

Measurement Results

1-1329/20-01-03_log1_conducted

[Test logging](#)

This addendum is electronically signed and valid without handwritten signature.
For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Document authorized:

Marco Bertolino
Lab Manager
Radio Communications & EMC

Table of Content

EUT Summary	3
1. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4	4
2. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4	7
3. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4	10
4. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4	13
5. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4	15
6. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4	17
7. FCC Part 15.247 TX Spurious Conducted ~ hopping mode	19
8. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4	21
9. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4	23
10. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4	25
11. FCC Part 15.247 Number Of Hopping Channels FHSS ~ Generic 2G4	27
12. Carrier frequency separation 1	29
13. Carrier frequency separation 2	31
14. Timing 1 - burst	33
15. Timing 2 - observation window	35

EUT Summary

EUT DEFINITION	
Manufacturer	Sensire
Type	NI
Kind	NI
Serial Number Setup Number	3000003E 1.0
Version SW FW HW	NI NI NI
Comment 1 2	
Temperature [°C] Min Nom Max	-30 20 75
Voltage [V] Min Nom Max @Current Max [A]	3.6 3.8 4.2 @1

EUT Common Settings 2G4	
Hopping supported	No
Burst length [ms]	10
Nominal Bandwidth [MHz]	0.08
User Interaction	Yes

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

Test References	
TC Start	11.02.2021 15:11:26
Ambit Temp [°C] Humidity [rel%]	25.1 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC 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	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

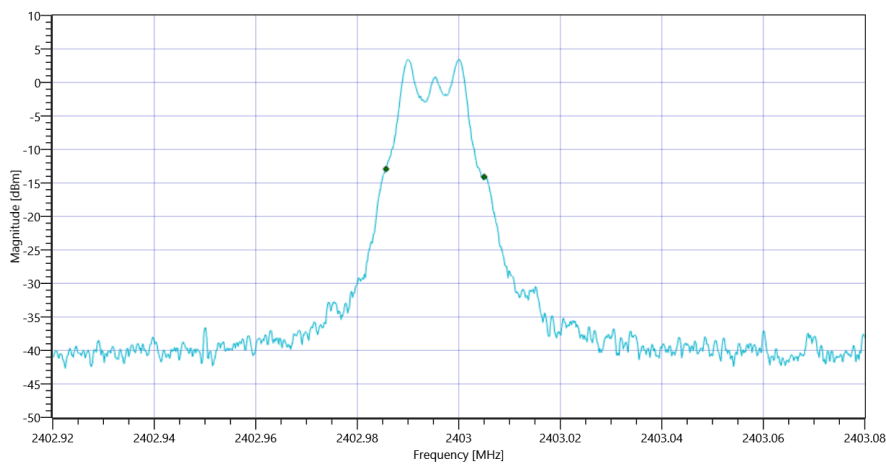
Test at TX 2403 MHz

READ SA SETTINGS:

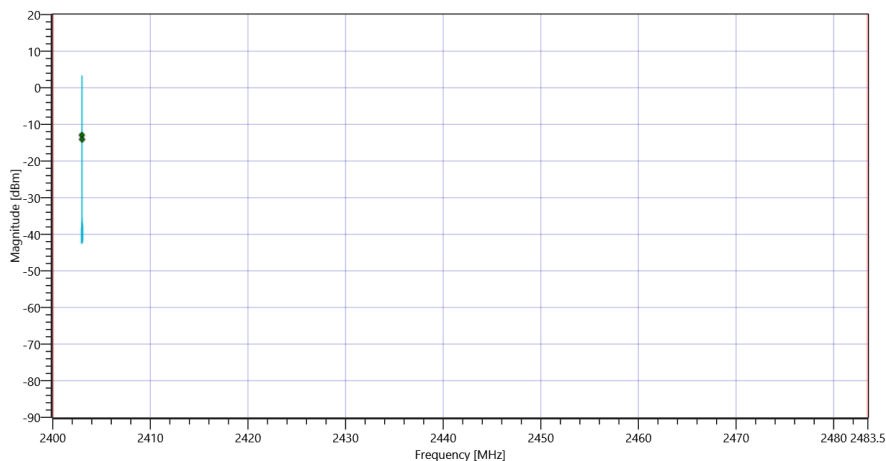
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.56 15.58 10
Start [MHz] Stop [MHz]	2402.920 2403.080
RBW [MHz] VBW [MHz]	0.002000 0.005000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	19	kHz	INFO
T1 99%	2400.000000	---	2402.9857	MHz	PASS
T2 99%	---	2483.500000	2403.0050	MHz	PASS



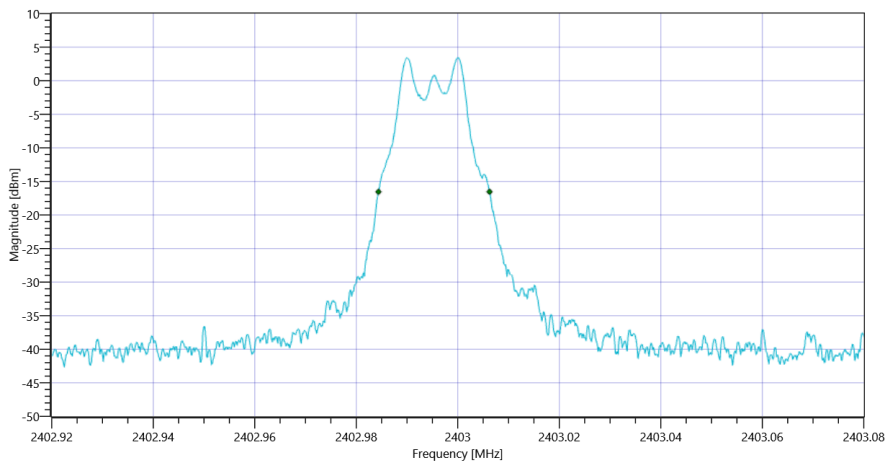
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_11022021_151204.png



