

Measurement Results

1-8822/19-01-05_log2_conducted

[Test logging](#)

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IUT Summary

IUT DEFINITION & Common settings	
Manufacturer	steute Technologies GmbH & Co KG
Type	TX NGF ULR2.4-safe; RX NGF ULR2.4-safe
Serial No. Setup No.	1473157 / SerNo: 00034 (0x22) 1.0
SW Version HW Version	V01.07 NI
Comment 1 2	Chain B
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	24.0 24.0 24.0 @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

IUT Common Settings 2G4	
Hopping supported	Yes
Burst length [ms]	10
Nominal Bandwidth [MHz]	1.5
User Interaction	No

1. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:19:34
Ambit Temp [°C] Humidity [rel%]	25.8 38
System Version	1.0.0.49
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 - 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] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

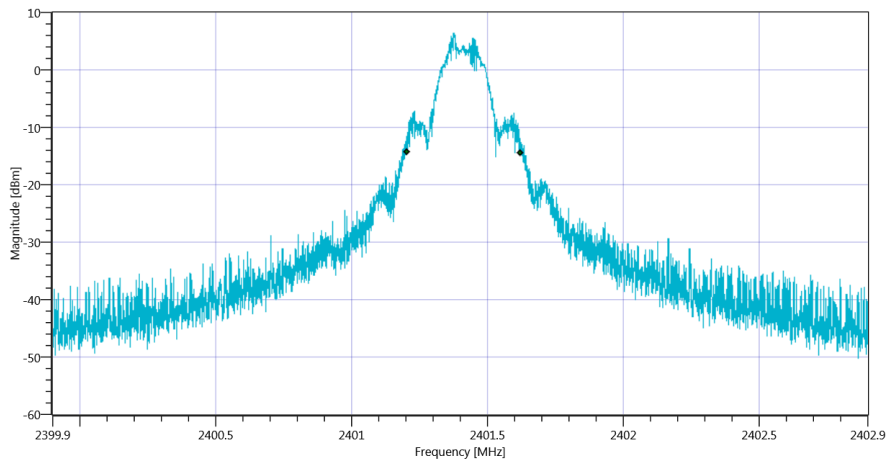
Test at TX 2401.4 MHz

READ SA SETTINGS:

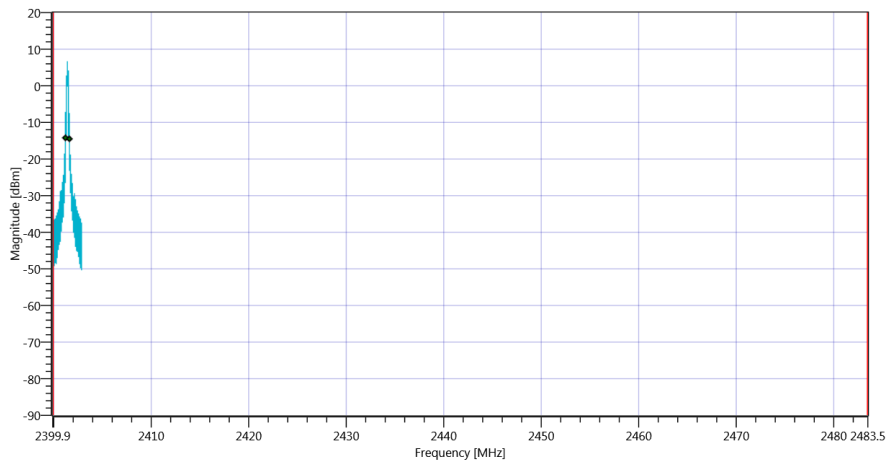
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.06 10.21 20
Start [MHz] Stop [MHz]	2399.900 2402.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	418	kHz	INFO
T1 99%	2400.000000	---	2401.2035	MHz	PASS
T2 99%	---	2483.500000	2401.6214	MHz	PASS



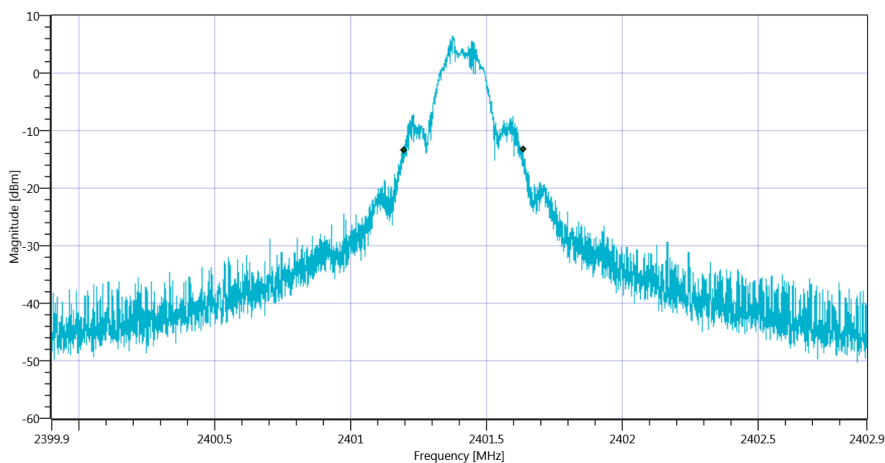
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_162003.png



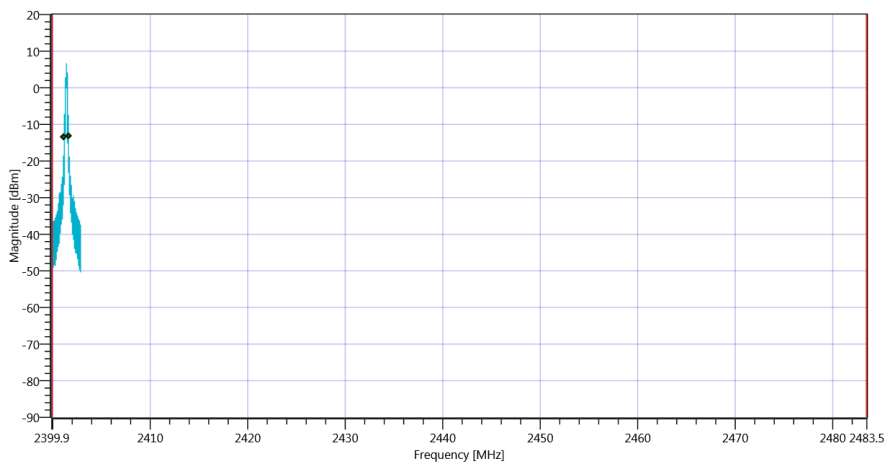
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_162007.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	439	kHz	INFO
T1 20dB	2400.000000	---	2401.1963	MHz	PASS
T2 20dB	---	2483.500000	2401.6358	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_162012.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_162017.png

TEST FINISHED		
General Verdict	06.08.2020 16:20:17 / RT: 42 s	PASS

2. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:32:37
Ambit Temp [°C] Humidity [rel%]	25.8 38
System Version	1.0.0.49
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 - 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] 2402.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

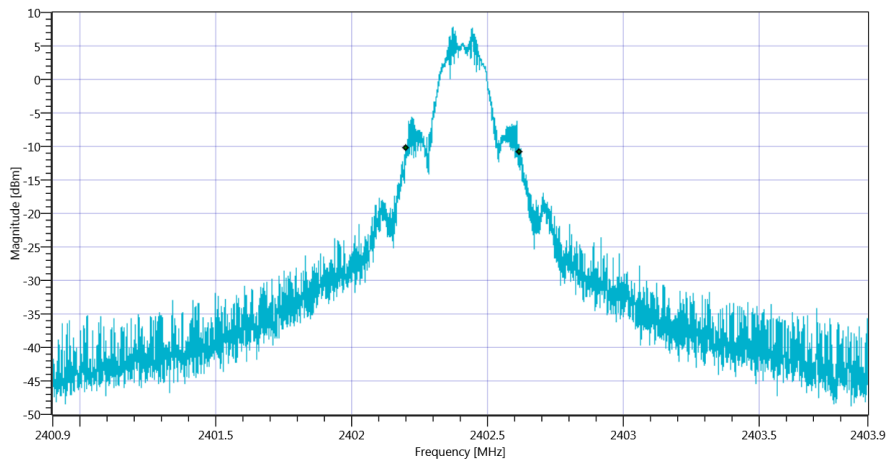
Test at TX 2402.4 MHz

READ SA SETTINGS:

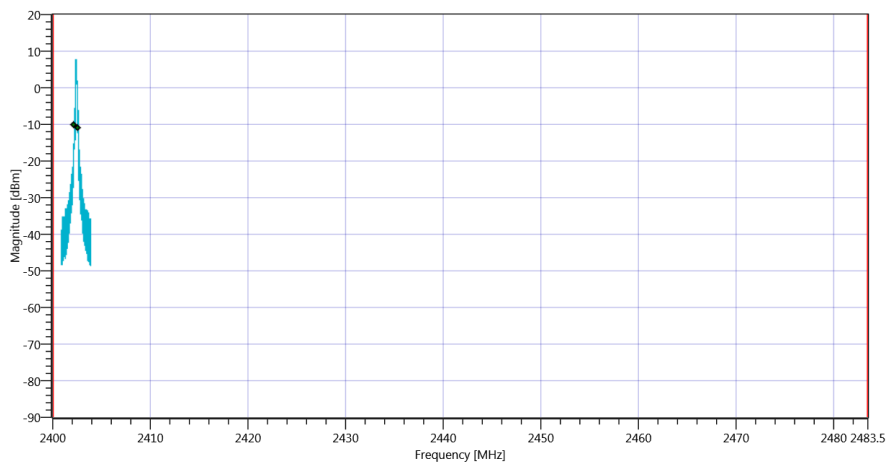
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.43 10.21 20
Start [MHz] Stop [MHz]	2400.900 2403.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	417	kHz	INFO
T1 99%	2400.000000	---	2402.2017	MHz	PASS
T2 99%	---	2483.500000	2402.6187	MHz	PASS



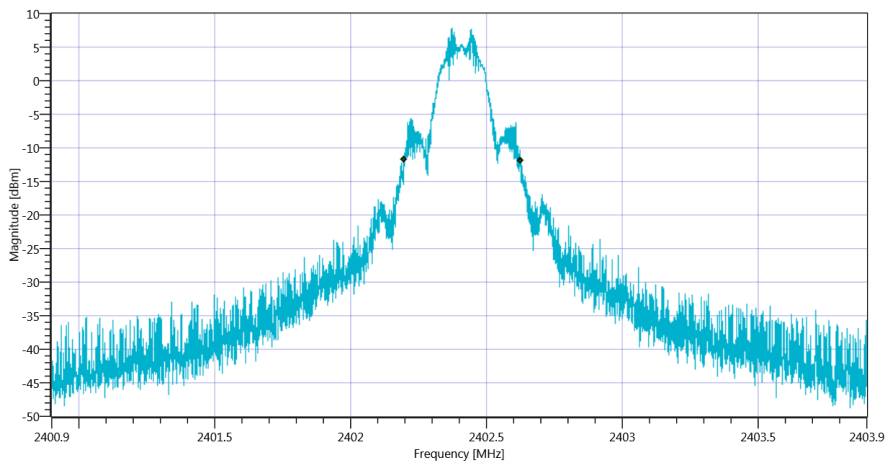
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_163306.png



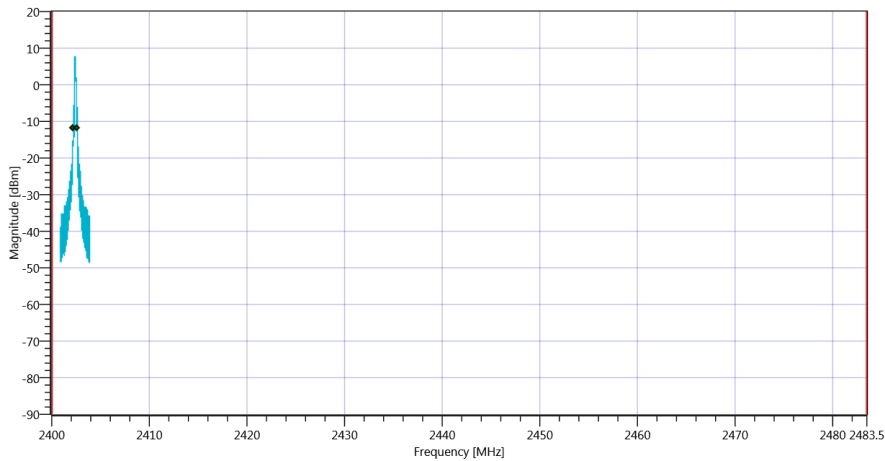
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_163310.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	431	kHz	INFO
T1 20dB	2400.000000	---	2402.1954	MHz	PASS
T2 20dB	---	2483.500000	2402.6262	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_163316.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_163320.png

TEST FINISHED		
General Verdict	06.08.2020 16:33:20 / RT: 42 s	PASS

3. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:55:04
Ambit Temp [°C] Humidity [rel%]	26.2 44
System Version	1.0.0.49
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 - 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] 2404.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

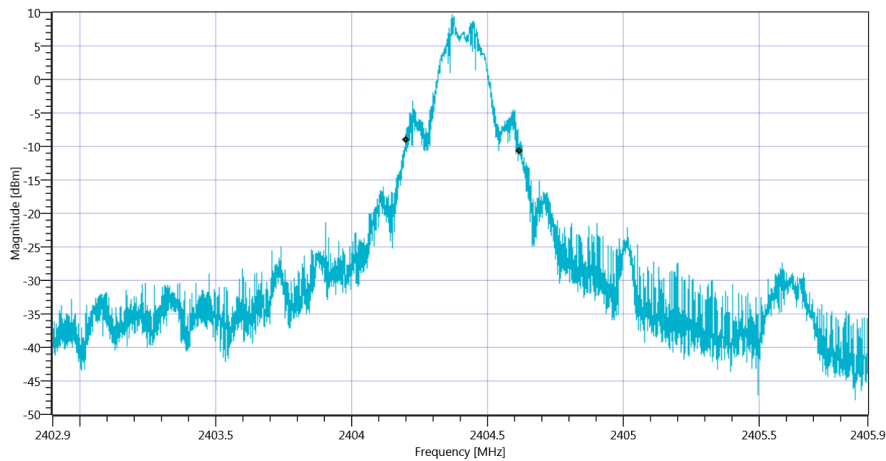
Test at TX 2404.4 MHz

READ SA SETTINGS:

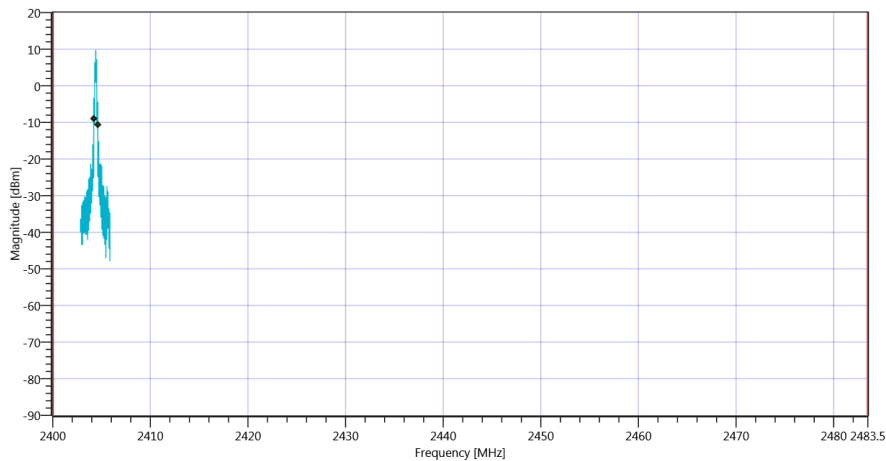
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.11 10.21 20
Start [MHz] Stop [MHz]	2402.900 2405.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	415	kHz	INFO
T1 99%	2400.000000	---	2404.2023	MHz	PASS
T2 99%	---	2483.500000	2404.6169	MHz	PASS



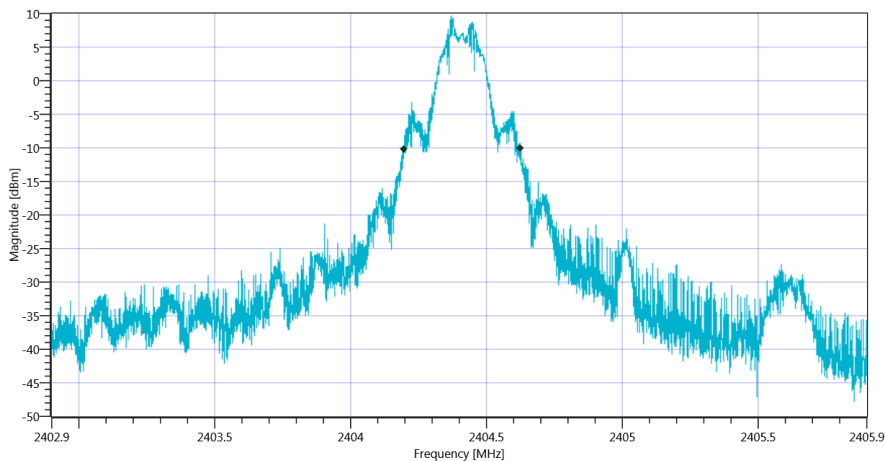
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_165533.png



