

# Measurement Results

1-0397/20-02-12\_log1\_conducted

[Test logging](#)

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Document authorized:

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## Table of Content

EUT Summary	3
1. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate	4
2. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi/4DQPSK	8
3. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK	12
4. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate	16
5. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi/4DQPSK	23
6. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK	30
7. FCC Part 15.247 TX Spurious Conduced ~ BT Classic Basic rate	37
8. FCC Part 15.247 TX Spurious Conduced ~ BT Classic EDR Pi/4DQPSK	41
9. FCC Part 15.247 TX Spurious Conduced ~ BT Classic EDR 8DPSK	45
10. FCC Part 15.247 Number Of Hopping Channels FHSS ~ BT Classic Basic rate	49
11. FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic Basic rate	53
12. FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic EDR Pi/4DQPSK	56
13. FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic EDR 8DPSK	59

## EUT Summary

IUT DEFINITION & Common settings	
Manufacturer	Digi International Inc.
Type	ConnectCore 8M Nano
Serial No.   Setup No.	BT Address: 00048E015603   1.0
SW Version   HW Version	NI   NI
Comment 1   2	
Tlow   Tmid   Thigh [°C]	-40   20   85
Vlow   Vmid   Vhigh [V] @Imax [A]	4.5   5   5.5 @1
Auto Control enabled Power Supply   Climatic Box	No   No
Antenna Gain [dBi] (only considered if explicitly mentioned in testresult)	0
Additional Path Loss [dB]	0.7

IUT Common Settings BT Classic	
Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	LOOPback
Perform Inquiry	No
IUT BT Address	00048E015603
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## 1. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate

Test References	
TC Start	05.10.2020 17:42:27
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic Basic Rate
Add. Information	

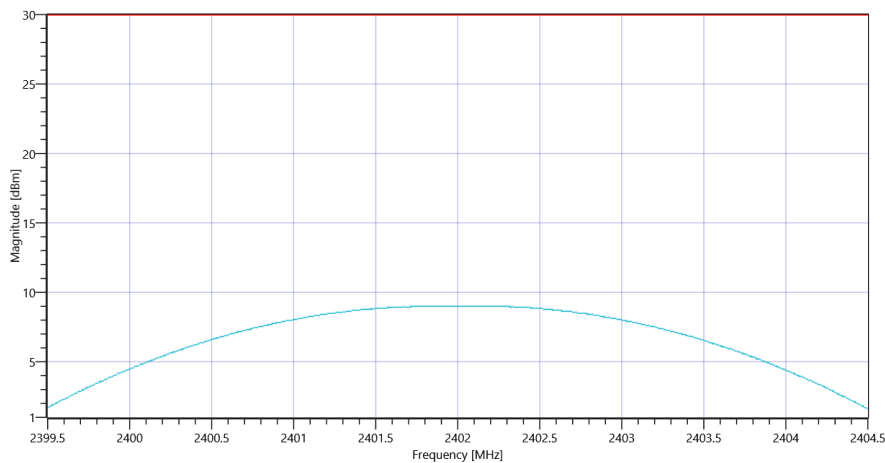
Test Parameter	
Technology to test	BT Classic Basic rate
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.89   10.79   25
Start [MHz]   Stop [MHz]	2399.500   2404.500
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	9.03	dBm	PASS
Peak Power	---	1000	7.998343	mW	PASS
Frequency at Peak	---	---	2402.02	MHz	Information



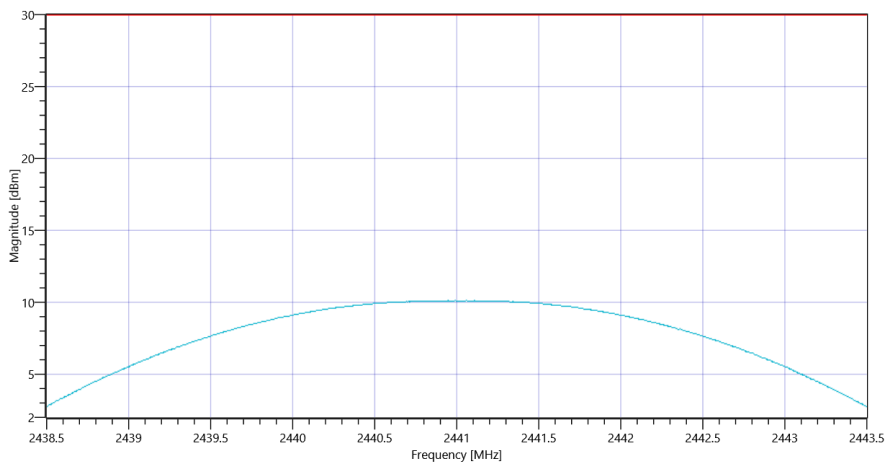
Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate\_05102020\_174258.png

## Test at TX 2441 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	19.96   10.8   25
Start [MHz]   Stop [MHz]	2438.500   2443.500
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	10.12	dBm	PASS
Peak Power	---	1000	10.280163	mW	PASS
Frequency at Peak	---	---	2440.99	MHz	Information



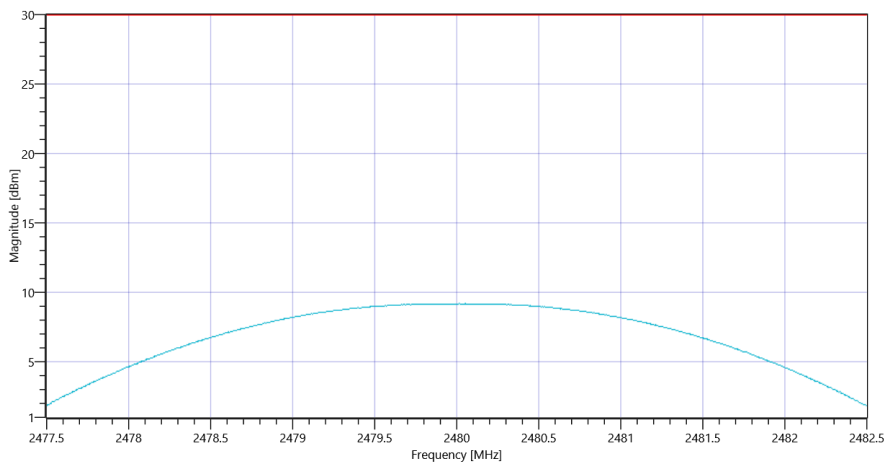
Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate\_05102020\_174323.png

## Test at TX 2480 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	19.01   10.85   25
Start [MHz]   Stop [MHz]	2477.500   2482.500
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	9.19	dBm	PASS
Peak Power	---	1000	8.298508	mW	PASS
Frequency at Peak	---	---	2480.015	MHz	Information



Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic Basic rate\_05102020\_174349.png

TEST FINISHED		
General Verdict	05.10.2020 17:43:50 / RT: 82 s	PASS

## 2. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi/4DQPSK

Test References	
TC Start	05.10.2020 18:05:05
Ambit Temp [°C]   Humidity [rel%]	23.3   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR Pi/4DQPSK
Add. Information	

Test Parameter	
Technology to test	BT Classic EDR Pi/4DQPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

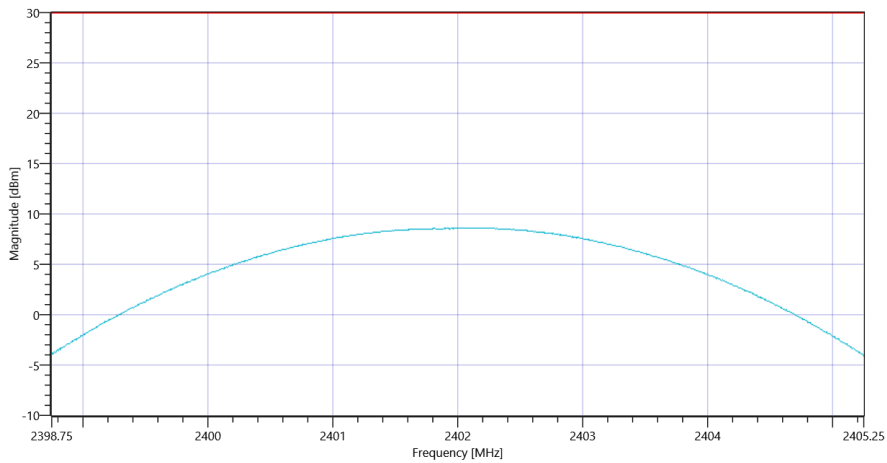


## Test at TX 2402 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.68   10.79   25
Start [MHz]   Stop [MHz]	2398.750   2405.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	8.61	dBm	PASS
Peak Power	---	1000	7.26106	mW	PASS
Frequency at Peak	---	---	2402.11	MHz	Information



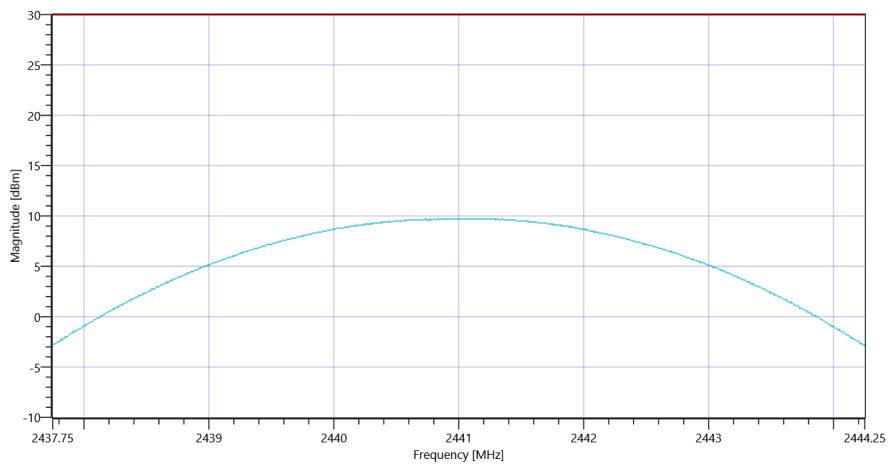
Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi-4DQPSK\_05102020\_180535.png

## Test at TX 2441 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.31   10.8   25
Start [MHz]   Stop [MHz]	2437.750   2444.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	9.73	dBm	PASS
Peak Power	---	1000	9.397233	mW	PASS
Frequency at Peak	---	---	2441.13	MHz	Information



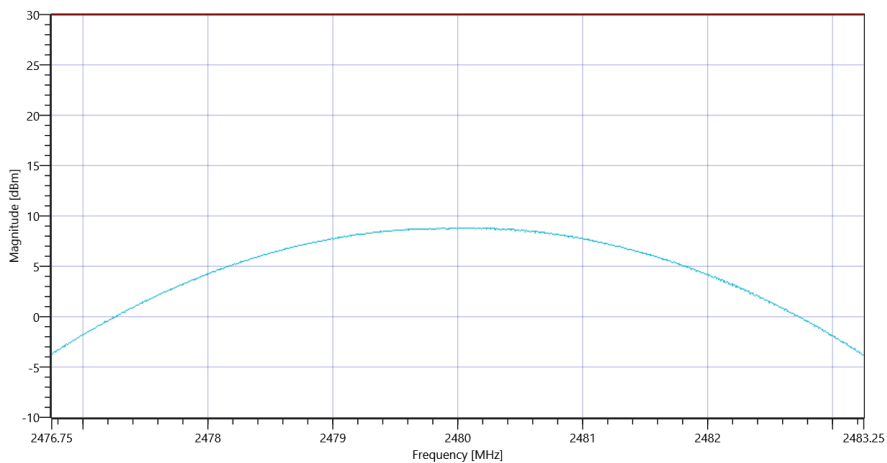
Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi-4DQPSK\_05102020\_180601.png

## Test at TX 2480 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.94   10.85   25
Start [MHz]   Stop [MHz]	2476.750   2483.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	8.8	dBm	PASS
Peak Power	---	1000	7.585776	mW	PASS
Frequency at Peak	---	---	2480.13	MHz	Information



Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR Pi-4DQPSK\_05102020\_180627.png

TEST FINISHED		
General Verdict	05.10.2020 18:06:27 / RT: 82 s	PASS

### 3. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK

Test References	
TC Start	05.10.2020 18:27:42
Ambit Temp [°C]   Humidity [rel%]	23.8   41
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR 8DPSK
Add. Information	

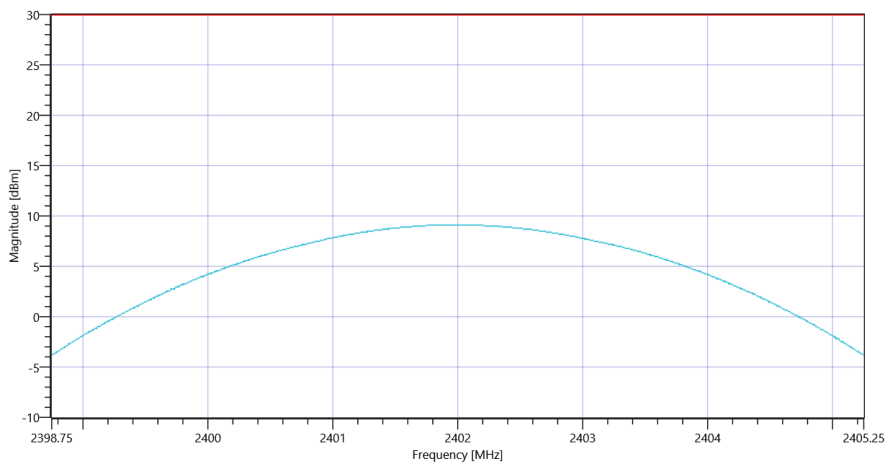
Test Parameter	
Technology to test	BT Classic EDR 8DPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.67   10.79   25
Start [MHz]   Stop [MHz]	2398.750   2405.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	9.12	dBm	PASS
Peak Power	---	1000	8.165824	mW	PASS
Frequency at Peak	---	---	2401.929	MHz	Information