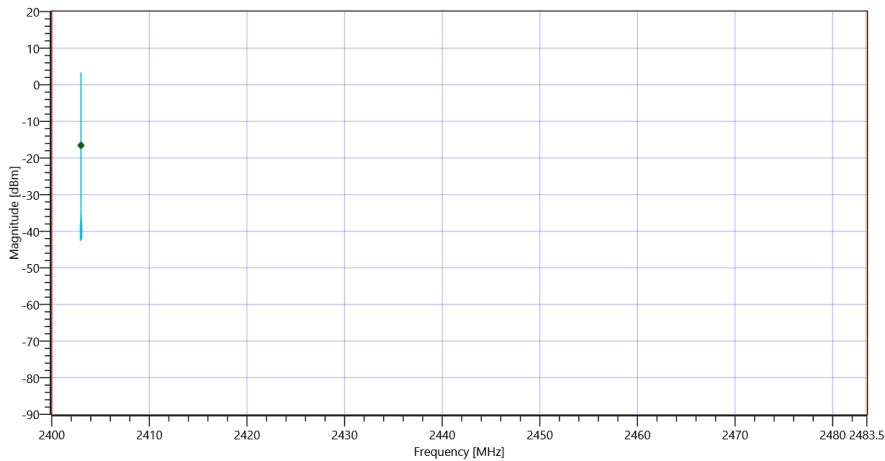
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_11022021_151212.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	22	kHz	INFO
T1 20dB	2400.000000	---	2402.9844	MHz	PASS
T2 20dB	---	2483.500000	2403.0063	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_11022021_151221.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_11022021_151228.png

TEST FINISHED	
General Verdict	PASS

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

Test References	
TC Start	11.02.2021 15:21:31
Ambit Temp [°C] Humidity [rel%]	25.1 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC 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	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

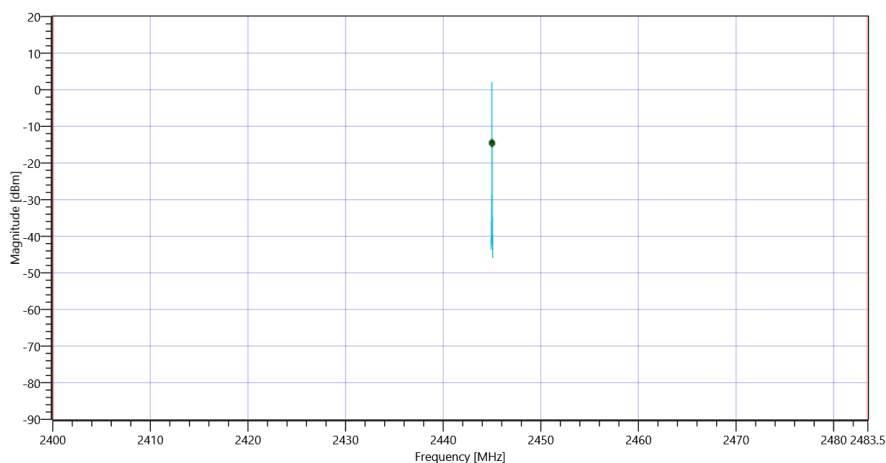
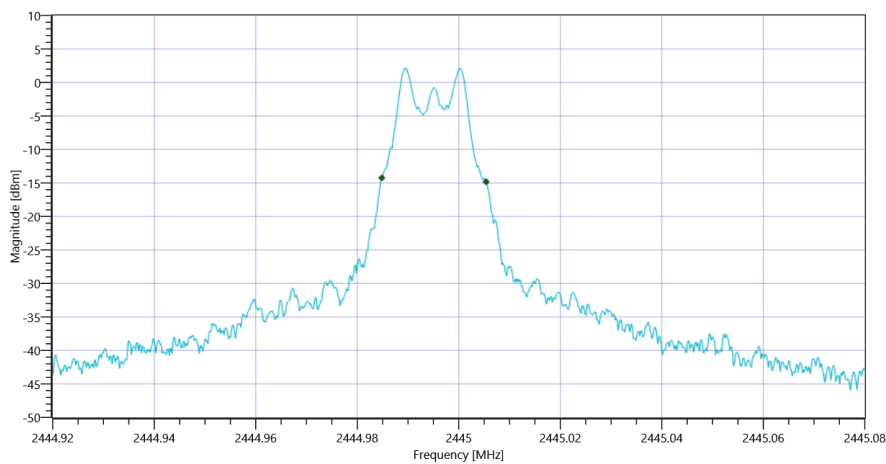
Test at TX 2445 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.21 15.46 10
Start [MHz] Stop [MHz]	2444.920 2445.080
RBW [MHz] VBW [MHz]	0.002000 0.005000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

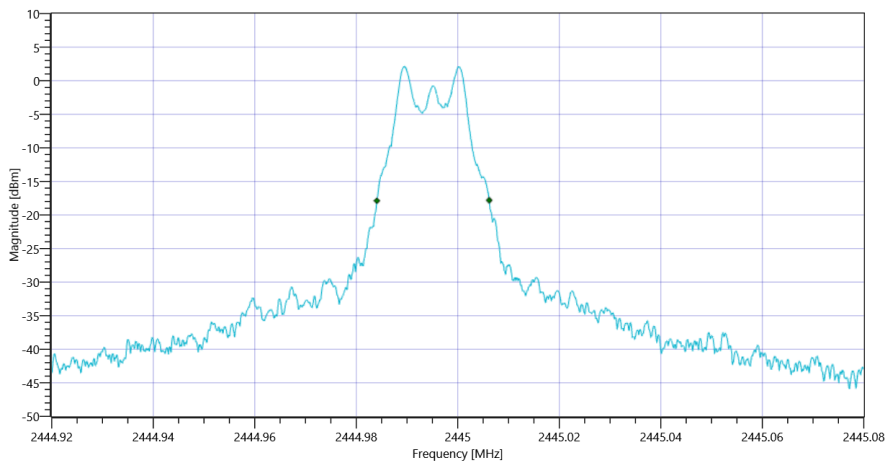
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	21	kHz	INFO
T1 99%	2400.000000	---	2444.9848	MHz	PASS
T2 99%	---	2483.500000	2445.0054	MHz	PASS

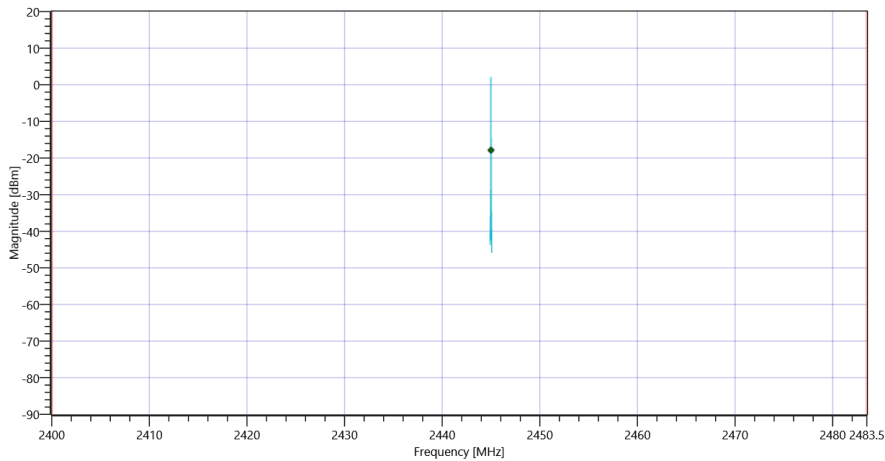


RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	22	kHz	INFO
T1 20dB	2400.000000	---	2444.9841	MHz	PASS
T2 20dB	---	2483.500000	2445.0062	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_11022021_153448.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_11022021_153456.png