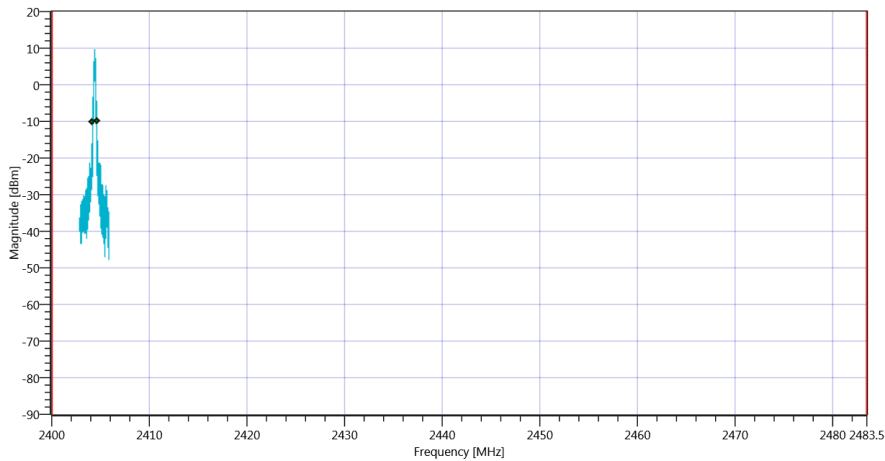
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_165537.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	432	kHz	INFO
T1 20dB	2400.000000	---	2404.1951	MHz	PASS
T2 20dB	---	2483.500000	2404.6268	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_165543.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_165547.png

TEST FINISHED		
General Verdict	06.08.2020 16:55:48 / RT: 43 s	PASS

4. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 17:10:44
Ambit Temp [°C] Humidity [rel%]	26.2 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

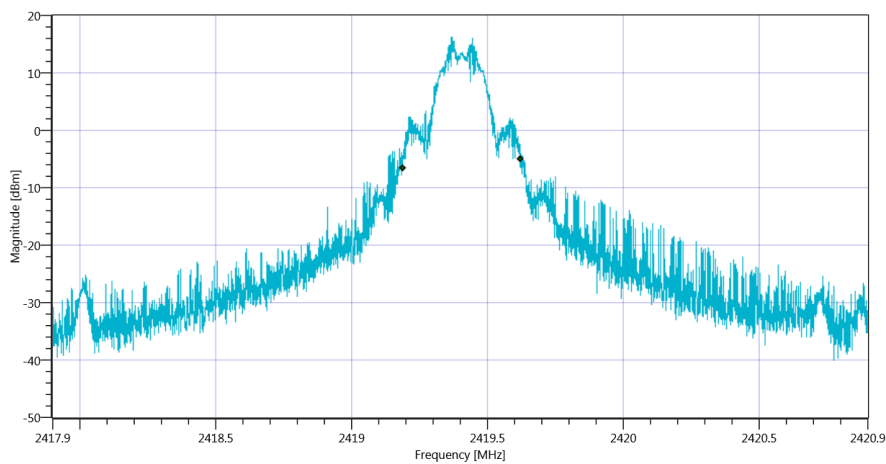
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2419.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

Test at TX 2419.4 MHz

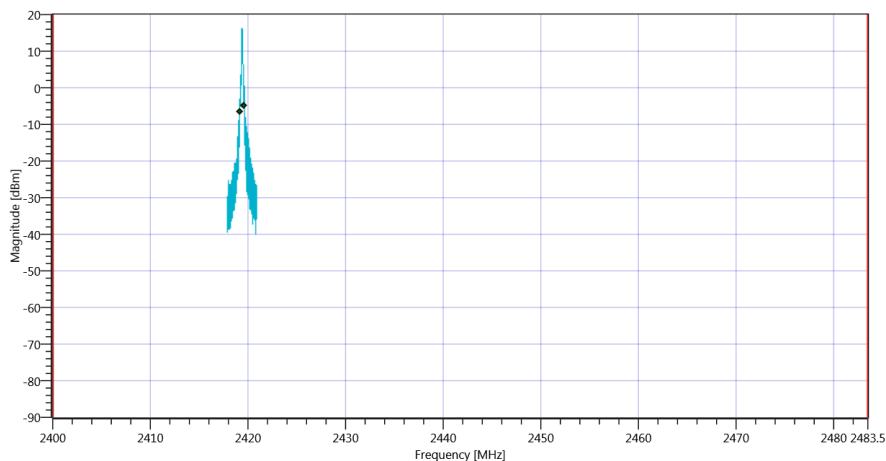
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	21.58 10.24 30
Start [MHz] Stop [MHz]	2417.900 2420.900
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%	---	---	432	kHz	INFO
T1 99%	2400.000000	---	2419.1879	MHz	PASS
T2 99%	---	2483.500000	2419.6202	MHz	PASS

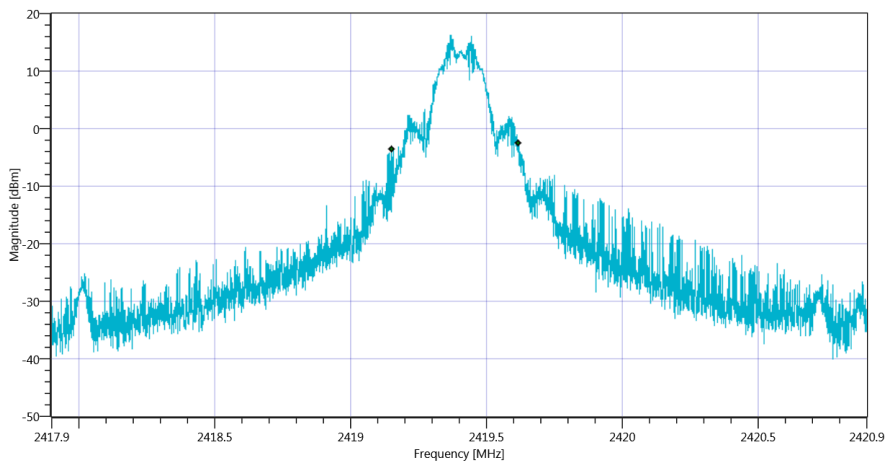


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_171113.png

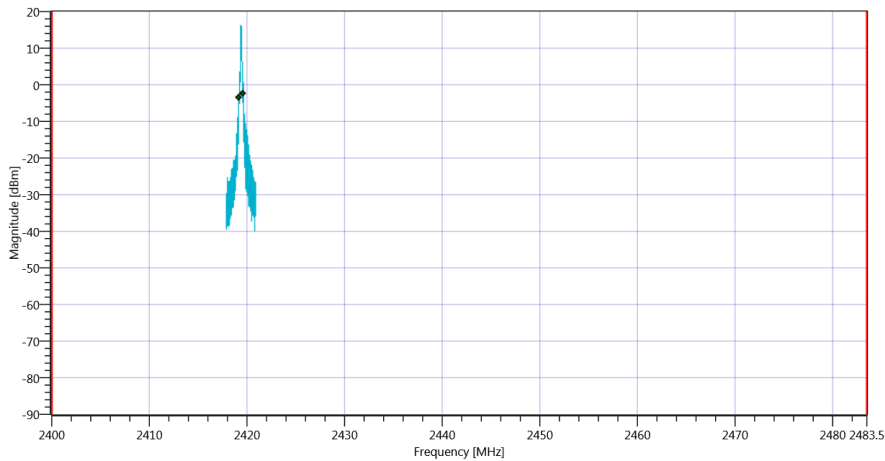


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_171117.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	466	kHz	INFO
T1 20dB	2400.000000	---	2419.1516	MHz	PASS
T2 20dB	---	2483.500000	2419.6181	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_171123.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_171127.png

TEST FINISHED		
General Verdict	06.08.2020 17:11:28 / RT: 43 s	PASS

5. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 17:24:10
Ambit Temp [°C] Humidity [rel%]	26.1 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

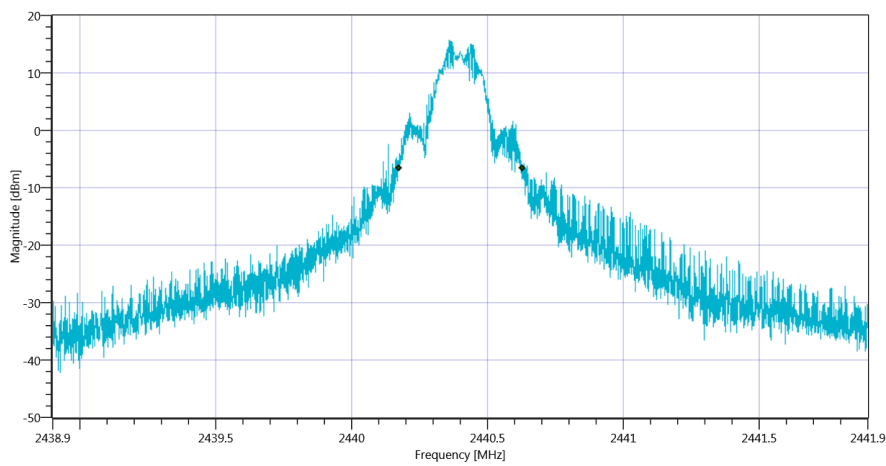
Test at TX 2440.4 MHz

READ SA SETTINGS:

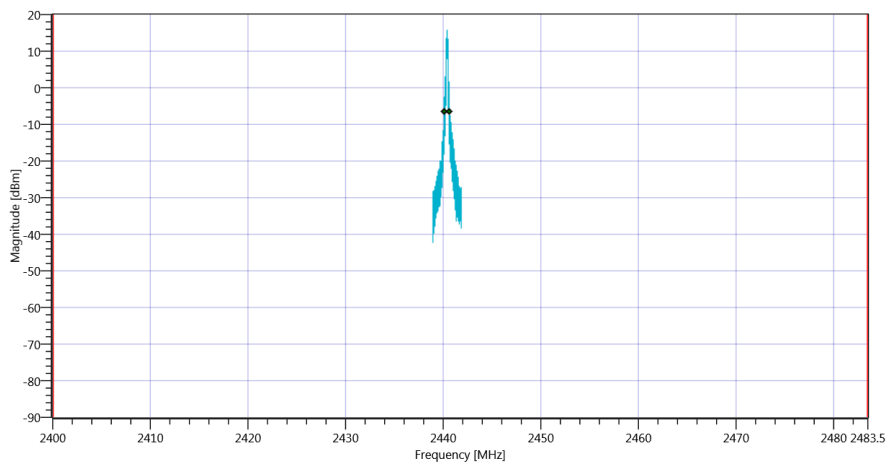
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	21.45 10.29 30
Start [MHz] Stop [MHz]	2438.900 2441.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	453	kHz	INFO
T1 99%	2400.000000	---	2440.1747	MHz	PASS
T2 99%	---	2483.500000	2440.6274	MHz	PASS



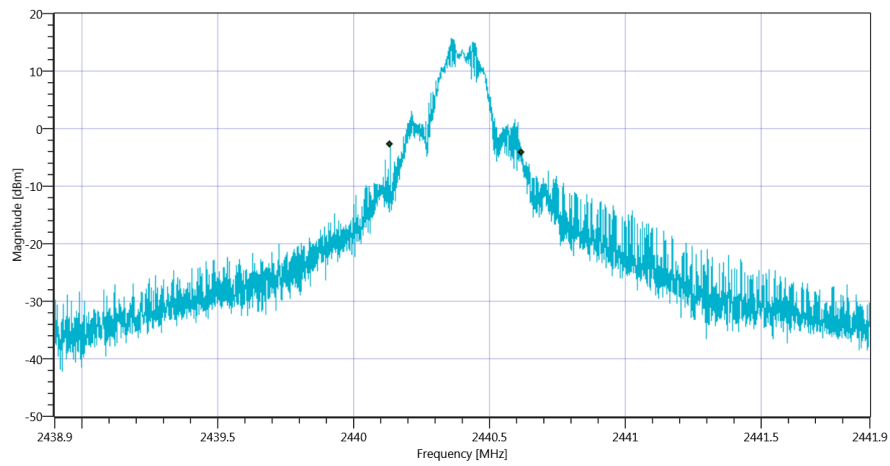
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_172440.png



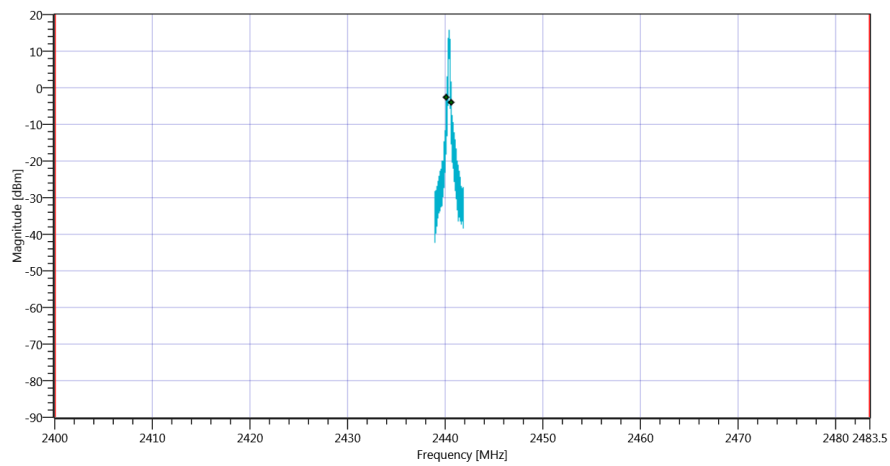
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_172444.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	485	kHz	INFO
T1 20dB	2400.000000	---	2440.1342	MHz	PASS
T2 20dB	---	2483.500000	2440.6190	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_172450.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_172454.png

TEST FINISHED

General Verdict

06.08.2020 17:24:54 / RT: 43 s

PASS

6. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	07.08.2020 07:56:41
Ambit Temp [°C] Humidity [rel%]	27.1 42
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2474.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

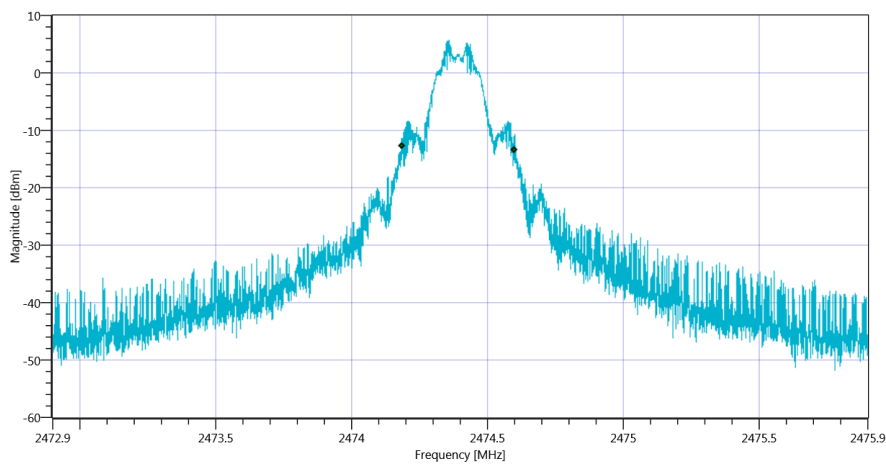
Test at TX 2474.4 MHz

READ SA SETTINGS:

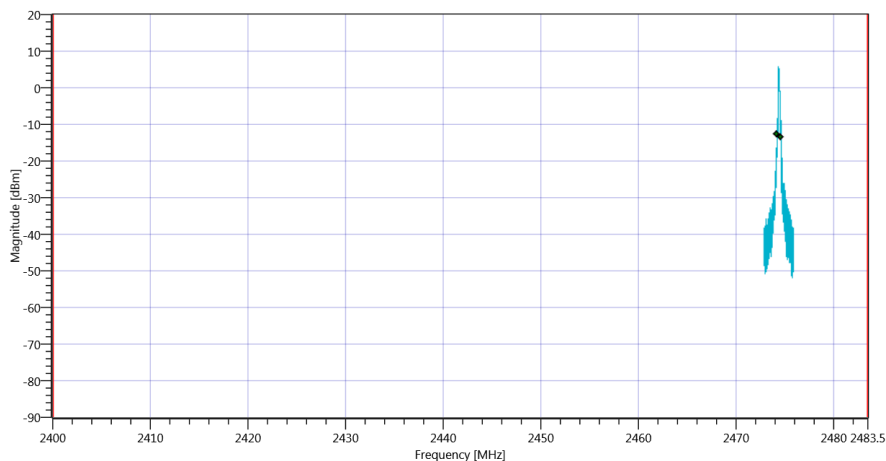
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.20 10.35 20
Start [MHz] Stop [MHz]	2472.900 2475.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	411	kHz	INFO
T1 99%	2400.000000	---	2474.1873	MHz	PASS
T2 99%	---	2483.500000	2474.5980	MHz	PASS



