

Measurement Results

1-5191/17-01-21_log1_conducted

[Test logging](#)

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Document authorized:

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Radio Communications & EMC

Table of Content

IUT Summary	3
1. FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4	4
2. FCC Part 15.247 Bandwidth 6dB DTS Generic 2G4	11
3. FCC Part 15.247 Peak Power Spectral Density DTS Generic 2G4	15
4. FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4	19
5. FCC Part 15.247 TX Spurious Conduced Generic 2G4	26
6. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Generic 2G4	30

IUT Summary

IUT DEFINITION	
Manufacturer	Sennheiser electronic
Type	XS Wireless Digital
Serial No.	1288000127
Setup No.	NI
SW Version	0.0.29
HW Version	KG001015024430579094T15G800010008
Comment 1	TEs-02
Comment 2	NI

IUT Common Settings	
Tlow [°C]	-10
Tmid [°C]	20
Thigh [°C]	55
Vlow [V]	3
Vmid [V]	3.7
Vhigh [V]	4.2
Imax [A]	1
Antenna Gain [dBi]	0.8
Additional Path Loss [dB]	1.1

IUT Common Settings 2G4 Init Values from IUT file	
Hopping supported	No
Frequency low [MHz]	2403
Frequency mid [MHz]	2443
Frequency high [MHz]	2481
Burst length [ms]	1
Nominal Bandwidth [MHz]	1.4
User Interaction	Yes

1. FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4

Test References	
TC Start	30.07.2018 16:43:23
System Version	1.0.0.9
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V04 - Chapter 9.1.1 RBW >= DTS Bandwidth
Class / TC Version / TC ID	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 TCID_FCC15247_3
My Description	FCC 15.247 Maximum Peak Output Power Conducted DTS4 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2443
Frequency high to test	True Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.40 SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

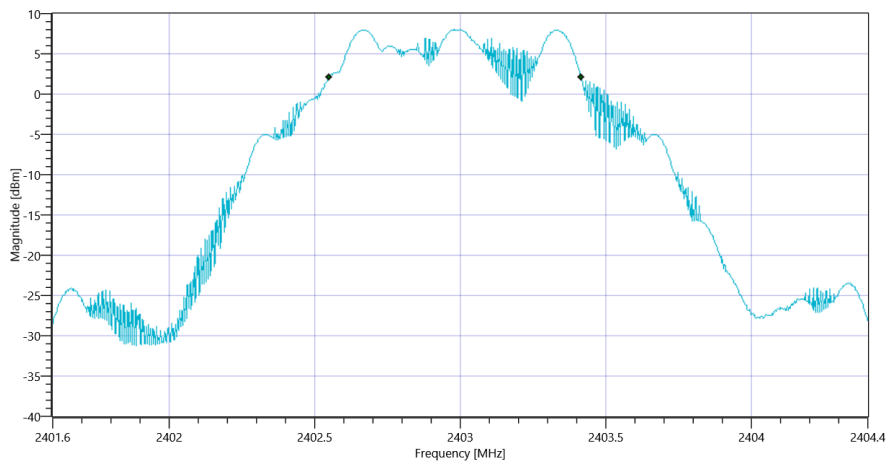
Test at TX 2403 MHz

READ SA SETTINGS:

Ref. Level [dBm]	13.60
Ref. Lev. offs [dB]	10.9
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.600
Freq. Stop [MHz]	2404.400
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	0.868	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4 DTS BW _30072018_164402.png

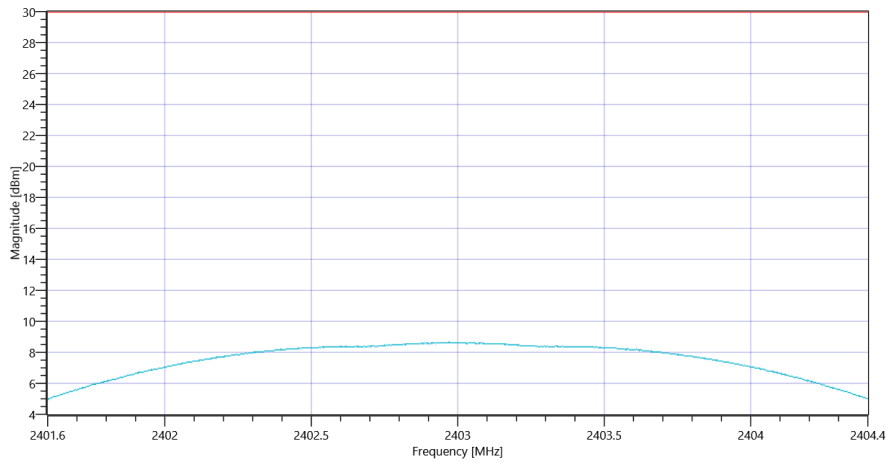
READ SA SETTINGS:

Ref. Level [dBm]	18.60
Ref. Lev. offs [dB]	10.9
Input Attenuation [dB]	25
Freq. Start [MHz]	2401.600
Freq. Stop [MHz]	2404.400
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	8.66	dBm	PASS
Peak Power	---	1000	7.345139	mW	PASS

Frequency at Peak	--	2402.969	MHz	Information
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Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4_30072018_164416.png

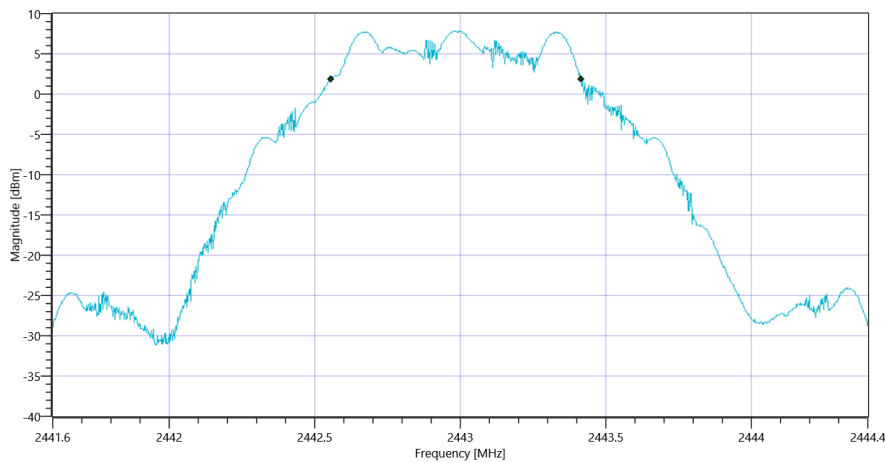
Test at TX 2443 MHz

READ SA SETTINGS:

Ref. Level [dBm]	13.35
Ref. Lev. offs [dB]	11.01
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.600
Freq. Stop [MHz]	2444.400
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	0.86	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4 DTS BW _30072018_164510.png