TEST FINISHED	
General Verdict	PASS

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

Test References	
TC Start	11.02.2021 15:45:30
Ambit Temp [°C] Humidity [rel%]	25.3 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC 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	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	True Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

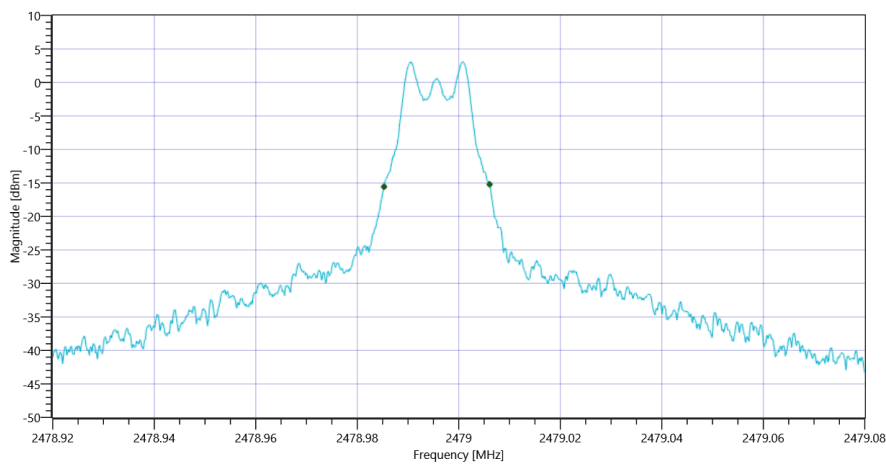
Test at TX 2479 MHz

READ SA SETTINGS:

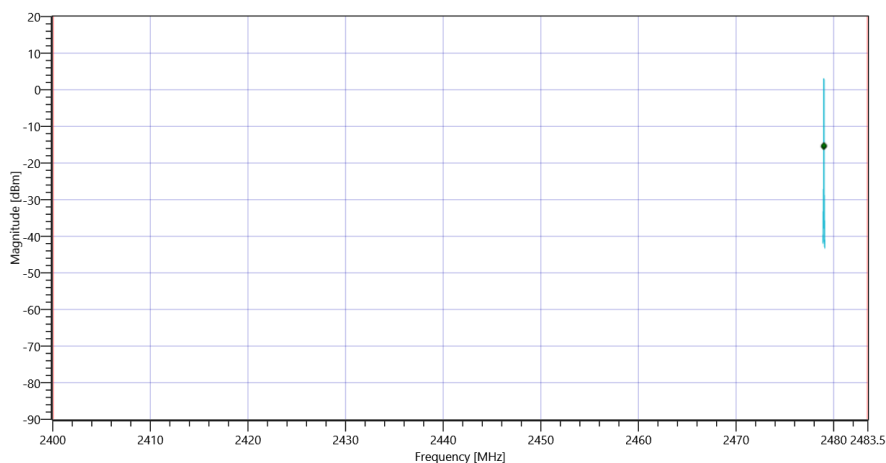
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.48 15.41 10
Start [MHz] Stop [MHz]	2478.920 2479.080
RBW [MHz] VBW [MHz]	0.002000 0.005000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	21	kHz	INFO
T1 99%	2400.000000	---	2478.9853	MHz	PASS
T2 99%	---	2483.500000	2479.0061	MHz	PASS



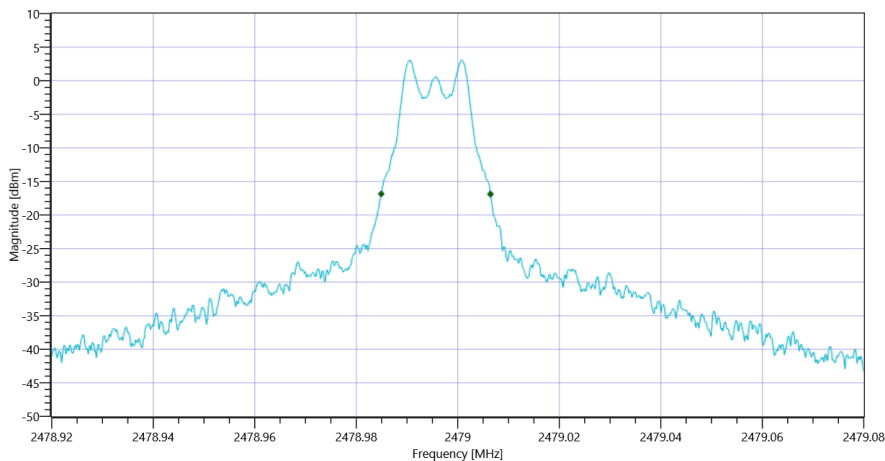
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_11022021_154620.png



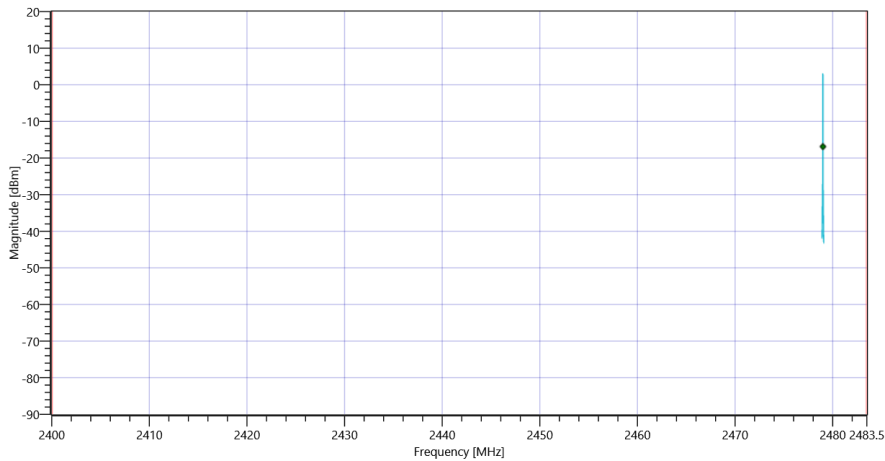
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_11022021_154628.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	22	kHz	INFO
T1 20dB	2400.000000	---	2478.9849	MHz	PASS
T2 20dB	---	2483.500000	2479.0064	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_11022021_154637.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_11022021_154645.png

