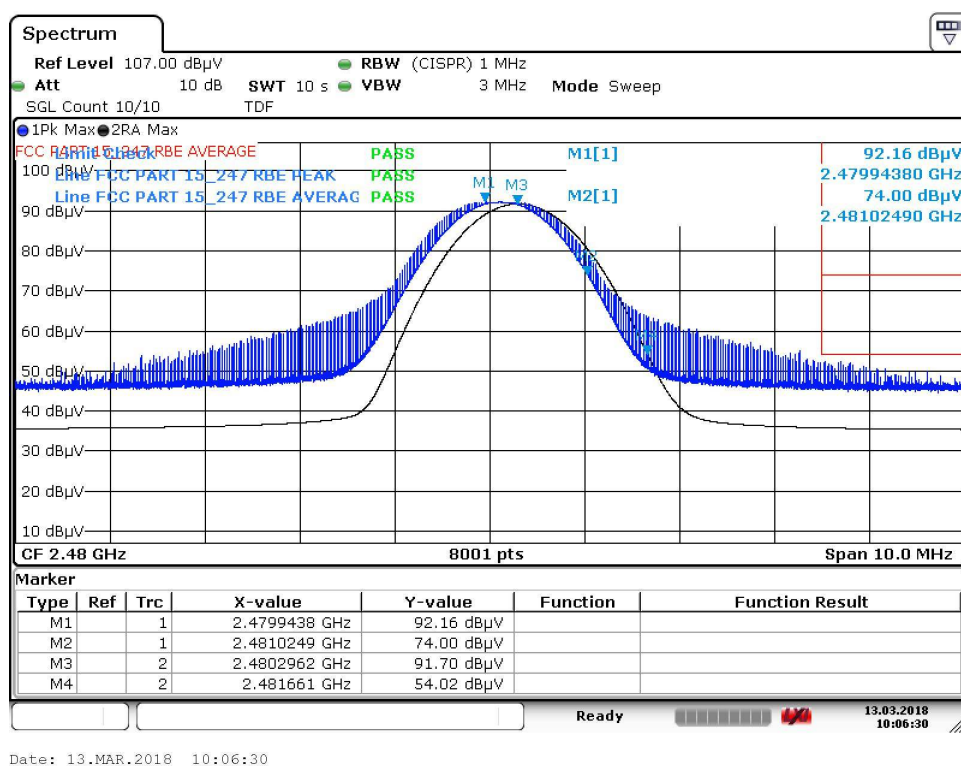

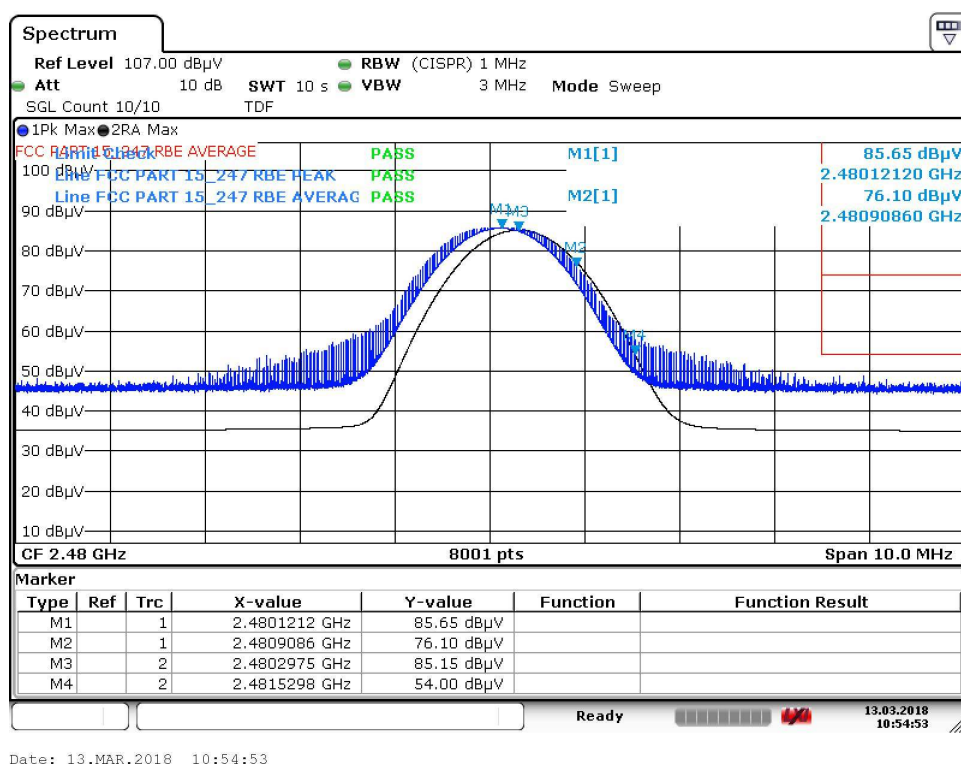
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2 style="text-align: center;">Radiated Emissions (Bandedge)</h2>	
DNB Job Number:	86088	Date:	13 Mar 2018	Specification [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Vutiliti			
Model Number:	VUHDRF1			
Description:	BLE Modular Transmitter 1 Mbps (Basic data rate)			

### Radiated Corrected Band Edge - Upper Edge - X Axis - Horizontal



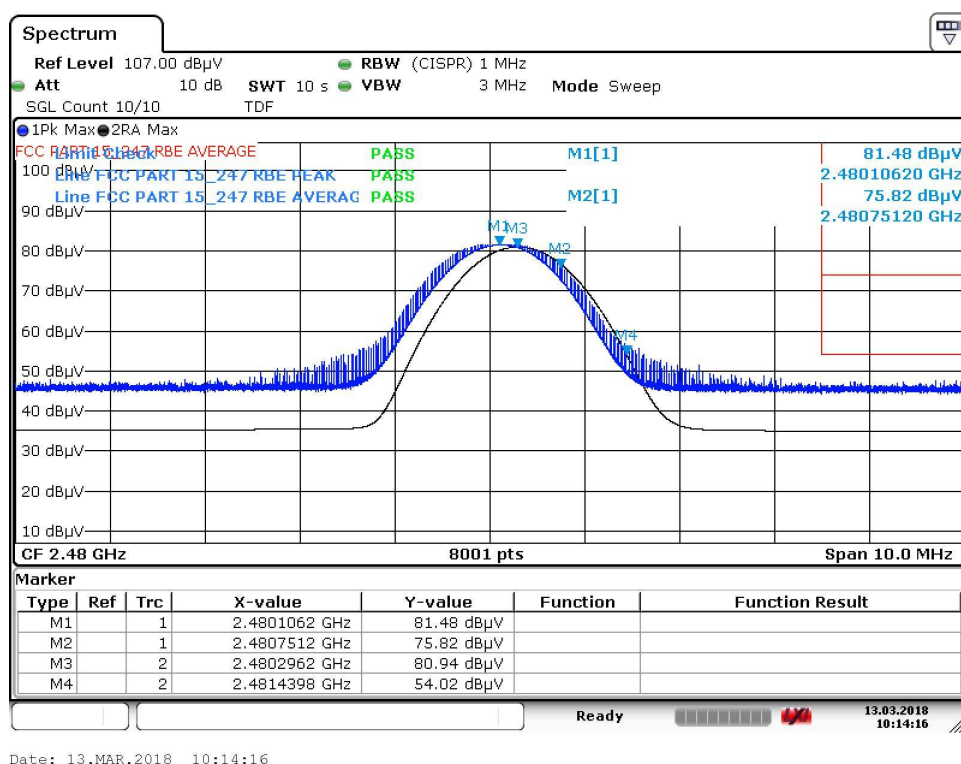
		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Radiated Emissions (Bandedge)	
DNB Job Number:		86088		Date: 13 Mar 2018	
Customer:		Vutiliti		Specification [X] 15.247 (c) [X] ANSI C63.10-2013	
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter 1 Mbps (Basic data rate)			