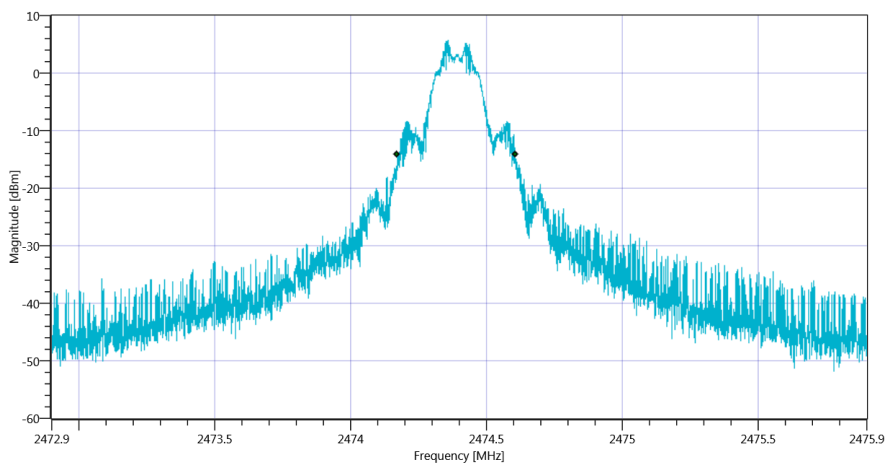
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_07082020_075711.png



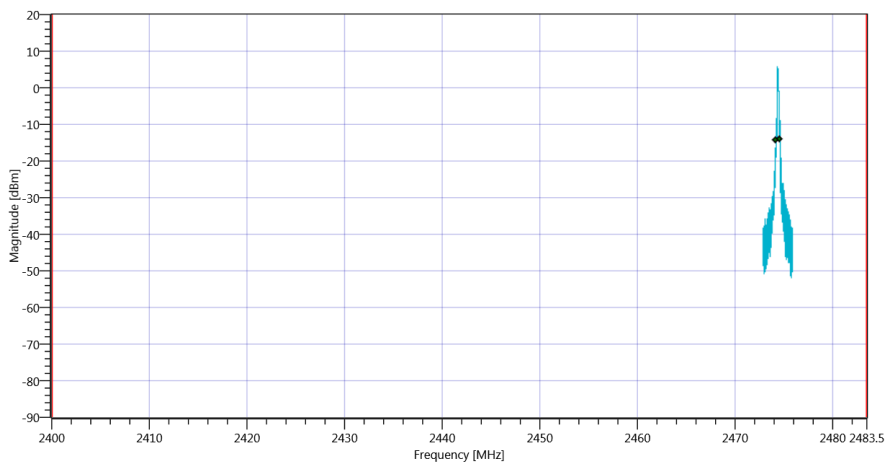
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_075715.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	434	kHz	INFO
T1 20dB	2400.000000	---	2474.1726	MHz	PASS
T2 20dB	---	2483.500000	2474.6061	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_07082020_075720.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_075724.png

TEST FINISHED		
General Verdict	07.08.2020 07:57:25 / RT: 43 s	PASS

7. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	07.08.2020 08:26:56
Ambit Temp [°C] Humidity [rel%]	28.7 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2477.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

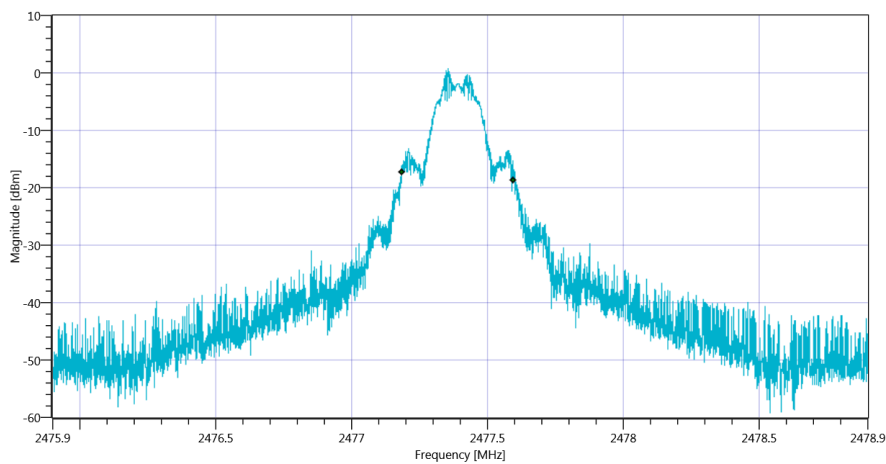
Test at TX 2477.4 MHz

READ SA SETTINGS:

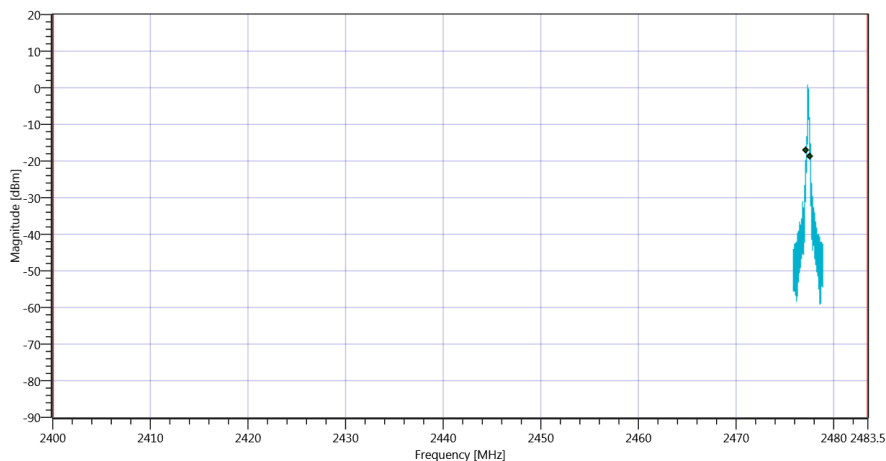
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.20 10.35 15
Start [MHz] Stop [MHz]	2475.900 2478.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	410	kHz	INFO
T1 99%	2400.000000	---	2477.1852	MHz	PASS
T2 99%	---	2483.500000	2477.5953	MHz	PASS



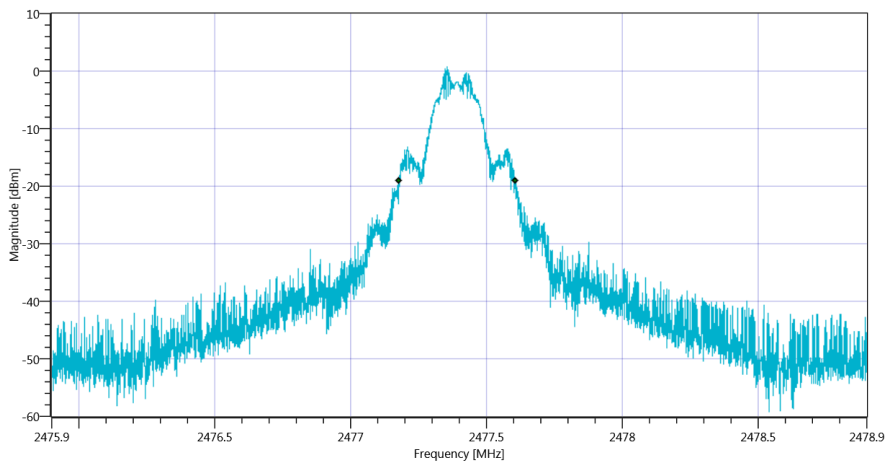
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_07082020_082725.png



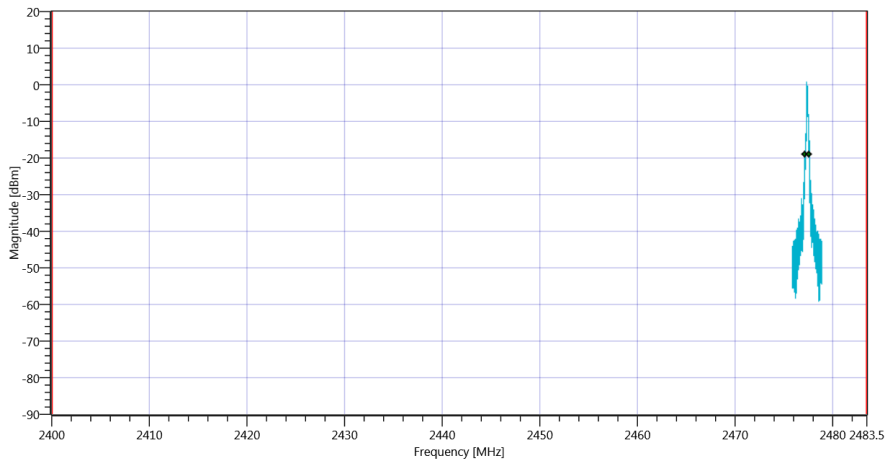
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_082729.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	430	kHz	INFO
T1 20dB	2400.000000	---	2477.1771	MHz	PASS
T2 20dB	---	2483.500000	2477.6067	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_07082020_082734.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_082739.png

TEST FINISHED		
General Verdict	07.08.2020 08:27:39 / RT: 43 s	PASS

8. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	07.08.2020 08:46:52
Ambit Temp [°C] Humidity [rel%]	28.8 40
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2478.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

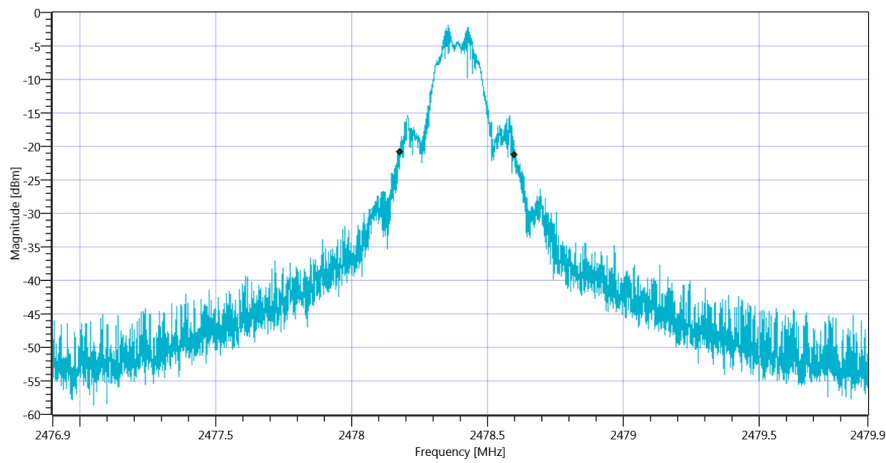
Test at TX 2478.4 MHz

READ SA SETTINGS:

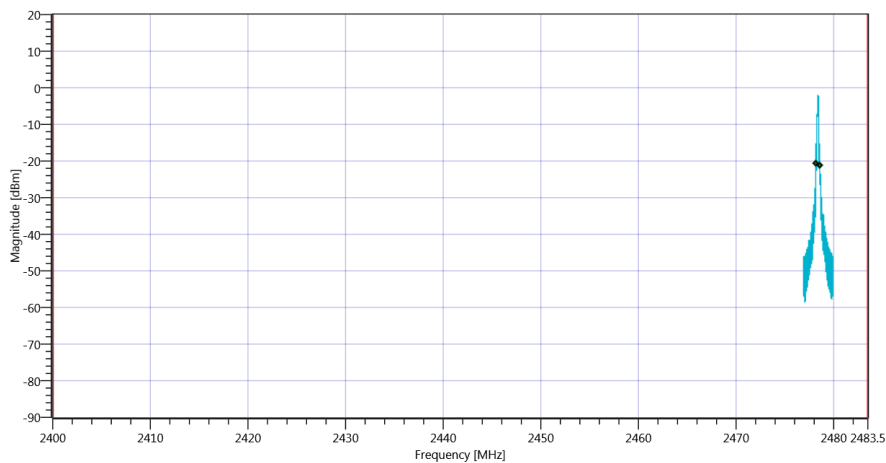
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.69 10.35 10
Start [MHz] Stop [MHz]	2476.900 2479.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	422	kHz	INFO
T1 99%	2400.000000	---	2478.1789	MHz	PASS
T2 99%	---	2483.500000	2478.6010	MHz	PASS



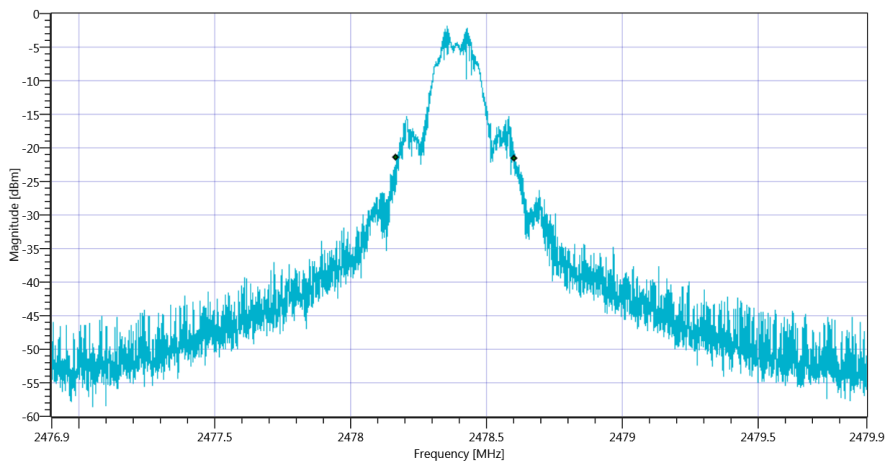
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_07082020_084721.png



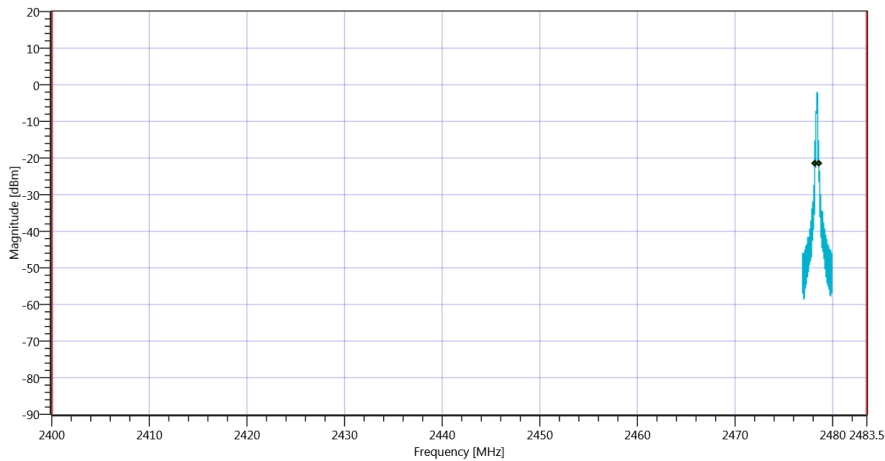
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_084725.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	436	kHz	INFO
T1 20dB	2400.000000	---	2478.1684	MHz	PASS
T2 20dB	---	2483.500000	2478.6049	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_07082020_084731.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_084735.png

TEST FINISHED		
General Verdict	07.08.2020 08:47:36 / RT: 43 s	PASS

9. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	07.08.2020 09:06:51
Ambit Temp [°C] Humidity [rel%]	29.0 40
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2479.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

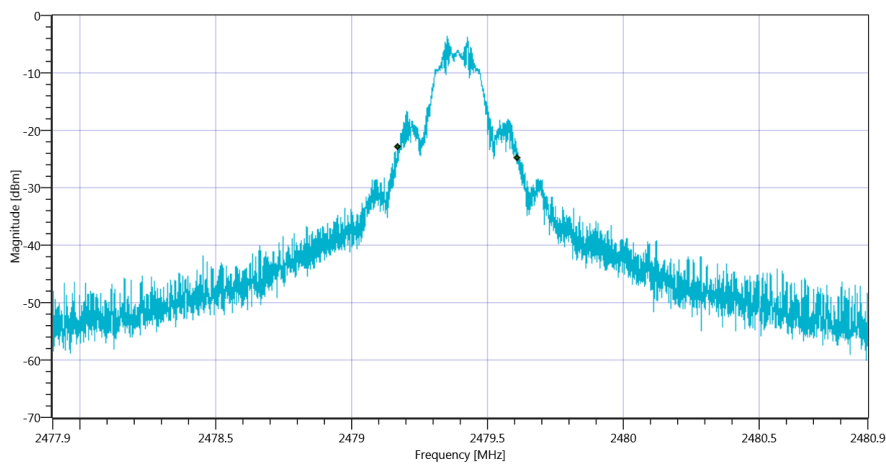
Test at TX 2479.4 MHz

READ SA SETTINGS:

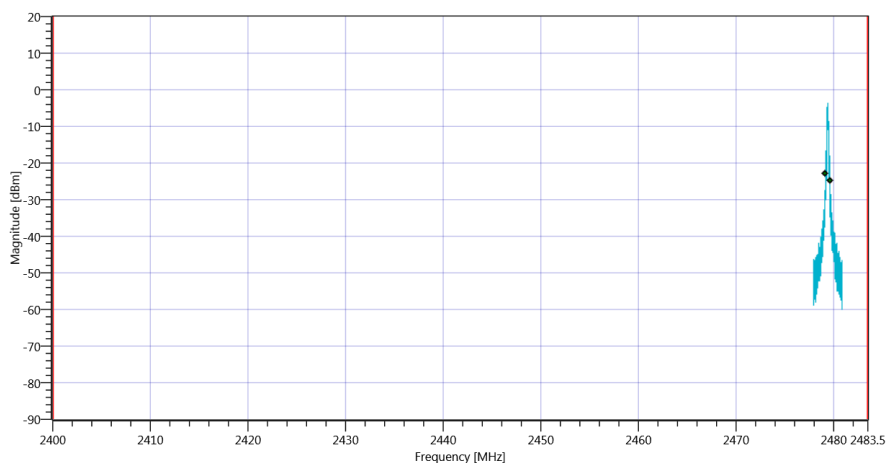
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	1.71 10.35 10
Start [MHz] Stop [MHz]	2477.900 2480.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	442	kHz	INFO
T1 99%	2400.000000	---	2479.1699	MHz	PASS
T2 99%	---	2483.500000	2479.6118	MHz	PASS



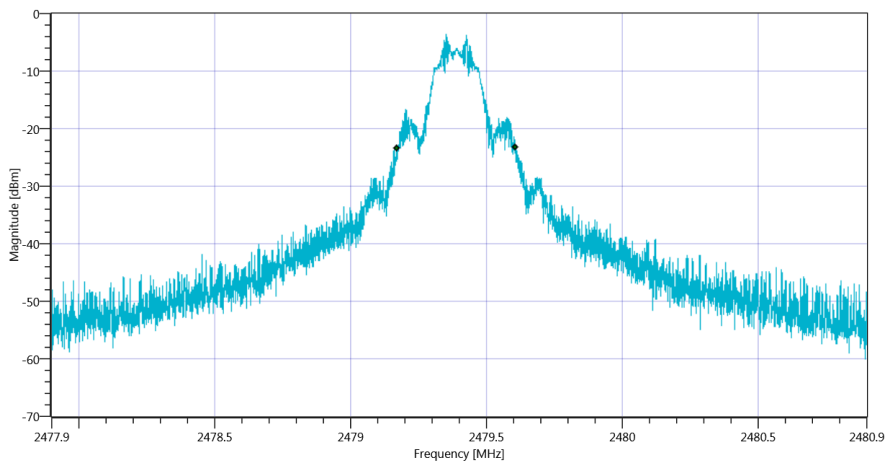
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_07082020_090720.png



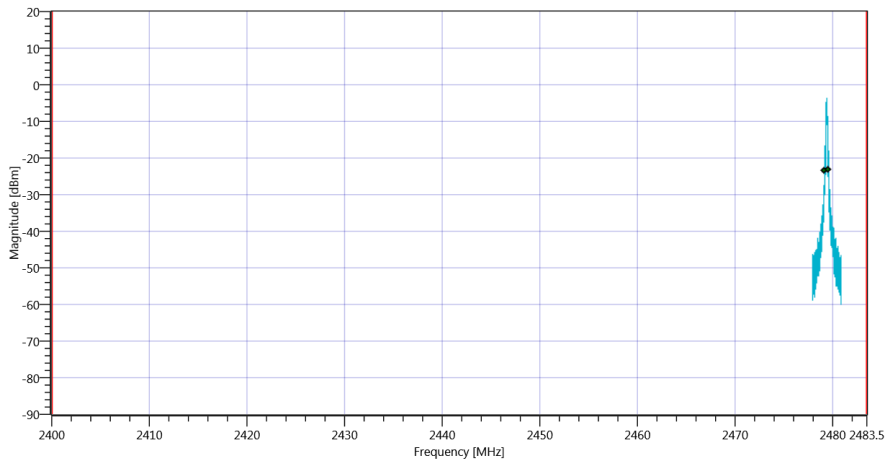
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_090724.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	438	kHz	INFO
T1 20dB	2400.000000	---	2479.1693	MHz	PASS
T2 20dB	---	2483.500000	2479.6073	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_07082020_090730.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_090734.png

TEST FINISHED		
General Verdict	07.08.2020 09:07:35 / RT: 43 s	PASS

10. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	07.08.2020 09:20:14
Ambit Temp [°C] Humidity [rel%]	29.3 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

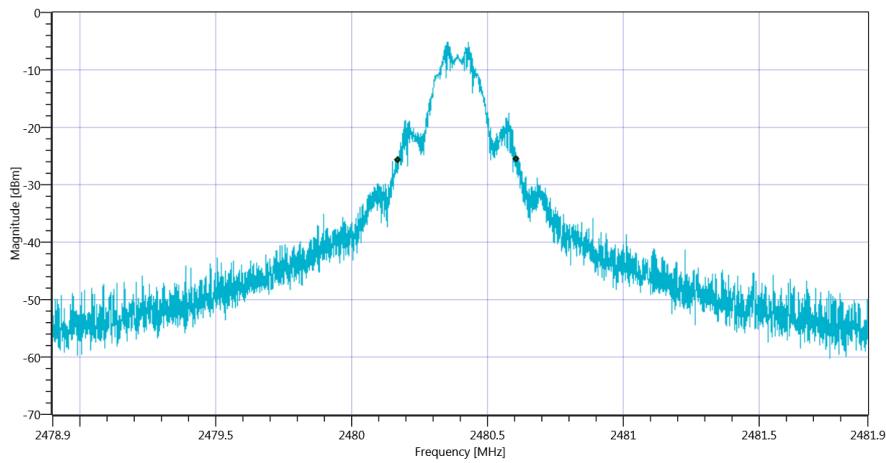
Test at TX 2480.4 MHz

READ SA SETTINGS:

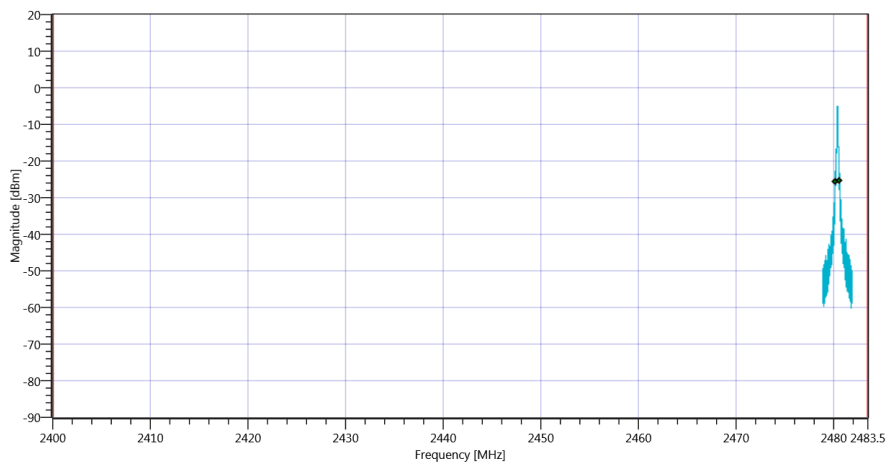
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.25 10.36 5
Start [MHz] Stop [MHz]	2478.900 2481.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	437	kHz	INFO
T1 99%	2400.000000	---	2480.1708	MHz	PASS
T2 99%	---	2483.500000	2480.6076	MHz	PASS



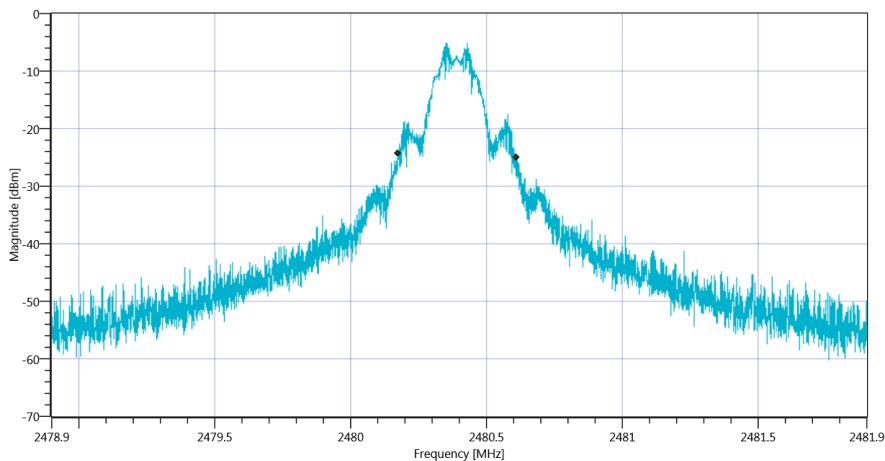
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_07082020_092043.png



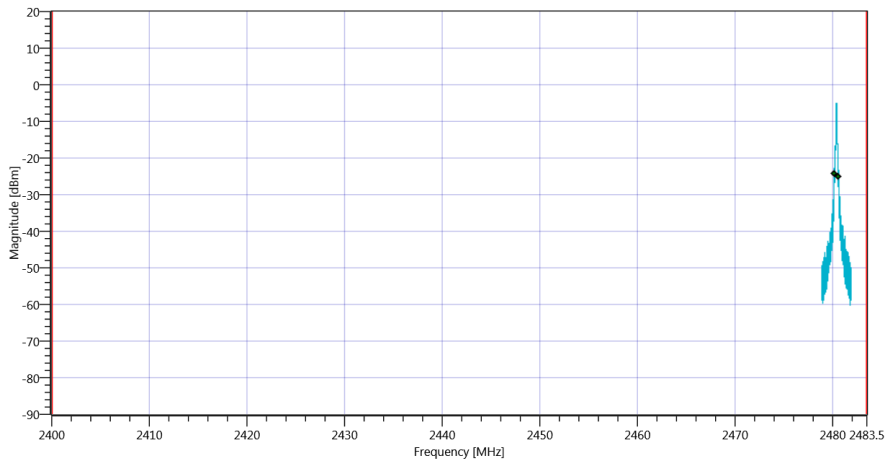
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_092048.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	436	kHz	INFO
T1 20dB	2400.000000	---	2480.1747	MHz	PASS
T2 20dB	---	2483.500000	2480.6112	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_07082020_092053.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_092057.png

TEST FINISHED		
General Verdict	07.08.2020 09:20:58 / RT: 43 s	PASS

11. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 11:56:05
Ambit Temp [°C] Humidity [rel%]	26.9 39
System Version	1.0.0.49
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 - 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] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

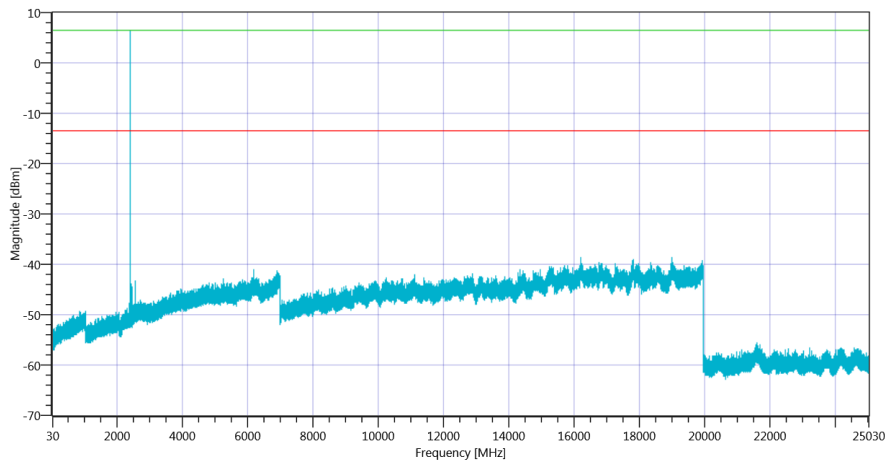
Test at TX 2401.4 MHz

READ SA SETTINGS:

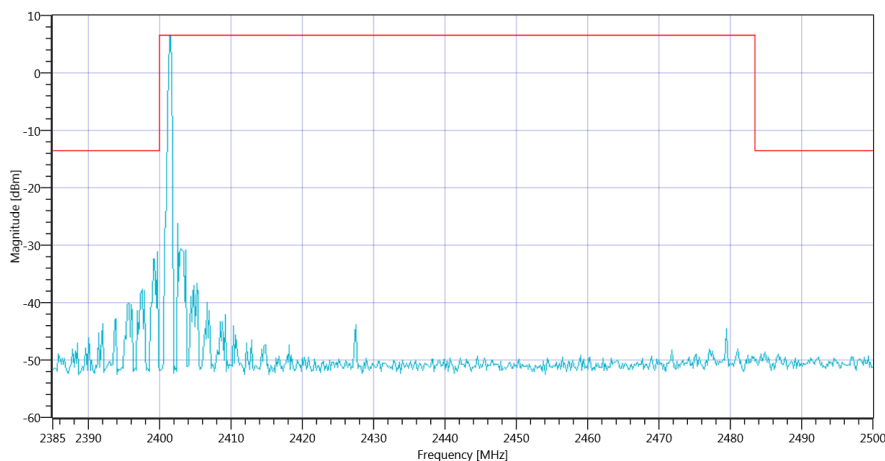
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.92 0 25
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2500 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2401.50 MHz	---	---	6.50	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2399.667 MHz	0	---	17.66	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2401.4_07082020_121912.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2401.4_07082020_121915.png

TEST FINISHED

General Verdict 07.08.2020 12:19:16 / RT: 1390 s

PASS

12. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 12:42:20
Ambit Temp [°C] Humidity [rel%]	26.7 38
System Version	1.0.0.49
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 - 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] 2402.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

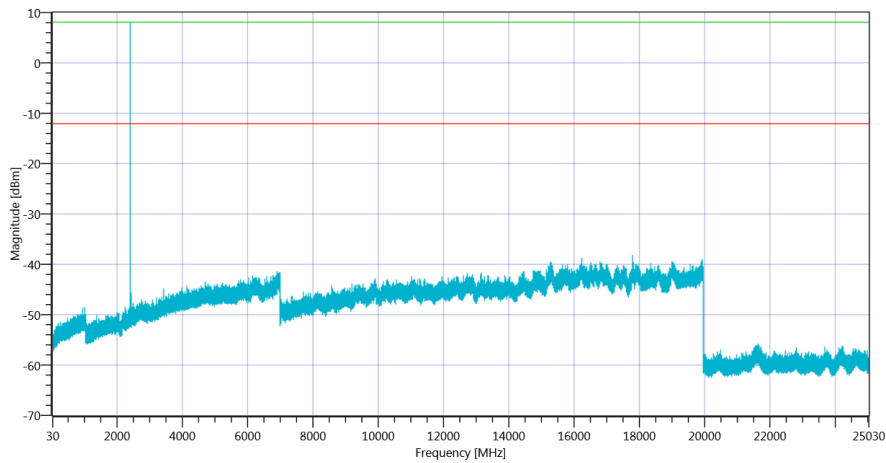
Test at TX 2402.4 MHz

READ SA SETTINGS:

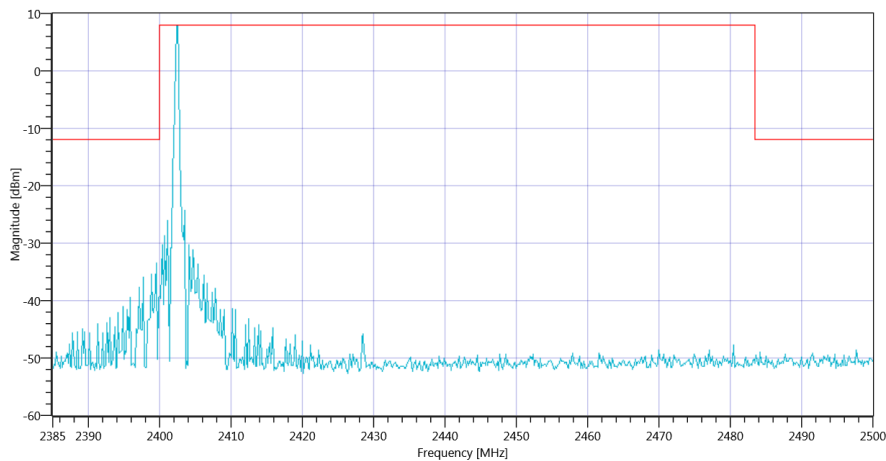
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.51 0 25
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2500 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2402.50 MHz	---	---	8.01	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2399.5 MHz	0	---	21.54	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2402.4_07082020_130526.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2402.4_07082020_130529.png

TEST FINISHED

General Verdict 07.08.2020 13:05:31 / RT: 1390 s

PASS

13. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 13:06:35
Ambit Temp [°C] Humidity [rel%]	26.9 39
System Version	1.0.0.49
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 - 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] 2404.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