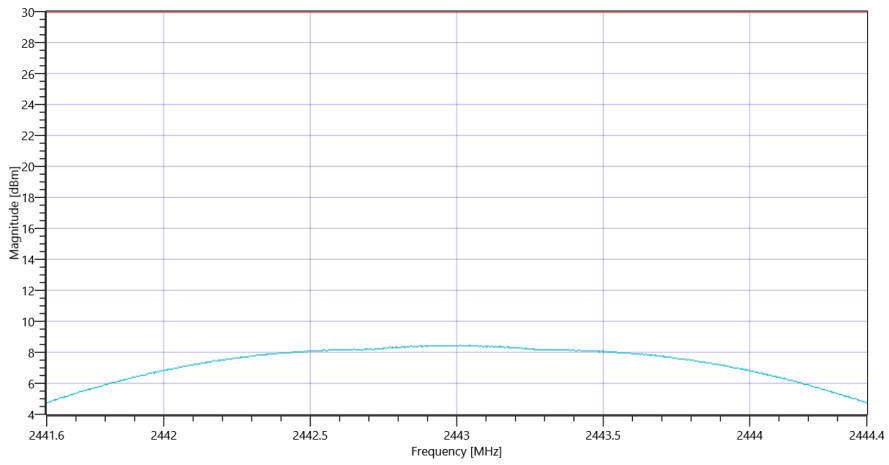
READ SA SETTINGS:

Ref. Level [dBm]	18.35
Ref. Lev. offs [dB]	11.01
Input Attenuation [dB]	25
Freq. Start [MHz]	2441.600
Freq. Stop [MHz]	2444.400
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	8.46	dBm	PASS
Peak Power	---	1000	7.014553	mW	PASS

Frequency at Peak	--	--	2443.011	MHz	Information
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Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4_30072018_164525.png

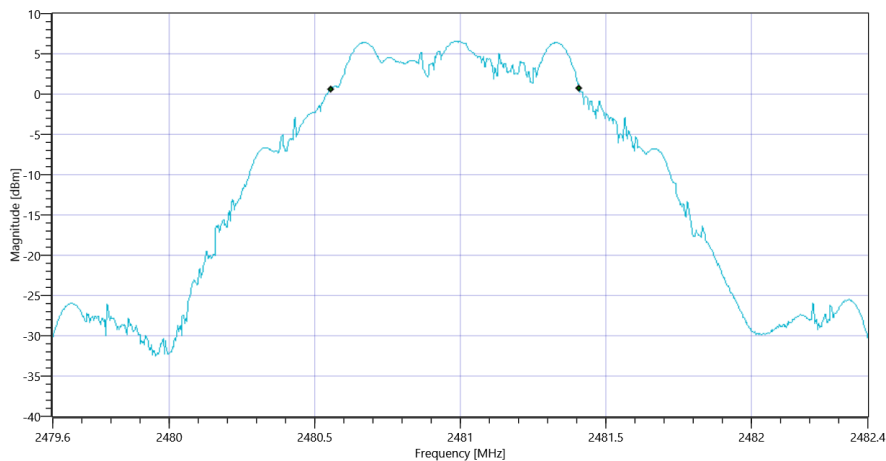
Test at TX 2481 MHz

READ SA SETTINGS:

Ref. Level [dBm]	12.10
Ref. Lev. offs [dB]	11.06
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.600
Freq. Stop [MHz]	2482.400
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	0.854	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4 DTS BW _30072018_164614.png

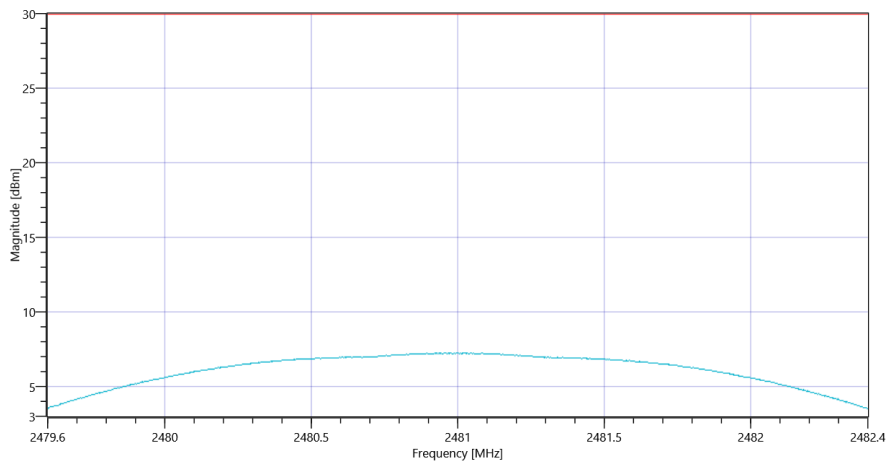
READ SA SETTINGS:

Ref. Level [dBm]	17.10
Ref. Lev. offs [dB]	11.06
Input Attenuation [dB]	25
Freq. Start [MHz]	2479.600
Freq. Stop [MHz]	2482.400
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	7.25	dBm	PASS
Peak Power	---	1000	5.308844	mW	PASS

Frequency at Peak	--	--	2481.003	MHz	Information
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Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS Generic 2G4_30072018_164629.png

TEST FINISHED		
General Verdict	30.07.2018 16:46:29 / RT: 186 s	PASS

2. FCC Part 15.247 Bandwidth 6dB DTS Generic 2G4

Test References	
TC Start	30.07.2018 16:46:31
System Version	1.0.0.9
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V04 - Chapter 8.1 DTS Bandwidth
Class / TC Version / TC ID	TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 TCID_FCC15247_1
My Description	FCC 15.247 Bandwidth 6dB DTS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2443
Frequency high to test	True Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.40 SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

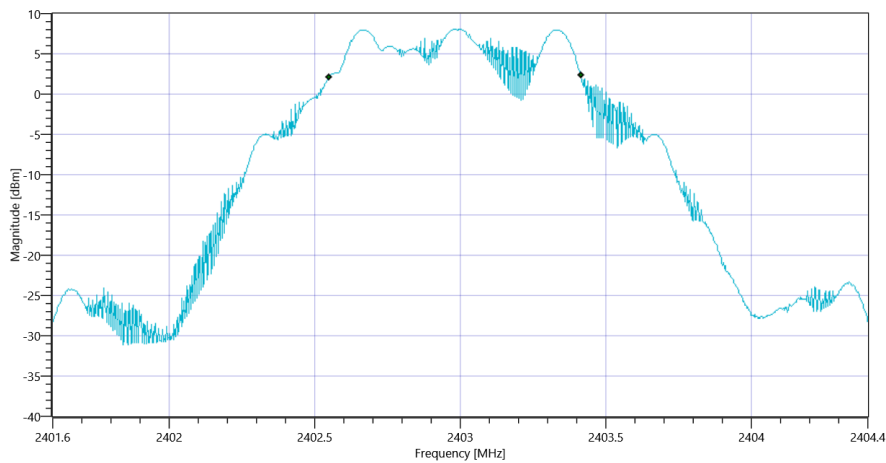
Test at TX 2403 MHz

READ SA SETTINGS:

Ref. Level [dBm]	13.61
Ref. Lev. offs [dB]	10.9
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.600
Freq. Stop [MHz]	2404.400
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	0.500	---	0.865	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 6dB DTS Generic 2G4_30072018_164712.png

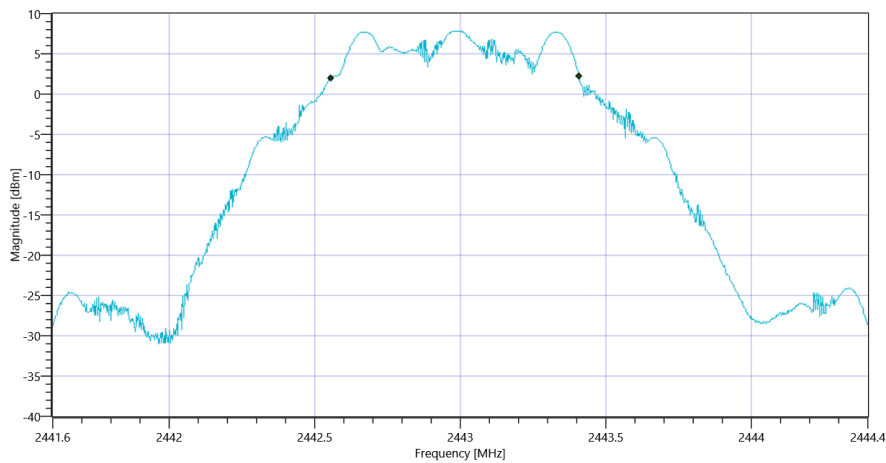
Test at TX 2443 MHz

READ SA SETTINGS:

Ref. Level [dBm]	13.37
Ref. Lev. offs [dB]	11.01
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.600
Freq. Stop [MHz]	2444.400
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	0.500	---	0.854	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 6dB DTS Generic 2G4_30072018_164754.png

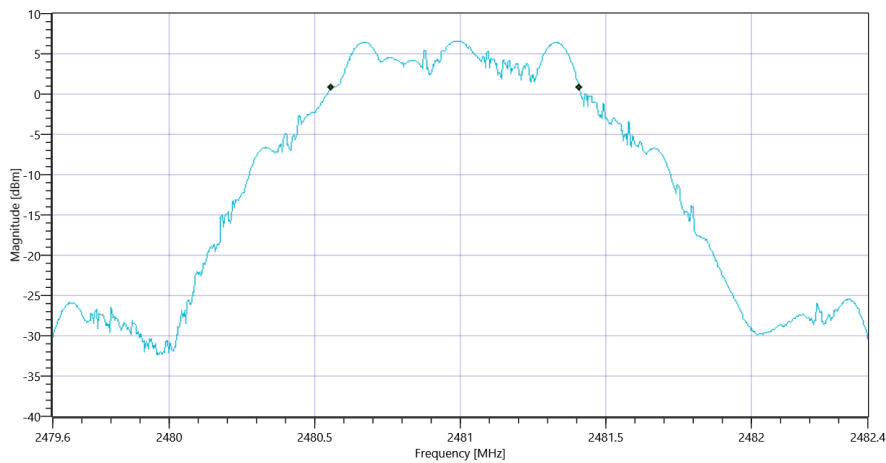
Test at TX 2481 MHz

READ SA SETTINGS:

Ref. Level [dBm]	12.14
Ref. Lev. offs [dB]	11.06
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.600
Freq. Stop [MHz]	2482.400
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	0.500	---	0.854	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 6dB DTS Generic 2G4_30072018_164836.png

TEST FINISHED

General Verdict

30.07.2018 16:48:36 / RT: 125 s

PASS

3. FCC Part 15.247 Peak Power Spectral Density DTS Generic 2G4

Test References	
TC Start	30.07.2018 16:48:38
System Version	1.0.0.9
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V04 - Chapter 10.2 Peak PSD
Class / TC Version / TC ID	TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 TCID_FCC15247_6
My Description	FCC 15.247 Peak Power Spectral Density DTS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2443
Frequency high to test	True Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.40 SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

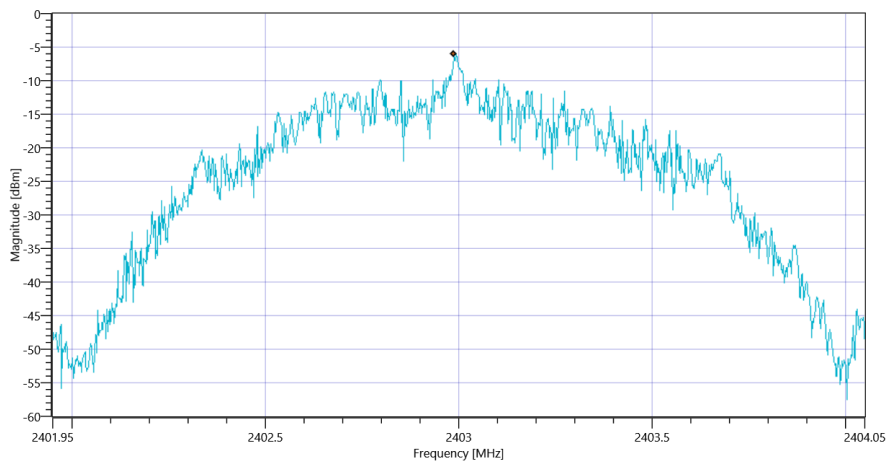
Test at TX 2403 MHz

READ SA SETTINGS:

Ref. Level [dBm]	13.68
Ref. Lev. offs [dB]	10.9
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.950
Freq. Stop [MHz]	2404.050
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	20
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-6.02	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS Generic 2G4_30072018_164937.png

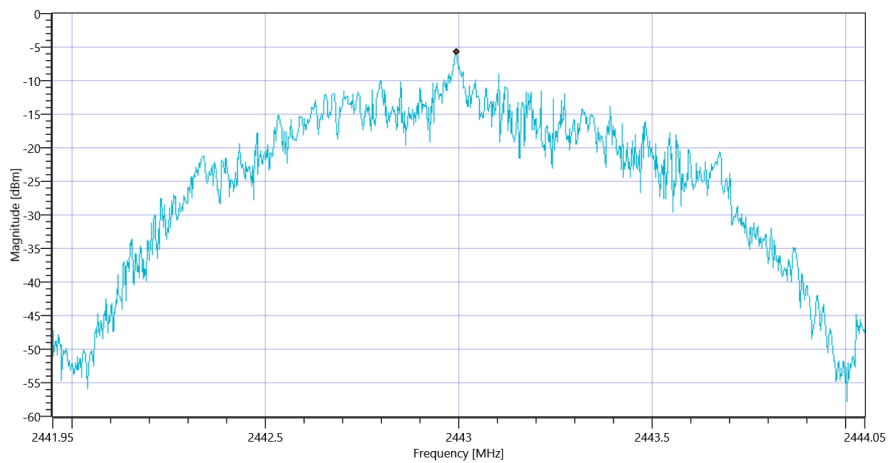
Test at TX 2443 MHz

READ SA SETTINGS:

Ref. Level [dBm]	13.40
Ref. Lev. offs [dB]	11.01
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.950
Freq. Stop [MHz]	2444.050
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	20
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-5.74	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS Generic 2G4_30072018_165026.png

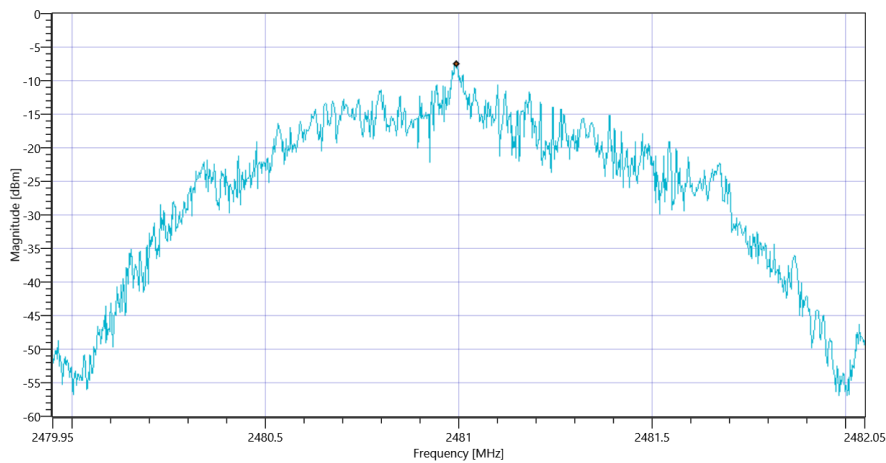
Test at TX 2481 MHz

READ SA SETTINGS:

Ref. Level [dBm]	12.16
Ref. Lev. offs [dB]	11.06
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.950
Freq. Stop [MHz]	2482.050
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	20
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-7.5	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS Generic 2G4_30072018_165116.png

TEST FINISHED

General Verdict	30.07.2018 16:51:16 / RT: 157 s	PASS
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4. FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4

Test References	
TC Start	30.07.2018 16:51:17
System Version	1.0.0.9
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 TCID_FCC15247_2
My Description	FCC 15.247 Bandwidth 99PCT - 20dB DTS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2443
Frequency high to test	True Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.40 SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

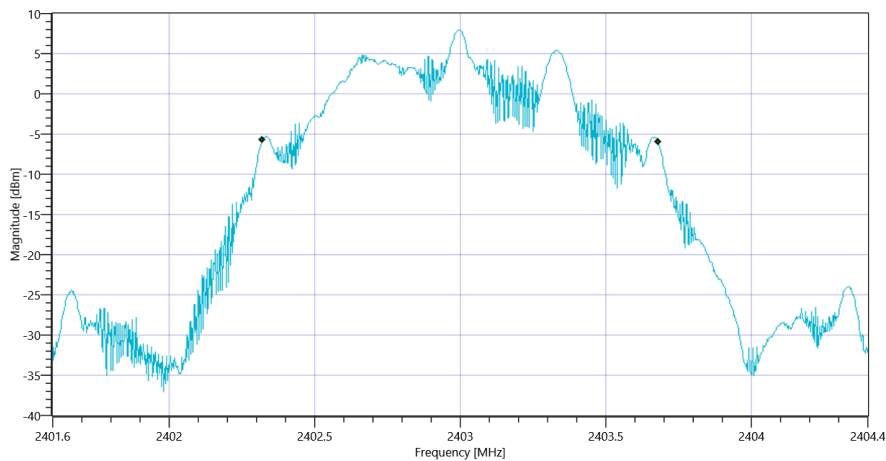
Test at TX 2403 MHz

READ SA SETTINGS:

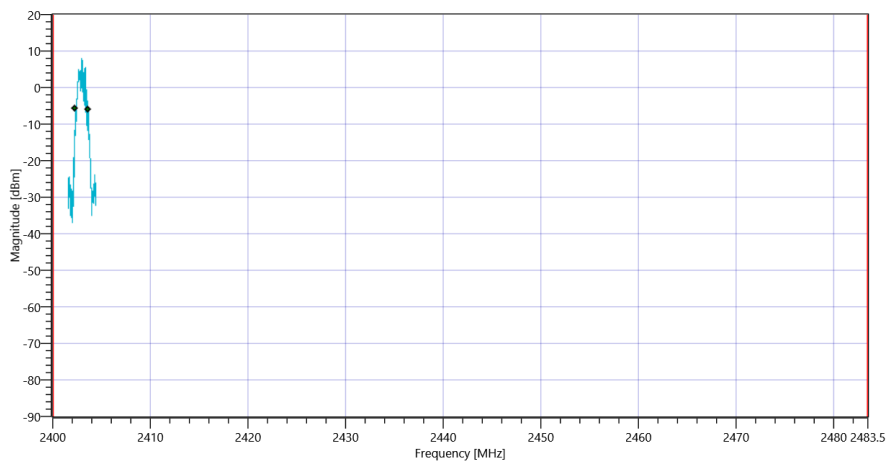
Ref. Level [dBm]	13.68
Ref. Lev. offs [dB]	10.9
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.600
Freq. Stop [MHz]	2404.400
Resolution BW. [MHz]	0.050000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1.359	MHz	Information
T1	2400.000000	---	2402.3203	MHz	PASS
T2	---	2483.500000	2403.6797	MHz	PASS