### Radiated Corrected Band Edge - Upper Edge - X Axis - Vertical



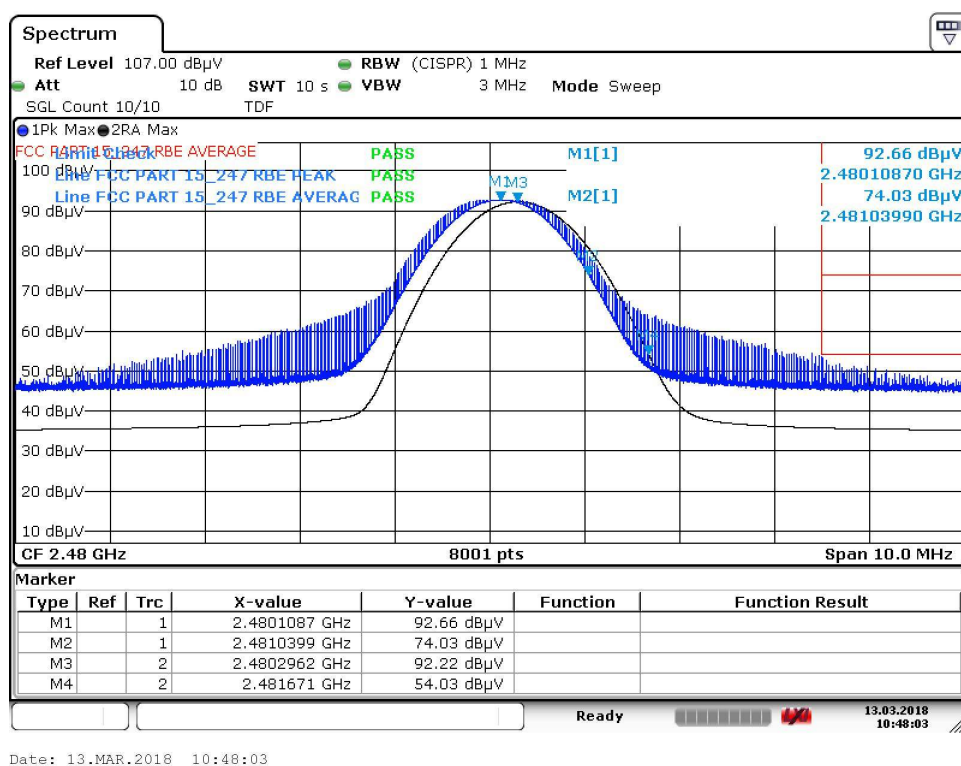
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Emissions (Bandedge)	
DNB Job Number:	86088	Date: 13 Mar 2018	Specification
Customer:	Vutiliti		
Model Number:	VUHDRF1		
Description:	BLE Modular Transmitter		
	1 Mbps (Basic data rate)		

# Radiated Corrected Band Edge - Upper Edge - Y Axis - Horizontal



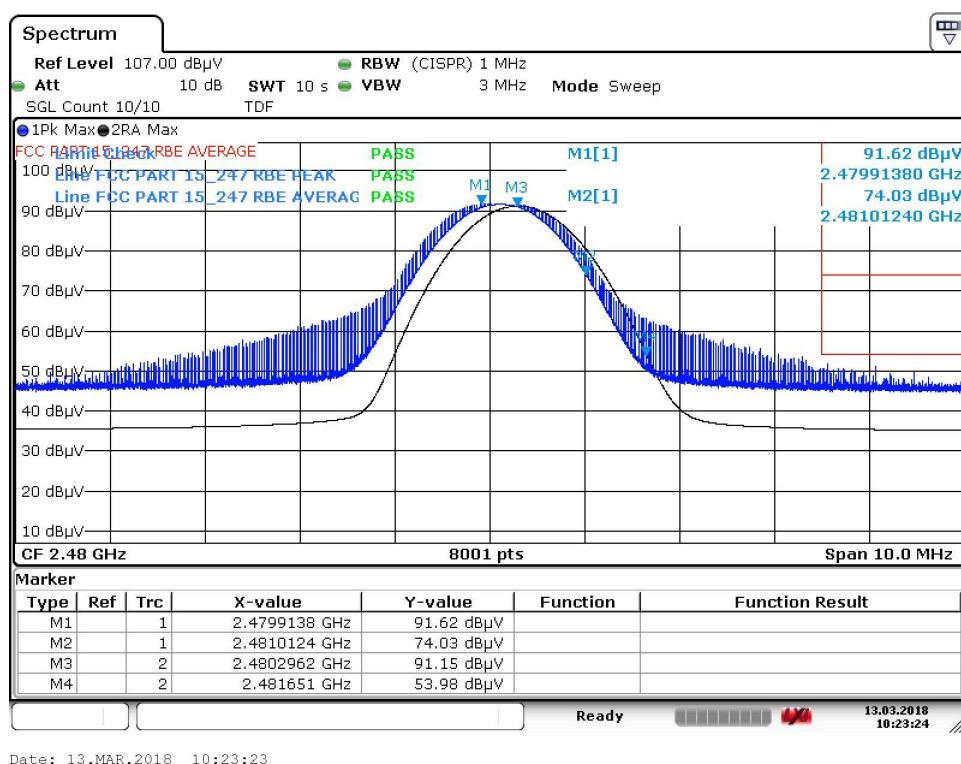
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Emissions (Bandedge)		
DNB Job Number:	86088	Date:	13 Mar 2018	Specification  [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Vutiliti			
Model Number:	VUHDRF1			
Description:	BLE Modular Transmitter			
	1 Mbps (Basic data rate)			


# Radiated Corrected Band Edge - Upper Edge - Y Axis - Vertical



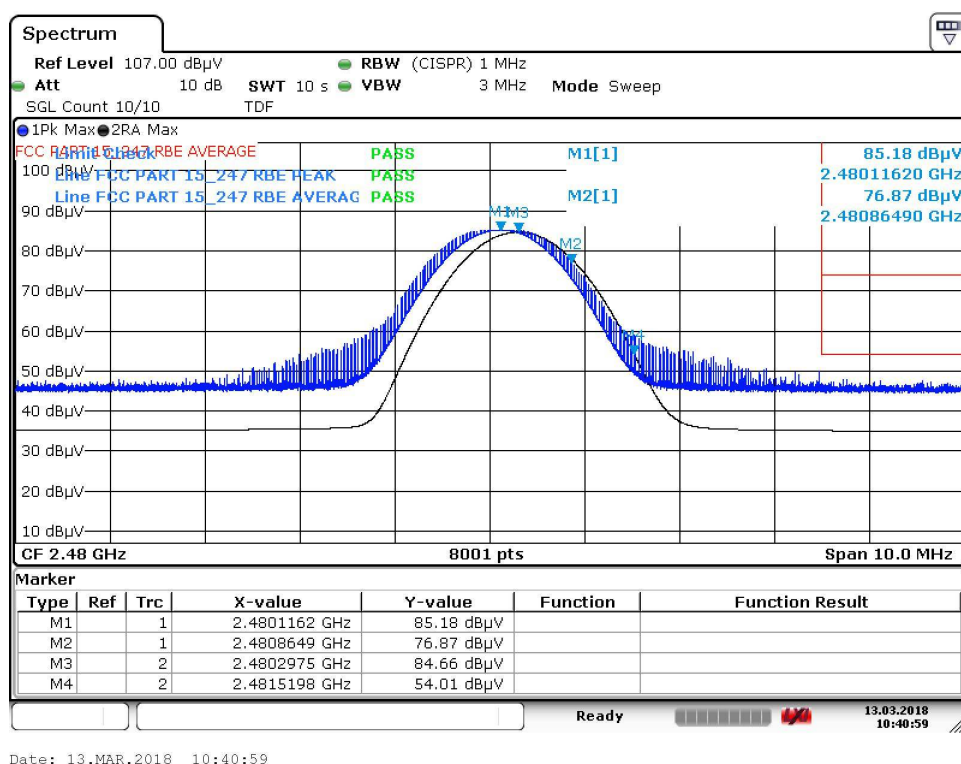
	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Emissions (Bandedge)	
DNB Job Number:	86088	Date: 13 Mar 2018	Specification
Customer:	Vutiliti		
Model Number:	VUHDRF1		
Description:	BLE Modular Transmitter		
	1 Mbps (Basic data rate)		

# Radiated Corrected Band Edge - Upper Edge - Z Axis - Horizontal



	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Radiated Emissions (Bandedge)		
DNB Job Number:	86088	Date:	13 Mar 2018	Specification  [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Vutiliti			
Model Number:	VUHDRF1			
Description:	BLE Modular Transmitter			
	1 Mbps (Basic data rate)			

# Radiated Corrected Band Edge - Upper Edge - Z Axis - Vertical



15.247 (a,2)                      6 dB Bandwidth

Test Procedure:                  ANSI C63.10-2013

#### 6 dB Bandwidth

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 6 dB bandwidth, centered on a hopping channel