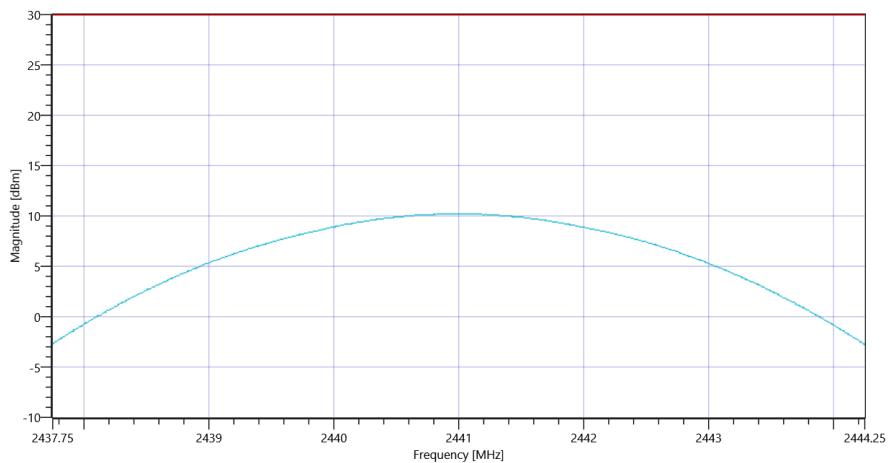
Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK\_05102020\_182813.png

## Test at TX 2441 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	18.51   10.8   25
Start [MHz]   Stop [MHz]	2437.750   2444.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	10.22	dBm	PASS
Peak Power	---	1000	10.519619	mW	PASS
Frequency at Peak	---	---	2440.98	MHz	Information



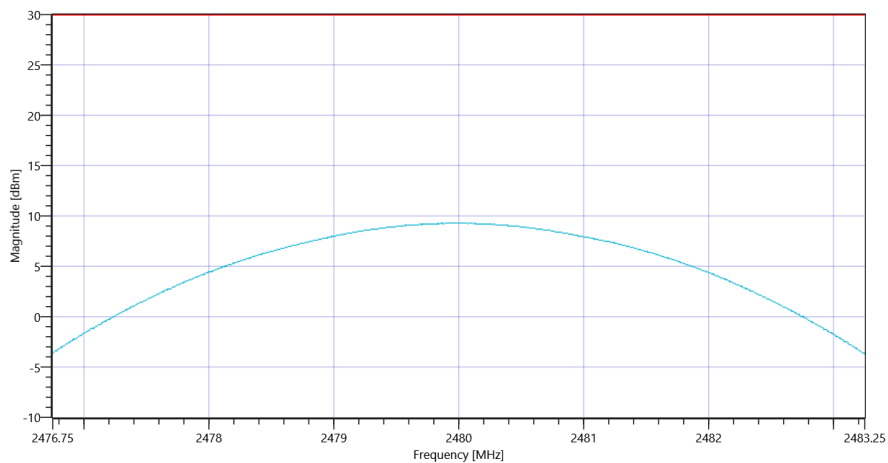
Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK\_05102020\_182839.png

## Test at TX 2480 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	17.62   10.85   25
Start [MHz]   Stop [MHz]	2476.750   2483.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1000   10   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	9.28	dBm	PASS
Peak Power	---	1000	8.472274	mW	PASS
Frequency at Peak	---	---	2479.974	MHz	Information



Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ BT Classic EDR 8DPSK\_05102020\_182905.png

TEST FINISHED		
General Verdict	05.10.2020 18:29:06 / RT: 83 s	PASS

## 4. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate

Test References	
TC Start	05.10.2020 17:46:47
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic Basic Rate
Add. Information	

Test Parameter	
Technology to test	BT Classic Basic rate
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

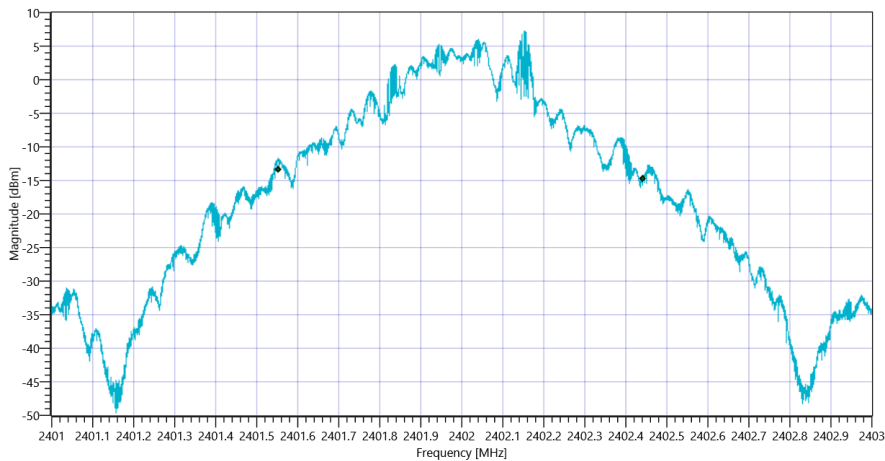


## Test at TX 2402 MHz

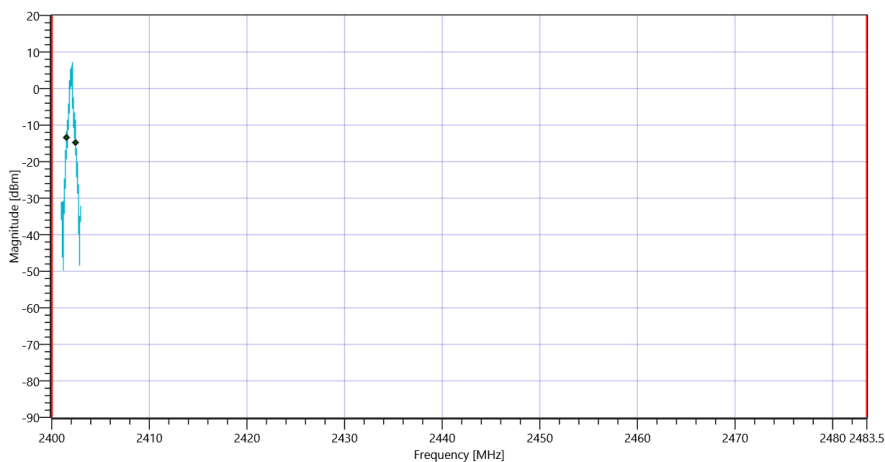
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:					
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]			14.02   10.79   20		
Start [MHz]   Stop [MHz]			2401.000   2403.000		
RBW [MHz]   VBW [MHz]			0.020000   0.100000		
Detector   TraceMode			POS   MAXH		
Sweep: Time [ms]   Count   Points per Section   Type			50   200   10001   SWE		

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	888	kHz	INFO
T1 99%	2400.000000	---	2401.5538	MHz	PASS
T2 99%	---	2483.500000	2402.4418	MHz	PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 99PCT\_05102020\_174719.png



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate\_05102020\_174723.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	911	kHz	INFO
T1 20DB	2400.000000	---	2401.5450	MHz	PASS

T2 20dB

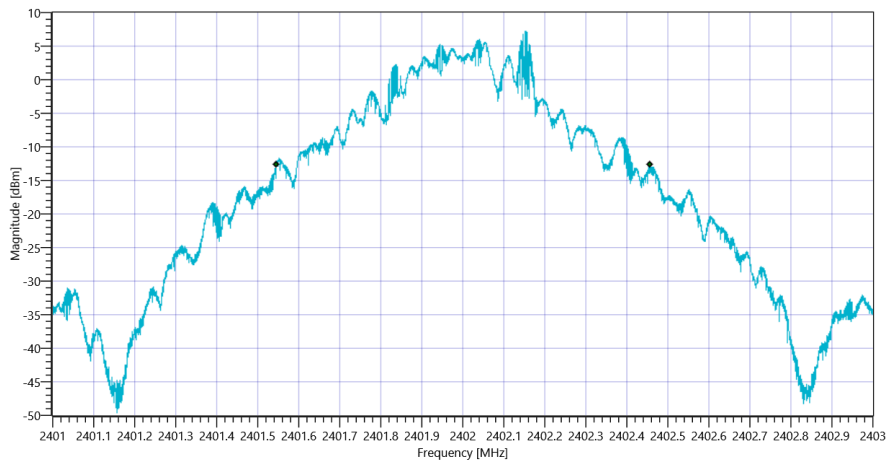
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2483.50000

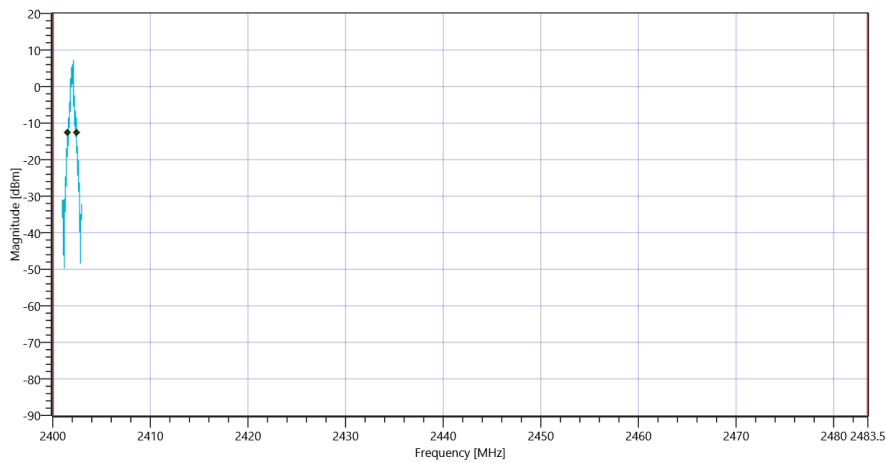
2402.4564

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 20dB\_05102020\_174728.png



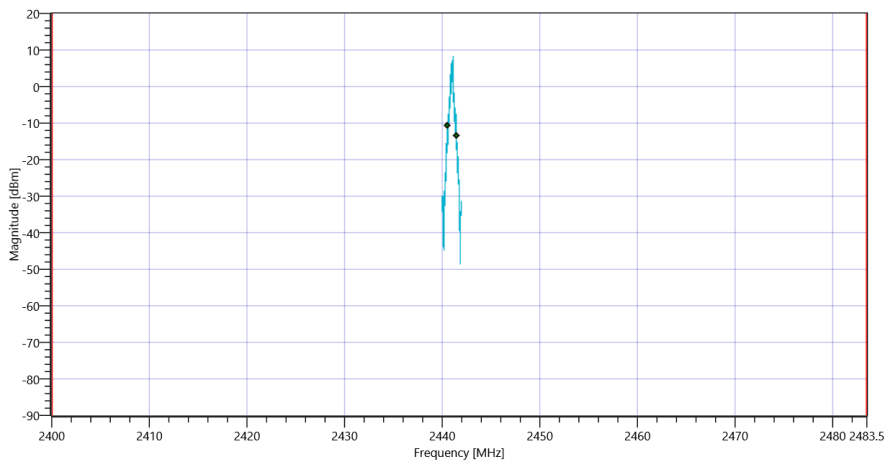
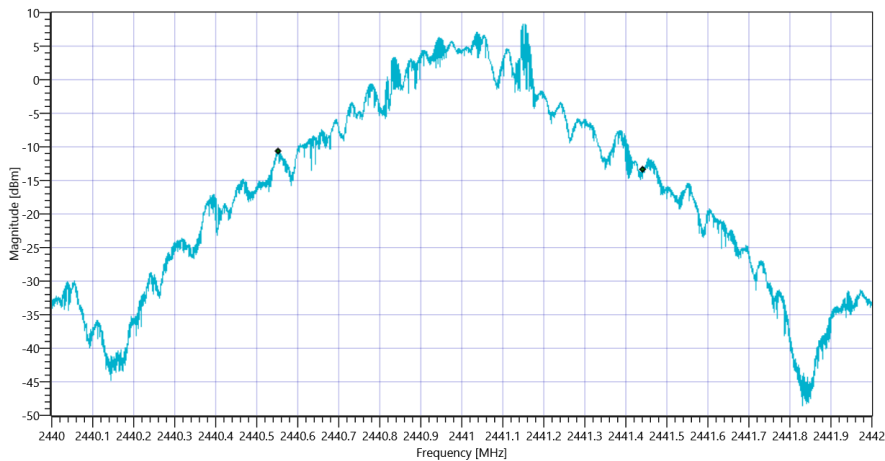
Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate\_05102020\_174731.png

## Test at TX 2441 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:					
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.05   10.8   20				
Start [MHz]   Stop [MHz]	2440.000   2442.000				
RBW [MHz]   VBW [MHz]	0.020000   0.100000				
Detector   TraceMode	POS   MAXH				
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE				

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	890	kHz	INFO
T1 99%	2400.000000	---	2440.5530	MHz	PASS
T2 99%	---	2483.500000	2441.4430	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	911	kHz	INFO
T1 20DB	2400.000000	---	2440.5450	MHz	PASS

T2 20dB

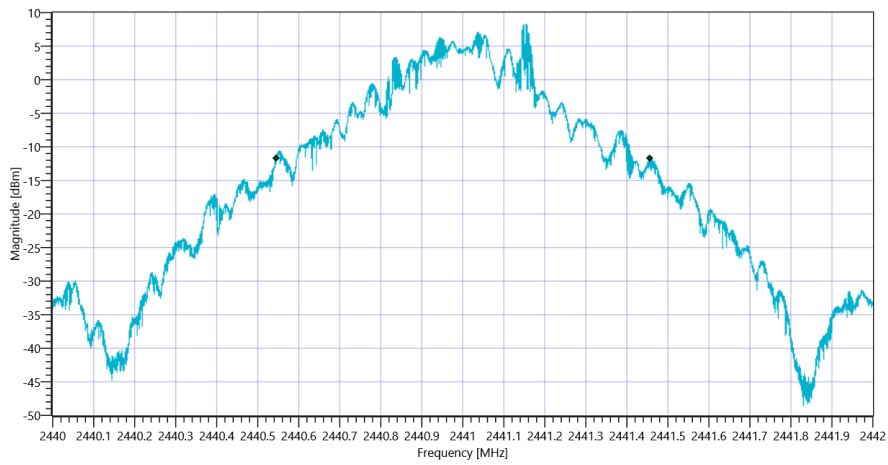
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2483.50000