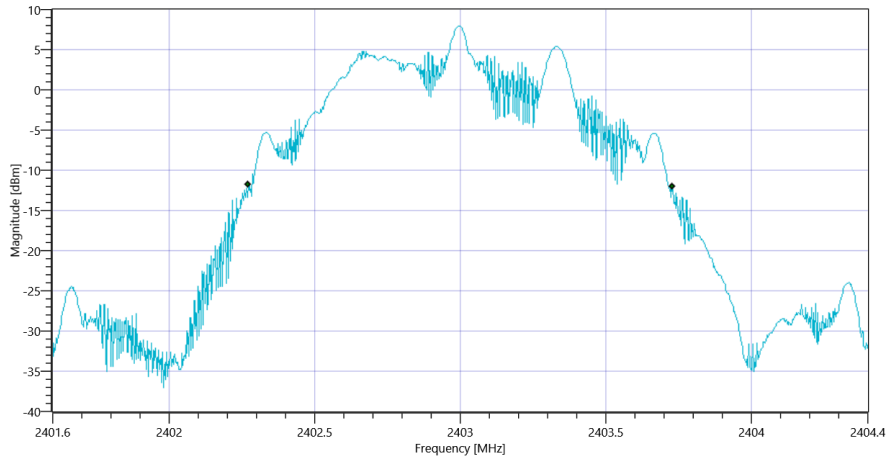


Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4 99PCT_30072018_165205.png

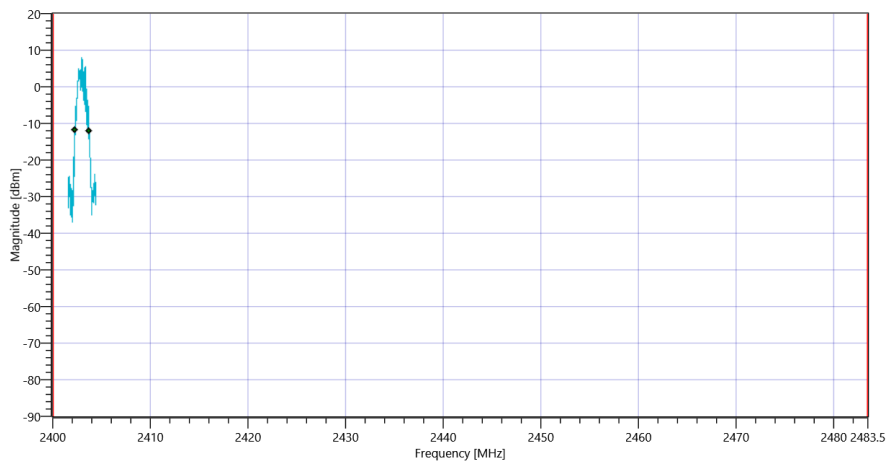


Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4_30072018_165208.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1.456	MHz	Information
T1 20dB	2400.000000	---	2402.2720	MHz	PASS
T2 20dB	---	2483.500000	2403.7280	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4 20dB_30072018_165211.png



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4_30072018_165214.png

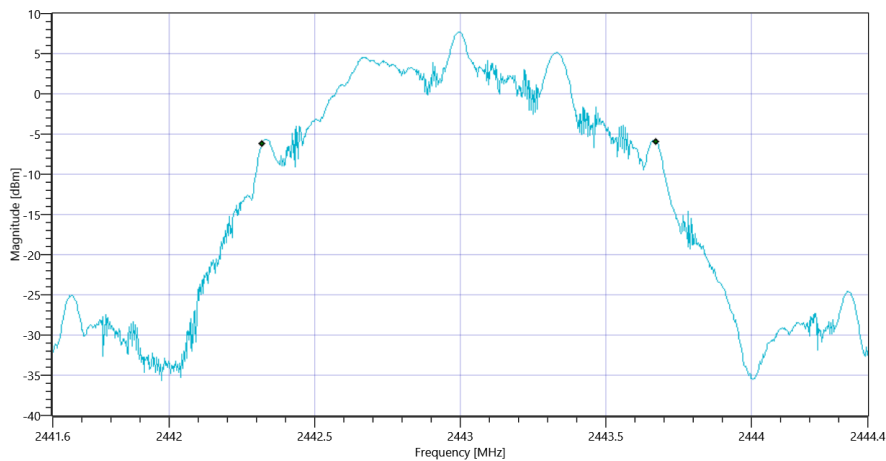
Test at TX 2443 MHz

READ SA SETTINGS:

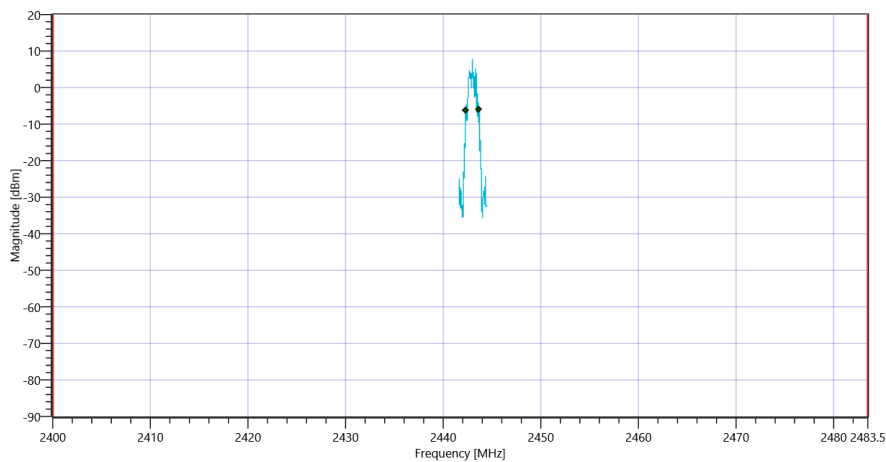
Ref. Level [dBm]	13.47
Ref. Lev. offs [dB]	11.01
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.600
Freq. Stop [MHz]	2444.400
Resolution BW. [MHz]	0.050000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1.354	MHz	Information
T1	2400.000000	---	2442.3203	MHz	PASS
T2	---	2483.500000	2443.6741	MHz	PASS

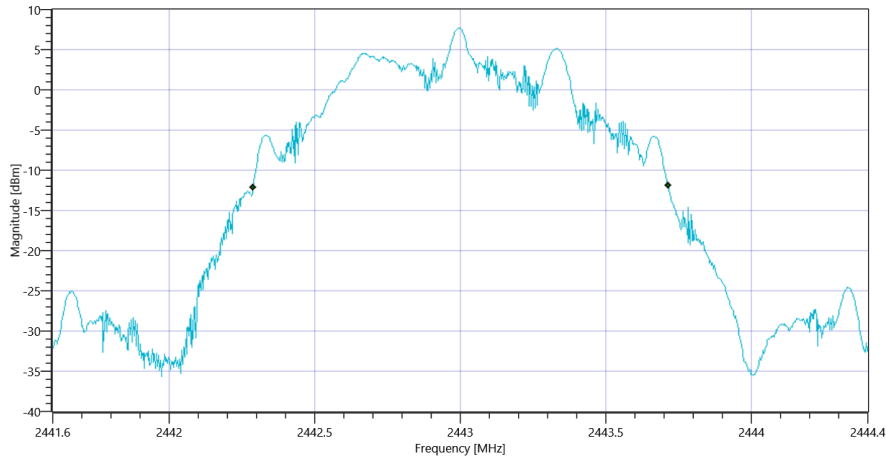


Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4 99PCT_30072018_165254.png

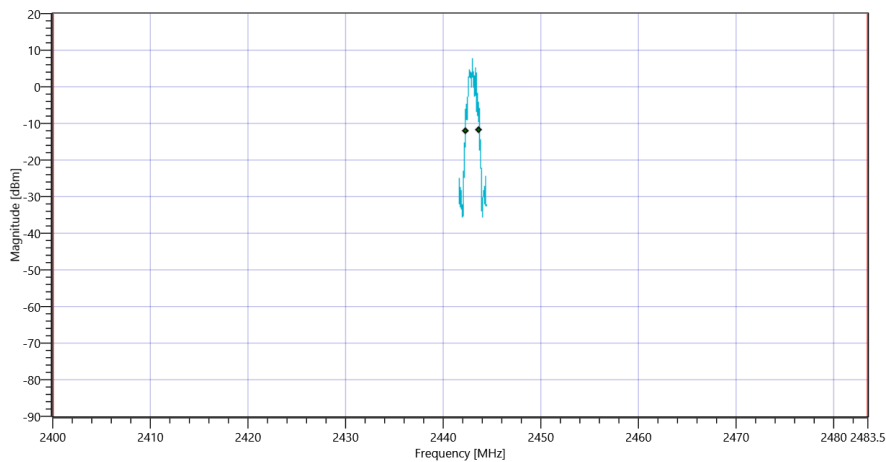


Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4_30072018_165257.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1.425	MHz	Information
T1 20dB	2400.000000	---	2442.2888	MHz	PASS
T2 20dB	---	2483.500000	2443.7140	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4 20dB_30072018_165301.png