RBW    1% of the 6 dB bandwidth

VBW    RBW

Sweep = auto

Detector function = peak

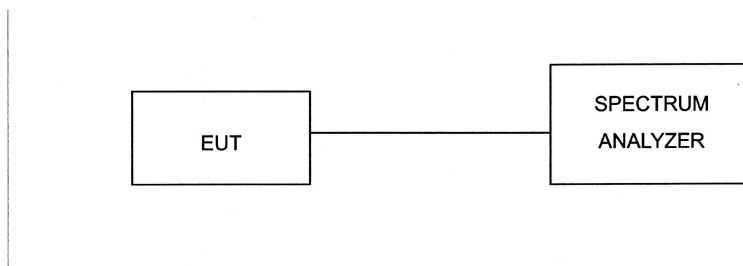
Trace = max hold


The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

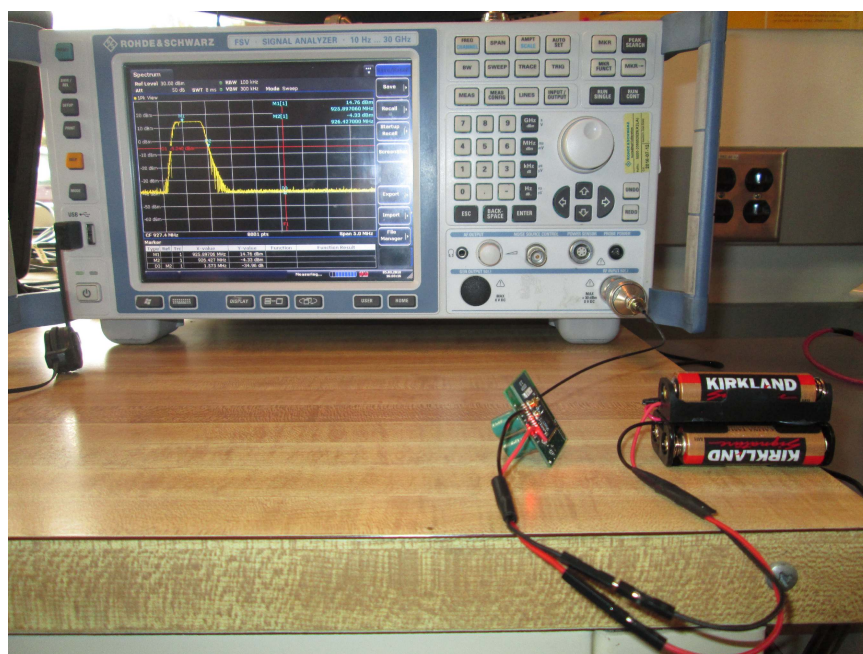
EUT operating conditions:

The software provided by the client to enable the EUT to transmit continuously.


Test Set Up: (Note following set up was used for all antenna conducted measurements)



	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436	Measurement Test Set Up	
DNB Job Number:	86088	Date:	6 Mar 2018
Customer:	Vutiliti		Conformance Standard
Model Number:	VUHDRF1		
Description:	BLE Modular Transmitter		FCC Part 15
Antenna Conducted Measurement Set Up			






	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:	86088	Date:	6 Mar 2018	Conformance Standard  FCC Part 15
Customer:	Vutiliti			
Model Number:	VUHDRF1			
Description:	BLE Modular Transmitter			Clause 15.247(a,2)
	Test Procedure			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>J Payne</i>				

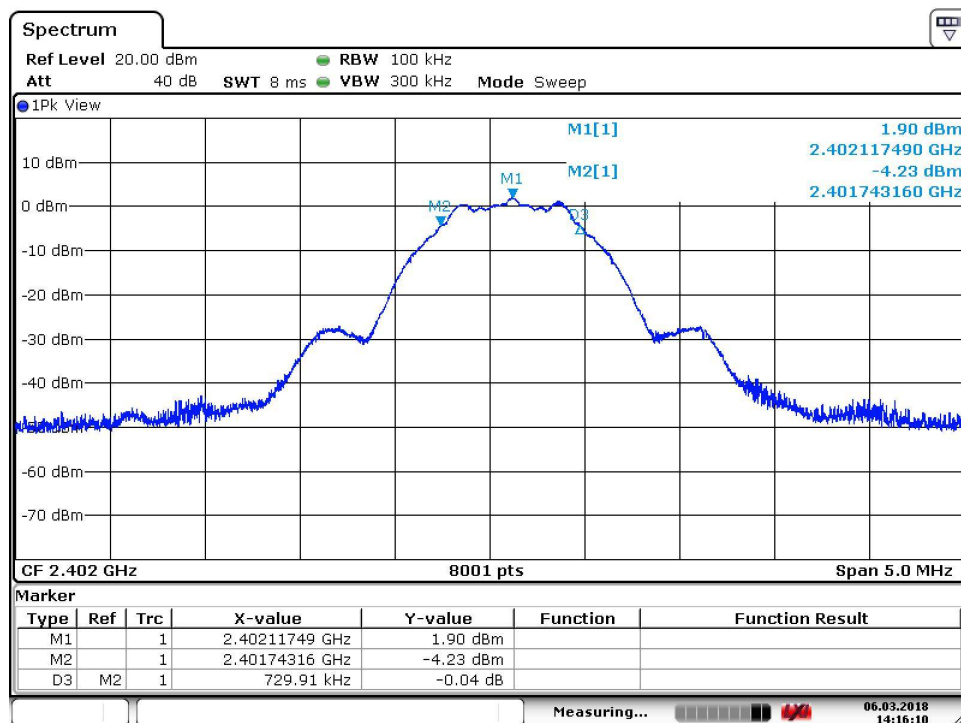
## 6 dB Bandwidth

### ANSI C63.10-2013 Clause 11.8.1


The steps are as follows:

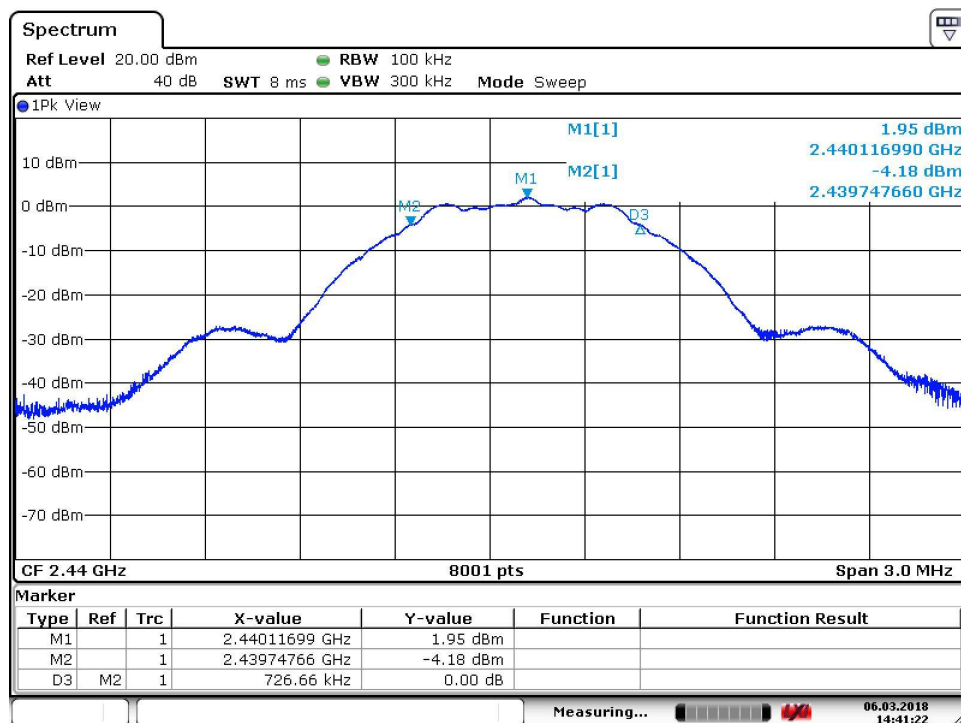
- a) Set RBW = 100 kHz
- b) Set the VBW  $\geq$  [ 3 x RBW ]  
\* per ANSI C63.10-2013 clause 6.9.2    Set the span to 2 to 5 times the OBW
- c) Detector = peak
- d) Trace mode = max hold
- e) Sweep = auto couple
- f) Allow trace to stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.
- h) Submit this plot(s).