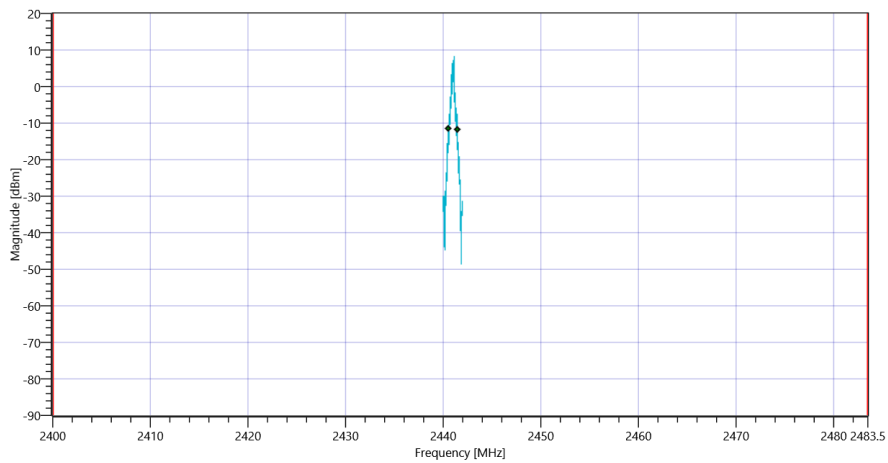
2441.4556

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 20dB\_05102020\_174807.png



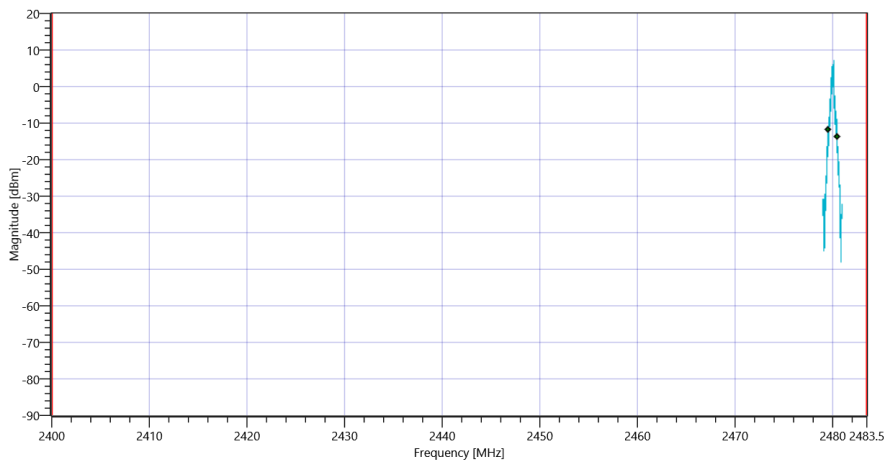
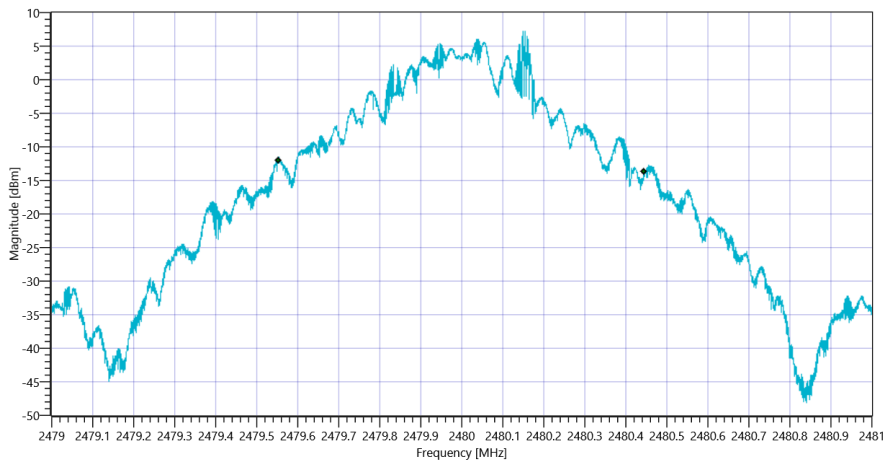
Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate\_05102020\_174811.png

## Test at TX 2480 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:					
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.08   10.85   20				
Start [MHz]   Stop [MHz]	2479.000   2481.000				
RBW [MHz]   VBW [MHz]	0.020000   0.100000				
Detector   TraceMode	POS   MAXH				
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE				

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	892	kHz	INFO
T1 99%	2400.000000	---	2479.5522	MHz	PASS
T2 99%	---	2483.500000	2480.4444	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	865	kHz	INFO
T1 20DB	2400.000000	---	2479.5442	MHz	PASS

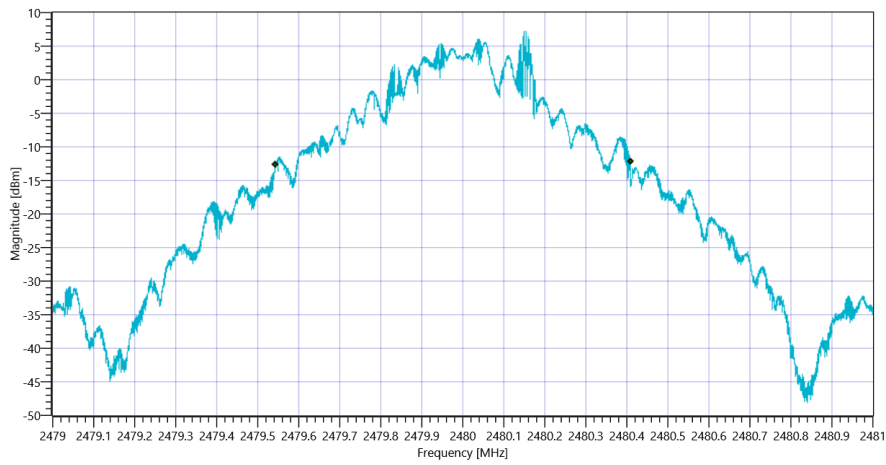
T2 20dB

2483.50000

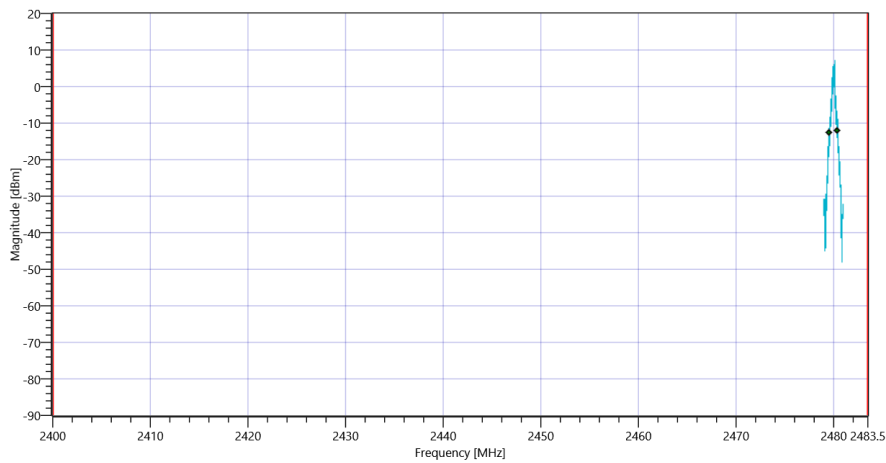
2480.4088

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate 20dB\_05102020\_174848.png



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic Basic rate\_05102020\_174851.png

TEST FINISHED

General Verdict

05.10.2020 17:48:52 / RT: 124 s

PASS

## 5. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi/4DQPSK

Test References	
TC Start	05.10.2020 18:09:24
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR Pi/4DQPSK
Add. Information	

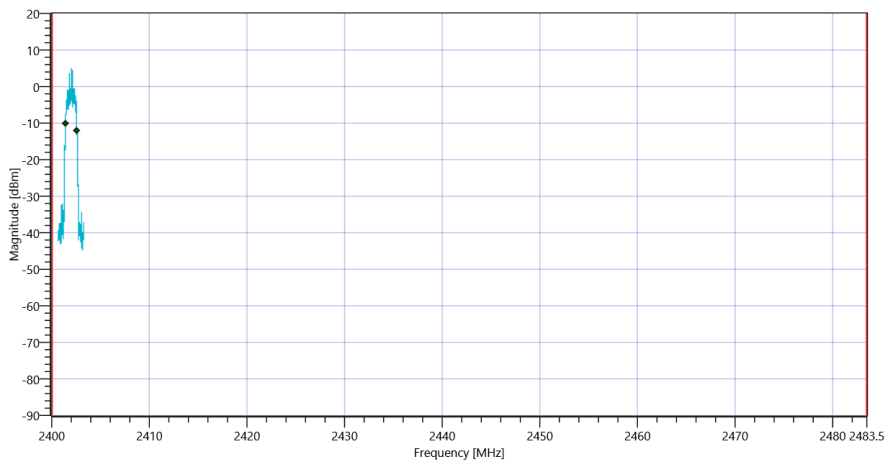
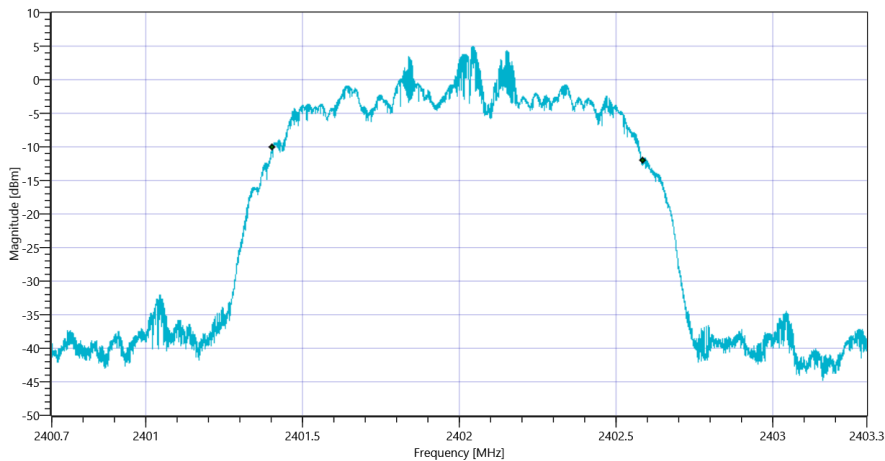
Test Parameter	
Technology to test	BT Classic EDR Pi/4DQPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	12.60   10.79   20
Start [MHz]   Stop [MHz]	2400.700   2403.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1181	kHz	INFO
T1 99%	2400.000000	---	2401.4057	MHz	PASS
T2 99%	---	2483.500000	2402.5870	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1277	kHz	INFO
T1 20DB	2400.000000	---	2401.3666	MHz	PASS



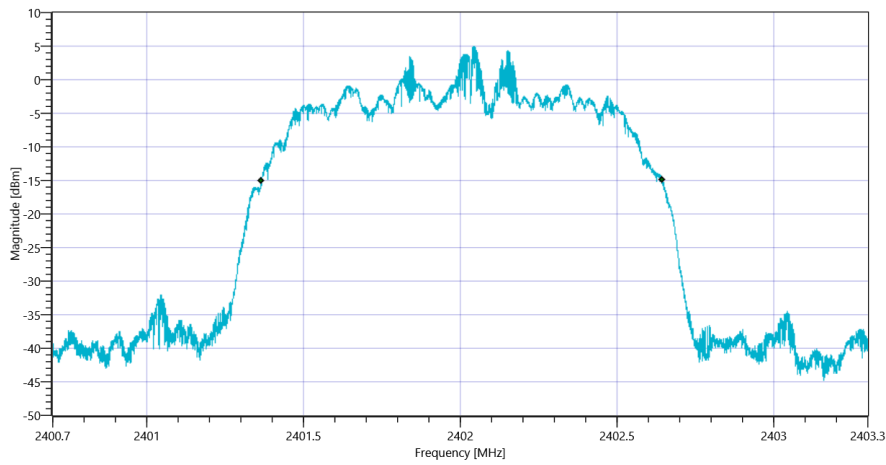
T2 20dB

2483.50000

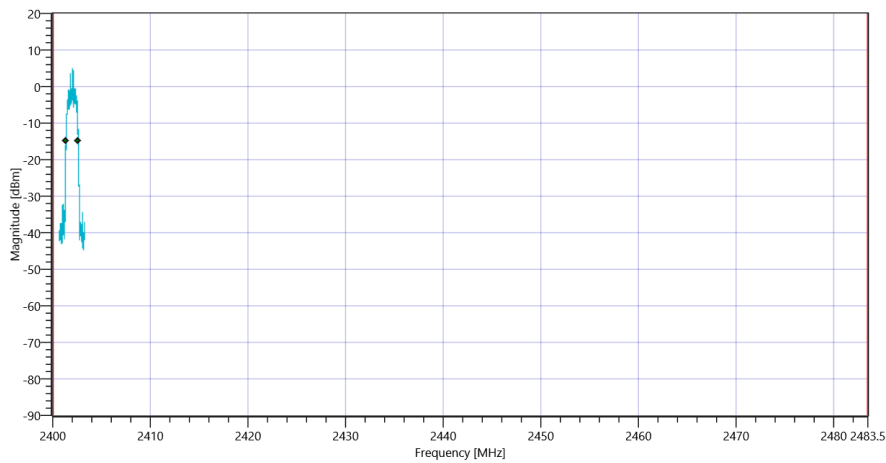
2402.6438

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 20dB\_05102020\_181006.png



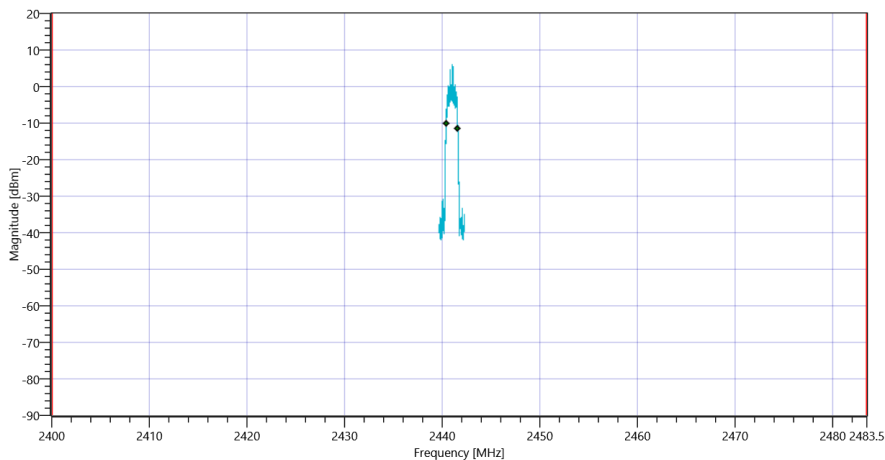
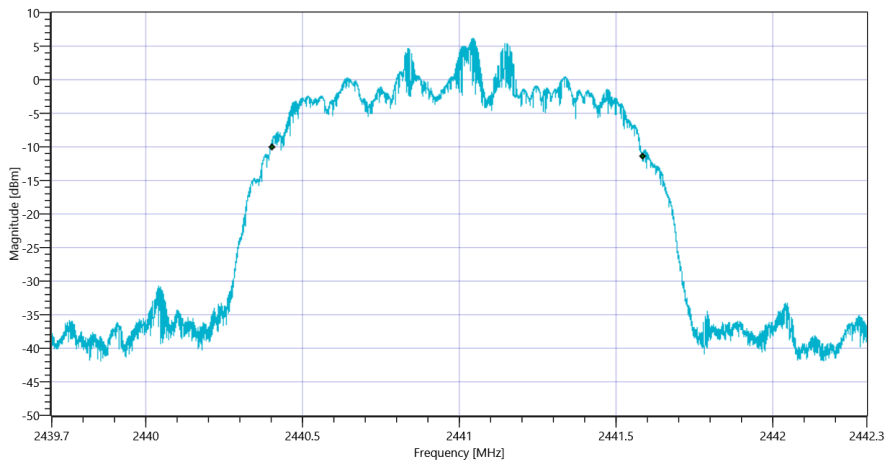
Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK\_05102020\_181009.png