TEST FINISHED	
General Verdict	PASS

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

Test References	
TC Start	11.02.2021 15:05:08
Ambit Temp [°C] Humidity [rel%]	25.0 13
System Version	1.9.9.9
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.
TC 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	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

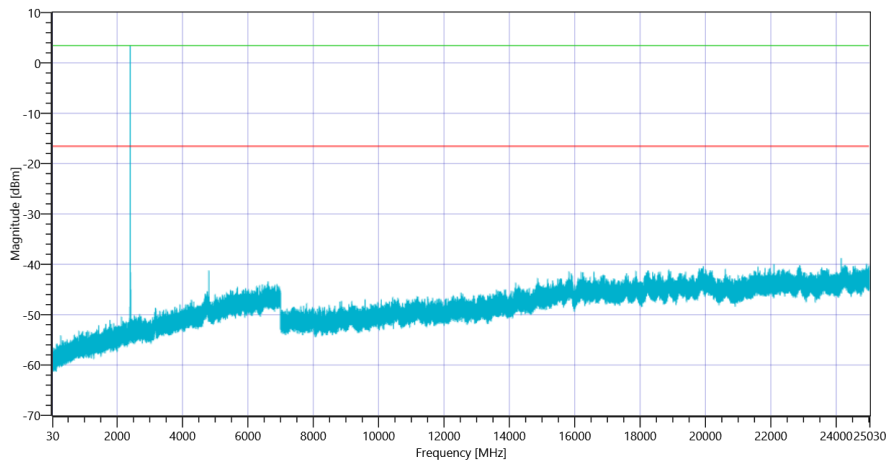
Test at TX 2403 MHz

READ SA SETTINGS:

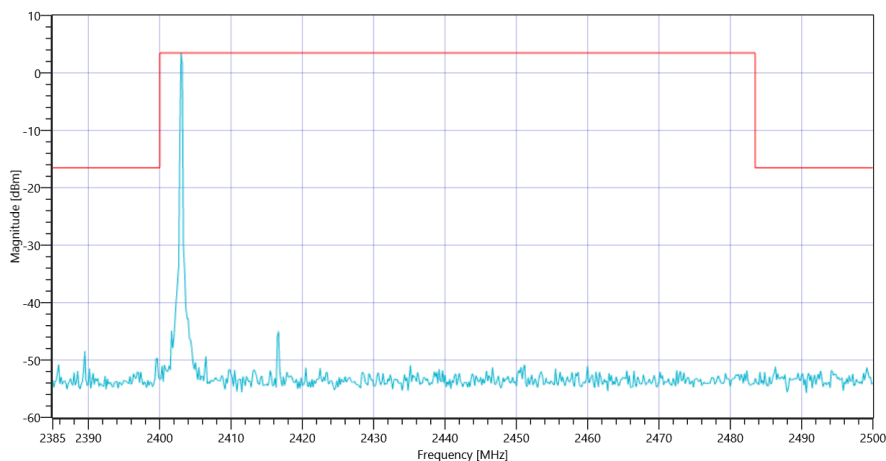
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.56 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	500 8 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2403.00 MHz	---	---	3.46	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24156.333 MHz	0	---	22.24	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2403_11022021_151114.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2403_11022021_151120.png

TEST FINISHED

General Verdict

PASS

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

Test References	
TC Start	11.02.2021 15:15:05
Ambit Temp [°C] Humidity [rel%]	25.1 13
System Version	1.9.9.9
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.
TC 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	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

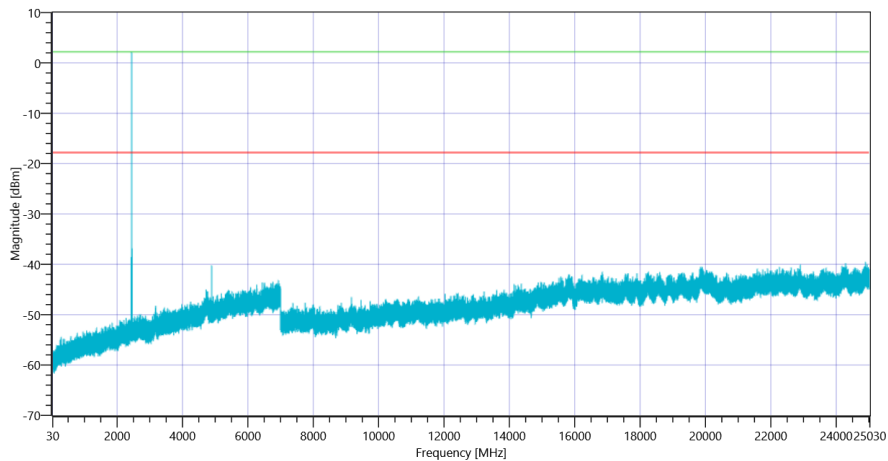
Test at TX 2445 MHz

READ SA SETTINGS:

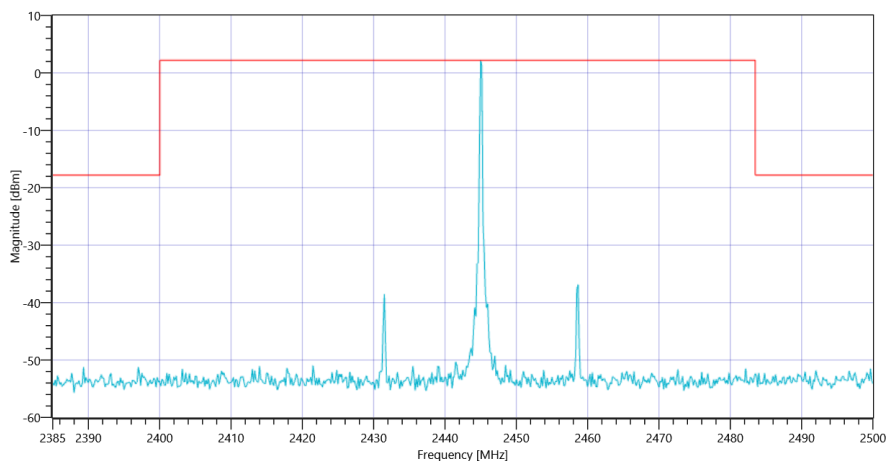
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	2.19 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	500 8 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2445.00 MHz	---	---	2.19	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 24894.667 MHz	0	---	21.72	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2445_11022021_152118.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2445_11022021_152125.png