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti		Conformance Standard  FCC Part 15	
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter		Clause 15.247(a,2)	
		1 Mbps (Basic data rate)			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>J Payne</i>					
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail	
Low	2402	729.910	> 500 kHz	Pass	




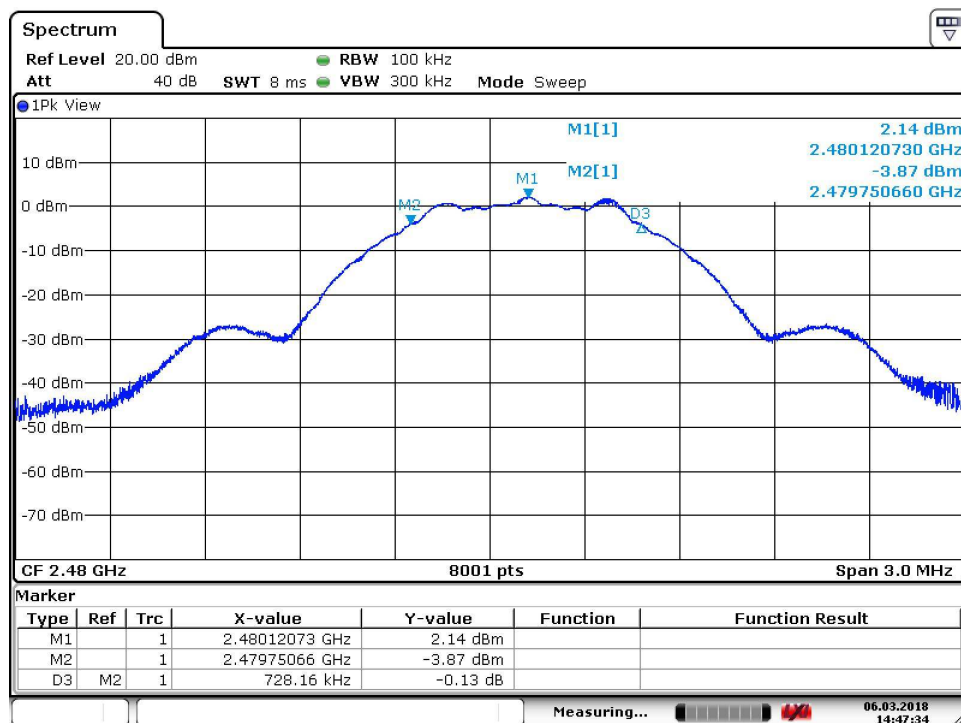
Date: 6.MAR.2018 14:16:10

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti		Conformance Standard  FCC Part 15	
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter		Clause 15.247(a,2)	
		1 Mbps (Basic data rate)			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail	
Middle	2440	726.660	> 500 kHz	Pass	




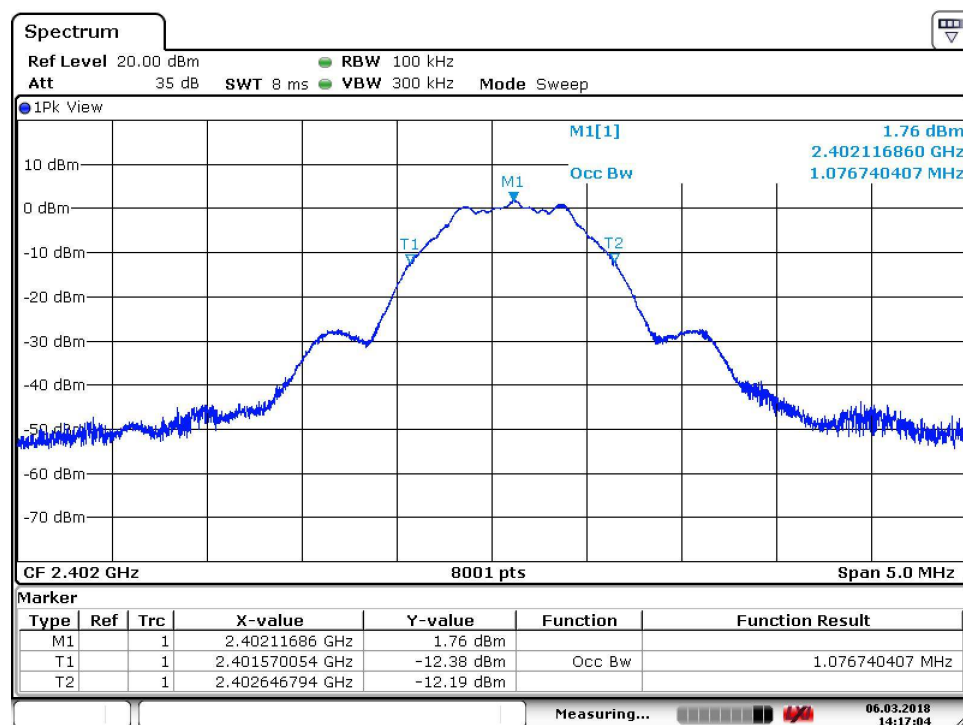
Date: 6.MAR.2018 14:41:23

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti		Conformance Standard  FCC Part 15	
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter		Clause 15.247(a,2)	
		1 Mbps (Basic data rate)			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>J Payne</i>					
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail	
High	2480	728.160	> 500 kHz	Pass	




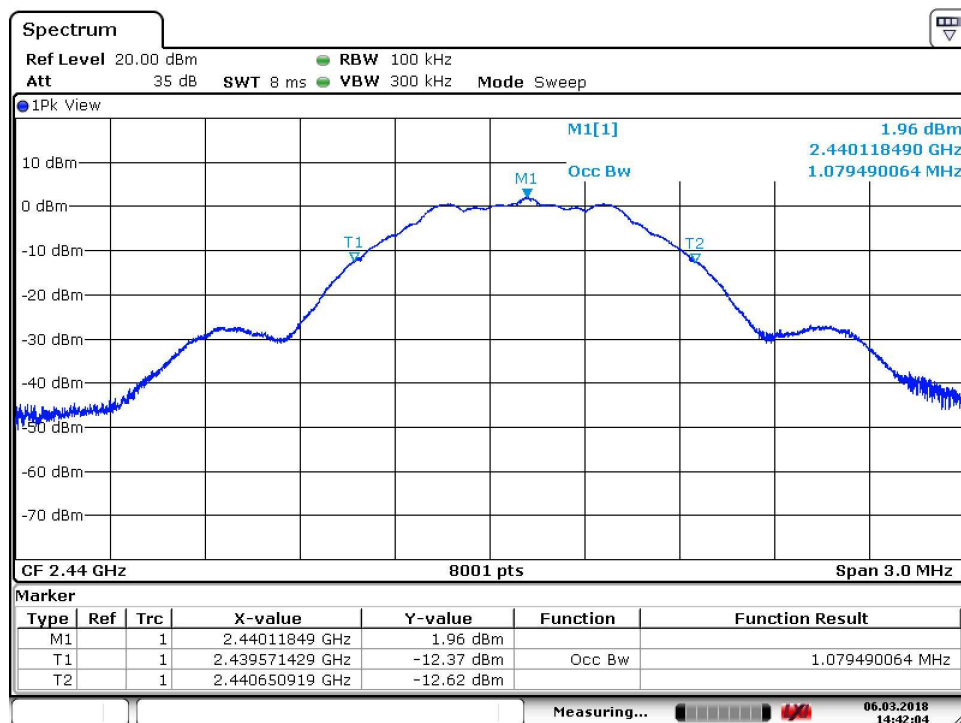
Date: 6.MAR.2018 14:47:34

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti			
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter			
		1 Mbps (Basic data rate)			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>J Payne</i>					
Channel		Chl Freq (MHz)		99% BW (MHz)	
Low		2402		1.076740407	




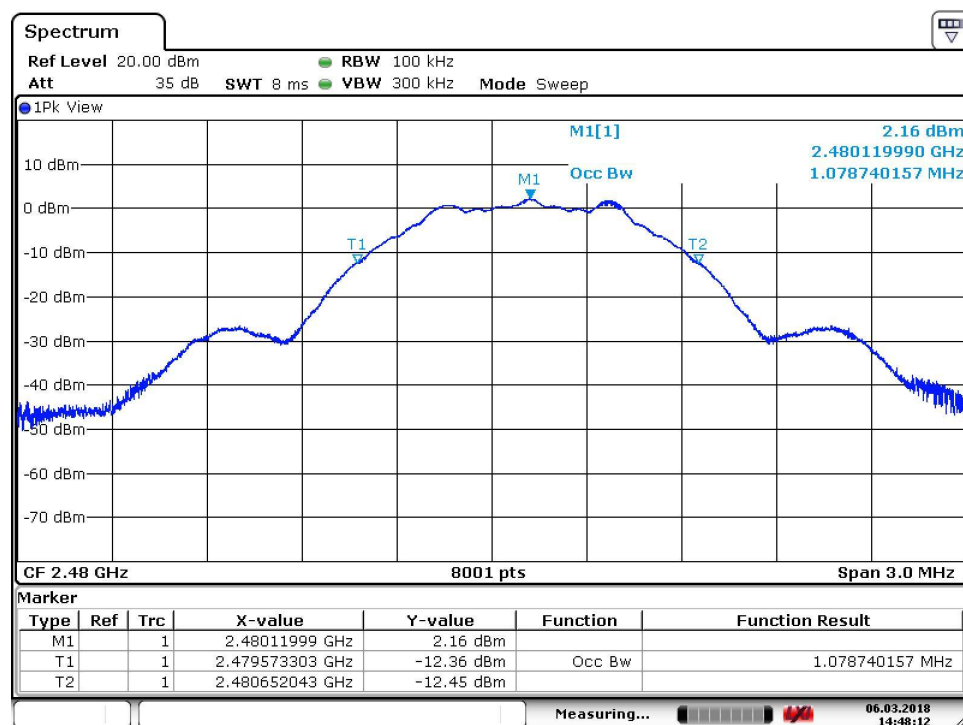
Date: 6.MAR.2018 14:17:05

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti			
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter 1 Mbps (Basic data rate)			
Conformance Standard RSS-Gen Clause Section 6.6					
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard [X] Yes [ ] No J Payne					
Channel		Chl Freq (MHz)		99% BW (MHz)	
Middle		2440		1.079490064	