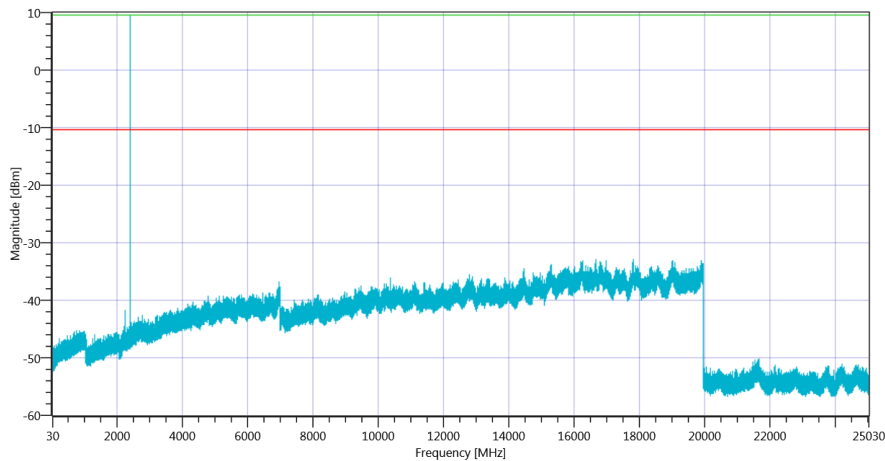
Test at TX 2404.4 MHz

READ SA SETTINGS:

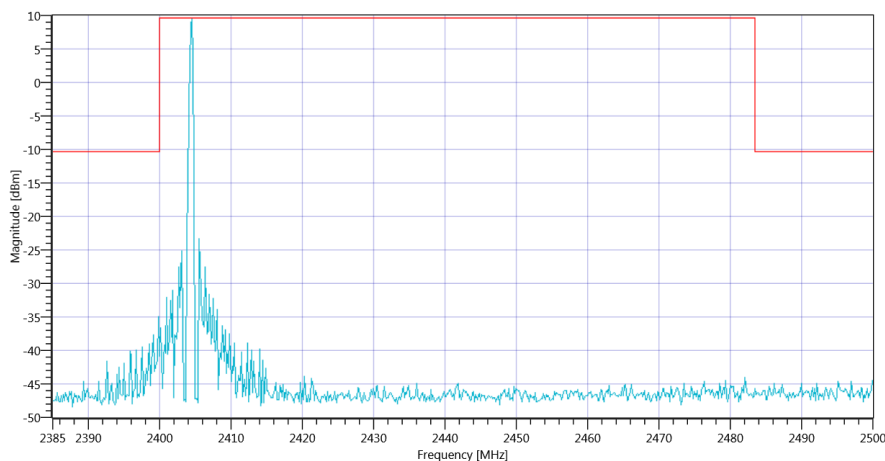
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.01 0 30
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2500 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2404.50 MHz	---	---	9.61	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 16665.167 MHz	0	---	22.49	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2404.4_07082020_132942.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2404.4_07082020_132945.png

TEST FINISHED

General Verdict 07.08.2020 13:29:46 / RT: 1390 s

PASS

14. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 13:36:53
Ambit Temp [°C] Humidity [rel%]	26.6 38
System Version	1.0.0.49
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 - 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] 2419.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

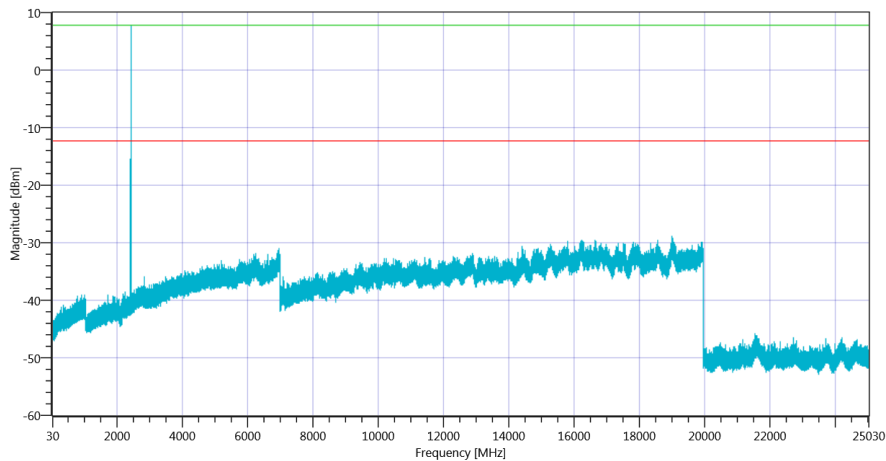
Test at TX 2419.4 MHz

READ SA SETTINGS:

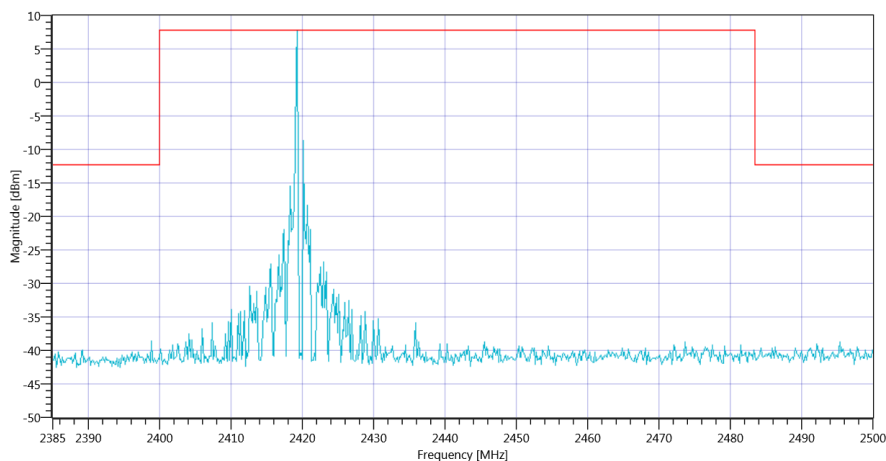
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.46 0 35
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2500 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2419.33 MHz	---	---	7.75	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 18992.833 MHz	0	---	16.62	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2419.4_07082020_140000.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2419.4_07082020_140002.png

TEST FINISHED

General Verdict 07.08.2020 14:00:04 / RT: 1390 s

PASS

15. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 14:07:24
Ambit Temp [°C] Humidity [rel%]	26.6 37
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2477.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

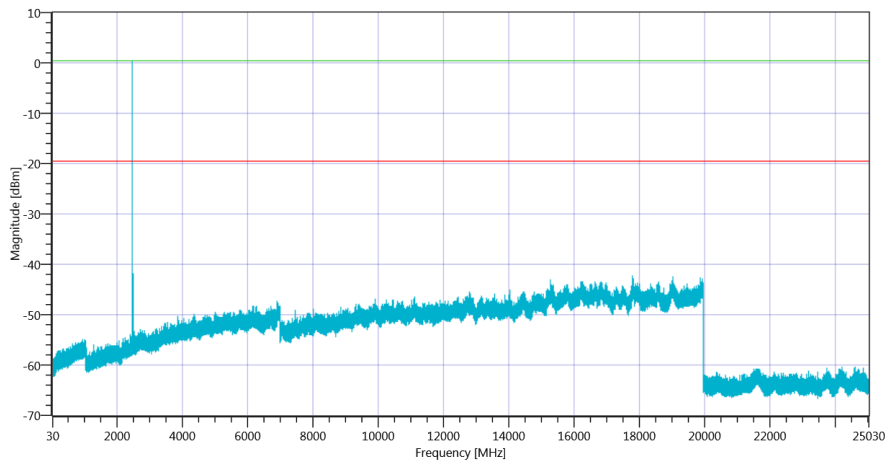
Test at TX 2477.4 MHz

READ SA SETTINGS:

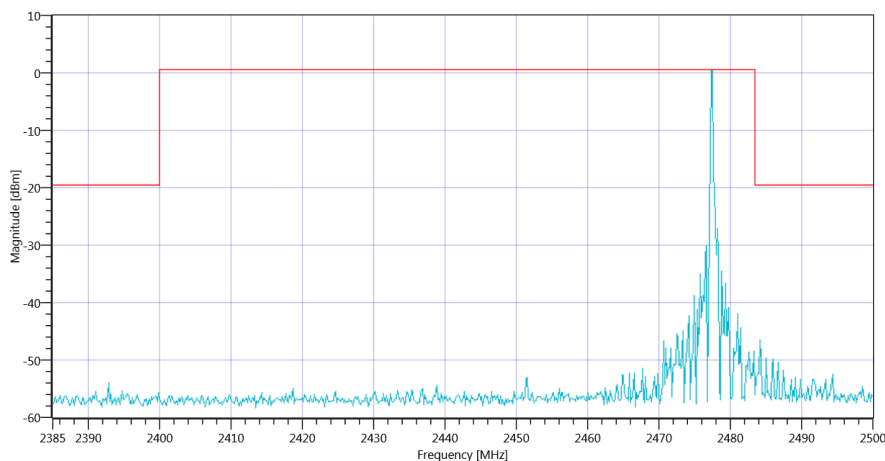
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.78 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2500 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2477.50 MHz	---	---	0.52	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 17802.333 MHz	0	---	22.74	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2477.4_07082020_143031.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2477.4_07082020_143033.png

TEST FINISHED

General Verdict 07.08.2020 14:30:35 / RT: 1391 s

PASS

16. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 17:13:57
Ambit Temp [°C] Humidity [rel%]	26.2 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

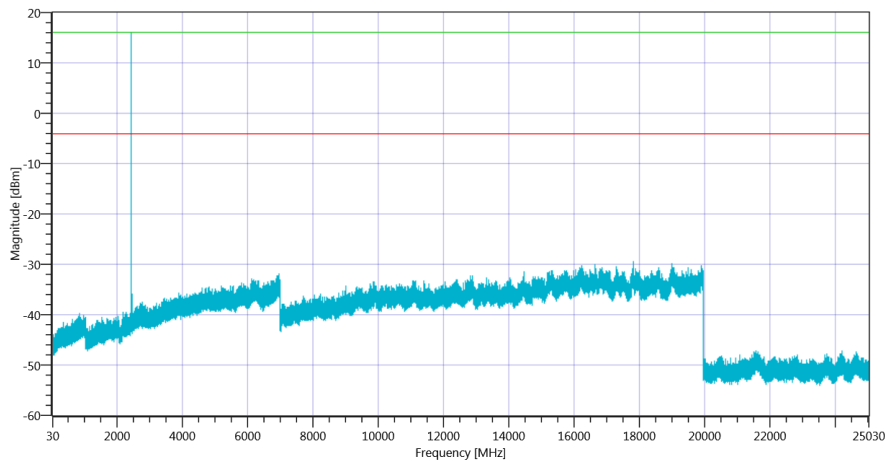
Test at TX 2440.4 MHz

READ SA SETTINGS:

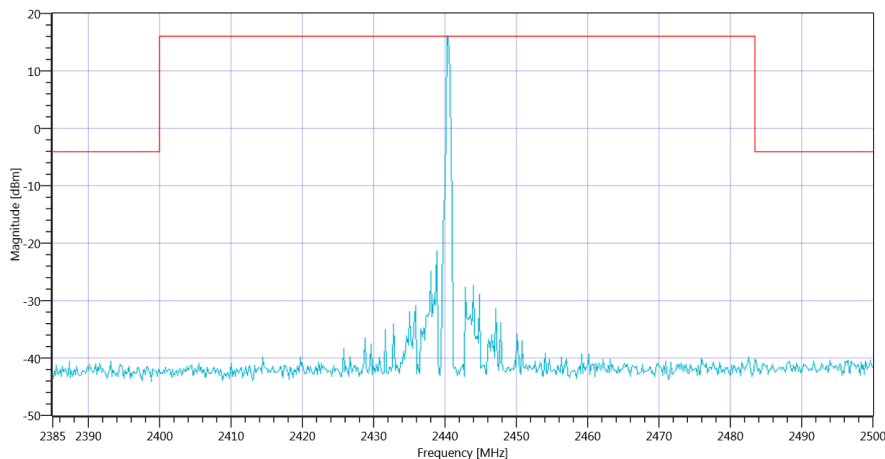
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.49 0 35
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2440.50 MHz	---	---	16.01	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 17806 MHz	0	---	25.42	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2440.4_06082020_172402.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2440.4_06082020_172405.png

TEST FINISHED

General Verdict 06.08.2020 17:24:06 / RT: 609 s

PASS

17. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 07:46:27
Ambit Temp [°C] Humidity [rel%]	26.2 44
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2474.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

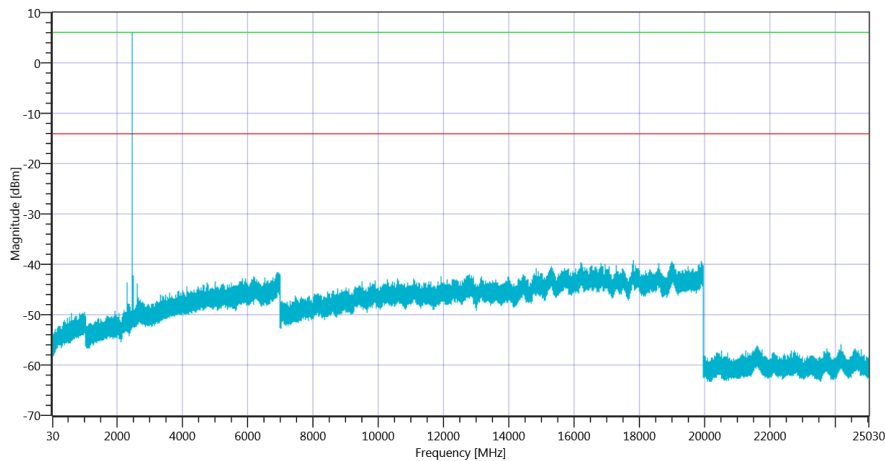
Test at TX 2474.4 MHz

READ SA SETTINGS:

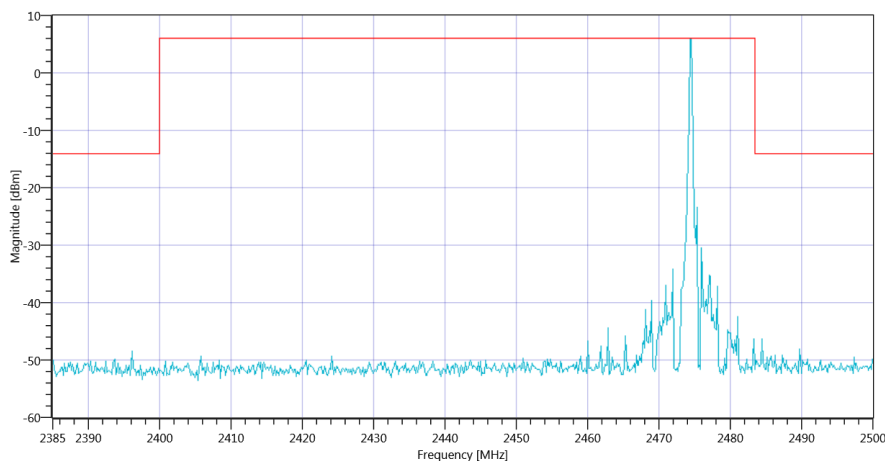
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.50 0 25
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2474.50 MHz	---	---	6.02	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 17809.333 MHz	0	---	25.31	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2474.4_07082020_075632.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2474.4_07082020_075635.png

TEST FINISHED

General Verdict 07.08.2020 07:56:37 / RT: 609 s

PASS

18. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 08:36:39
Ambit Temp [°C] Humidity [rel%]	29.0 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2478.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

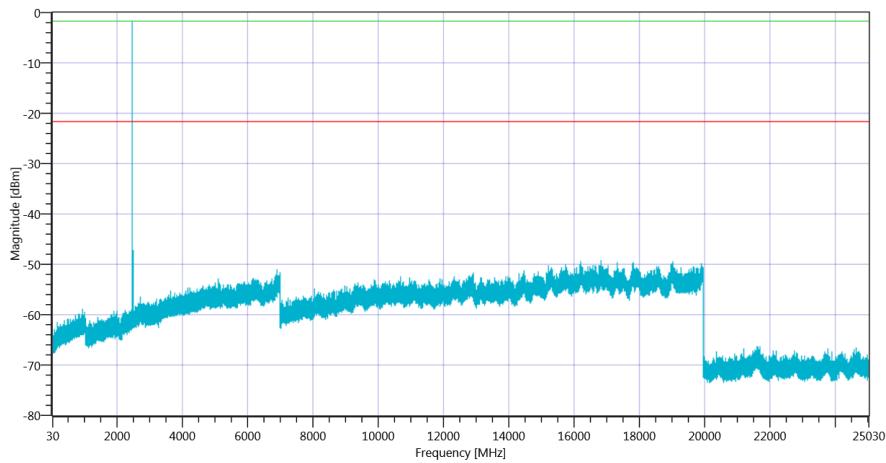
Test at TX 2478.4 MHz

READ SA SETTINGS:

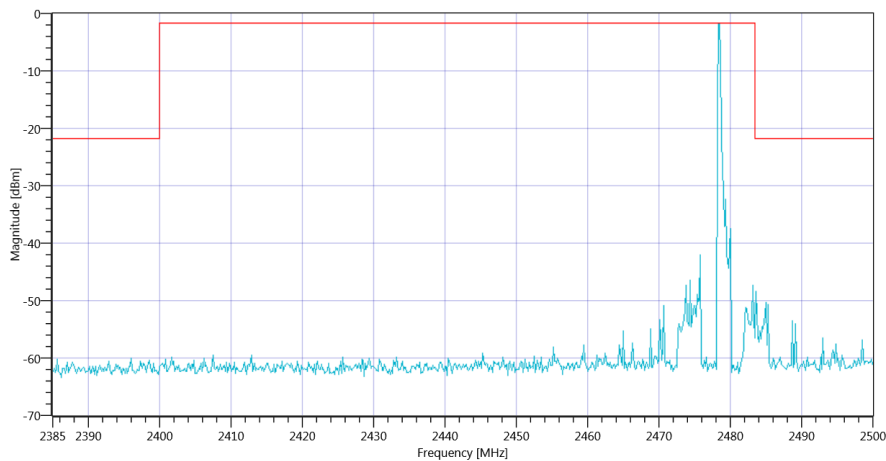
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-0.98 0 15
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2478.33 MHz	---	---	-1.71	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2483.667 MHz	0	---	26.65	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2478.4_07082020_084643.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2478.4_07082020_084646.png