## Test at TX 2441 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	13.82   10.8   20
Start [MHz]   Stop [MHz]	2439.700   2442.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1181	kHz	INFO
T1 99%	2400.000000	---	2440.4054	MHz	PASS
T2 99%	---	2483.500000	2441.5862	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1278	kHz	INFO
T1 20DB	2400.000000	---	2440.3666	MHz	PASS

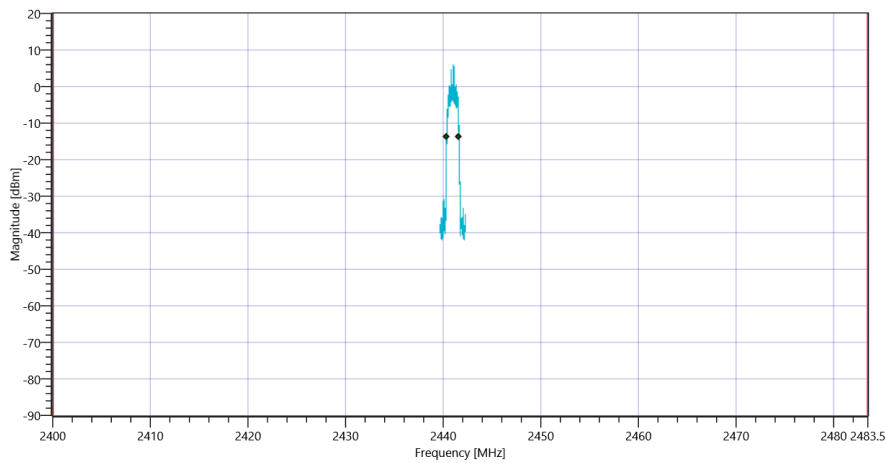
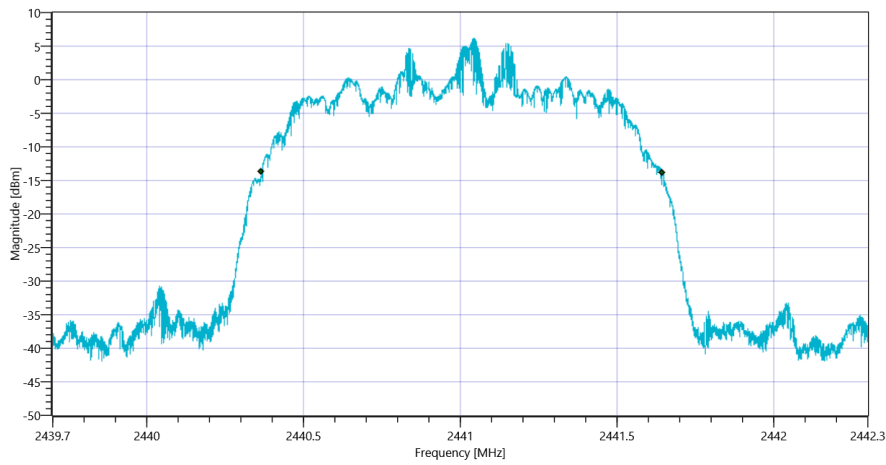
T2 20dB

2483.50000

2441.6451

MHz

PASS

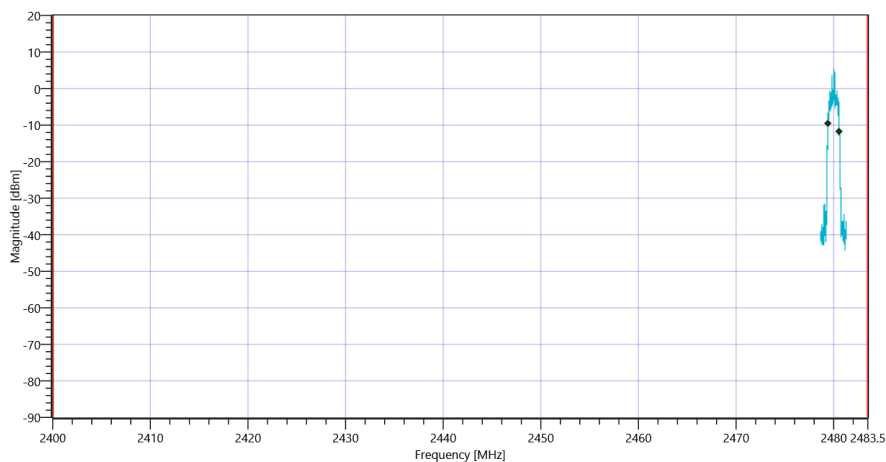
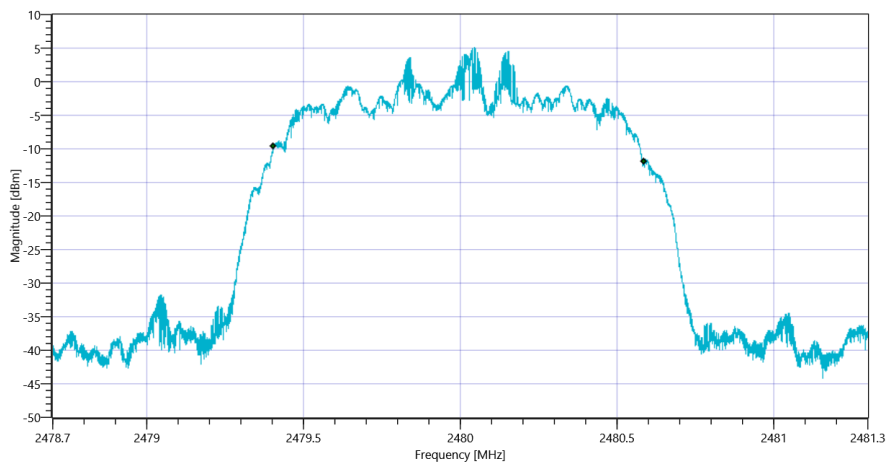


## Test at TX 2480 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:					
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]			12.51   10.85   20		
Start [MHz]   Stop [MHz]			2478.700   2481.300		
RBW [MHz]   VBW [MHz]			0.030000   0.100000		
Detector   TraceMode			POS   MAXH		
Sweep: Time [ms]   Count   Points per Section   Type			50   200   10001   SWE		

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1182	kHz	INFO
T1 99%	2400.000000	---	2479.4049	MHz	PASS
T2 99%	---	2483.500000	2480.5868	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1279	kHz	INFO
T1 20DB	2400.000000	---	2479.3666	MHz	PASS

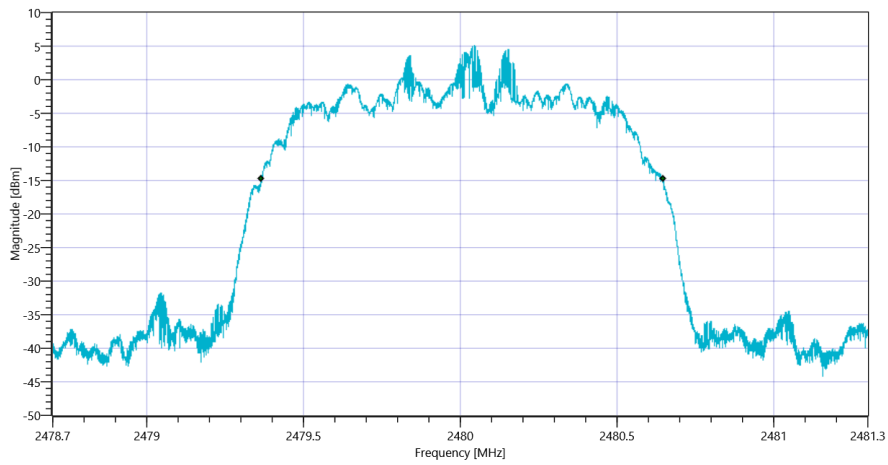
T2 20dB

2483.50000

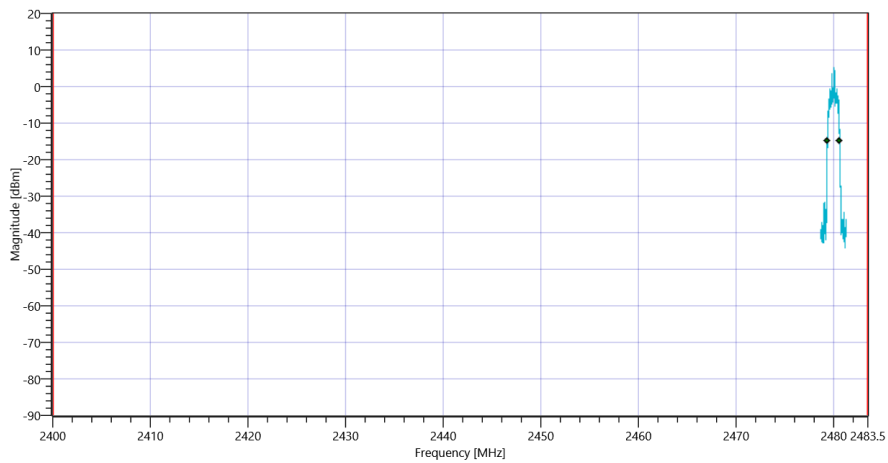
2480.6461

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK 20dB\_05102020\_181126.png



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR Pi-4DQPSK\_05102020\_181129.png

TEST FINISHED

General Verdict

05.10.2020 18:11:30 / RT: 125 s

PASS

## 6. FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK

Test References	
TC Start	05.10.2020 18:32:04
Ambit Temp [°C]   Humidity [rel%]	23.8   41
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR 8DPSK
Add. Information	

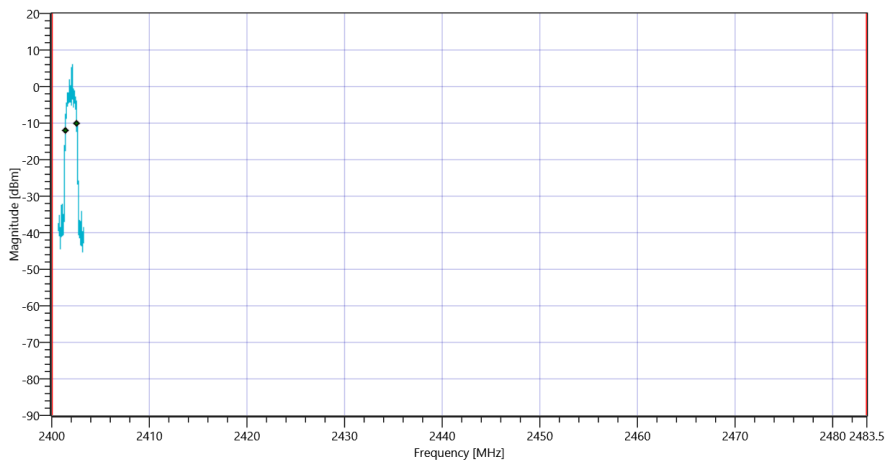
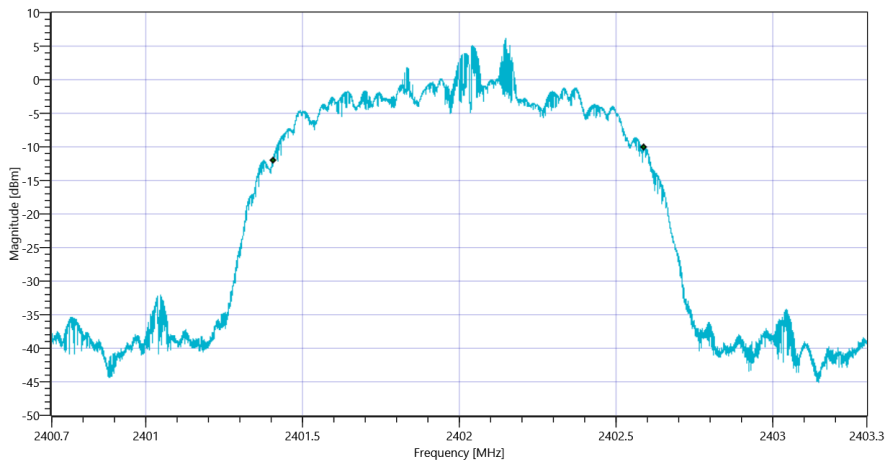
Test Parameter	
Technology to test	BT Classic EDR 8DPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	12.64   10.79   20
Start [MHz]   Stop [MHz]	2400.700   2403.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1183	kHz	INFO
T1 99%	2400.000000	---	2401.4067	MHz	PASS
T2 99%	---	2483.500000	2402.5899	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1264	kHz	INFO
T1 20DB	2400.000000	---	2401.3599	MHz	PASS