Date: 6.MAR.2018 14:42:05

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti			
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter 1 Mbps (Basic data rate)			
Conformance Standard RSS-Gen Clause Section 6.6					
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard [X] Yes [ ] No J Payne					
Channel		Chl Freq (MHz)		99% BW (MHz)	
High		2480		1.078740157	



Date: 6.MAR.2018 14:48:13

15.247 (a,2,b3) Maximum Peak Output Power (Conducted)

Test Procedure: ANSI C63.10-2013

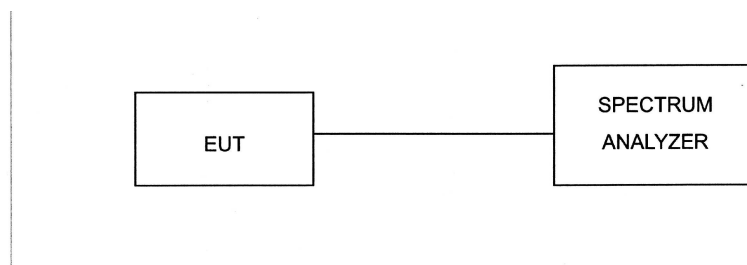
Peak Output Power

Per clause 11.9.1.1  $RBW \geq DTS \text{ Bandwidth}$


The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement.

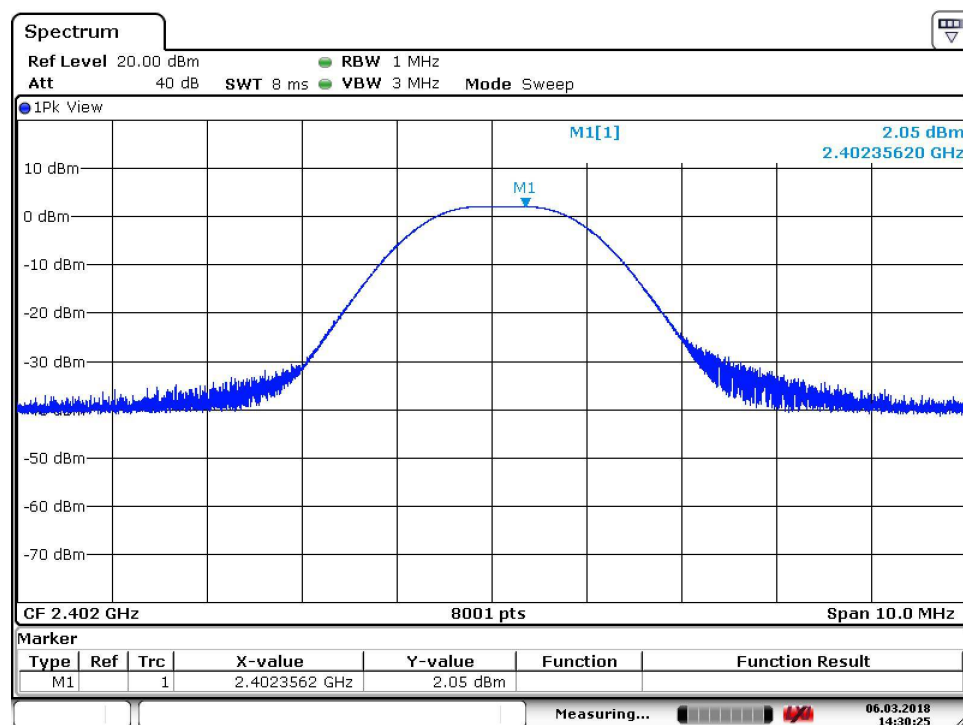
- a) Set the  $RBW \geq DTS \text{ bandwidth}$
- b) Set the  $VBW \geq [ 3 \times RBW ]$
- c) Set span  $\geq [ 3 \times RBW ]$
- d) Sweep time = auto couple
- e) Detector = peak
- f) Trace mode = max hold
- g) Allow trace to fully stabilize
- h) Use peak marker function to determine the peak amplitude
- i) Submit plots

Test Set Up:




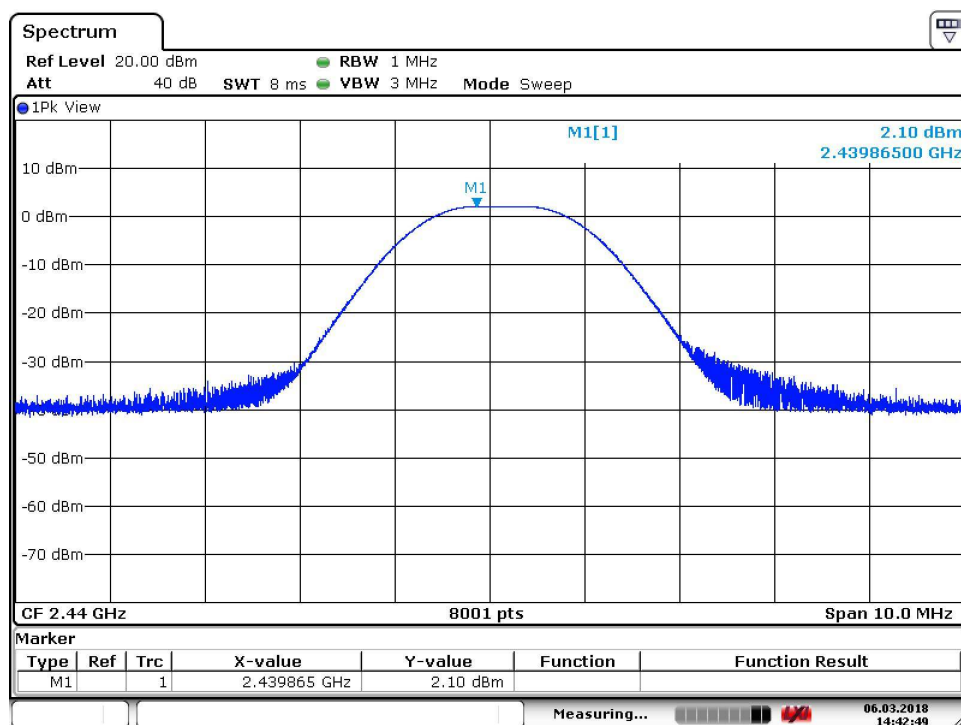


		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<b>Peak Output Power (Cond)</b>			
DNB Job Number:		86088		Date: 6 Mar 2018			
Customer:		Vutiliti		Conformance Standard  FCC Part 15			
Model Number:		VUHDRF1					
Description:		BLE Modular Transmitter		Clause 15.247(b)			
		Low Channel - 1 Mbps (Basic data rate)					
Environmental Conditions							
Ambient Temperature		Relative Humidity		Barometric Pressure			
26 °C		30 %		101.35 kPa			
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne							
Freq MHz	Meas Peak Pwr (dBm)	Limit (dBm)	Delta (dBm)	Meas Peak Pwr (mW)	Limit (mW)	Delta (mW)	Pass/Fail
2402	2.05	30.00	-27.95	1.603	1000	-998.397	Pass