TEST FINISHED

General Verdict 07.08.2020 08:46:48 / RT: 609 s

PASS

19. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 08:56:38
Ambit Temp [°C] Humidity [rel%]	28.9 40
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2479.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

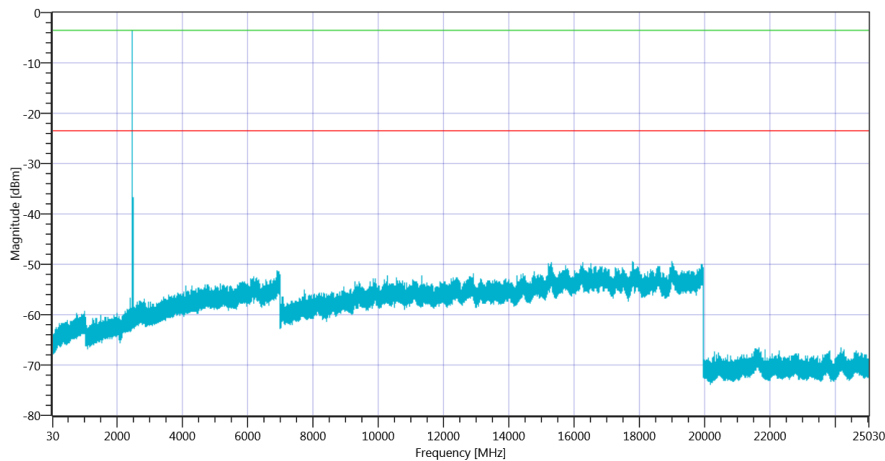
Test at TX 2479.4 MHz

READ SA SETTINGS:

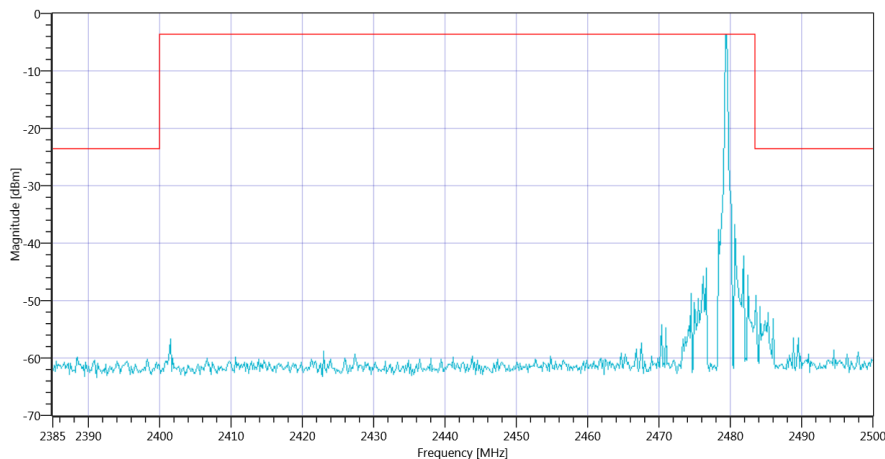
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-3.09 0 15
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2479.50 MHz	---	---	-3.57	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2483.667 MHz	0	---	25.46	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2479.4_07082020_090642.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2479.4_07082020_090645.png

TEST FINISHED

General Verdict 07.08.2020 09:06:47 / RT: 609 s

PASS

20. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 09:10:01
Ambit Temp [°C] Humidity [rel%]	29.1 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

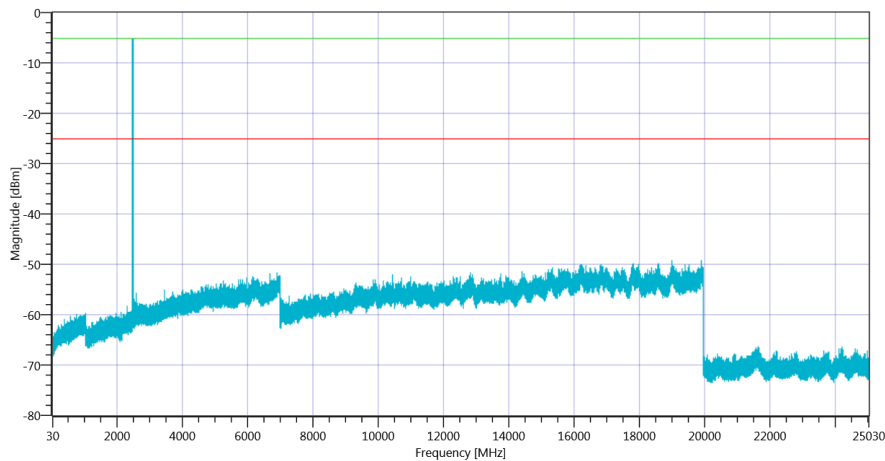
Test at TX 2480.4 MHz

READ SA SETTINGS:

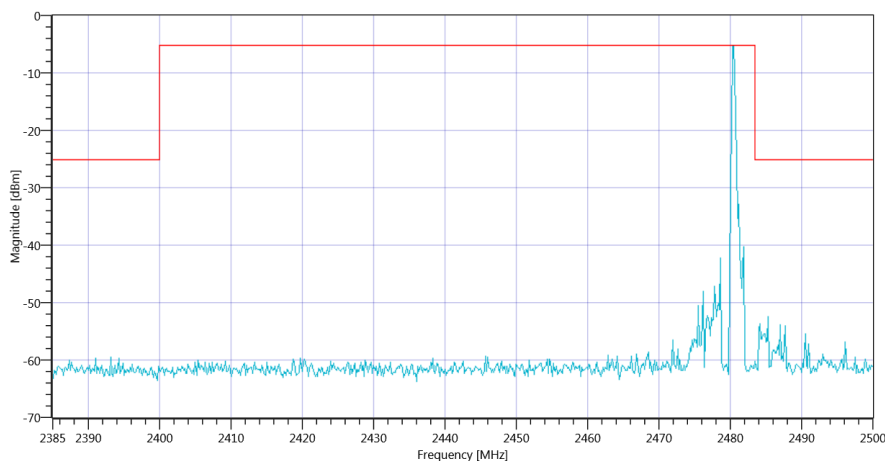
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.57 0 15
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2480.50 MHz	---	---	-5.15	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 18999.667 MHz	0	---	24.07	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2480.4_07082020_092005.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2480.4_07082020_092008.png

TEST FINISHED

General Verdict 07.08.2020 09:20:10 / RT: 609 s

PASS

21. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 14:01:47
Ambit Temp [°C] Humidity [rel%]	26.5 38
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

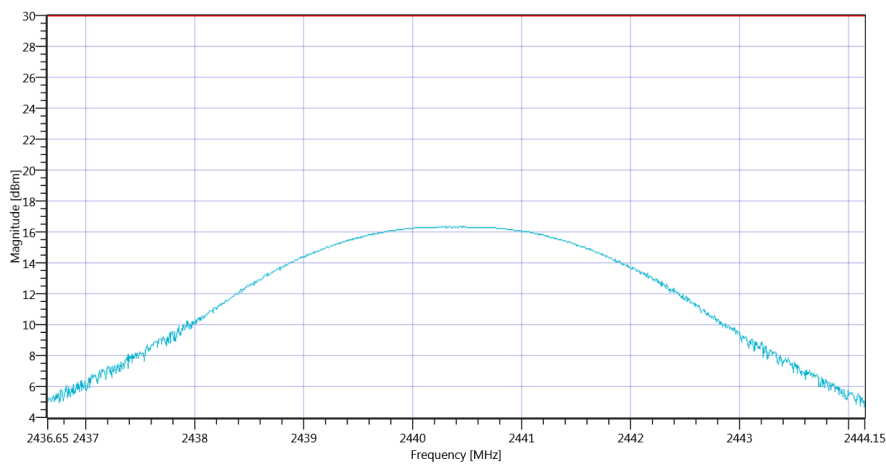
Test at TX 2440.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	26.28 10.29 35
Start [MHz] Stop [MHz]	2436.650 2444.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	5000 15 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	16.33	dBm	PASS
Peak Power	---	1000	42.953643	mW	PASS
Frequency at Peak	---	---	2440.438	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_140323.png

TEST FINISHED

General Verdict	07.08.2020 14:03:23 / RT: 95 s	PASS
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22. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 14:06:10
Ambit Temp [°C] Humidity [rel%]	26.6 37
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2477.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

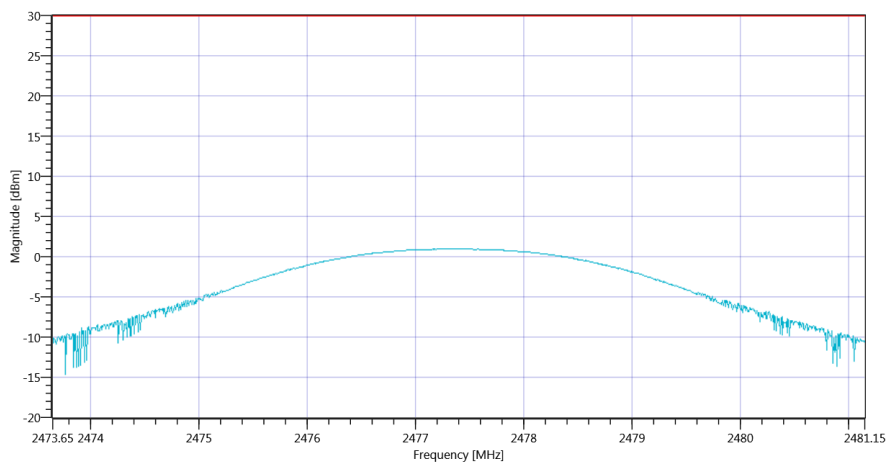
Test at TX 2477.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.84 10.35 20
Start [MHz] Stop [MHz]	2473.650 2481.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	500 100 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	0.93	dBm	PASS
Peak Power	---	1000	1.238797	mW	PASS
Frequency at Peak	---	---	2477.348	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_140719.png

TEST FINISHED

General Verdict	07.08.2020 14:07:20 / RT: 69 s	PASS
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23. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 14:37:25
Ambit Temp [°C] Humidity [rel%]	26.3 38
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

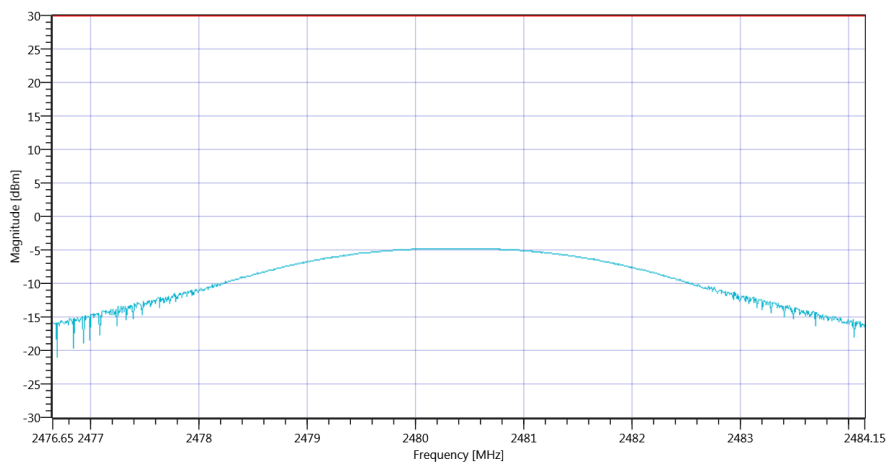
Test at TX 2480.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.09 10.36 10
Start [MHz] Stop [MHz]	2476.650 2484.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	5000 10 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	-4.79	dBm	PASS
Peak Power	---	1000	0.331894	mW	PASS
Frequency at Peak	---	---	2480.4	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_143834.png

TEST FINISHED

General Verdict	07.08.2020 14:38:35 / RT: 69 s	PASS
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24. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:08:20
Ambit Temp [°C] Humidity [rel%]	25.9 38
System Version	1.0.0.49
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 - 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] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

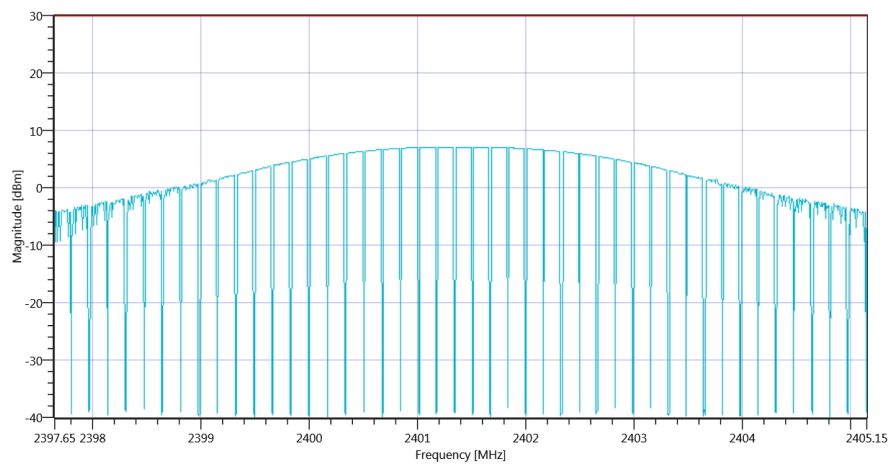
Test at TX 2401.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.05 10.21 25
Start [MHz] Stop [MHz]	2397.650 2405.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1500 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	7.08	dBm	PASS
Peak Power	---	1000	5.10505	mW	PASS
Frequency at Peak	---	---	2401.28	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_160916.png

TEST FINISHED

General Verdict	06.08.2020 16:09:16 / RT: 56 s	PASS
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25. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:21:36
Ambit Temp [°C] Humidity [rel%]	25.9 38
System Version	1.0.0.49
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 - 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] 2402.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

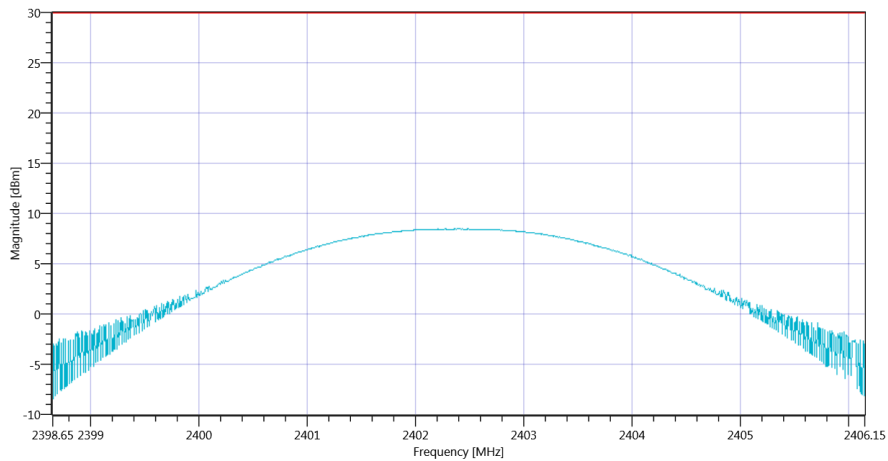
Test at TX 2402.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	18.41 10.21 25
Start [MHz] Stop [MHz]	2398.650 2406.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	8.45	dBm	PASS
Peak Power	---	1000	6.99842	mW	PASS
Frequency at Peak	---	---	2402.392	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_162219.png

TEST FINISHED

General Verdict	06.08.2020 16:22:19 / RT: 43 s	PASS
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26. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:44:03
Ambit Temp [°C] Humidity [rel%]	25.8 39
System Version	1.0.0.49
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 - 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] 2404.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

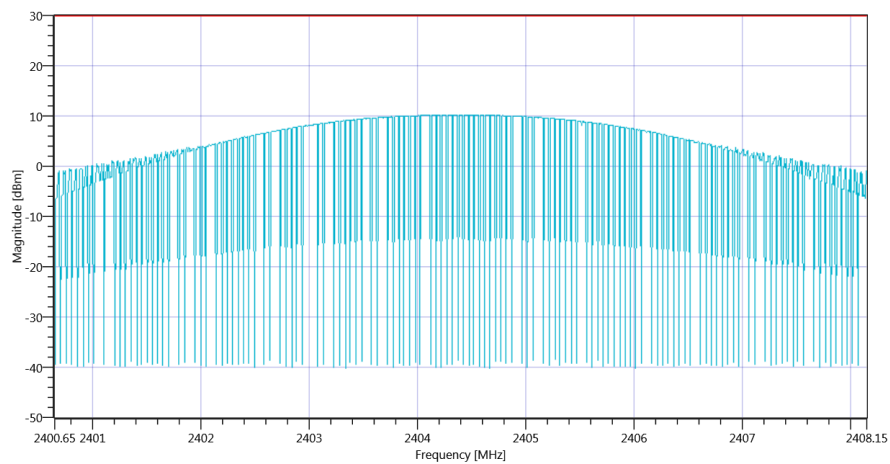
Test at TX 2404.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.13 10.21 25
Start [MHz] Stop [MHz]	2400.650 2408.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	10.14	dBm	PASS
Peak Power	---	1000	10.327614	mW	PASS
Frequency at Peak	---	---	2404.34	MHz	Information