T2 20dB

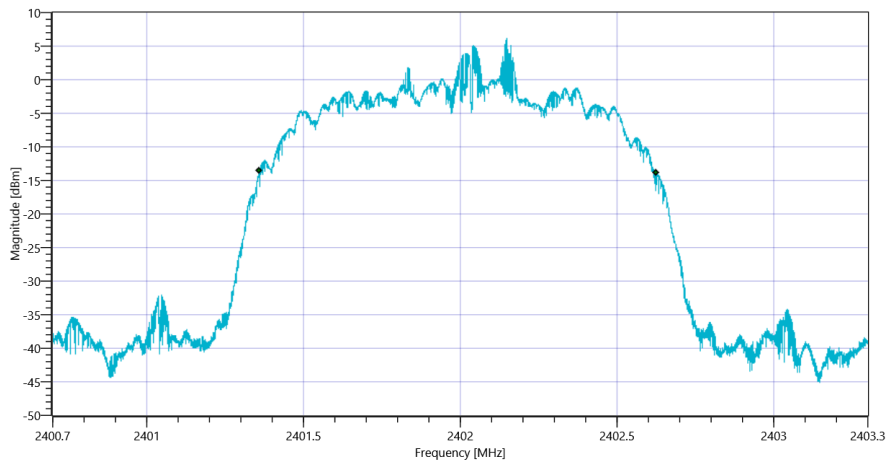
--

2483.50000

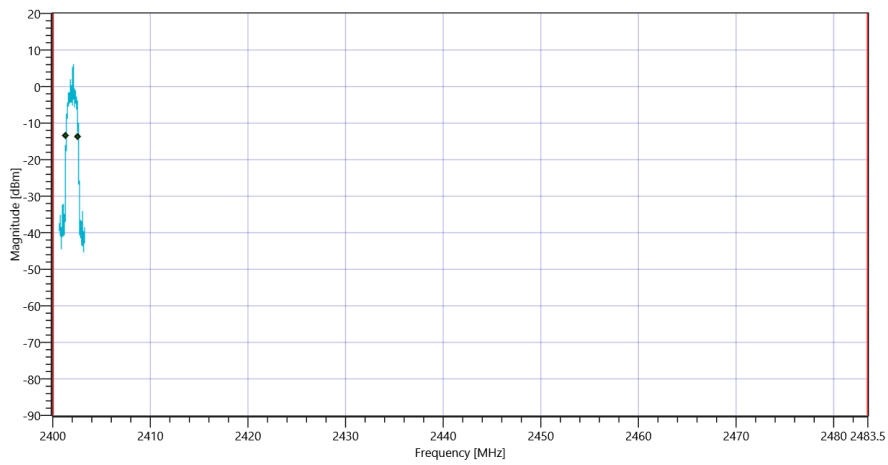
2402.6235

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 20dB\_05102020\_183246.png



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK\_05102020\_183249.png

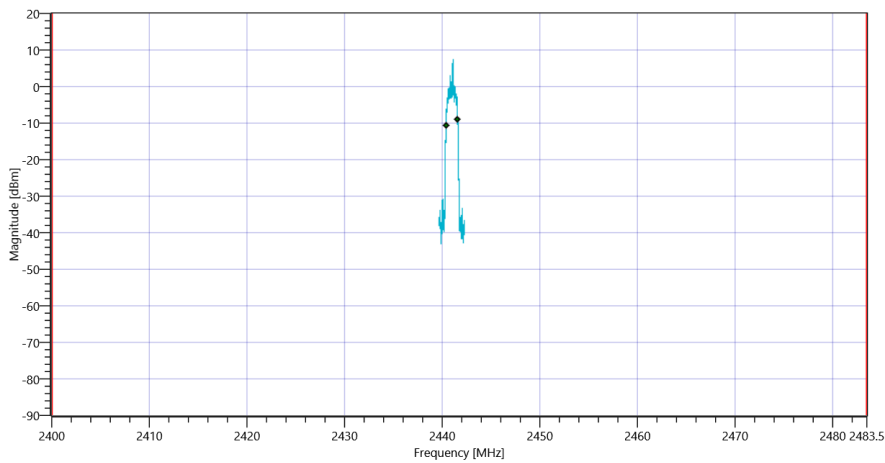
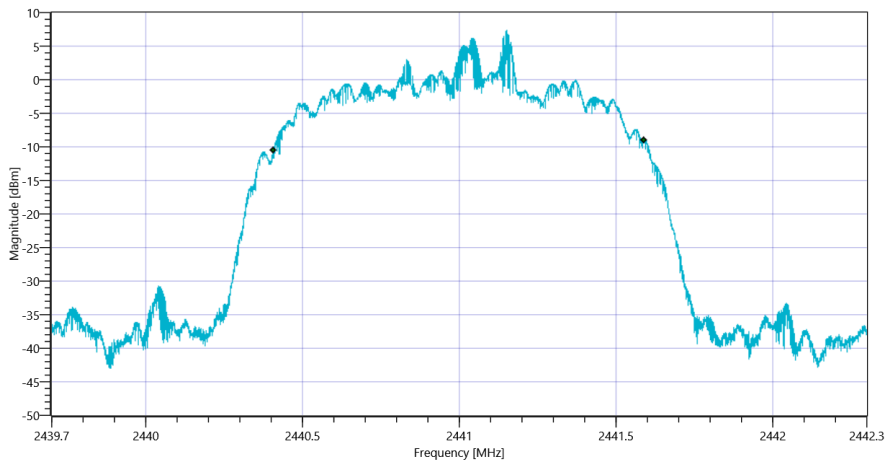


## Test at TX 2441 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	13.56   10.8   20
Start [MHz]   Stop [MHz]	2439.700   2442.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	50   200   10001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1182	kHz	INFO
T1 99%	2400.000000	---	2440.4070	MHz	PASS
T2 99%	---	2483.500000	2441.5891	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1265	kHz	INFO
T1 20DB	2400.000000	---	2440.3581	MHz	PASS

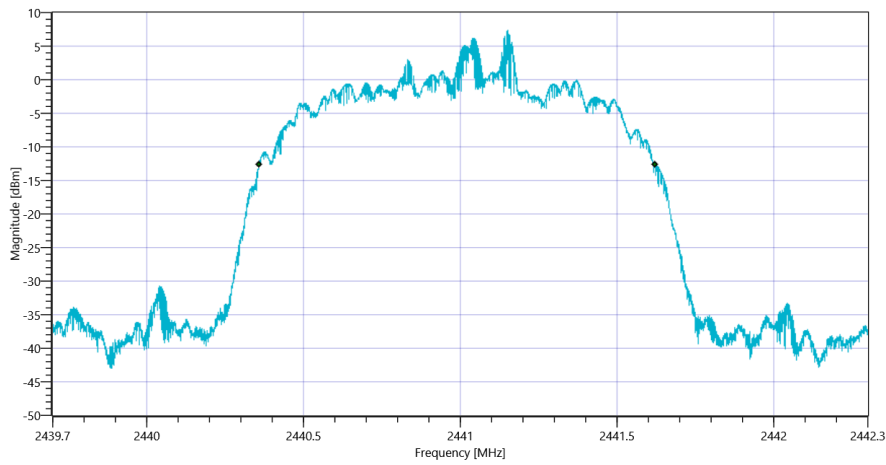
T2 20dB

2483.50000

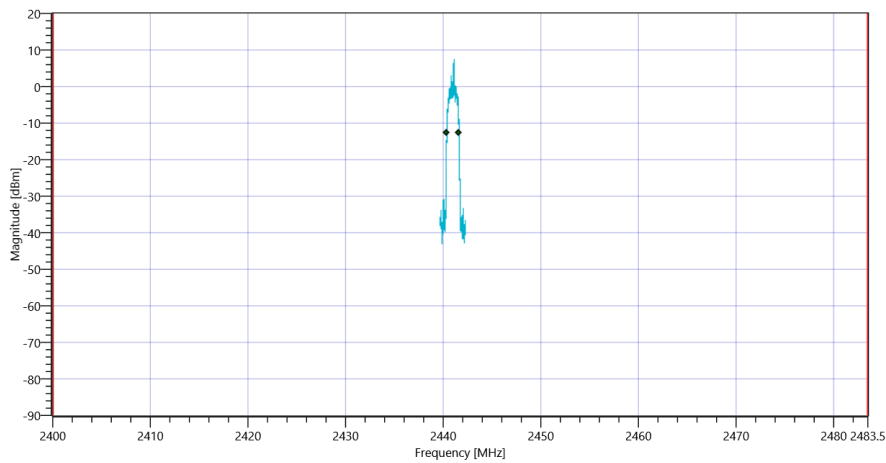
2441.6232

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK\_05102020\_183326.png



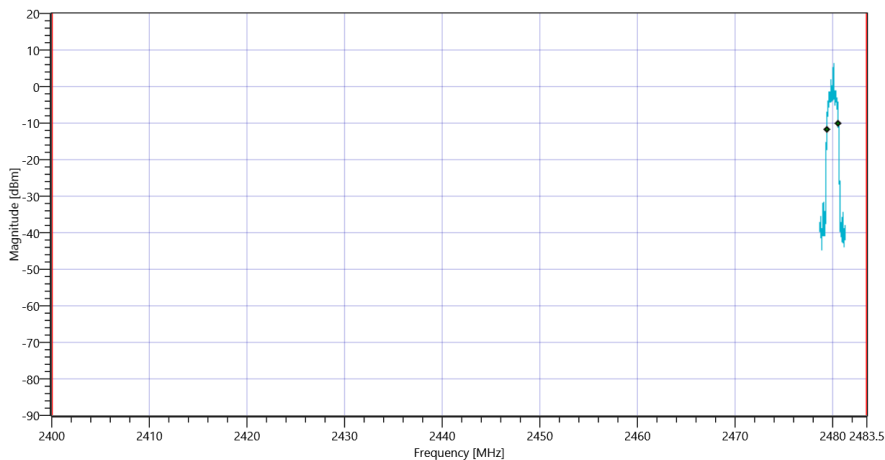
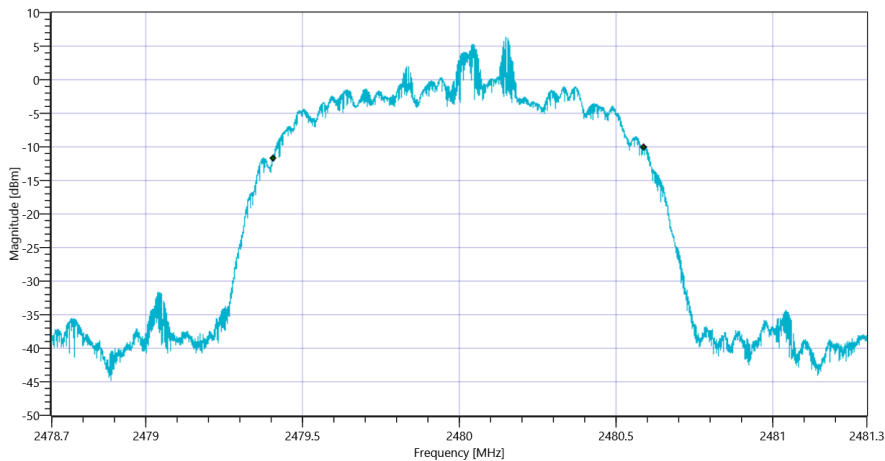
Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK\_05102020\_183329.png

## Test at TX 2480 MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:					
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]			12.69   10.85   20		
Start [MHz]   Stop [MHz]			2478.700   2481.300		
RBW [MHz]   VBW [MHz]			0.030000   0.100000		
Detector   TraceMode			POS   MAXH		
Sweep: Time [ms]   Count   Points per Section   Type			50   200   10001   SWE		

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1182	kHz	INFO
T1 99%	2400.000000	---	2479.4065	MHz	PASS
T2 99%	---	2483.500000	2480.5883	MHz	PASS



RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1266	kHz	INFO
T1 20DB	2400.000000	---	2479.3578	MHz	PASS

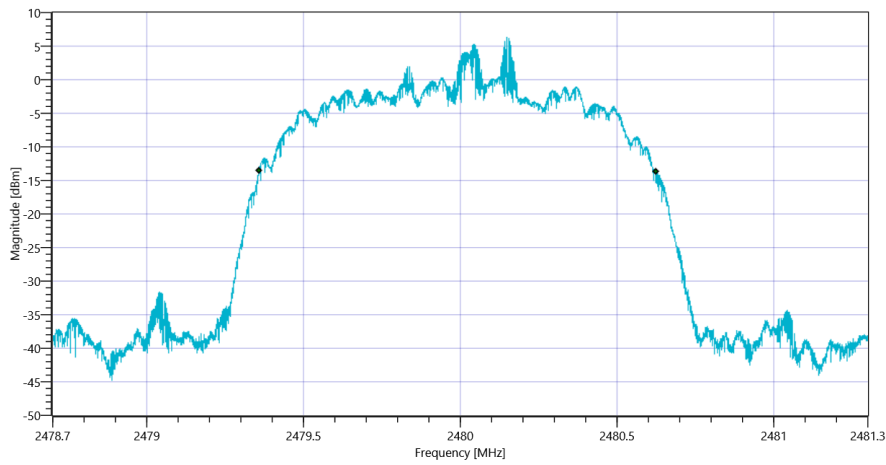
T2 20dB

2483.50000

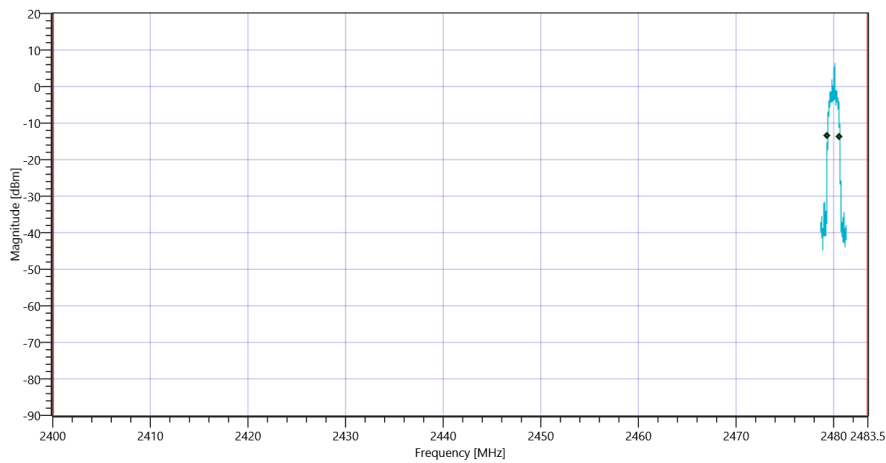
2480.6243

MHz

PASS



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK 20dB\_05102020\_183406.png



Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT Classic EDR 8DPSK\_05102020\_183410.png

TEST FINISHED

General Verdict

05.10.2020 18:34:11 / RT: 126 s

PASS

## 7. FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate

Test References	
TC Start	05.10.2020 17:48:57
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic Basic Rate
Add. Information	

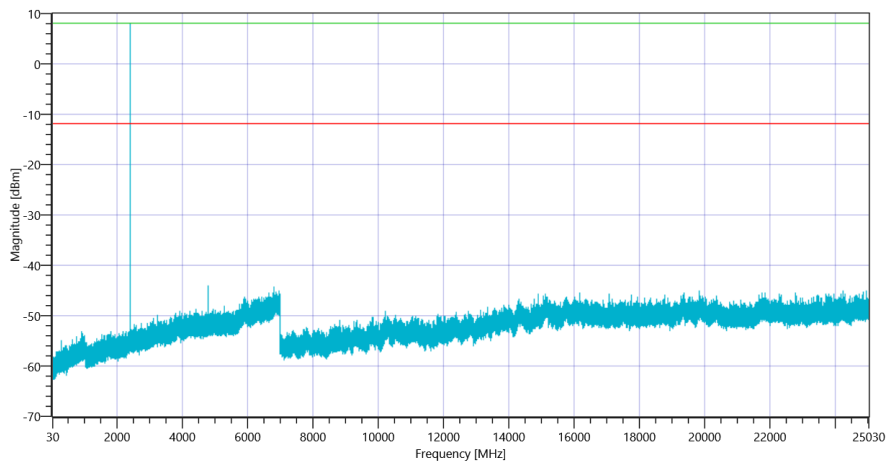
Test Parameter	
Technology to test	BT Classic Basic rate
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

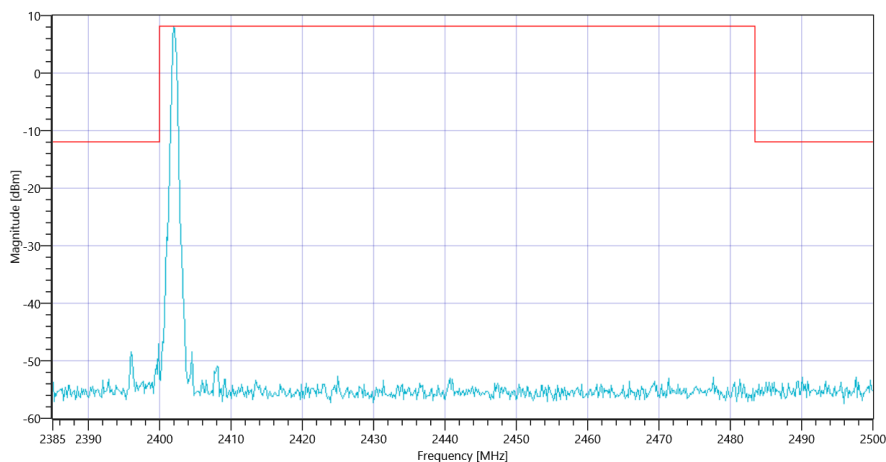
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.31   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2402.00 MHz	---	---	8.08	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 4804.333 MHz	0	---	32.27	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2402\_05102020\_175350.png



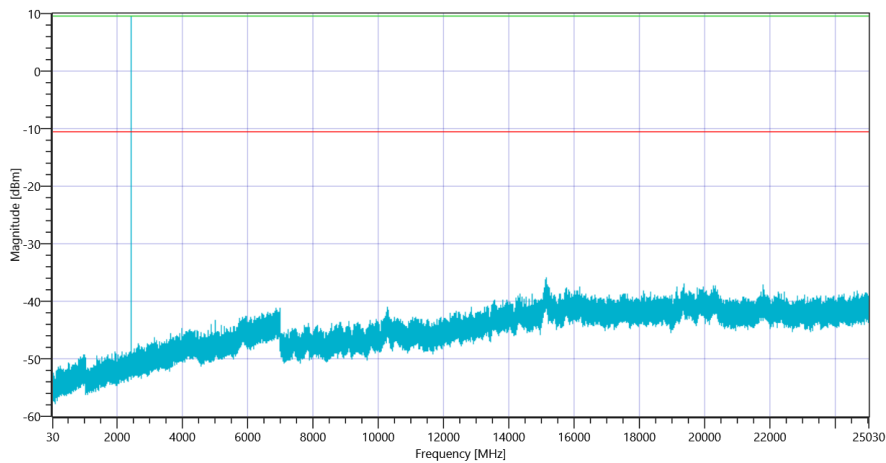
Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2402\_05102020\_175353.png

## Test at TX 2441 MHz

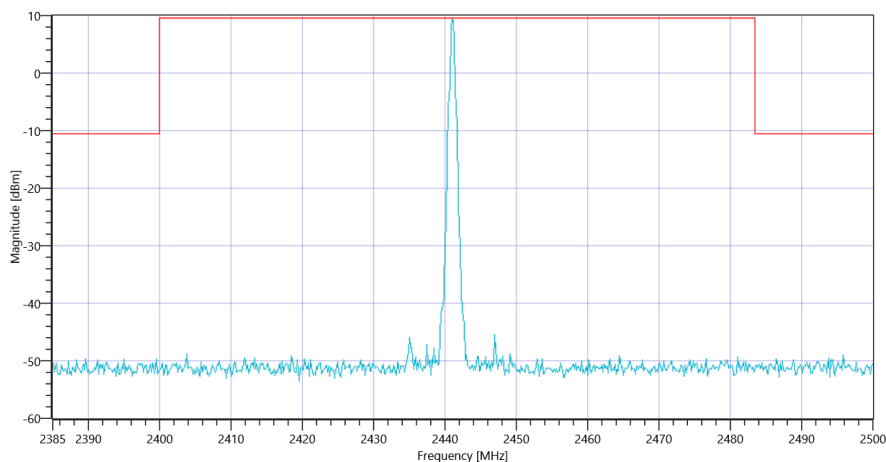
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.48   0   30
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2441.00 MHz	---	---	9.49	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 15162.667 MHz	0	---	25.5	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2441\_05102020\_175839.png



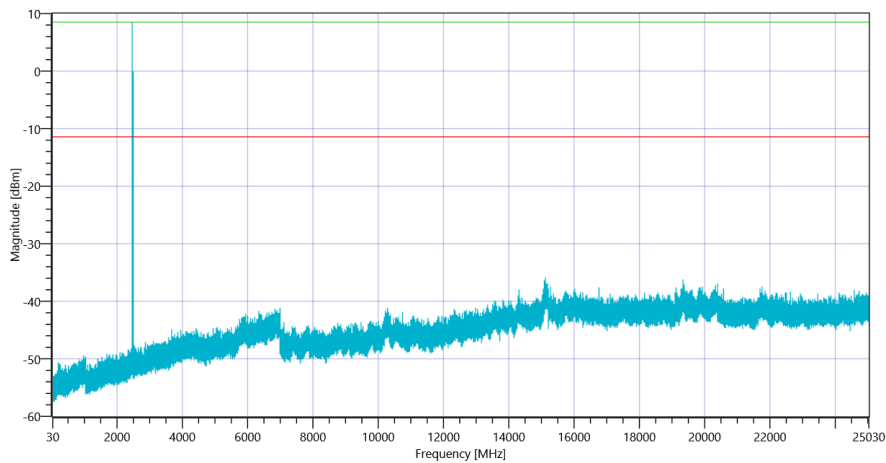
Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2441\_05102020\_175842.png

## Test at TX 2480 MHz

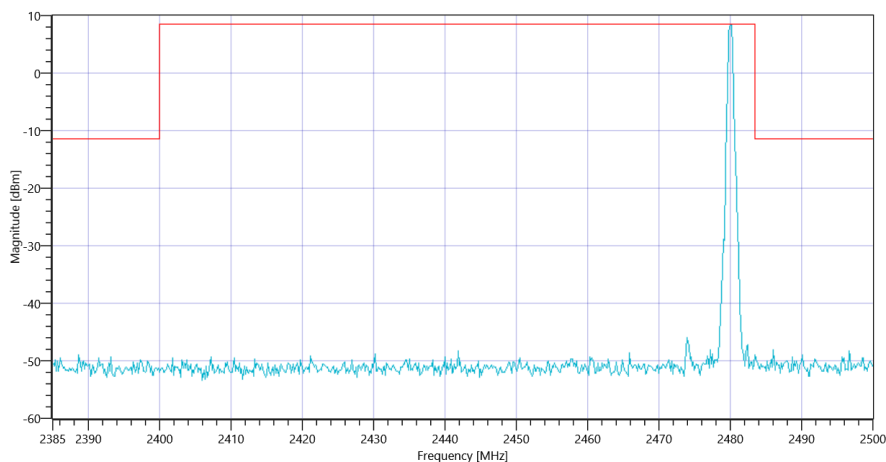
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.42   0   30
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2480.00 MHz	---	---	8.50	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 15127.167 MHz	0	---	24.49	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2480\_05102020\_180329.png



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic Basic rate 2480\_05102020\_180332.png

TEST FINISHED		
General Verdict	05.10.2020 18:03:33 / RT: 876 s	PASS



## 8. FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi/4DQPSK

Test References	
TC Start	05.10.2020 18:11:35
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR Pi/4DQPSK
Add. Information	

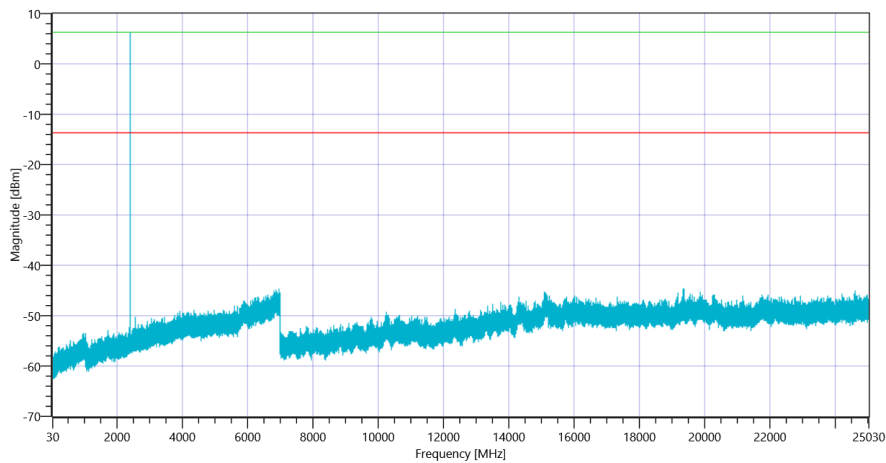
Test Parameter	
Technology to test	BT Classic EDR Pi/4DQPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

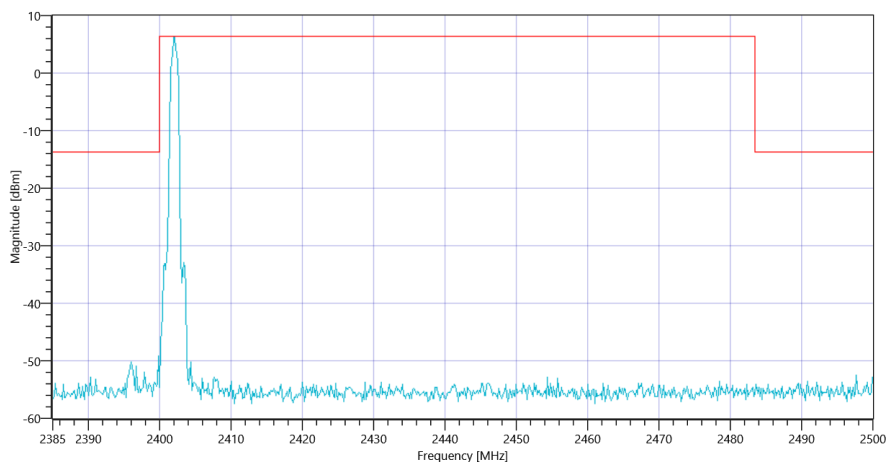
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.78   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2402.00 MHz	---	---	6.30	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 6967.833 MHz	0	---	31.04	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2402\_05102020\_181625.png



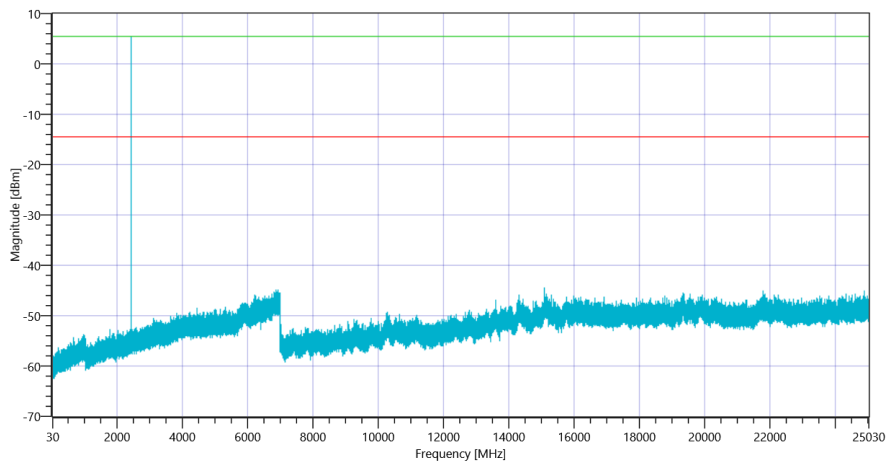
Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2402\_05102020\_181628.png

## Test at TX 2441 MHz

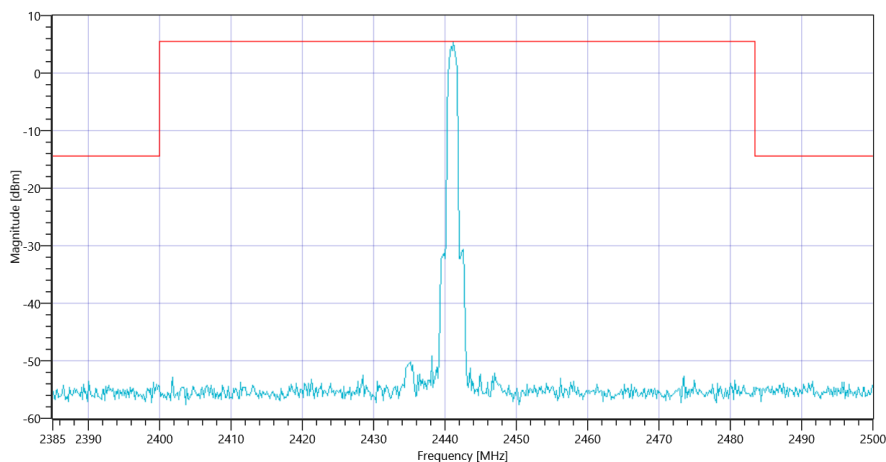
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	8.68   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2441.17 MHz	---	---	5.52	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 15088.333 MHz	0	---	30.09	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2441\_05102020\_182115.png