TEST FINISHED

General Verdict

PASS

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

Test References	
TC Start	11.02.2021 15:37:30
Ambit Temp [°C] Humidity [rel%]	25.3 13
System Version	1.9.9.9
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.
TC 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	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	True Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

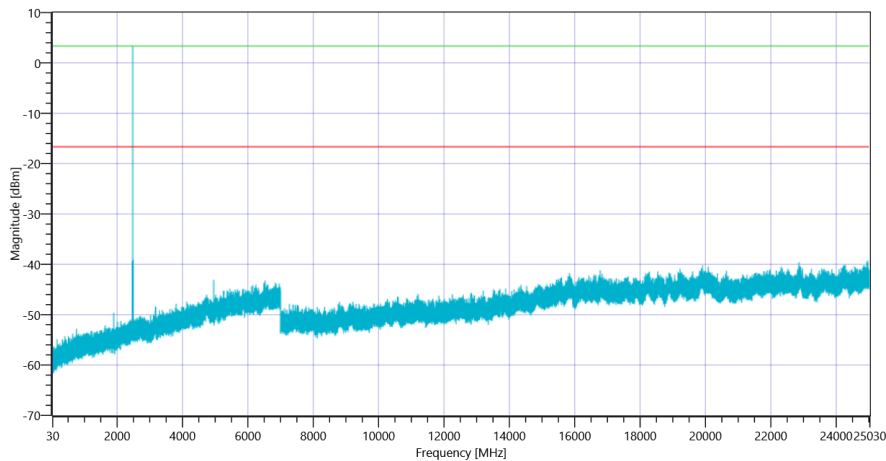
Test at TX 2479 MHz

READ SA SETTINGS:

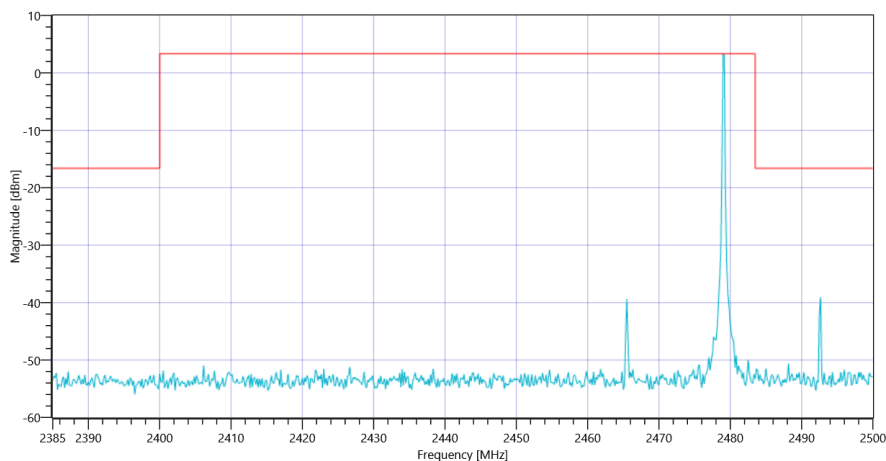
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.46 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	500 8 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2479.00 MHz	---	---	3.36	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 30 MHz	0	---	-141.24	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2479_11022021_154517.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2479_11022021_154524.png

TEST FINISHED

General Verdict

PASS

7. FCC Part 15.247 TX Spurious Conducted ~ hopping mode

Test References	
TC Start	18.02.2021 07:18:00
Ambit Temp [°C] Humidity [rel%]	23.7 29
System Version	1.9.9.9
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.
TC 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	nom
Voltage	nom
Frequency low to test	hopping mode
Frequency mid to test	hopping mode
Frequency high to test	hopping mode
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

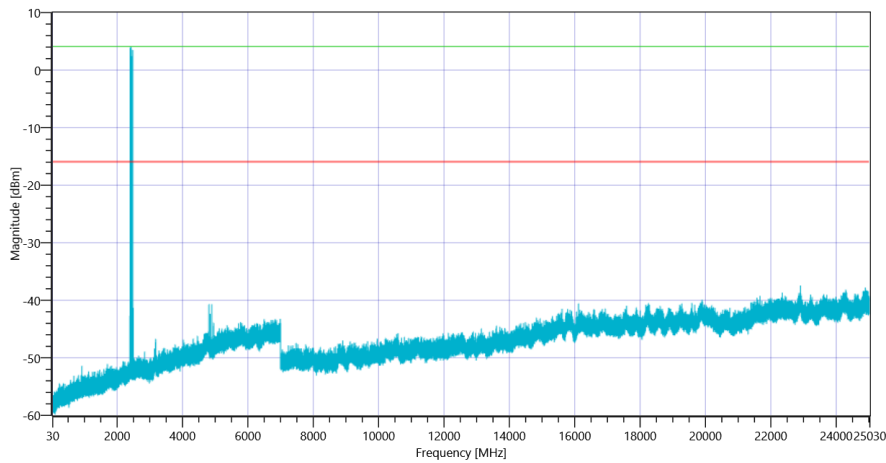
Test at TX 2403 MHz

READ SA SETTINGS:

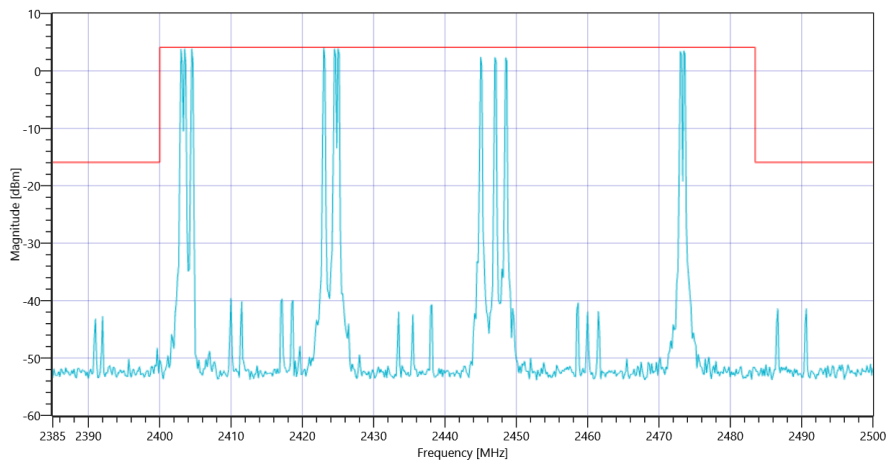
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.19 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	2000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2423.00 MHz	---	---	4.08	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 22905.333 MHz	0	---	21.52	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2403_18022021_073804.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2403_18022021_073810.png

TEST FINISHED

General Verdict

PASS

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

Test References	
TC Start	11.02.2021 15:04:28
Ambit Temp [°C] Humidity [rel%]	25.0 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC 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	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