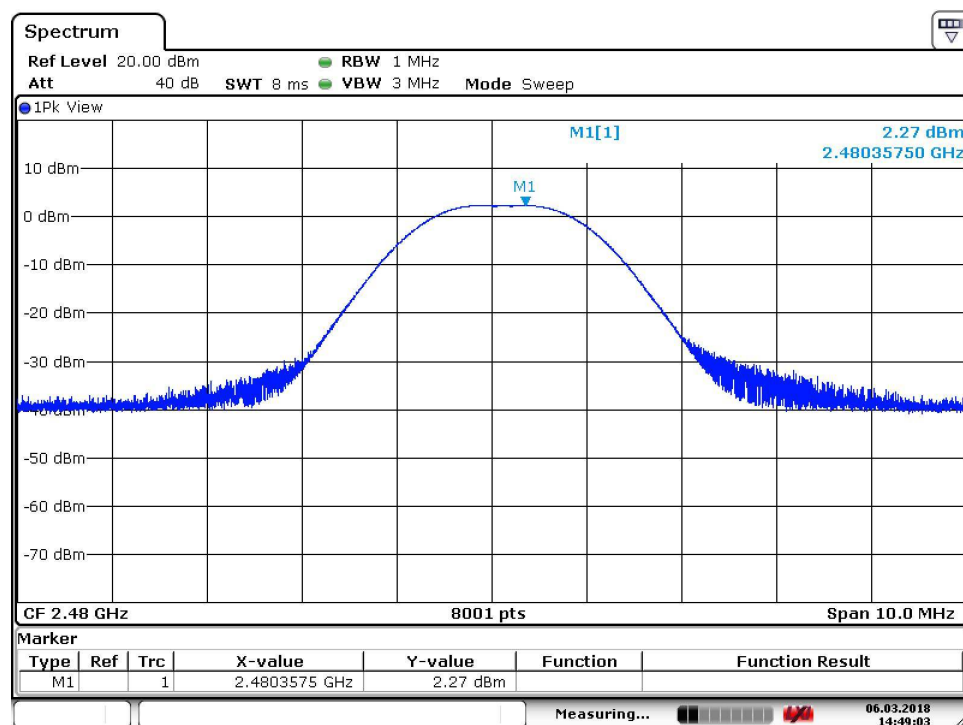
Date: 6.MAR.2018 14:30:26

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Peak Output Power (Cond)				
DNB Job Number:		86088		Date:		6 Mar 2018		Conformance Standard  FCC Part 15
Customer:		Vutiliti						
Model Number:		VUHDRF1						
Description:		BLE Modular Transmitter						Clause 15.247(b)
		Middle Channel - 1 Mbps (Basic data rate)						
Environmental Conditions								
Ambient Temperature			Relative Humidity			Barometric Pressure		
26 °C			30 %			101.35 kPa		
EUT performed within the requirements of the applicable standard    [X] Yes    [ ] No    J Payne								
Freq MHz	Meas Peak Pwr (dBm)	Limit (dBm)	Delta (dBm)	Meas Peak Pwr (mW)	Limit (mW)	Delta (mW)	Pass/Fail	
2440	2.10	30.00	-27.9	1.622	1000	-998.378	Pass	



Date: 6.MAR.2018 14:42:50

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<b>Peak Output Power (Cond)</b>			
DNB Job Number:	86088	Date:	6 Mar 2018	Conformance Standard  FCC Part 15  Clause 15.247(b)			
Customer:	Vutiliti						
Model Number:	VUHDRF1						
Description:	BLE Modular Transmitter High Channel - 1 Mbps (Basic data rate)						
Environmental Conditions							
Ambient Temperature		Relative Humidity		Barometric Pressure			
26 °C		30 %		101.35 kPa			
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne							
Freq MHz	Meas Peak Pwr (dBm)	Limit (dBm)	Delta (dBm)	Meas Peak Pwr (mW)	Limit (mW)	Delta (mW)	Pass/Fail
2480	2.27	30.00	-27.73	1.687	1000	-998.313	Pass



Date: 6.MAR.2018 14:49:03

15.247 (a,2,d)              Conducted Band Edge and Out of Band Emissions

Test Procedure:            ANSI C63.10-2013

Band-edge Compliance of RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation

RBW    1% of the span

VBW    RBW

Sweep = auto


Detector function = peak

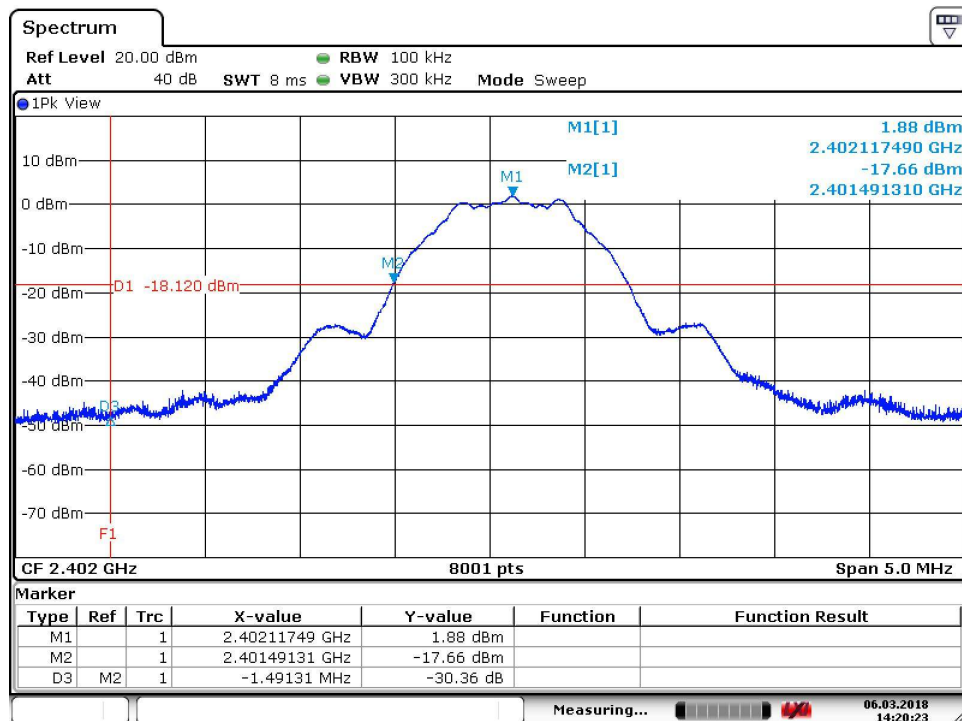
Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section. Submit this plot.


Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit. Submit this plot.

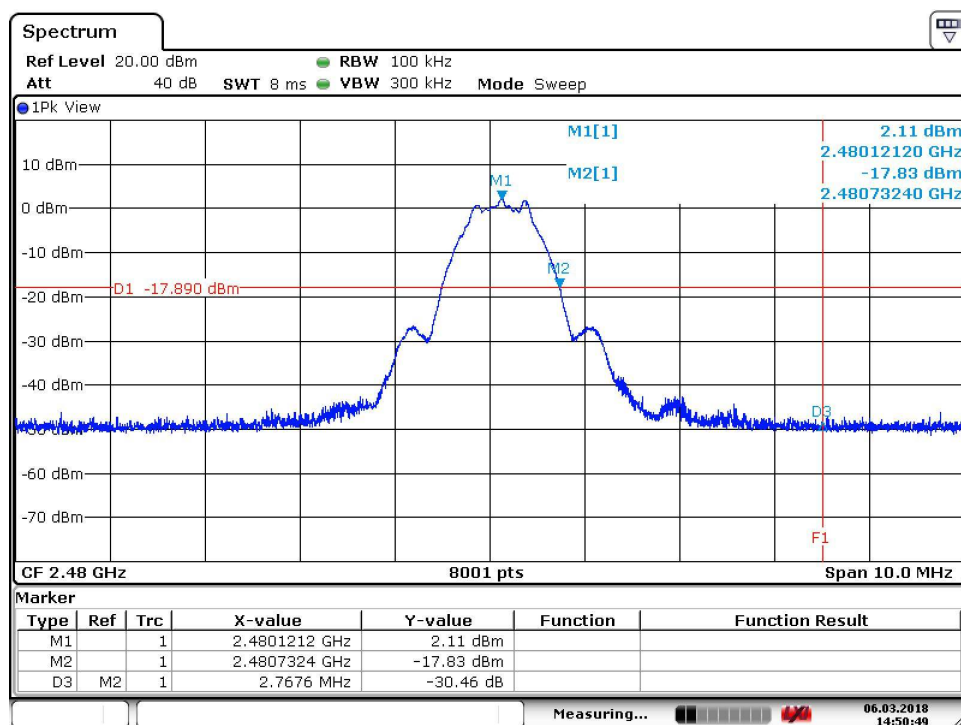
Test Set Up: Same as 15.247 (a,2) 6dB Emission Bandwidth

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2 style="text-align: center;">Band Edge Measurements</h2>		
DNB Job Number:		86088				Date: 6 Mar 2018
Customer:		Vutiliti				Conformance Standard  FCC Part 15
Model Number:		VUHDRF1				
Description:		BLE Modular Transmitter				Clause 15.247(a,2,d)
		1 Mbps (Basic data rate)				
Ambient Temperature		Relative Humidity		Barometric Pressure		
26 °C		30 %		101.35 kPa		
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne						
Conducted Band Edge Measurement				Freq Delta (MHz)	Pass/Fail	
Limit	Lower (MHz)	Upper (MHz)				
2400	2401.491310			1.491	Pass	