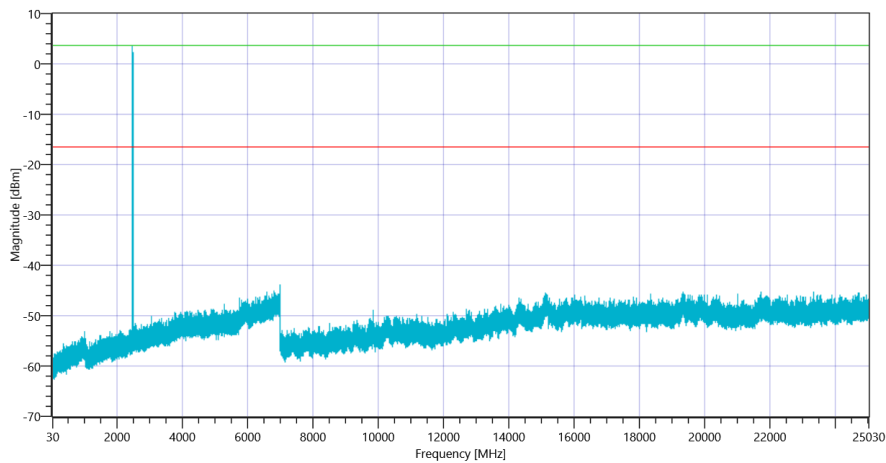
Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2441\_05102020\_182118.png

## Test at TX 2480 MHz

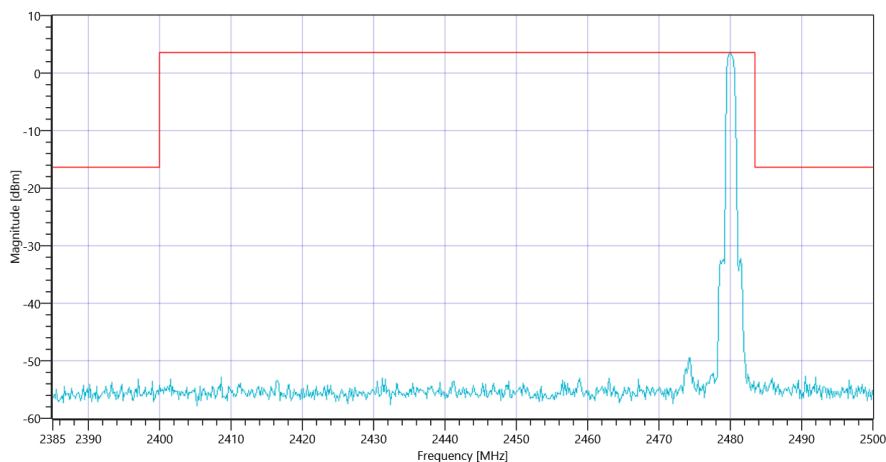
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.91   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2480.00 MHz	---	---	3.60	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 6978.333 MHz	0	---	27.49	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2480\_05102020\_182605.png



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR Pi-4QPSK 2480\_05102020\_182608.png

TEST FINISHED		
General Verdict	05.10.2020 18:26:09 / RT: 874 s	PASS

## 9. FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK

Test References	
TC Start	05.10.2020 18:34:16
Ambit Temp [°C]   Humidity [rel%]	23.8   41
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR 8DPSK
Add. Information	

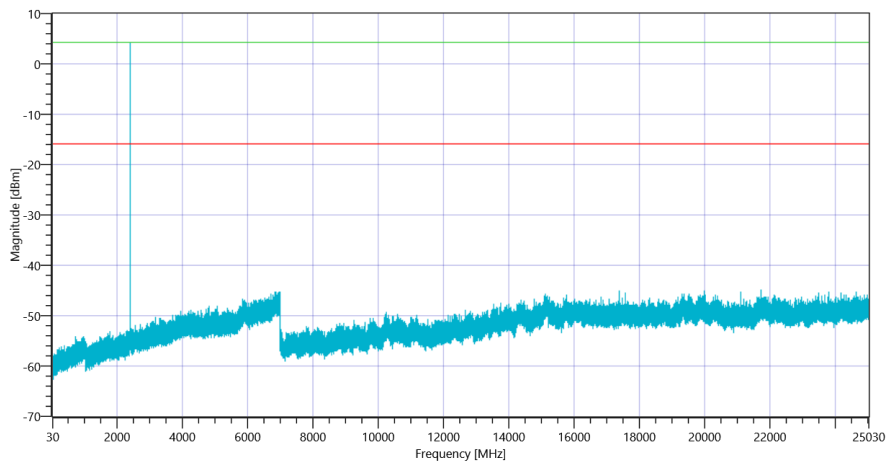
Test Parameter	
Technology to test	BT Classic EDR 8DPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX 2402 MHz

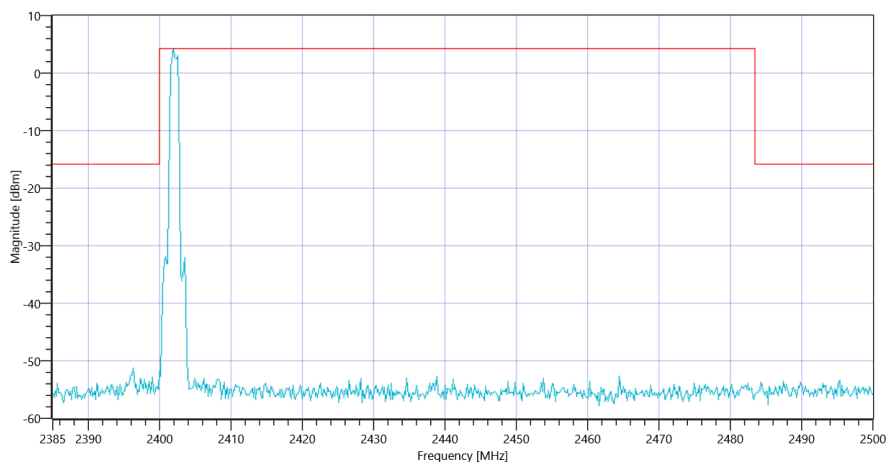
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.94   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2402.00 MHz	---	---	4.20	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 21738.167 MHz	0	---	29.03	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2402\_05102020\_183907.png



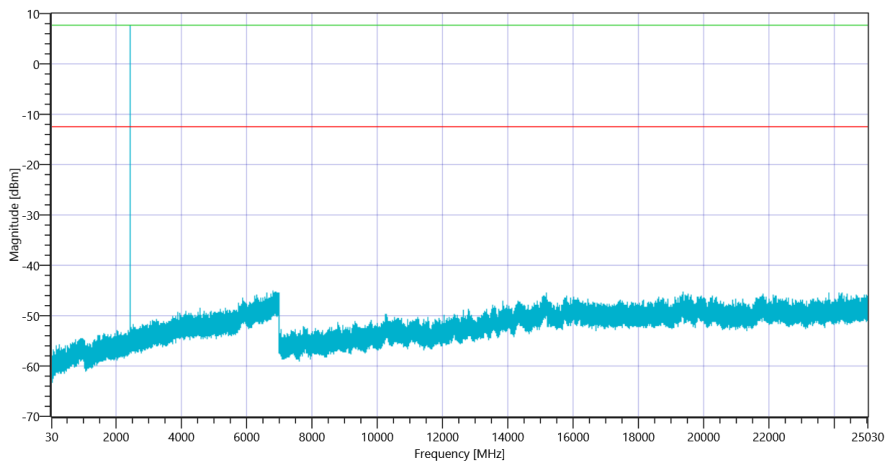
Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2402\_05102020\_183910.png

## Test at TX 2441 MHz

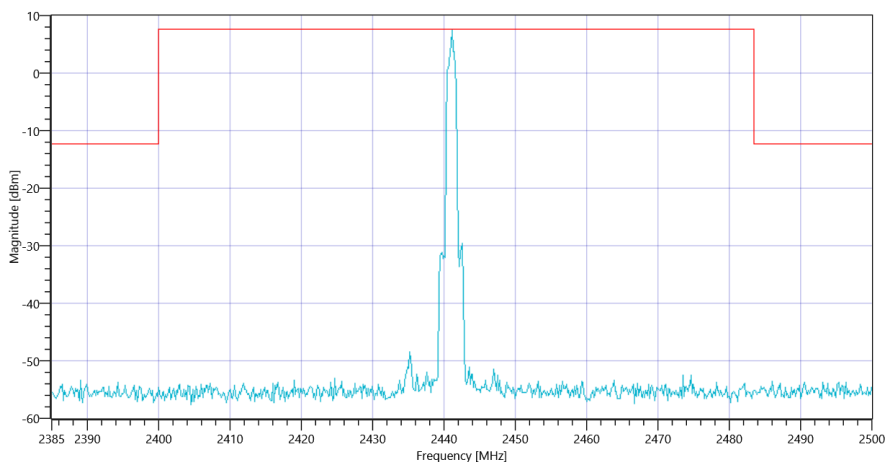
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.20   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2441.17 MHz	---	---	7.62	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 6798.667 MHz	0	---	32.8	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2441\_05102020\_184357.png



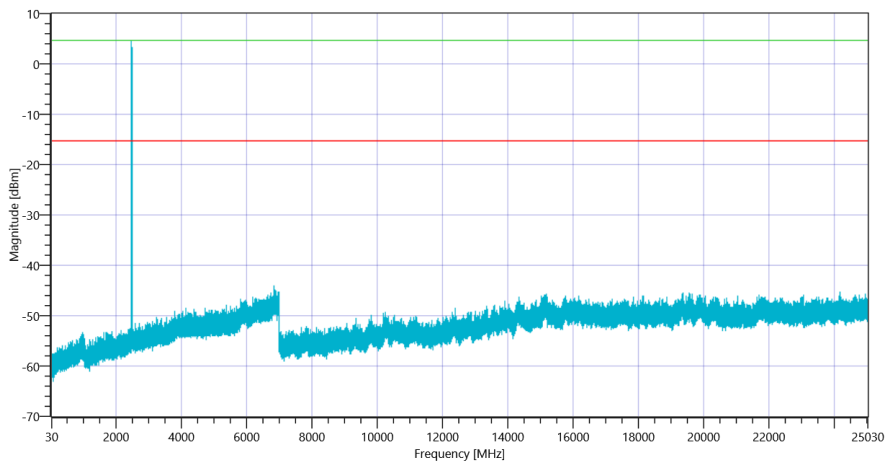
Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2441\_05102020\_184400.png

## Test at TX 2480 MHz

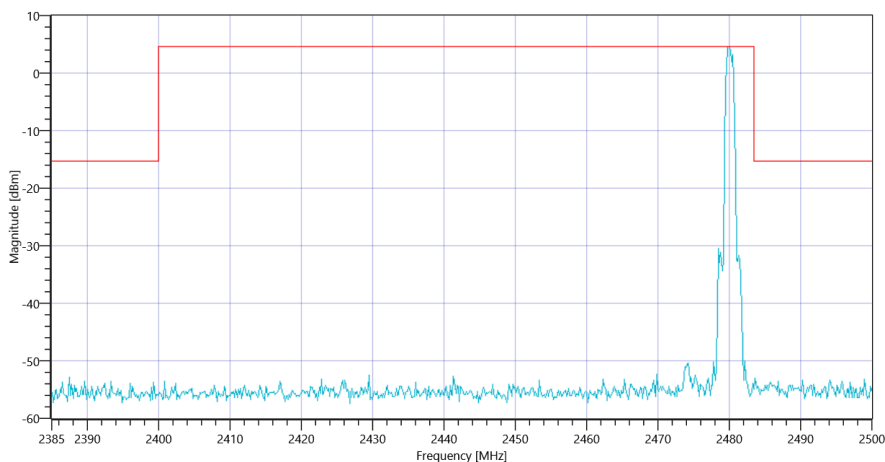
BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.70   0   25
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	500   8   3001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2480.00 MHz	---	---	4.63	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 6848.667 MHz	0	---	28.8	dB	INFO



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2480\_05102020\_184847.png



Plot\_FCC Part 15.247 TX Spurious Conducted ~ BT Classic EDR 8DPSK 2480\_05102020\_184850.png

TEST FINISHED		
General Verdict	05.10.2020 18:48:51 / RT: 875 s	PASS



## 10. FCC Part 15.247 Number Of Hopping Channels FHSS ~ BT Classic Basic rate

Test References	
TC Start	05.10.2020 17:43:54
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Number_of_hopping_channels_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Number Of Hopping Channels FHSS - BT Classic Basic Rate
Add. Information	

Test Parameter	
Technology to test	BT Classic Basic rate
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