TEST FINISHED

General Verdict	06.08.2020 16:44:46 / RT: 43 s	PASS
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27. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 16:59:42
Ambit Temp [°C] Humidity [rel%]	26.2 41
System Version	1.0.0.49
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 - 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] 2419.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

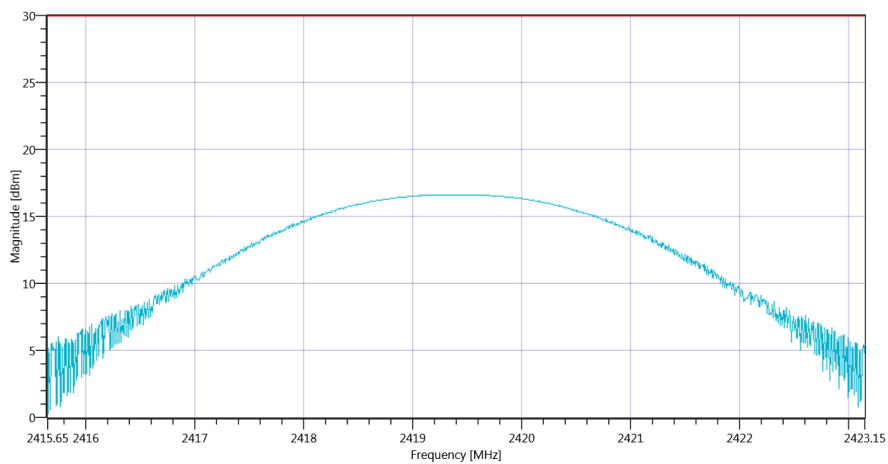
Test at TX 2419.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	26.56 10.24 35
Start [MHz] Stop [MHz]	2415.650 2423.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	16.61	dBm	PASS
Peak Power	---	1000	45.814189	mW	PASS
Frequency at Peak	---	---	2419.415	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_170026.png

TEST FINISHED

General Verdict 06.08.2020 17:00:26 / RT: 43 s

PASS

28. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 07:45:40
Ambit Temp [°C] Humidity [rel%]	26.1 44
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2474.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

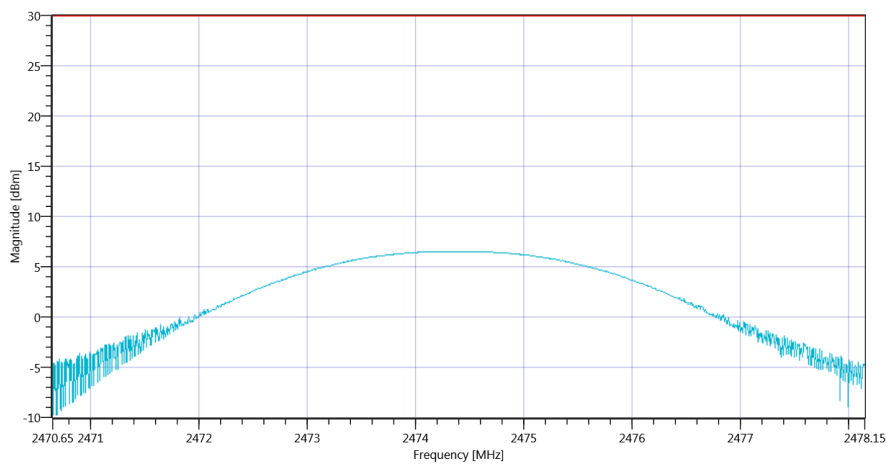
Test at TX 2474.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.40 10.35 25
Start [MHz] Stop [MHz]	2470.650 2478.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	6.5	dBm	PASS
Peak Power	---	1000	4.466836	mW	PASS
Frequency at Peak	---	---	2474.438	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_074622.png

TEST FINISHED

General Verdict	07.08.2020 07:46:23 / RT: 43 s	PASS
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29. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 08:35:51
Ambit Temp [°C] Humidity [rel%]	29.1 39
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2478.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

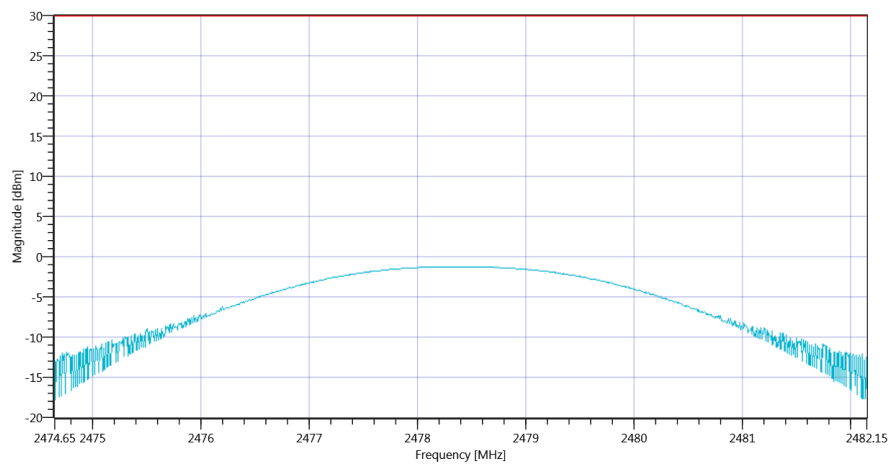
Test at TX 2478.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.65 10.35 15
Start [MHz] Stop [MHz]	2474.650 2482.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	-1.28	dBm	PASS
Peak Power	---	1000	0.744732	mW	PASS
Frequency at Peak	---	---	2478.43	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_083634.png

TEST FINISHED

General Verdict 07.08.2020 08:36:34 / RT: 43 s

PASS

30. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 08:55:49
Ambit Temp [°C] Humidity [rel%]	28.9 40
System Version	1.0.0.49
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 - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2479.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

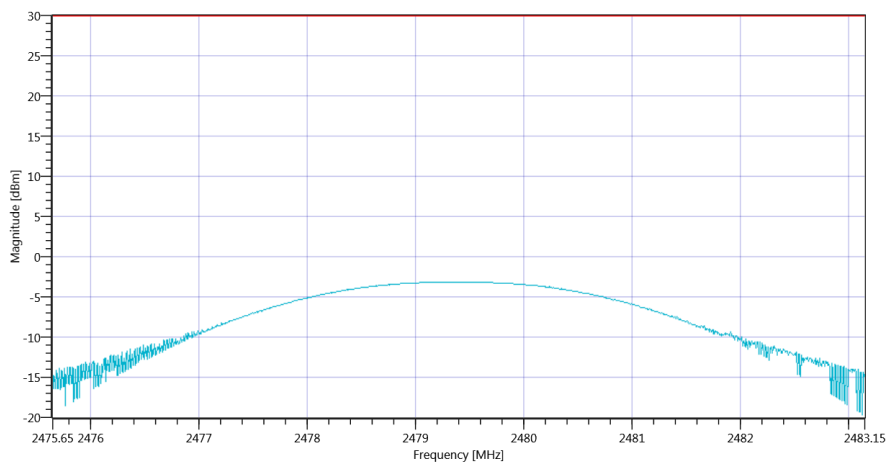
Test at TX 2479.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.73 10.35 15
Start [MHz] Stop [MHz]	2475.650 2483.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	-3.18	dBm	PASS
Peak Power	---	1000	0.480839	mW	PASS
Frequency at Peak	---	---	2479.415	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_085633.png

TEST FINISHED

General Verdict 07.08.2020 08:56:33 / RT: 43 s

PASS

31. Hardcopy Spectrum Analyzer ~

Test References

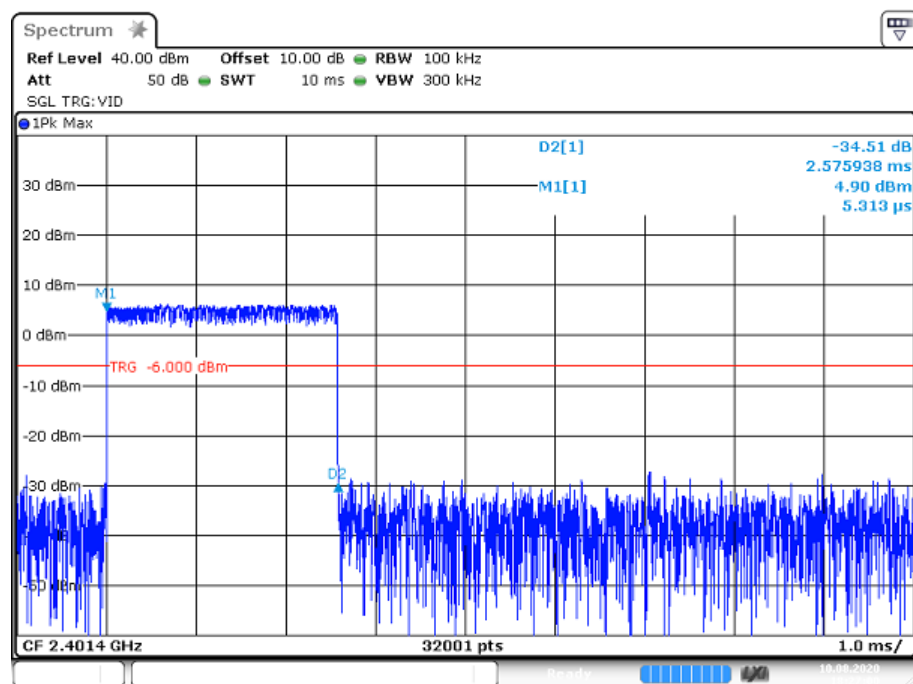
TC Start	10.08.2020 18:22:37
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2401.400 2401.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 32001 SWE



Date: 10.AUG 2020 18:27:01

HC_10082020_182240.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-34.509	dB	Information

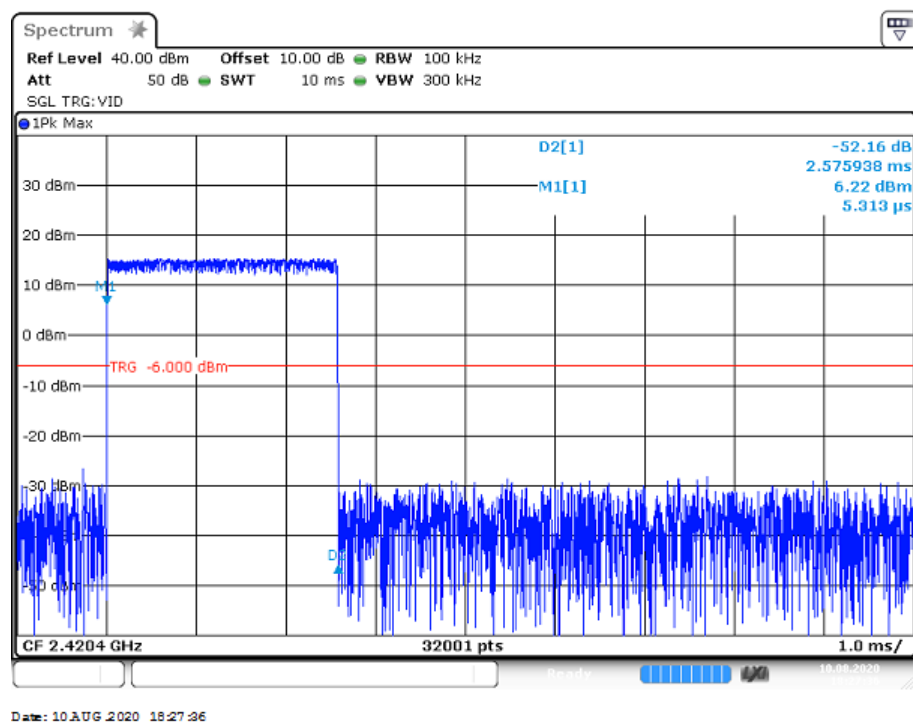
TEST FINISHED					
General Verdict	10.08.2020 18:22:55 / RT: 17 s			PASS	

32. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:23:12
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2420.400 2420.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 32001 SWE



HC_10082020_182315.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-52.159	dB	Information

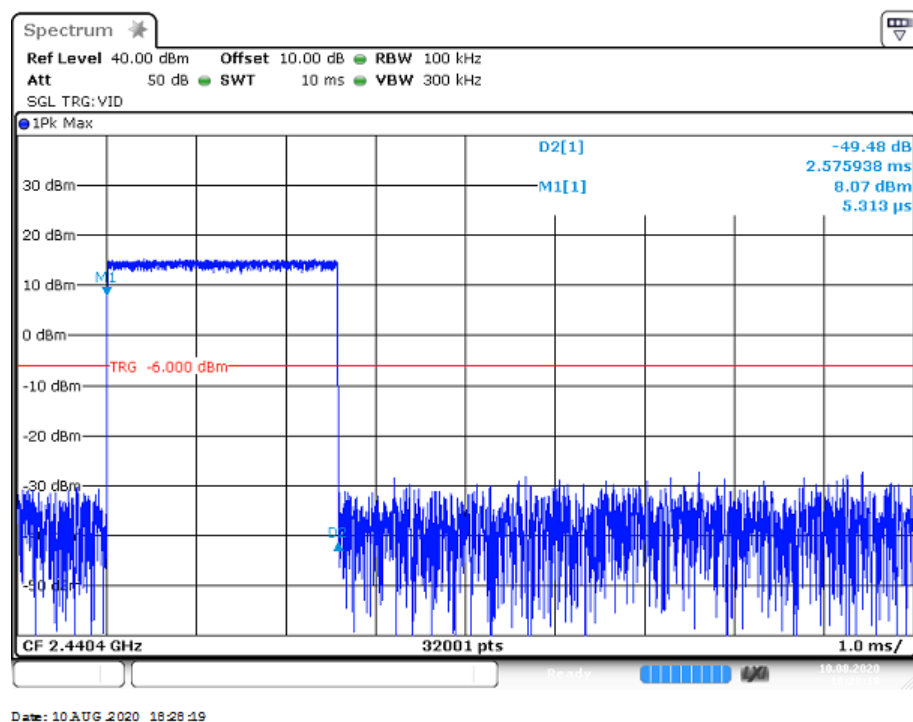
TEST FINISHED					
General Verdict	10.08.2020 18:23:30 / RT: 17 s			PASS	

33. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:23:55
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2440.400 2440.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 32001 SWE



HC_10082020_182358.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-49.478	dB	Information

TEST FINISHED					
General Verdict	10.08.2020 18:24:13 / RT: 17 s			PASS	

34. Hardcopy Spectrum Analyzer ~

Test References

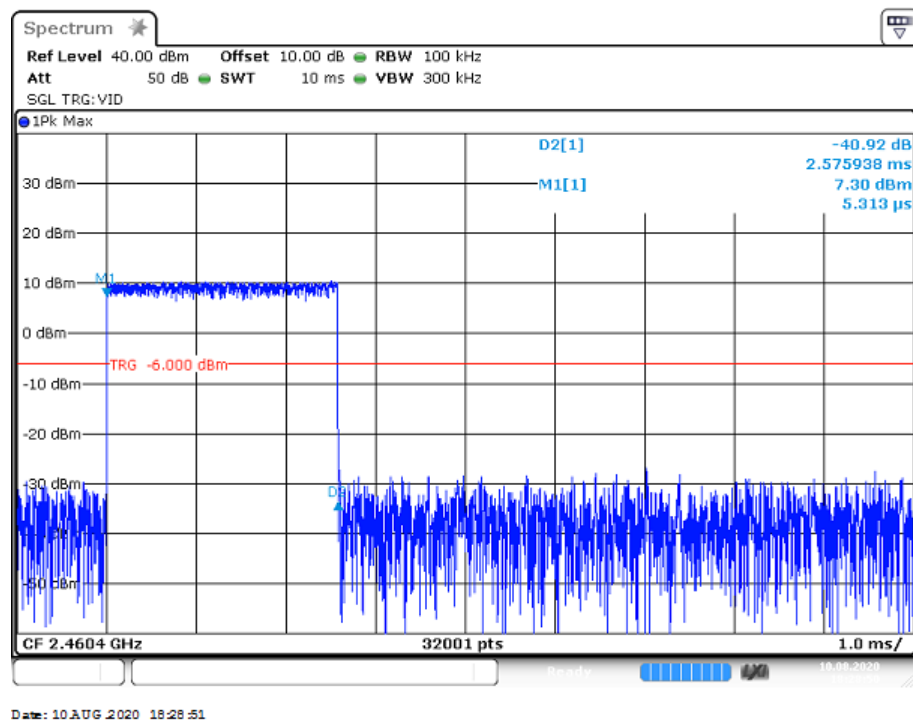
TC Start	10.08.2020 18:24:27
Ambit Temp [°C] Humidity [rel%]	28.3 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2460.400 2460.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 32001 SWE