Date: 6.MAR.2018 14:20:24

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Band Edge Measurements</h2>	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti		Conformance Standard  FCC Part 15	
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter		Clause 15.247(a,2,d)	
		1 Mbps (Basic data rate)			
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Conducted Band Edge Measurement				Freq Delta (MHz)	
Limit	Lower (MHz)	Upper (MHz)			
2483.5		2480.732400		2.768	
				Pass	



Date: 6.MAR.2018 14:50:49

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<b>Conducted Spurious</b>	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti			
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter			
		Test Procedure			
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					

Test Procedure:        ANSI C63.10-2013

15.247 (a,2,d)        Spurious RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10<sup>th</sup> harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz


VBW    RBW

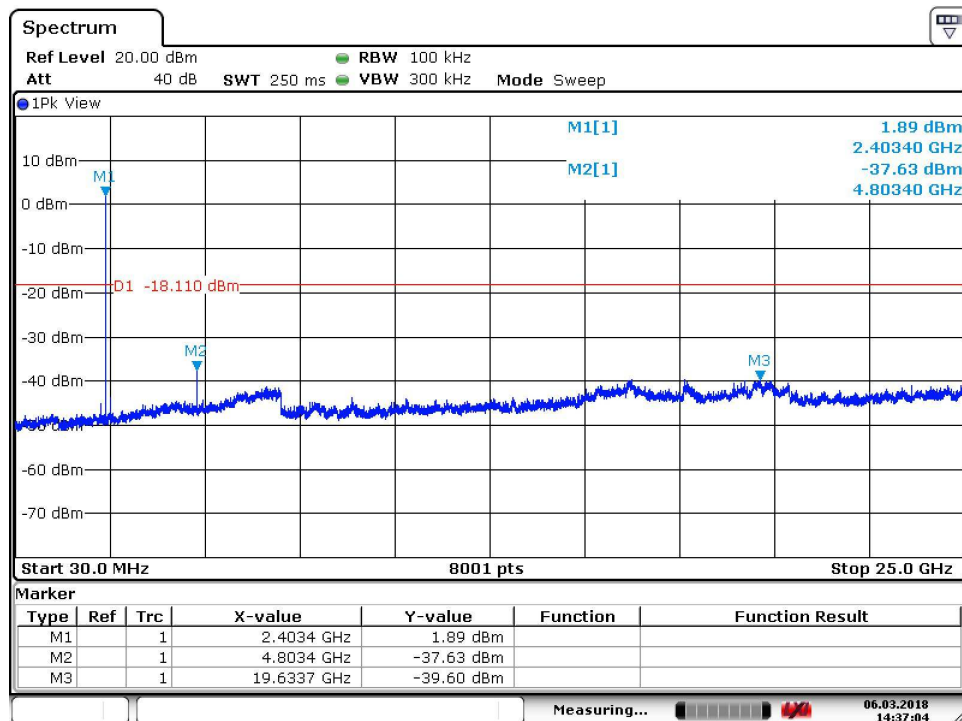
Sweep = auto

Detector function = peak

Trace = max hold


Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section. Submit these plots.

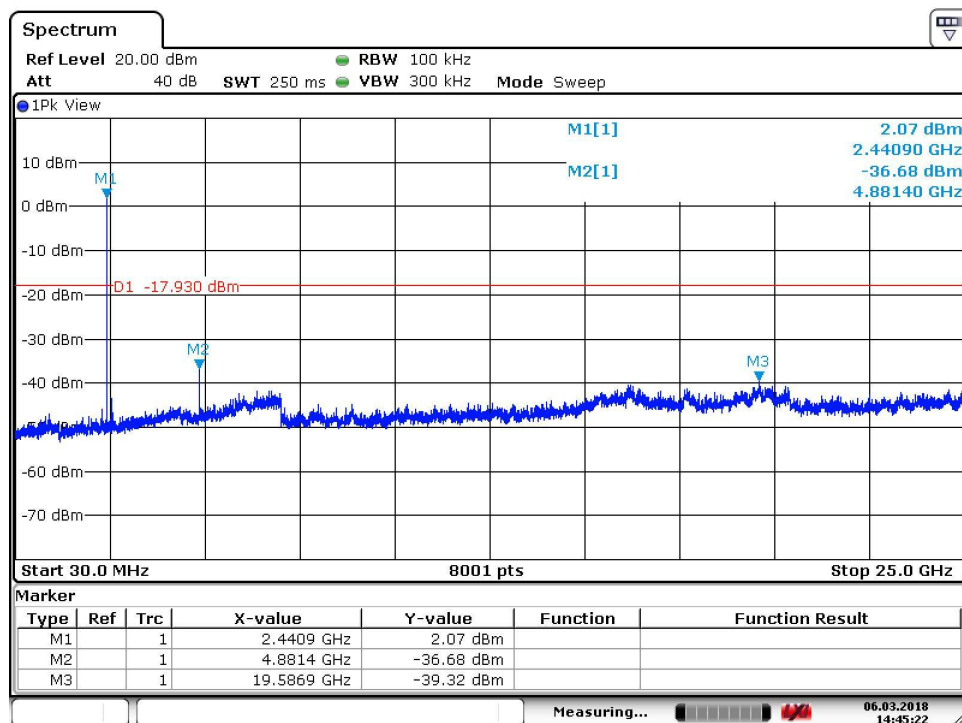
		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Conducted Spurious	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti			
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter			
		Low Channel - 1 Mbps (Basic data rate)			
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Peak Output Power		Reading (dBm)		-20dBc (dBm)	
2.05 dBm		1.89		-18.11	
				Pass/Fail	
				Pass	




Date: 6.MAR.2018 14:37:05

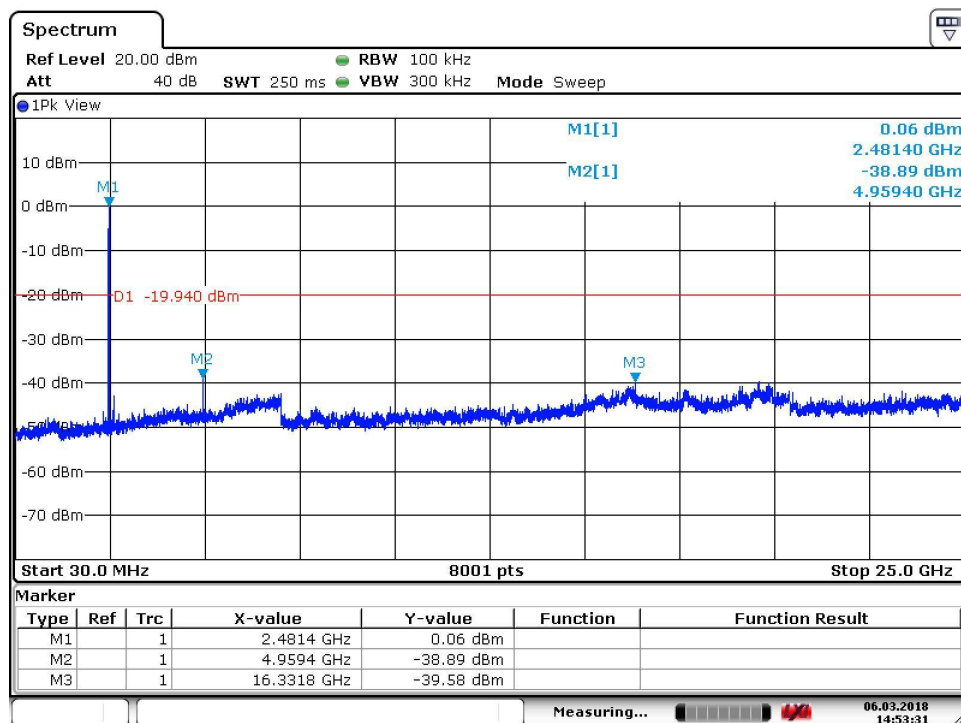


	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Conducted Spurious	
DNB Job Number:	86088	Date:	6 Mar 2018	Conformance Standard  FCC Part 15
Customer:	Vutiliti			
Model Number:	VUHDRF1			
Description:	BLE Modular Transmitter			Clause 15.247(a,2,d)
	Middle Channel - 1 Mbps (Basic data rate)			
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard    [X] Yes    [ ] No    J Payne				
Peak Output Power	Reading (dBm)	-20dBc (dBm)		Pass/Fail
2.10 dBm	2.07	-17.93		Pass



Date: 6.MAR.2018 14:45:23

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Conducted Spurious</h2>	
DNB Job Number:		86088		Date: 6 Mar 2018	
Customer:		Vutiliti		Conformance Standard  FCC Part 15	
Model Number:		VUHDRF1			
Description:		BLE Modular Transmitter		Clause 15.247(a,2,d)	
		High Channel - 1 Mbps (Basic data rate)			
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Peak Output Power		Reading (dBm)		-20dBc (dBm)	
2.27 dBm		0.06		-19.94	
				Pass/Fail	
				Pass	



Date: 6.MAR.2018 14:53:32


15.247(a,2,e): Power spectral density(PSD).