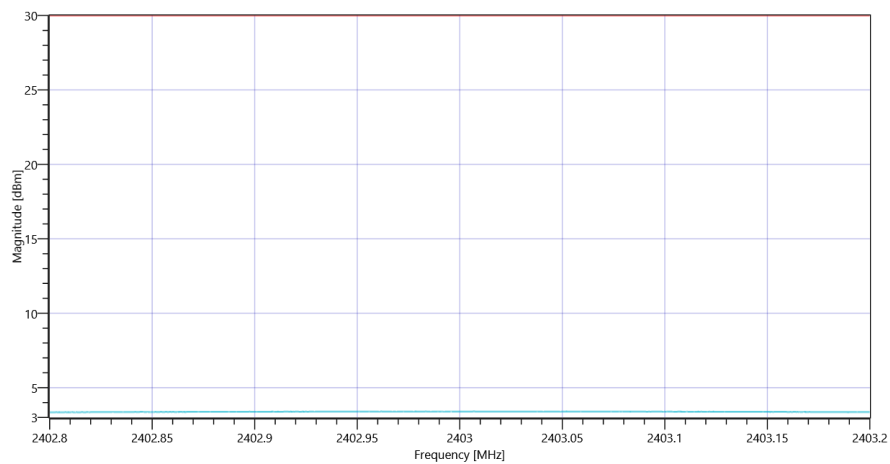
Test at TX 2403 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.60 15.58 15
Start [MHz] Stop [MHz]	2402.800 2403.200
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	3.41	dBm	PASS
Peak Power	---	1000	2.192805	mW	PASS
Frequency at Peak	---	---	2403.006	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_11022021_150503.png

TEST FINISHED

General Verdict

PASS

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

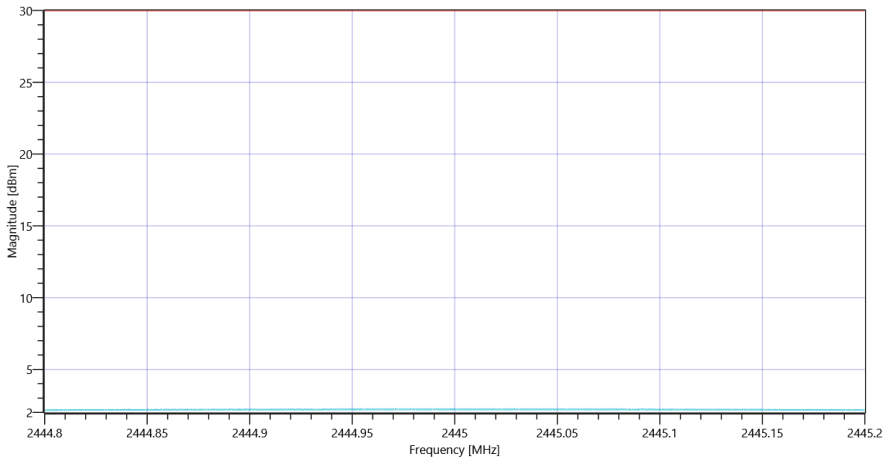
Test References	
TC Start	11.02.2021 15:14:25
Ambit Temp [°C] Humidity [rel%]	25.1 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

Test at TX 2445 MHz

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.30 15.46 15
Start [MHz] Stop [MHz]	2444.800 2445.200
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 1001 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	2.22	dBm	PASS
Peak Power	---	1000	1.667247	mW	PASS
Frequency at Peak	---	---	2444.971	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_11022021_151500.png

TEST FINISHED	
General Verdict	PASS

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

Test References	
TC Start	11.02.2021 15:36:47
Ambit Temp [°C] Humidity [rel%]	25.3 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC 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	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	True Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

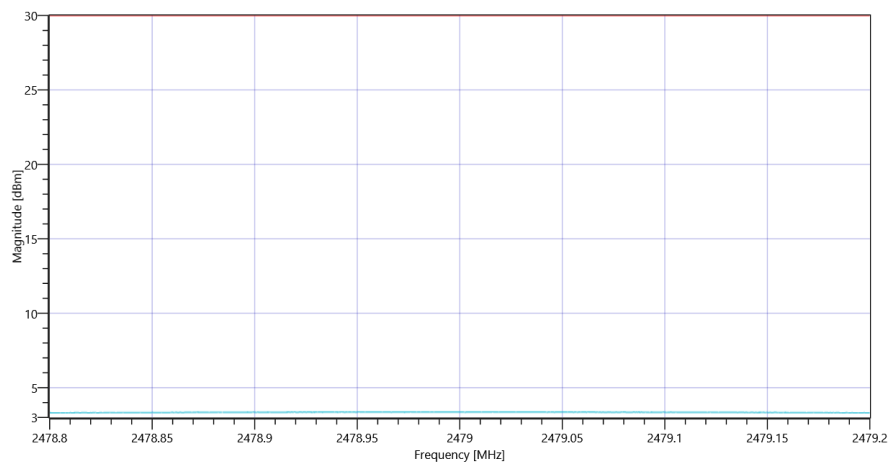
Test at TX 2479 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.49 15.41 15
Start [MHz] Stop [MHz]	2478.800 2479.200
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	3.37	dBm	PASS
Peak Power	---	1000	2.172701	mW	PASS
Frequency at Peak	---	---	2478.981	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_11022021_153725.png

TEST FINISHED

General Verdict

PASS

11. FCC Part 15.247 Number Of Hopping Channels FHSS ~ Generic 2G4

Test References	
TC Start	11.02.2021 16:18:18
Ambit Temp [°C] Humidity [rel%]	25.6 13
System Version	1.9.9.9
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.1
My Description	FCC 15.247 Number Of Hopping Channels FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2403
Frequency mid to test	False Freq [MHz] 2445
Frequency high to test	False Freq [MHz] 2479
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