HC_10082020_182429.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-40.923	dB	Information

TEST FINISHED					
General Verdict	10.08.2020 18:24:44 / RT: 17 s			PASS	

35. Hardcopy Spectrum Analyzer ~

Test References

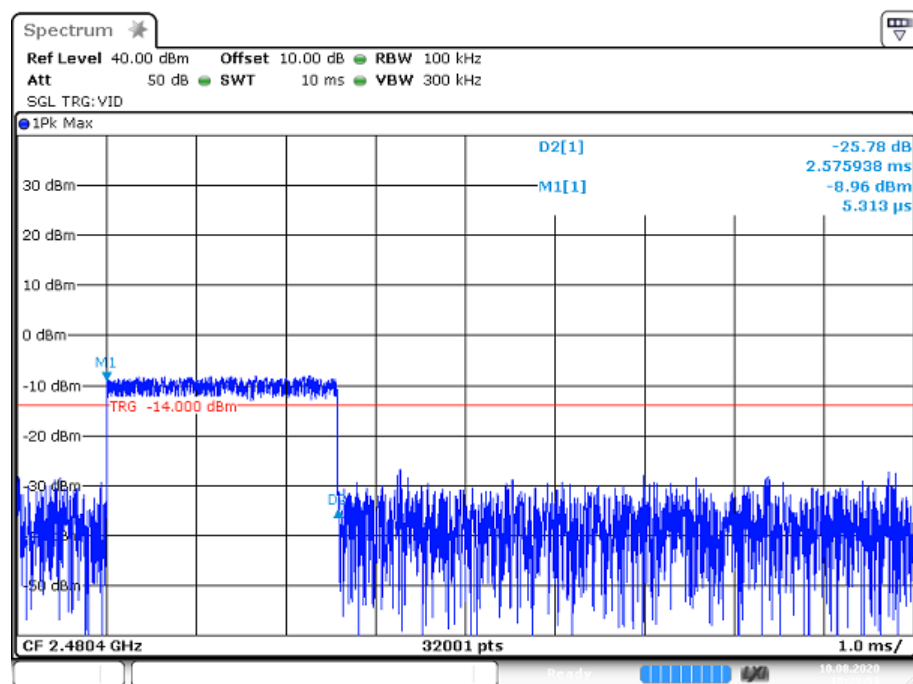
TC Start	10.08.2020 18:25:27
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2480.400 2480.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 32001 SWE



Date: 10 AUG 2020 18:29:51

HC_10082020_182530.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-25.776	dB	Information

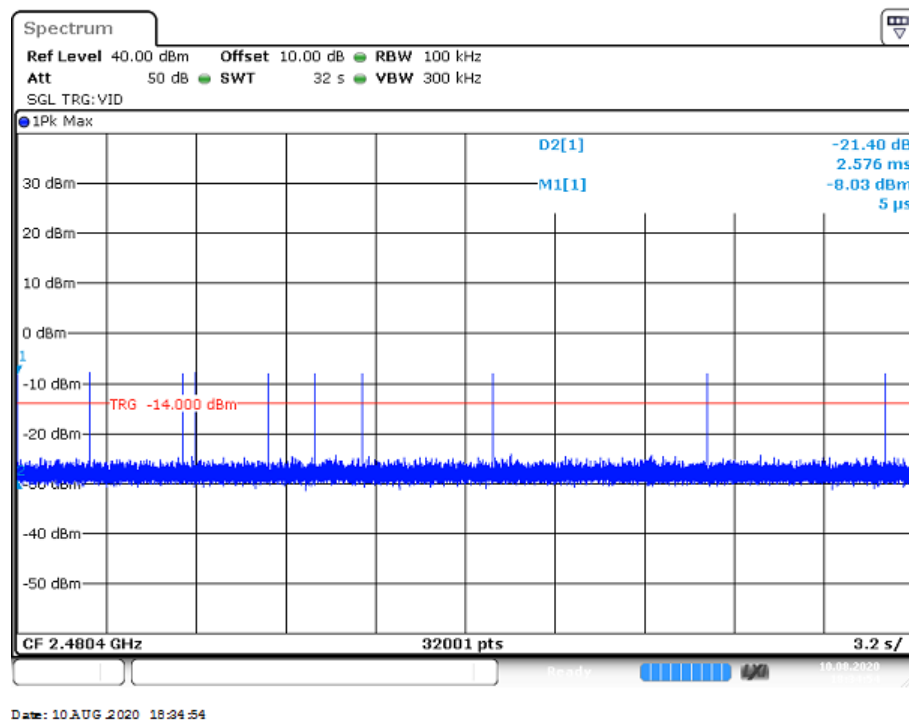
TEST FINISHED					
General Verdict	10.08.2020 18:25:45 / RT: 17 s			PASS	

36. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:30:31
Ambit Temp [°C] Humidity [rel%]	28.3 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2480.400 2480.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 32001 SWE



HC_10082020_183033.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-21.403	dB	Information

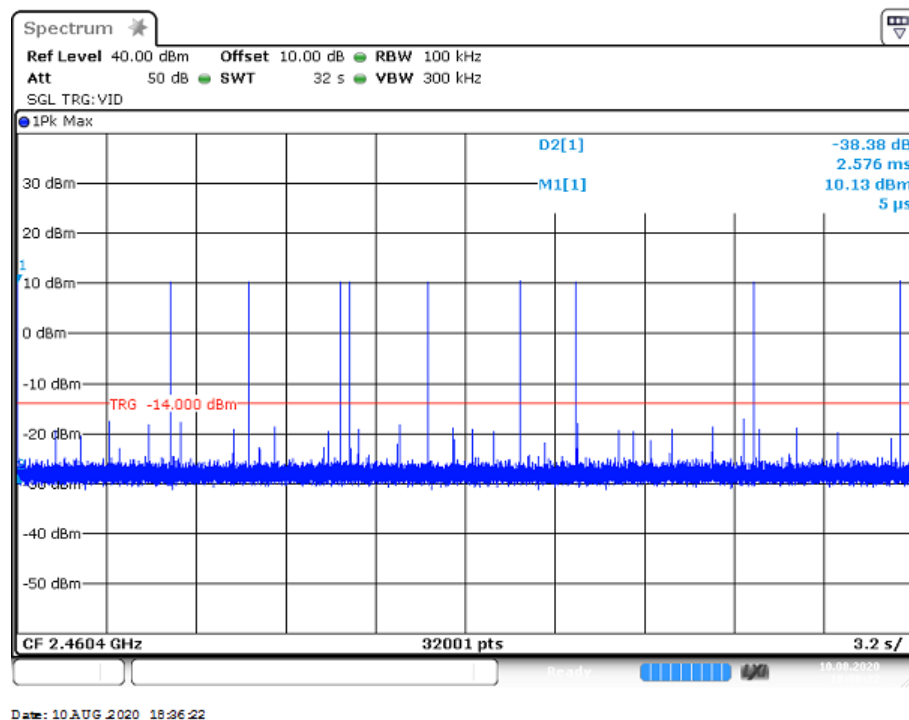
TEST FINISHED					
General Verdict	10.08.2020 18:30:48 / RT: 17 s			PASS	

37. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:31:59
Ambit Temp [°C] Humidity [rel%]	28.3 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2460.400 2460.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 32001 SWE



HC_10082020_183201.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-38.380	dB	Information

TEST FINISHED					
General Verdict	10.08.2020 18:32:16 / RT: 17 s			PASS	

38. Hardcopy Spectrum Analyzer ~

Test References

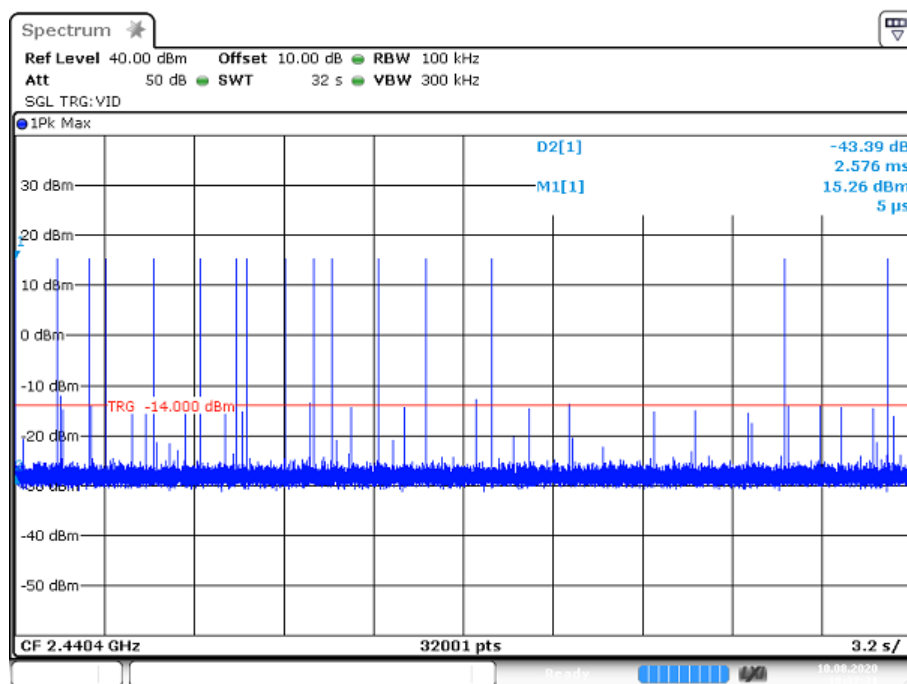
TC Start	10.08.2020 18:33:07
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2440.400 2440.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 32001 SWE



Date: 10.AUG.2020 18:37:31

HC_10082020_183310.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-43.394	dB	Information

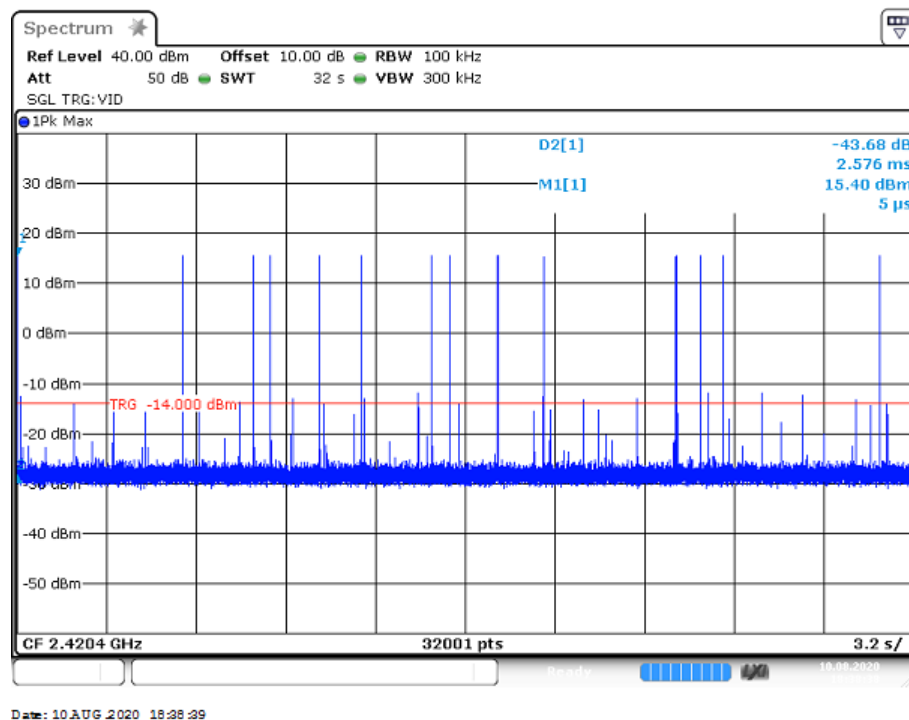
TEST FINISHED					
General Verdict	10.08.2020 18:33:25 / RT: 17 s			PASS	

39. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:34:15
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2420.400 2420.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 32001 SWE



HC_10082020_183417.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-43.676	dB	Information

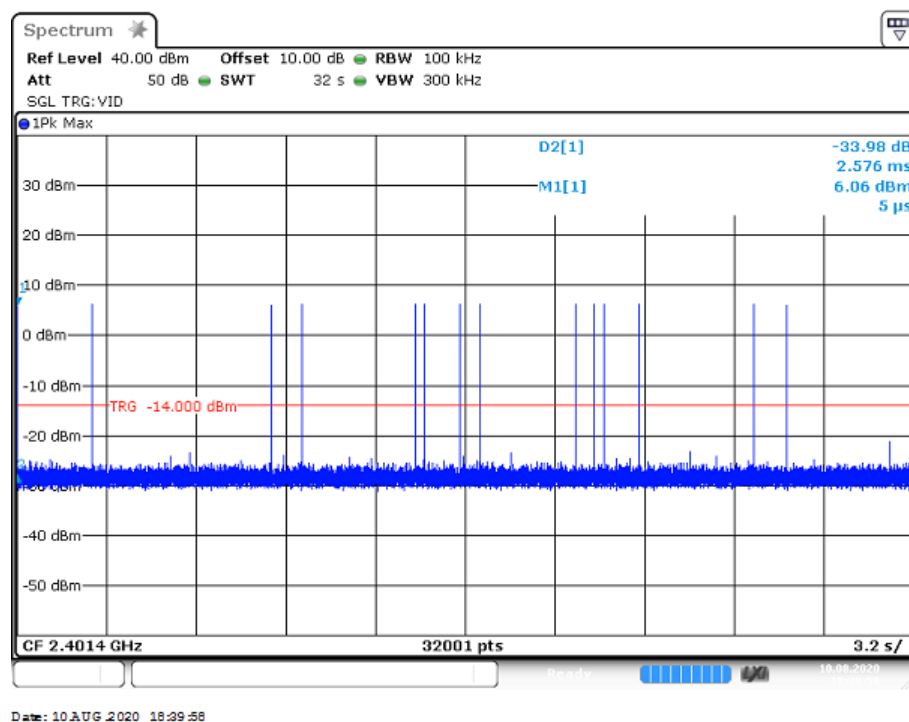
TEST FINISHED					
General Verdict	10.08.2020 18:34:33 / RT: 17 s			PASS	

40. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:35:34
Ambit Temp [°C] Humidity [rel%]	28.2 34
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2401.400 2401.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 32001 SWE



HC_10082020_183537.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.005	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	2.576	ms	Information
Delta Marker 2 Level	---	---	-33.976	dB	Information

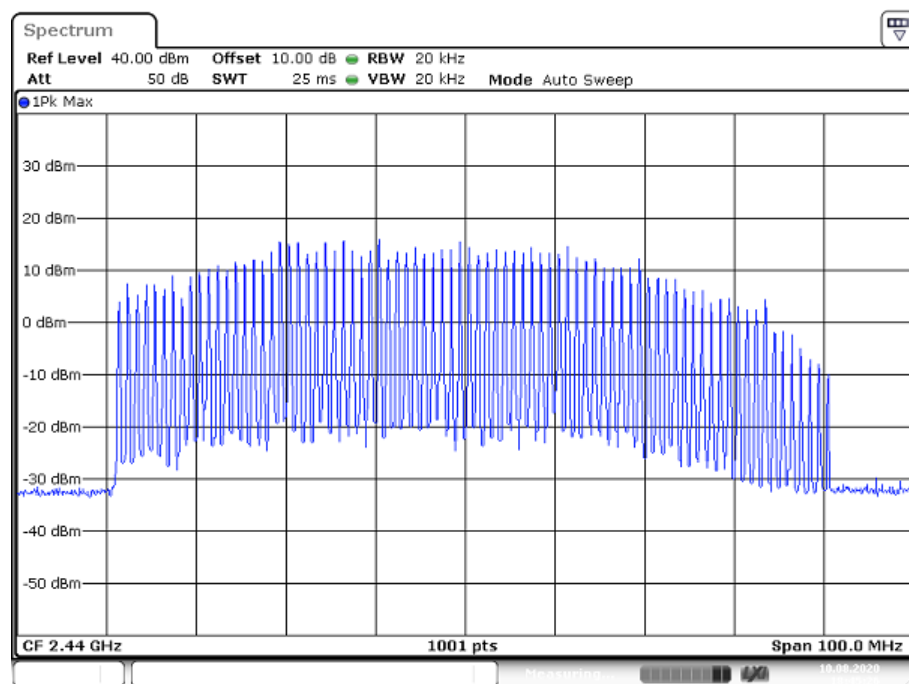
TEST FINISHED					
General Verdict	10.08.2020 18:35:52 / RT: 17 s			PASS	

41. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:41:03
Ambit Temp [°C] Humidity [rel%]	28.2 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2390.000 2490.000
RBW [MHz] VBW [MHz]	0.020000 0.020000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	25 0 1001 SWE



Date: 10.AUG.2020 18:45:26

HC_10082020_184105.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict

Delta Marker Readout

TEST FINISHED

General Verdict

10.08.2020 18:41:20 / RT: 17 s

PASS

- END OF DOCUMENT -