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4_30072018_165304.png

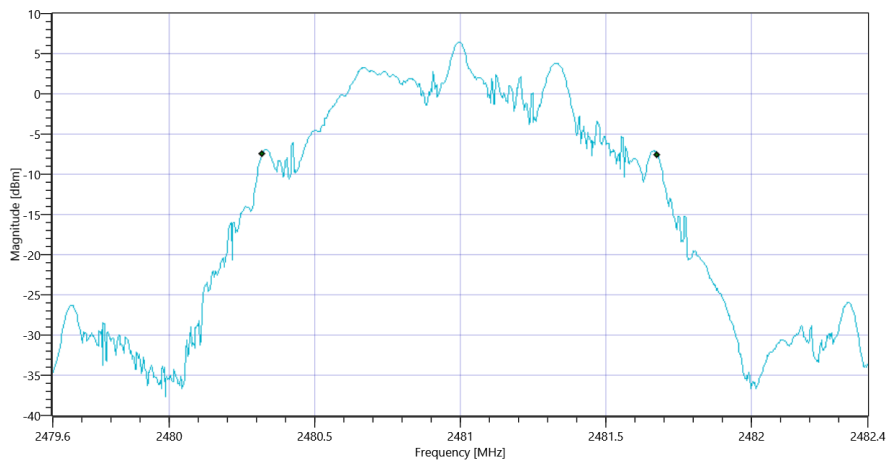
Test at TX 2481 MHz

READ SA SETTINGS:

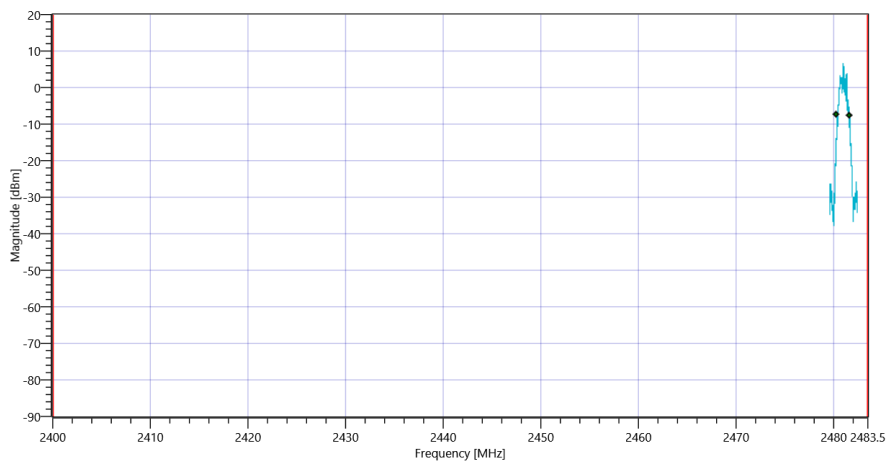
Ref. Level [dBm]	12.20
Ref. Lev. offs [dB]	11.06
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.600
Freq. Stop [MHz]	2482.400
Resolution BW. [MHz]	0.050000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1.357	MHz	Information
T1	2400.000000	---	2480.3203	MHz	PASS
T2	---	2483.500000	2481.6769	MHz	PASS

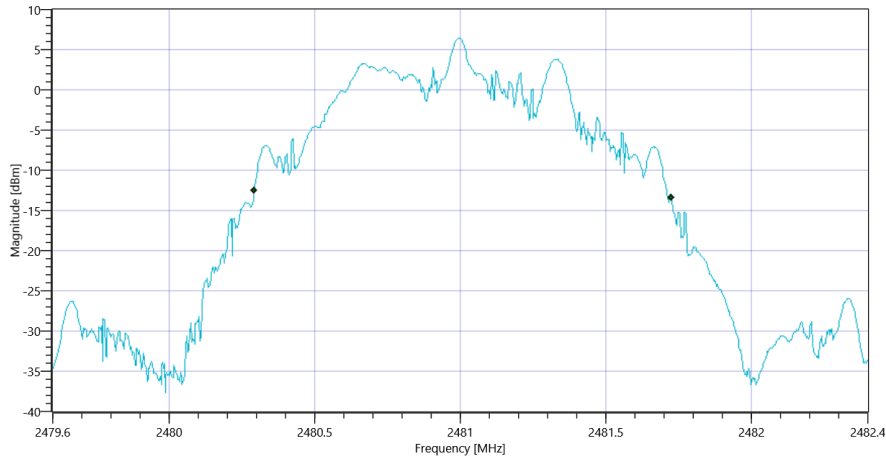


Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4 99PCT_30072018_165344.png

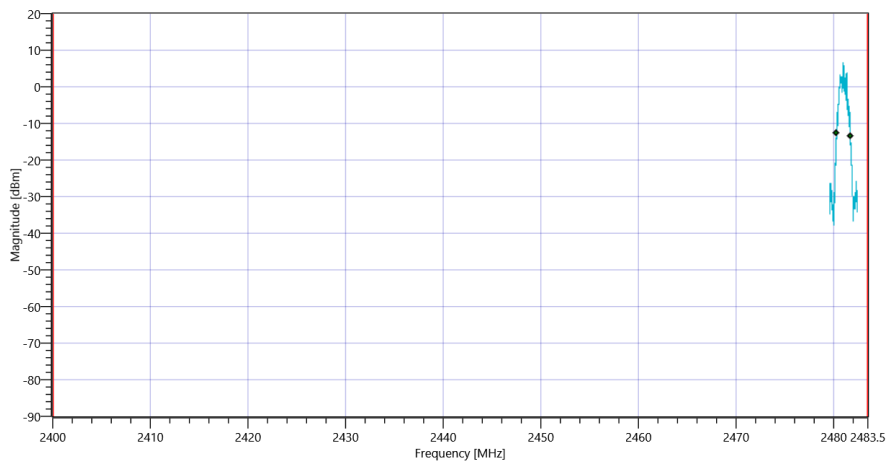


Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4_30072018_165347.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1.434	MHz	Information
T1 20dB	2400.000000	---	2480.2916	MHz	PASS
T2 20dB	---	2483.500000	2481.7252	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4 20dB_30072018_165351.png



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB Generic 2G4_30072018_165354.png

TEST FINISHED		
General Verdict	30.07.2018 16:53:54 / RT: 156 s	PASS

5. FCC Part 15.247 TX Spurious Conducted Generic 2G4

Test References	
TC Start	30.07.2018 16:53:56
System Version	1.0.0.9
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 TCID_FCC15247_8
My Description	FCC 15.247 TX Emissions Conducted DTS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2443
Frequency high to test	True Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.40 SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