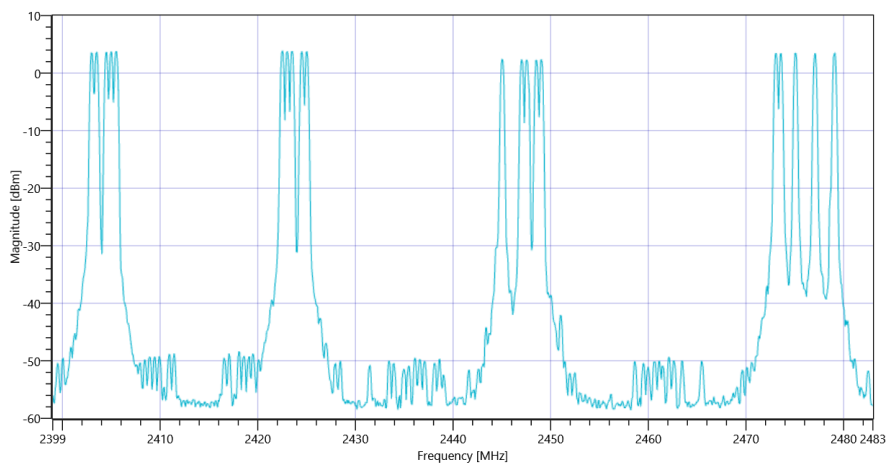
Test at TX hopping MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.92 15.48 10
Start [MHz] Stop [MHz]	2399.000 2483.000
RBW [MHz] VBW [MHz]	0.200000 0.500000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 10000 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Hopp channel (rounded)	---	---	2403	MHz	Information
Hopp channel (rounded)	---	---	2404	MHz	Information
Hopp channel (rounded)	---	---	2404	MHz	Information
Hopp channel (rounded)	---	---	2405	MHz	Information
Hopp channel (rounded)	---	---	2406	MHz	Information
Hopp channel (rounded)	---	---	2423	MHz	Information
Hopp channel (rounded)	---	---	2423	MHz	Information
Hopp channel (rounded)	---	---	2424	MHz	Information
Hopp channel (rounded)	---	---	2425	MHz	Information
Hopp channel (rounded)	---	---	2425	MHz	Information
Hopp channel (rounded)	---	---	2445	MHz	Information
Hopp channel (rounded)	---	---	2447	MHz	Information
Hopp channel (rounded)	---	---	2448	MHz	Information
Hopp channel (rounded)	---	---	2449	MHz	Information
Hopp channel (rounded)	---	---	2449	MHz	Information
Hopp channel (rounded)	---	---	2473	MHz	Information
Hopp channel (rounded)	---	---	2474	MHz	Information
Hopp channel (rounded)	---	---	2475	MHz	Information
Hopp channel (rounded)	---	---	2477	MHz	Information
Hopp channel (rounded)	---	---	2479	MHz	Information
Σ Hopping channels	15	---	20	Number	PASS



TEST FINISHED

General Verdict

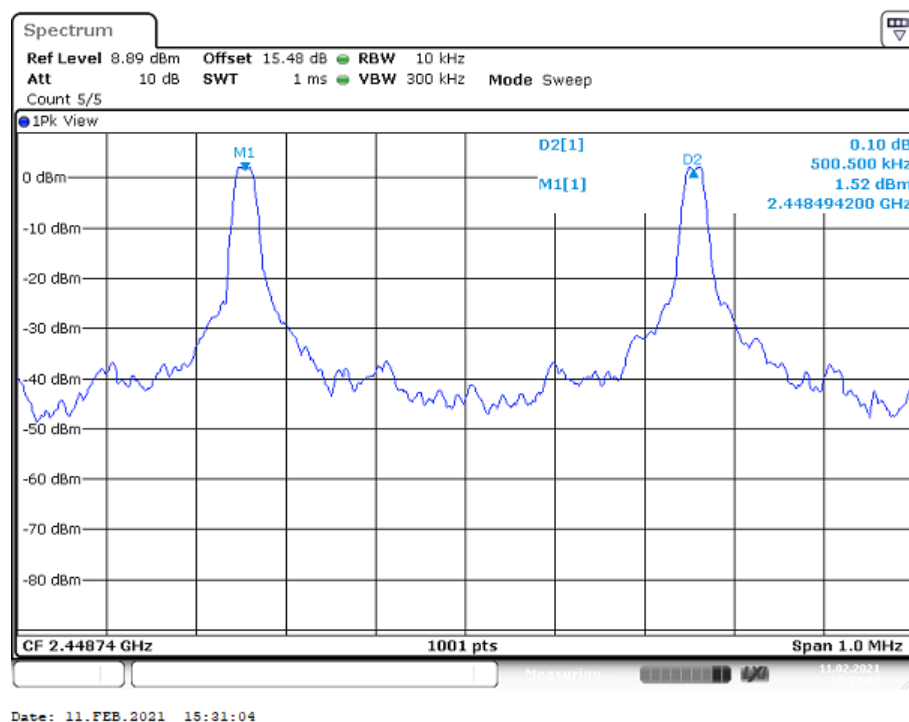
PASS

12. Carrier frequency separation 1

Test References	
TC Start	11.02.2021 16:28:21
Ambit Temp [°C] Humidity [rel%]	25.8 12
System Version	1.9.9.9
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.89 15.48 10
Start [MHz] Stop [MHz]	2448.240 2449.240
RBW [MHz] VBW [MHz]	0.010000 0.300000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	1 5 1001 SWE



HC_11022021_162823.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	2448.494200	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Freq.	---	---	0.500500	MHz	Information
Delta Marker 2 Level	---	---	0.101	dB	Information

TEST FINISHED

General Verdict INFO

13. Carrier frequency separation 2

Test References

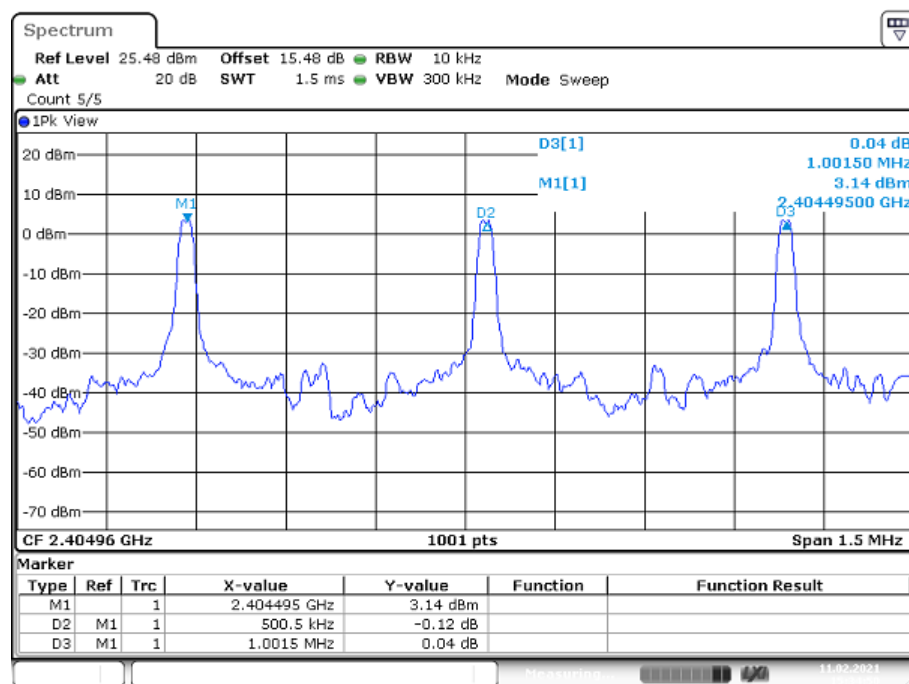
TC Start	11.02.2021 16:32:07
Ambit Temp [°C] Humidity [rel%]	25.8 12
System Version	1.9.9.9
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	25.48 15.48 20
Start [MHz] Stop [MHz]	2404.210 2405.710
RBW [MHz] VBW [MHz]	0.010000 0.300000
Detector TraceMode	POS VIEW
Sweep: Time [ms] Count Points per Section Type	2 5 1001 SWE