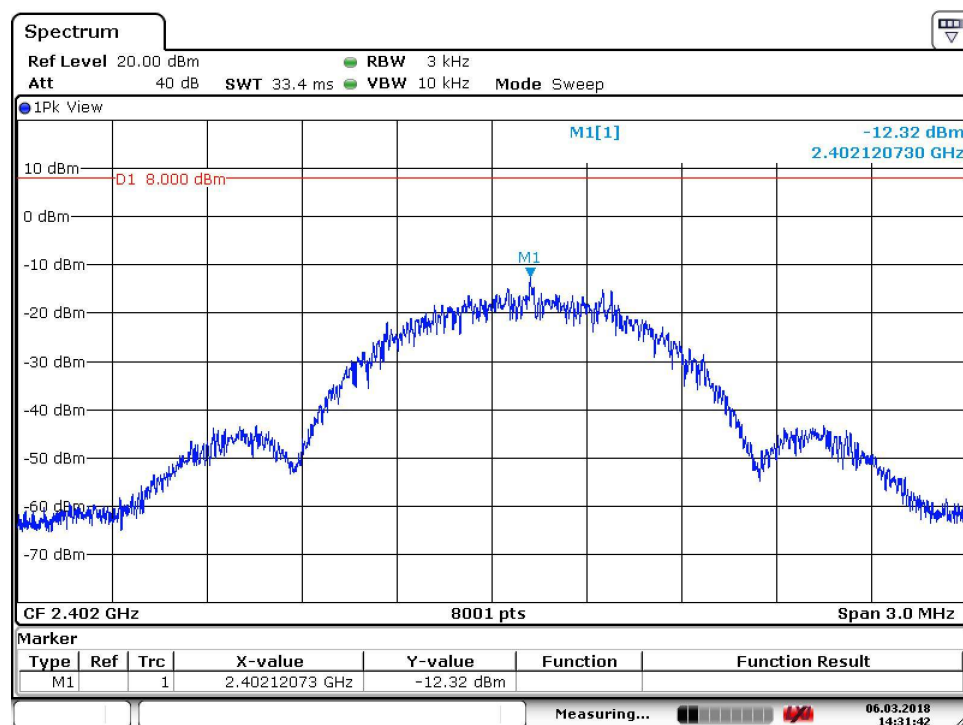
Test Procedure: ANSI C63.10-2013

Clause 11.10.2 Method PKPSD (peak PSD)


The following procedure shall be used if the maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted ( average ) output power was used to determine compliance:

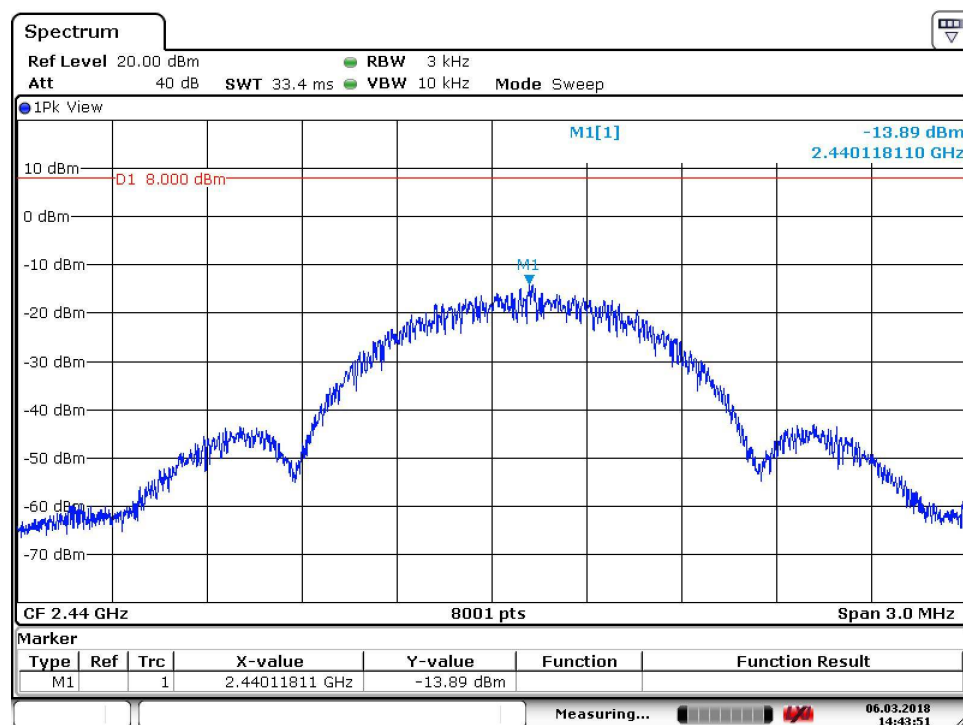
- a) Set analyzer center frequency to DTS channel center frequency
- b) Set the span to 1.5 times the DTS bandwidth
- c) Set the RBW to  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
- d) Set the VBW  $\geq [ 3 \times \text{RBW} ]$
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz ) and repeat
- k) Submit plots

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	86088	Date:	6 Mar 2018	Conformance Standard  FCC Part 15  Clause 15.247(d)	
Customer:	Vutiliti				
Model Number:	VUHDRF1				
Description:	BLE Modular Transmitter Low Channel - 1 Mbps (Basic data rate)				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Low	2402	-12.32	8.0	-20.32	Pass




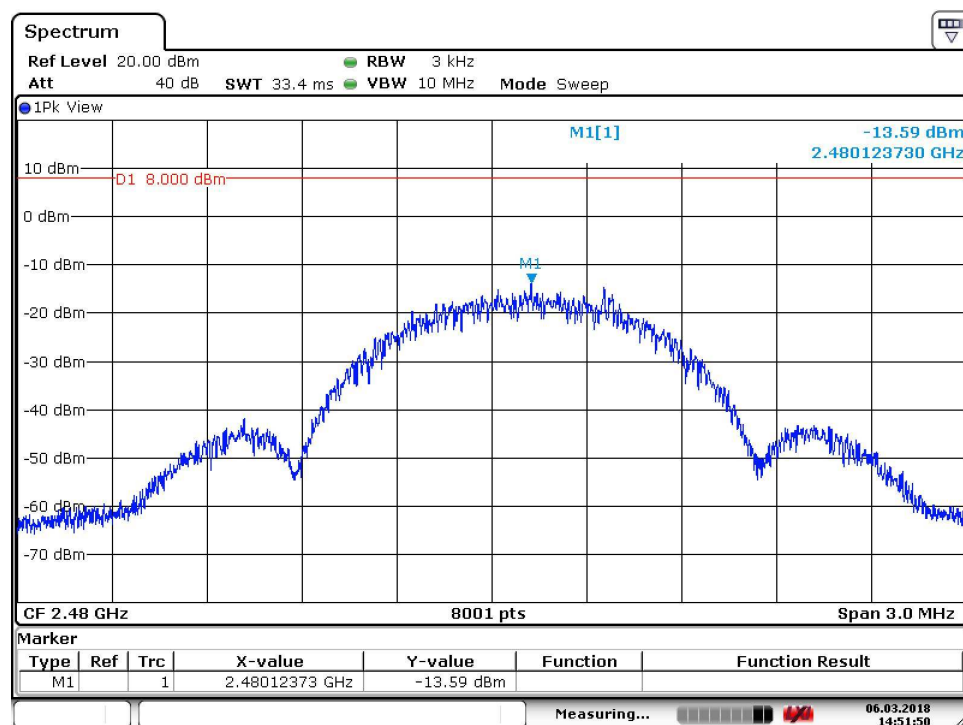
Date: 6.MAR.2018 14:31:43

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	86088	Date:	6 Mar 2018	Conformance Standard  FCC Part 15  Clause 15.247(d)	
Customer:	Vutiliti				
Model Number:	VUHDRF1				
Description:	BLE Modular Transmitter Middle Channel - 1 Mbps (Basic data rate)				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Middle	2440	-13.89	8.0	-21.89	Pass



Date: 6.MAR.2018 14:43:52

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	86088	Date:	6 Mar 2018	Conformance Standard  FCC Part 15  Clause 15.247(d)	
Customer:	Vutiliti				
Model Number:	VUHDRF1				
Description:	BLE Modular Transmitter High Channel - 1 Mbps (Basic data rate)				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    J Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
High	2480	-13.59	8.0	-21.59	Pass



Date: 6.MAR.2018 14:51:51

## 2.1033 (b) (7) Equipment Photographs

Supplied separately for confidentiality

End of Report UT86088A-003