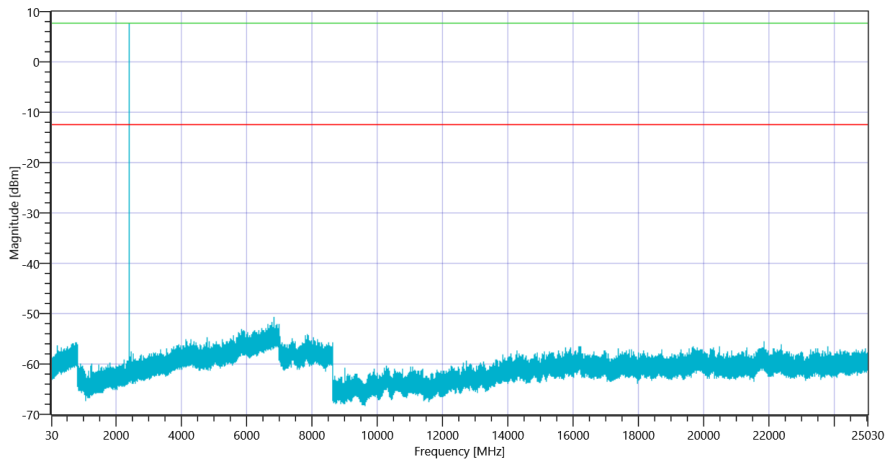
Test at TX 2403 MHz

READ SA SETTINGS:

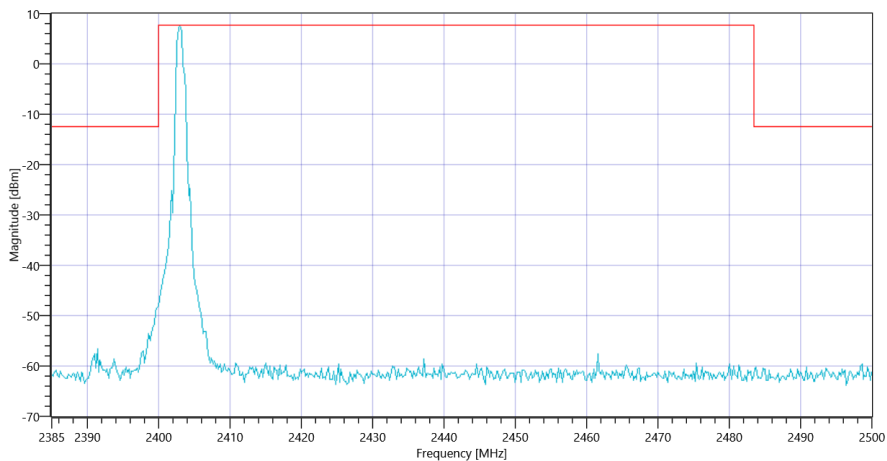
Ref. Level [dBm]	13.66
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	1001
Sweep Count	3
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2403.00 MHz	---	---	7.63	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conduced Generic 2G4 2403_30072018_165950.png



Plot_FCC Part 15.247 TX Spurious Conduced Generic 2G4 2403_30072018_165953.png

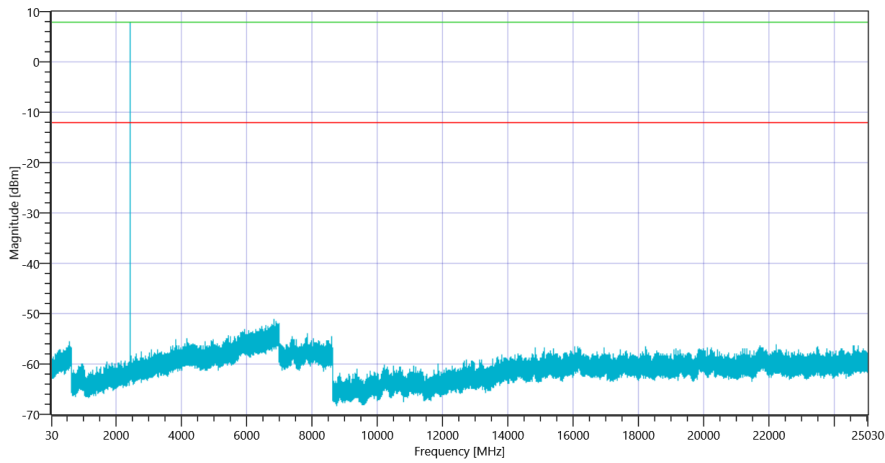
Test at TX 2443 MHz

READ SA SETTINGS:

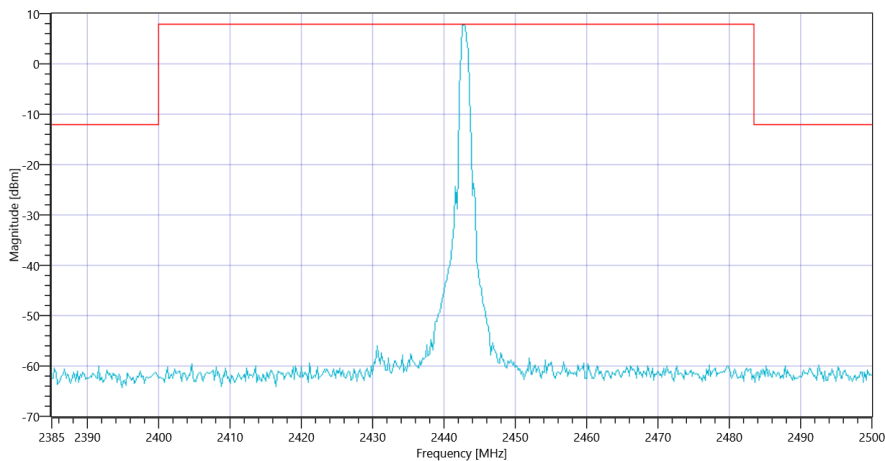
Ref. Level [dBm]	13.57
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	1001
Sweep Count	3
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2442.60 MHz	---	---	7.87	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conduced Generic 2G4 2443_30072018_170931.png



Plot_FCC Part 15.247 TX Spurious Conduced Generic 2G4 2443_30072018_170933.png

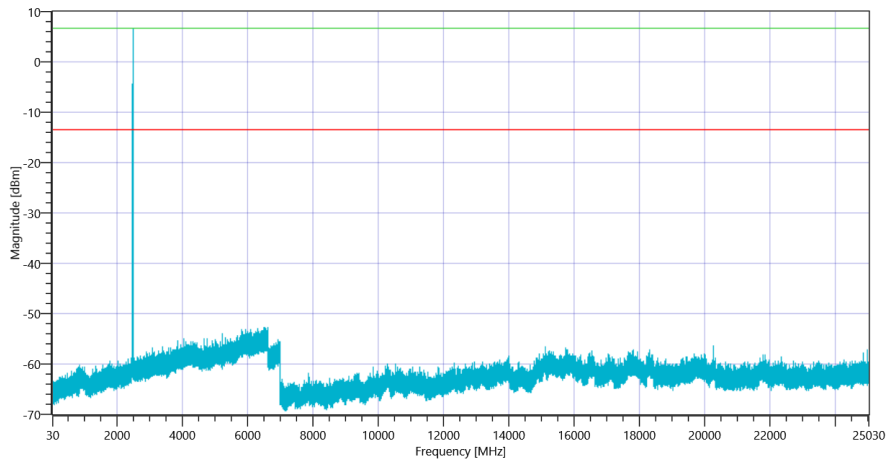
Test at TX 2481 MHz

READ SA SETTINGS:

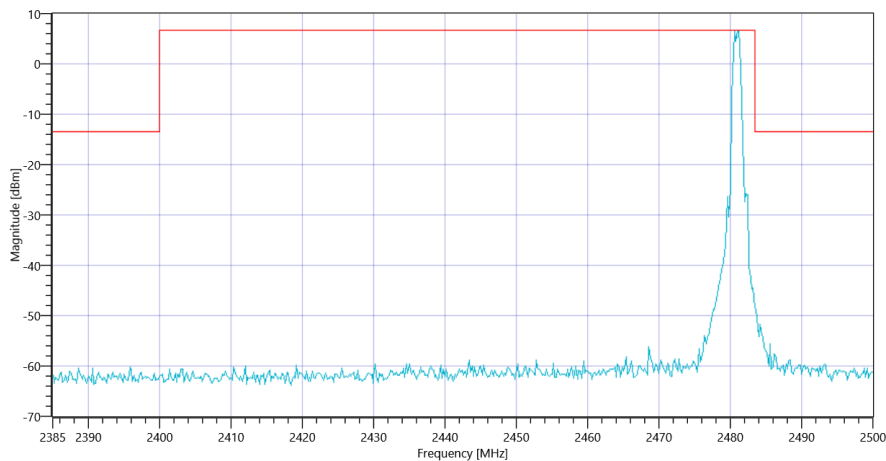
Ref. Level [dBm]	12.39
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	1001
Sweep Count	3
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2481.00 MHz	---	---	6.59	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conduced Generic 2G4 2481_30072018_172138.png



Plot_FCC Part 15.247 TX Spurious Conduced Generic 2G4 2481_30072018_172140.png

TEST FINISHED

General Verdict	30.07.2018 17:21:41 / RT: 1665 s	PASS
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6. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Generic 2G4

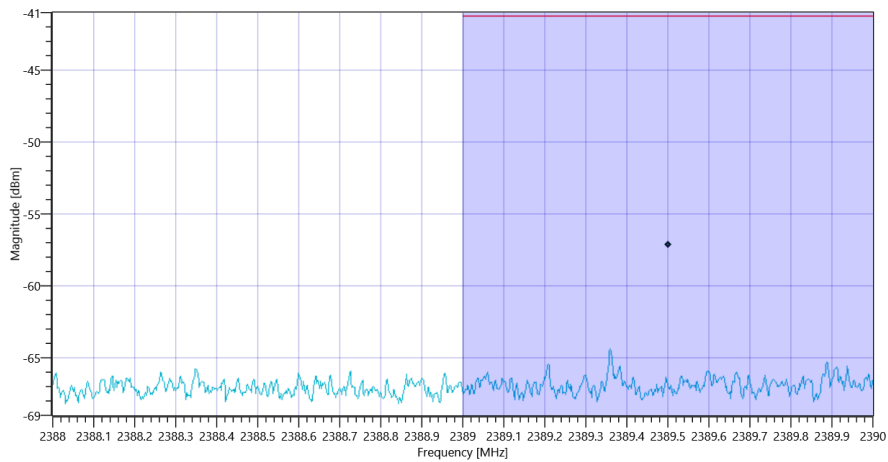
Test References	
TC Start	30.07.2018 17:21:43
System Version	1.0.0.9
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V04 - 13.3.3 EUT transmissions with max hold
Class / TC Version / TC ID	TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01 Version: 0.0.1 TCID_FCC15247_7
My Description	FCC 15.247 Restricted Band Edge Conducted Peak DTS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2443
Frequency high to test	True Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.40 SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

Test at TX 2403 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.94
Ref. Lev. offs [dB]	10.9
Input Attenuation [dB]	20
Freq. Start [MHz]	2388.000
Freq. Stop [MHz]	2390.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.005000
Detector	POS
Sweep Time [ms]	3
Sweep Points/Section	1001
Sweep Count	300
Sweep Mode	MAXH
Used Sweep Type	SWE
Marker Method	Band Power

RESULT: TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band Power without Antenna Gain	---	-41.23	-57.13	dBm	Information
Band Power incl. Antenna Gain	---	-41.23	-56.33	dBm	PASS

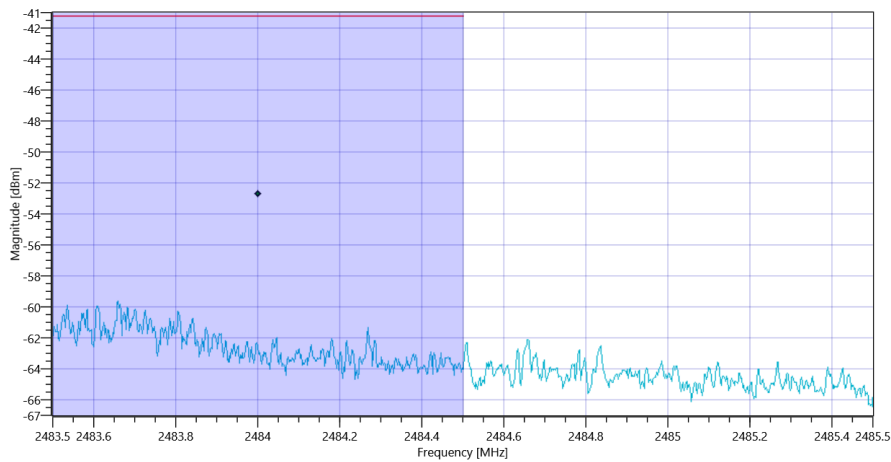


Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Generic 2G4_30072018_173703.png

Test at TX 2481 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.46
Ref. Lev. offs [dB]	11.06
Input Attenuation [dB]	20
Freq. Start [MHz]	2483.500
Freq. Stop [MHz]	2485.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.005000
Detector	POS
Sweep Time [ms]	3
Sweep Points/Section	1001
Sweep Count	300
Sweep Mode	MAXH
Used Sweep Type	SWE
Marker Method	Band Power

RESULT: TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band Power without Antenna Gain	---	-41.23	-52.7	dBm	Information
Band Power incl. Antenna Gain	---	-41.23	-51.9	dBm	PASS



Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS Generic 2G4_30072018_173743.png

TEST FINISHED		
General Verdict	30.07.2018 17:37:43 / RT: 960 s	PASS