Date: 11.FEB.2021 15:24:50

HC_11022021_163209.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	2404.495000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Freq.	---	---	0.500500	MHz	Information
Delta Marker 2 Level	---	---	-0.124	dB	Information
Delta Marker 3 Freq.	---	---	1.001500	MHz	Information
Delta Marker 3 Level	---	---	0.039	dB	Information

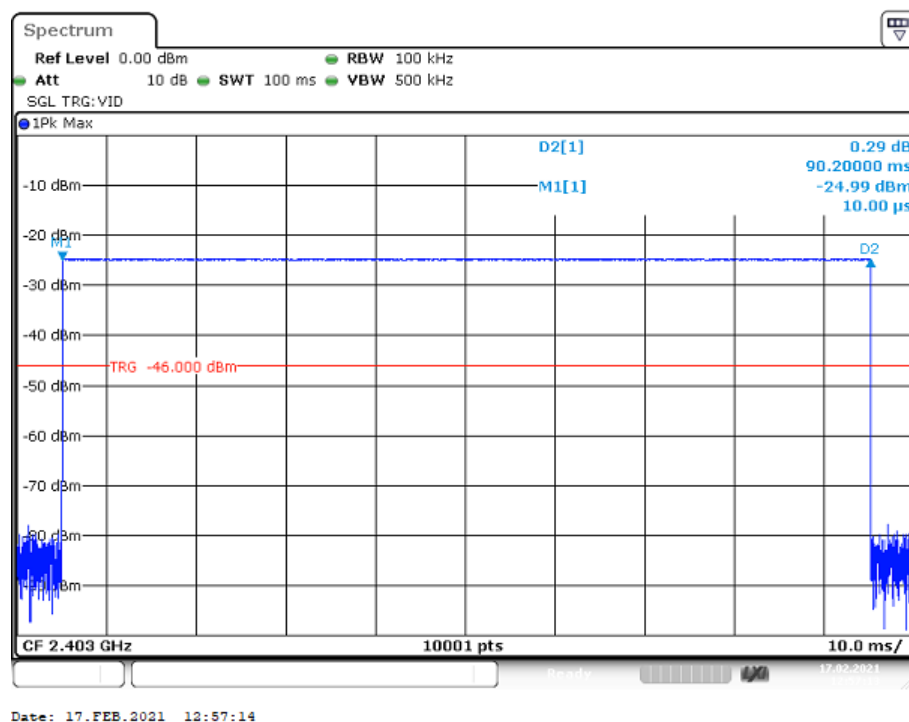
TEST FINISHED					
General Verdict				INFO	

14. Timing 1 - burst

Test References	
TC Start	17.02.2021 13:54:24
Ambit Temp [°C] Humidity [rel%]	24.1 31
System Version	1.9.9.9
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 10
Start [MHz] Stop [MHz]	2403.000 2403.000
RBW [MHz] VBW [MHz]	0.100000 0.500000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	100 0 10001 SWE



HC_17022021_135426.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.010	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	90.200	ms	Information
Delta Marker 2 Level	---	---	0.293	dB	Information

TEST FINISHED

General Verdict

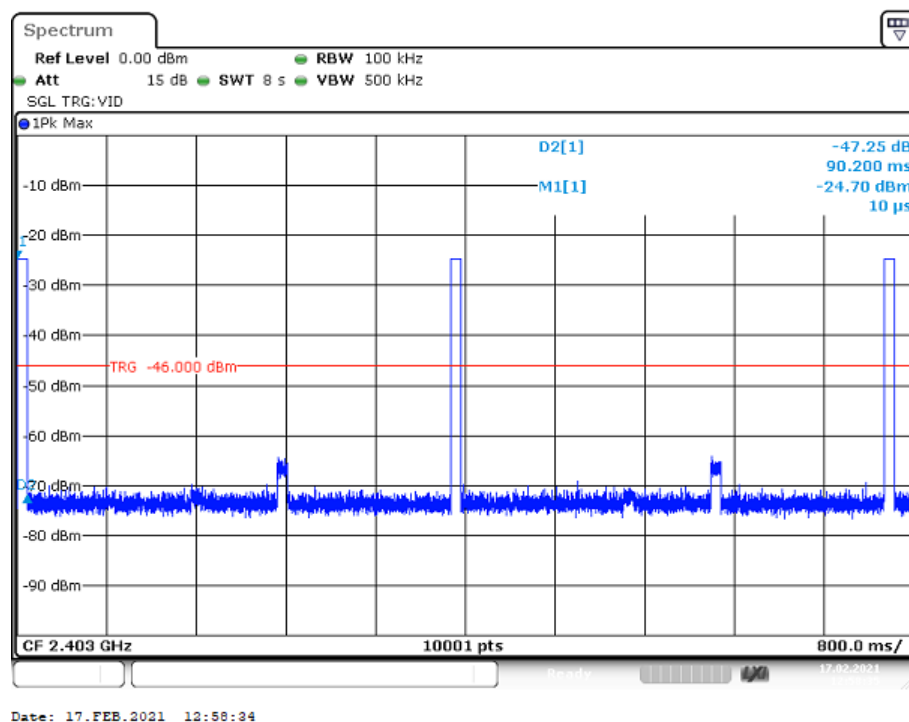
INFO

15. Timing 2 - observation window

Test References	
TC Start	17.02.2021 13:55:45
Ambit Temp [°C] Humidity [rel%]	24.1 31
System Version	1.9.9.9
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.00 0 15
Start [MHz] Stop [MHz]	2403.000 2403.000
RBW [MHz] VBW [MHz]	0.100000 0.500000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	8000 0 10001 SWE



HC_17022021_135547.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.010	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	90.200	ms	Information
Delta Marker 2 Level	---	---	-47.250	dB	Information

TEST FINISHED					
General Verdict				INFO	

- END OF DOCUMENT -