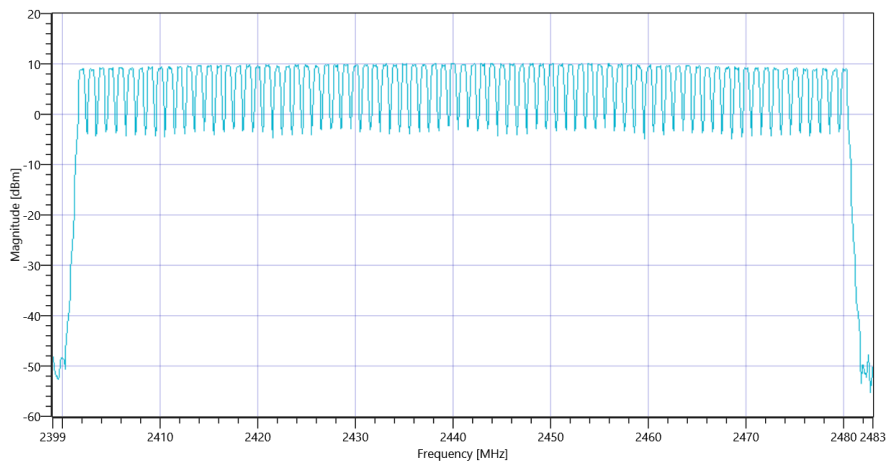
## Test at TX hopping MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.10   10.8   20
Start [MHz]   Stop [MHz]	2399.000   2483.000
RBW [MHz]   VBW [MHz]	0.200000   0.500000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   10000   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Hopp channel (rounded)	---	---	2402	MHz	Information
Hopp channel (rounded)	---	---	2403	MHz	Information
Hopp channel (rounded)	---	---	2404	MHz	Information
Hopp channel (rounded)	---	---	2405	MHz	Information
Hopp channel (rounded)	---	---	2406	MHz	Information
Hopp channel (rounded)	---	---	2407	MHz	Information
Hopp channel (rounded)	---	---	2408	MHz	Information
Hopp channel (rounded)	---	---	2409	MHz	Information
Hopp channel (rounded)	---	---	2410	MHz	Information
Hopp channel (rounded)	---	---	2411	MHz	Information
Hopp channel (rounded)	---	---	2412	MHz	Information
Hopp channel (rounded)	---	---	2413	MHz	Information
Hopp channel (rounded)	---	---	2414	MHz	Information
Hopp channel (rounded)	---	---	2415	MHz	Information
Hopp channel (rounded)	---	---	2416	MHz	Information
Hopp channel (rounded)	---	---	2417	MHz	Information
Hopp channel (rounded)	---	---	2418	MHz	Information
Hopp channel (rounded)	---	---	2419	MHz	Information
Hopp channel (rounded)	---	---	2420	MHz	Information
Hopp channel (rounded)	---	---	2421	MHz	Information
Hopp channel (rounded)	---	---	2422	MHz	Information
Hopp channel (rounded)	---	---	2423	MHz	Information
Hopp channel (rounded)	---	---	2424	MHz	Information
Hopp channel (rounded)	---	---	2425	MHz	Information
Hopp channel (rounded)	---	---	2426	MHz	Information
Hopp channel (rounded)	---	---	2427	MHz	Information
Hopp channel (rounded)	---	---	2428	MHz	Information
Hopp channel (rounded)	---	---	2429	MHz	Information
Hopp channel (rounded)	---	---	2430	MHz	Information
Hopp channel (rounded)	---	---	2431	MHz	Information
Hopp channel (rounded)	---	---	2432	MHz	Information
Hopp channel (rounded)	---	---	2433	MHz	Information
Hopp channel (rounded)	---	---	2434	MHz	Information
Hopp channel (rounded)	---	---	2435	MHz	Information
Hopp channel (rounded)	---	---	2436	MHz	Information
Hopp channel (rounded)	---	---	2437	MHz	Information
Hopp channel (rounded)	---	---	2438	MHz	Information
Hopp channel (rounded)	---	---	2439	MHz	Information
Hopp channel (rounded)	---	---	2440	MHz	Information
Hopp channel (rounded)	---	---	2441	MHz	Information
Hopp channel (rounded)	---	---	2442	MHz	Information
Hopp channel (rounded)	---	---	2443	MHz	Information

Hopp channel (rounded)	--	--	2444	MHz	Information
Hopp channel (rounded)	--	--	2445	MHz	Information
Hopp channel (rounded)	--	--	2446	MHz	Information
Hopp channel (rounded)	--	--	2447	MHz	Information
Hopp channel (rounded)	--	--	2448	MHz	Information
Hopp channel (rounded)	--	--	2449	MHz	Information
Hopp channel (rounded)	--	--	2450	MHz	Information
Hopp channel (rounded)	--	--	2451	MHz	Information
Hopp channel (rounded)	--	--	2452	MHz	Information
Hopp channel (rounded)	--	--	2453	MHz	Information
Hopp channel (rounded)	--	--	2454	MHz	Information
Hopp channel (rounded)	--	--	2455	MHz	Information
Hopp channel (rounded)	--	--	2456	MHz	Information
Hopp channel (rounded)	--	--	2457	MHz	Information
Hopp channel (rounded)	--	--	2458	MHz	Information
Hopp channel (rounded)	--	--	2459	MHz	Information
Hopp channel (rounded)	--	--	2460	MHz	Information
Hopp channel (rounded)	--	--	2461	MHz	Information
Hopp channel (rounded)	--	--	2462	MHz	Information
Hopp channel (rounded)	--	--	2463	MHz	Information
Hopp channel (rounded)	--	--	2464	MHz	Information
Hopp channel (rounded)	--	--	2465	MHz	Information
Hopp channel (rounded)	--	--	2466	MHz	Information
Hopp channel (rounded)	--	--	2467	MHz	Information
Hopp channel (rounded)	--	--	2468	MHz	Information
Hopp channel (rounded)	--	--	2469	MHz	Information
Hopp channel (rounded)	--	--	2470	MHz	Information
Hopp channel (rounded)	--	--	2471	MHz	Information
Hopp channel (rounded)	--	--	2472	MHz	Information
Hopp channel (rounded)	--	--	2473	MHz	Information
Hopp channel (rounded)	--	--	2474	MHz	Information
Hopp channel (rounded)	--	--	2475	MHz	Information
Hopp channel (rounded)	--	--	2476	MHz	Information
Hopp channel (rounded)	--	--	2477	MHz	Information
Hopp channel (rounded)	--	--	2478	MHz	Information
Hopp channel (rounded)	--	--	2479	MHz	Information
Hopp channel (rounded)	--	--	2480	MHz	Information
Σ Hopping channels	15	--	79	Number	PASS



Plot\_FCC Part 15.247 Number Of Hopping Channels FHSS ~ BT Classic Basic rate\_05102020\_174439.png

TEST FINISHED

General Verdict

05.10.2020 17:44:40 / RT: 45 s

PASS

## 11. FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic Basic rate

Test References	
TC Start	05.10.2020 17:44:44
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Carrier_Frequency_Separation_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Carrier Frequency Separation FHSS - BT Classic Basic Rate
Add. Information	

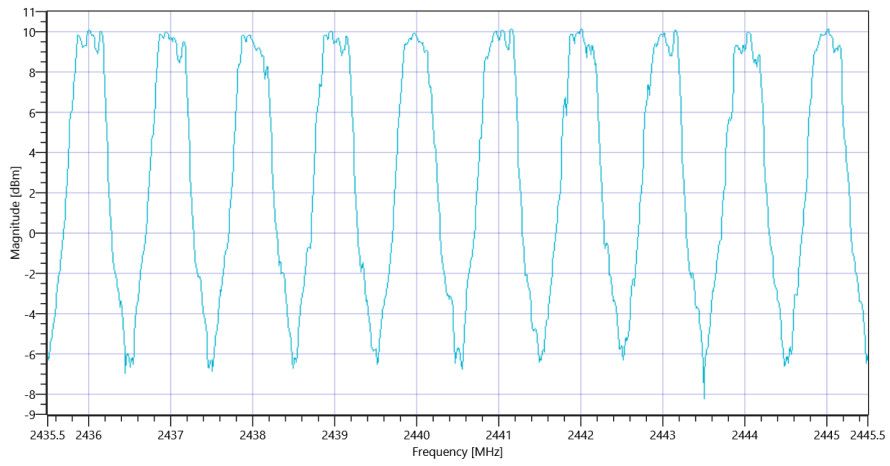
Test Parameter	
Technology to test	BT Classic Basic rate
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX hopping MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.09   10.8   20
Start [MHz]   Stop [MHz]	2435.500   2445.500
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   20000   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
1 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
1 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	---	1	MHz	PASS
Carrier Freq. (rnd)	---	---	2436	MHz	INFO
Carrier Freq. (rnd)	---	---	2437	MHz	INFO
Carrier Freq. (rnd)	---	---	2438	MHz	INFO
Carrier Freq. (rnd)	---	---	2439	MHz	INFO
Carrier Freq. (rnd)	---	---	2440	MHz	INFO
Carrier Freq. (rnd)	---	---	2441	MHz	INFO
Carrier Freq. (rnd)	---	---	2442	MHz	INFO
Carrier Freq. (rnd)	---	---	2443	MHz	INFO
Carrier Freq. (rnd)	---	---	2444	MHz	INFO
Carrier Freq. (rnd)	---	---	2445	MHz	INFO



Plot\_FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic Basic rate\_05102020\_174642.png

TEST FINISHED

General Verdict

05.10.2020 17:46:43 / RT: 118 s

PASS

## 12. FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic EDR Pi/4DQPSK

Test References	
TC Start	05.10.2020 18:07:22
Ambit Temp [°C]   Humidity [rel%]	23.4   42
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Carrier_Frequency_Separation_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Carrier Frequency Separation FHSS - BT Classic EDR Pi/4DQPSK
Add. Information	

Test Parameter	
Technology to test	BT Classic EDR Pi/4DQPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

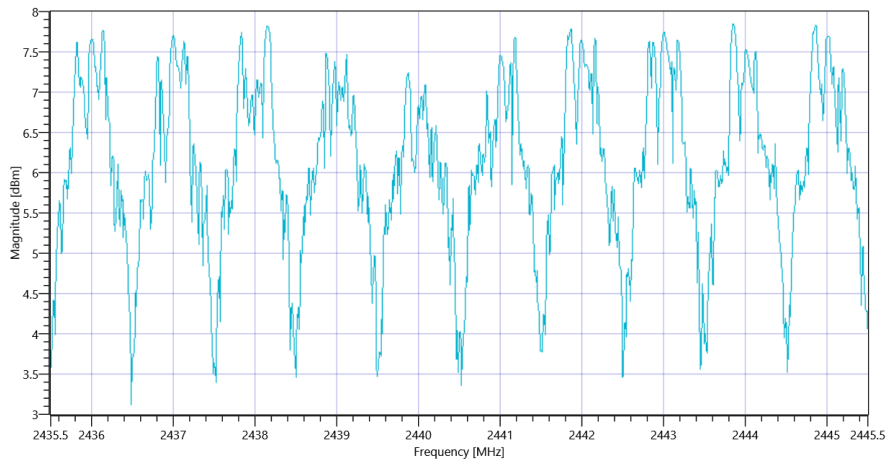


## Test at TX hopping MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	13.83   10.8   20
Start [MHz]   Stop [MHz]	2435.500   2445.500
RBW [MHz]   VBW [MHz]	0.200000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   20000   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
1 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
1 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
Carrier Freq. (rnd)	---	---	2436	MHz	INFO
Carrier Freq. (rnd)	---	---	2437	MHz	INFO
Carrier Freq. (rnd)	---	---	2438	MHz	INFO
Carrier Freq. (rnd)	---	---	2439	MHz	INFO
Carrier Freq. (rnd)	---	---	2440	MHz	INFO
Carrier Freq. (rnd)	---	---	2441	MHz	INFO
Carrier Freq. (rnd)	---	---	2442	MHz	INFO
Carrier Freq. (rnd)	---	---	2443	MHz	INFO
Carrier Freq. (rnd)	---	---	2444	MHz	INFO
Carrier Freq. (rnd)	---	---	2445	MHz	INFO



Plot\_FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic EDR Pi-4DQPSK\_05102020\_180920.png

TEST FINISHED

General Verdict

05.10.2020 18:09:20 / RT: 118 s

PASS

## 13. FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic EDR 8DPSK

Test References	
TC Start	05.10.2020 18:30:01
Ambit Temp [°C]   Humidity [rel%]	23.8   41
System Version	1.0.0.51
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Carrier_Frequency_Separation_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Carrier Frequency Separation FHSS - BT Classic EDR 8DPSK
Add. Information	

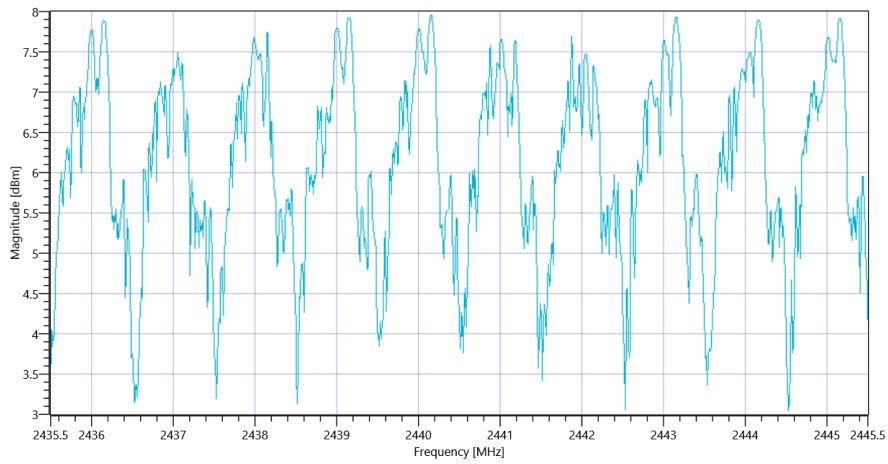
Test Parameter	
Technology to test	BT Classic EDR 8DPSK
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.170   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.60

## Test at TX hopping MHz

BT Classic Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	---	TCON

READ SA SETTINGS:	
RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.13   10.8   20
Start [MHz]   Stop [MHz]	2435.500   2445.500
RBW [MHz]   VBW [MHz]	0.200000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: Time [ms]   Count   Points per Section   Type	1   20000   1001   SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
1 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
1 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.025	---	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.867 (2/3 Nom.BW)	---	1	MHz	PASS
Carrier Freq. (rnd)	---	---	2436	MHz	INFO
Carrier Freq. (rnd)	---	---	2437	MHz	INFO
Carrier Freq. (rnd)	---	---	2438	MHz	INFO
Carrier Freq. (rnd)	---	---	2439	MHz	INFO
Carrier Freq. (rnd)	---	---	2440	MHz	INFO
Carrier Freq. (rnd)	---	---	2441	MHz	INFO
Carrier Freq. (rnd)	---	---	2442	MHz	INFO
Carrier Freq. (rnd)	---	---	2443	MHz	INFO
Carrier Freq. (rnd)	---	---	2444	MHz	INFO
Carrier Freq. (rnd)	---	---	2445	MHz	INFO



Plot\_FCC Part 15.247 Carrier Frequency Separation FHSS ~ BT Classic EDR 8DPSK\_05102020\_183159.png

TEST FINISHED

General Verdict

05.10.2020 18:32:00 / RT: 118 s

PASS

- END OF DOCUMENT -